ASTMH
AMERICAN SOCIETY OF TROPICAL MEDICINE & HYGIENE
ADVANCING GLOBAL HEALTH SINCE 1903

VOLUME 105 NOVEMBER 2021 NUMBER 5 SUPPLEMENT

@ASTMH

#Courage #Compassion #Culture

2021 Annual Meeting

November 17–21 | VIRTUAL MEETING

PROGRAM BOOK

astmh.org | ajtmh.org
#TropMed21 #IamTropMed

Supplement to
The American Journal of Tropical Medicine and Hygiene

Abbott

NxTek™
ELIMINATE MALARIA Pf

The first and only ultra-sensitive rapid test with tenfold improved sensitivity.

The NxTek™ Eliminate Malaria Pf test is 10 times more sensitive than previous generations of malaria rapid diagnostic tests for the detection of Plasmodium falciparum HRP-II antigen,* enabling significantly better identification of individuals with low parasitemia, with and without evident symptoms of malaria infections.

GLOBALPOINTOFCARE.ABBOTT

*Compared with SD BIOLINE Malaria Ag P.f (05FK50).

© 2021 Abbott. All rights reserved. All trademarks referenced are trademarks of either the Abbott group of companies or their respective owners. Any photos displayed are for illustrative purposes only. COL-08574-01 11/21

BAYER

SPONSORED SYMPOSIUM SPONSORED BY BAYER CROP SCIENCE AND HELD IN CONJUCTION WITH THE 2021 ANNUAL MEETING

PRESENTATION FROM THE LATEST FILM FROM ACADEMY AWARD NOMINEE SCOTT HAMILTON KENNEDY

SHOT IN THE ARM

SHOT IN THE ARM FEATURES DR ANTHONY FAUCI, DR. PETER HOTEZ, DR. PAUL OFFIT, AND THEIR STRUGGLE AGAINST THE GROWING ANTI-VACCINE MOVEMENT. THE FILM BEGINS PRIOR TO THE COVID-19 OUTBREAK AND CONTINUES THROUGH COVID.

FEATURING WORK-IN-PROGRESS SCENES FROM THE YET TO BE RELEASED FILM, FOLLOWED BY A DIALOGUE WITH SCOTT HAMILTON KENNEDY AND FEATURED SCIENTIST DR. PAUL OFFIT.

THURSDAY, NOVEMBER 18 / 7:00 PM - 8:45 PM EST

Welcome to the virtual #TropMed21, your access to stimulating research, clinical advances and special lectures from the brightest scientific experts and thought leaders in tropical medicine and global health.

We are excited to bring you the ASTMH Annual Meeting, with new platforms for engagement and ways to catch up virtually with a colleague. While we are sad that we cannot gather in person in these challenging times, it is also an opportunity for you to join us and our global TropMed community from wherever you are.

Kicking off the meeting this year will be welcoming remarks from WHO Director Dr. Tedros Adhanom Ghebreyesus. We also look forward to a plenary session from CDC Director Dr. Rochelle P. Walensky.

Dr. Julie Jacobson will deliver the President's Address. The Soper Lecture will be delivered by Dr. Barney Graham, recently retired from the NIH Vaccine Research Center and Viral Pathogenesis Laboratory and Translational Science Core. Prof. Pedro Legua of the Instituto de Medicina Tropical Alexander von Humboldt in Lima, Peru, will deliver the Marcolongo Lecture.

This year's Alan J. Magill Malaria Eradication Symposium will provide an update on efforts while discussing the successes and challenges that hamper progress, including the ongoing COVID-19 pandemic.

We also will have a special screening and discussion of the documentary *Accidental Host - The Story of Rat Lungworm Disease* about a globalizing helminth of slugs that invades human brains and thrives in many tropical areas. And the Innovations Pitch Competition is back, featuring five finalists pitching innovative solutions for resilience in the face of a pandemic and reducing the impact of climate change.

All of this plus the cutting-edge content on malaria, protozoa, viral infections beyond SARS CoV-2 and the rest you have come to expect. Find it all on the meeting app, available for free at the App Store and Google Play.

Be sure to check out the virtual platform's new chat capabilities this year and while you're there, please visit our exhibitors and sponsors. They help make all of this possible.

We look forward to seeing you online for another fantastic ASTMH Annual Meeting!

Bienvenido al # TropMed21 virtual, su acceso a investigaciones estimulantes, avances clínicos y conferencias especiales de los expertos científicos más brillantes y líderes de opinión en medicina tropical y salud global.

Nos complace presentarle la Reunión Anual de ASTMH, con nuevas plataformas para la participación y formas de ponerse al día virtualmente con un colega. Si bien nos entristece no poder reunirnos en persona en estos tiempos difíciles, también es una oportunidad para que se una a nosotros y a nuestra comunidad global de TropMed desde donde se encuentre.

El inicio de la reunión de este año será el discurso de bienvenida del Director de la OMS, Dr. Tedros Adhanom Ghebreyesus. También esperamos una sesión plenaria de la directora de los CDC, Dra. Rochelle P. Walensky.

La Dra. Julie Jacobson pronunciará el discurso del presidente. La conferencia Soper será impartida por el Dr. Barney Graham, recientemente retirado del Centro de Investigación de Vacunas de los NIH y del Laboratorio de Patogénesis Viral y del Núcleo de Ciencias Traslacionales. El Prof. Pedro Legua del Instituto de Medicina Tropical Alexander von Humboldt en Lima, Perú, impartirá la Conferencia Marcolongo.

El Simposio de Erradicación de la Malaria Alan J. Magill de este año proporcionará una actualización sobre los esfuerzos mientras se discuten los éxitos y desafíos que obstaculizan el progreso, incluida la pandemia de COVID-19 en curso.

También tendremos una proyección especial y una discusión del documental *Accidental Host - The Story of Rat Lungworm Disease* sobre un helminto globalizado de babosas que invade el cerebro humano y prospera en muchas áreas tropicales. Y el concurso Innovations Pitch está de regreso, con cinco finalistas que presentan soluciones innovadoras para la resiliencia frente a una pandemia y la reducción del impacto del cambio climático.

Todo esto más el contenido de vanguardia sobre malaria, protozoos, infecciones virales además del SARS CoV-2 y el resto que espera. Encuéntrelo todo en la aplicación de reuniones, disponible de forma gratuita en App Store y Google Play.

Asegúrese de revisar las nuevas capacidades de chat de la plataforma virtual este año y, mientras esté allí, visite a nuestros expositores y patrocinadores. Ellos ayudan a que todo esto sea posible.

¡Esperamos verlo en línea para otra fantástica Reunión Anual de ASTMH!

Bienvenue au #TropMed21 virtuel, votre accès à des recherches stimulantes, à des avancées cliniques et à des conférences spéciales données par les plus brillants experts scientifiques et leaders d'opinion en médecine tropicale et en santé mondiale.

Nous sommes ravis de vous présenter la réunion annuelle de l'ASTMH, avec de nouvelles plateformes d'engagement et des moyens de discuter virtuellement avec un collègue. Nous sommes certes tristes de ne pouvoir nous réunir en personne en ces temps difficiles, toutefois, c'est aussi une occasion pour vous de vous joindre à nous et à notre communauté TropMed mondiale, où que vous soyez.

La réunion de cette année sera lancée par le discours de bienvenue du directeur de l'OMS, le Docteur Tedros Adhanom Ghebreyesus. Nous attendons également avec impatience la session plénière du directeur du CDC, le Docteur Rochelle P. Walensky.

Dr Julie Jacobson prononcera le discours du président. La conférence Soper sera donnée par le docteur Barney Graham, récemment retraité du NIH Vaccine Research Center and Viral Pathogenesis Laboratory, et de Translational Science Core. Le professeur Pedro Legua, de l'Instituto de Medicina Tropical Alexander von Humboldt de Lima, au Pérou, donnera la conférence de Marcolongo.

Cette année, le symposium Alan J. Magill sur l'éradication du paludisme fera le point sur les efforts déployés tout en discutant des succès et des défis qui entravent les progrès, notamment la pandémie actuelle de COVID-19

Nous aurons également une projection spéciale et un débat autour du documentaire *Accidental Host — The Story of Rat Lungworm Disease* (Hôte accidentel — L'histoire de la bronchite vermineuse chez le rat) portant sur un helminthe de limaces qui se mondialise, envahit les cerveaux humains et prospère dans de nombreuses régions tropicales. Et le concours de pitch d'innovations (Innovation Pitch Competition) est de retour, avec cinq finalistes présentant des solutions innovantes pour la résilience face à une pandémie et la réduction de l'impact du changement climatique.

Tous ces éléments ajoutés au contenu à la pointe de la technologie sur le paludisme, les protozoaires, les infections virales au-delà du SRAS CoV-2 et le reste, auquel vous êtes habitués. Vous trouverez tout sur l'application de la réunion, disponible gratuitement sur App Store et Google Play.

N'oubliez pas de jeter un coup d'œil aux nouvelles fonctionnalités de chat de la plateforme virtuelle cette année et, pendant que vous y êtes, visitez nos exposants et nos sponsors. Ils nous aident à rendre ces activités possibles.

Nous sommes impatients de vous retrouver en ligne pour une autre fantastique réunion annuelle de l'ASTMH !

Christine Petersen, DVM, PhD, FASTMH
Scientific Program Chair

Stephen Popper, ScD
Associate Scientific Program Chair

Julie Jacobson, MD, DTM&H
President

Karen A. Goraleski
CEO

BioFire® Global Fever Panel

1 Clinical Test. 6 Targets. All in under an Hour.

With just one test, bacterial, viral and protozoan targets can be identified in whole blood in under an hour with only 2 minutes of hands-on time using the BioFire® FilmArray® 2.0 System.

Bacteria	Viruses	Protozoa
Leptospira spp.	Chikungunya virus	*Plasmodium* spp.
	Dengue virus	*P. falciparum*
		P. vivax/ovale

Learn about our other Panels
by Visiting our Virtual Booth during ASTMH or
Visit us Online at www.BioFireDefense.com

BIOFIRE DEFENSE

ECK INSTITUTE FOR GLOBAL HEALTH

HEALTH IS A FUNDAMENTAL HUMAN RIGHT

The University of Notre Dame's Eck Institute for Global Health works to promote research, training, and service to advance health standards and reduce health disparities for all. The Institute features a two-year **Master of Science in Global Health program** and brings together multidisciplinary teams to understand and address health challenges that disproportionately affect the poor and to train the next generation of global health leaders.

Learn more about where we work at: **globalhealth.nd.edu**

@ndeckinstutute

UNIVERSITY OF NOTRE DAME | RESEARCH

ASTMH Thanks Our SPONSORS

Bill & Melinda Gates foundation

Center for Compassionate Leadership

Takeda

Gilead Creating Possible

Johnson & Johnson

SCJohnson A family company at work for a better world

Parasites Without Borders

Sabin Vaccine Institute

ASTMH Thanks Our SUPPORTERS

Burroughs Wellcome Fund

IAMAT International Association for Medical Assistance to Travellers

ASTMH Thanks Our CONTRIBUTORS

Roche

ASTMH Thanks Our FRIENDS OF THE YOUNG INVESTIGATORS

William A. Petri, Jr. in memory of William A. Petri, Sr.
Anonymous Donor
All individuals who made a donation during registration.

Table of Contents

Annual Meeting Sponsors, Supporters, Contributors and Friends 4
About ASTMH. 5
ASTMH Membership 6
Schedule-at-a-Glance 9
Navigating the Virtual Meeting Platform 22
Board of Directors 27
Subgroups and Committees. 29
Scientific Program Committee 34
Fellowships, Travel Awards and Grants 36
Subgroup Awards. 43
Late-Breaker Abstracts 47
Targeted Events for Students and Trainees 47
ePoster Sessions 49
Innovations Pitch Competition. 50
Social Media. 50
Sponsored Symposium 51
Continuing Education Credit. 53
ASTMH Program Areas 54
Advertiser, Exhibitor, Sponsor and Supporter Directory. . . . 57
Detailed Program 65
Poster Session A Directory 90
Poster Session B Directory 156
Poster Session C Directory 219
Presenter Index I 286
Presenter Index II (Abstract Authors) 288
Future Annual Meeting Dates. 319

American Society of Tropical Medicine and Hygiene
241 18th Street South, Suite 501
Arlington, Virginia 22202 USA
+1-571-351-5409
Fax +1-571-351-5422
info@astmh.org
astmh.org

ASTMH
AMERICAN SOCIETY OF TROPICAL MEDICINE & HYGIENE
ADVANCING GLOBAL HEALTH SINCE 1903

About the American Society of Tropical Medicine and Hygiene

The American Society of Tropical Medicine and Hygiene, founded in 1903, is the largest international scientific organization of experts dedicated to reducing the worldwide burden of tropical infectious diseases and improving global health. We accomplish this through generating and sharing scientific evidence, informing health policies and practices, fostering career development, recognizing excellence, and advocating for investment in tropical medicine/global health research.

New this year: SpatialChat!

This year's Annual Meeting includes a new feature called SpatialChat to facilitate networking and informal meetings during the conference. Using this platform, we hope to recreate the "hallway chats" of an in-person meeting in the virtual environment.

JOIN TODAY!

ASTMH Membership

Be a Member — Join ASTMH

We invite you to join ASTMH and benefit from membership in the premier international organization for professionals involved in tropical medicine and global health. ASTMH provides a forum for sharing scientific advances, exchanging ideas, fostering new research and providing professional education. **Join online at astmh.org** or visit the TropMed Hub in the Exhibit Hall for more information.

Advantages of ASTMH Membership

- Active specialty subgroups in the areas of clinical tropical medicine, medical entomology, virology, global health and molecular, cellular and immunoparasitology
- Online access to the *American Journal of Tropical Medicine and Hygiene,* the foremost peer-reviewed publication for communicating new findings in tropical medicine
- Reduced page charges for publishing in the *American Journal of Tropical Medicine and Hygiene*

New in 2021! Affiliate Membership

Affiliate Membership offers universities with programs in clinical and basic tropical medicine, infectious diseases and global public health the opportunity to join and lend their voice to a Society that is a leader in its field. Affiliate membership is particularly focused on bringing together undergraduate and graduate students, postdocs, medical residents and fellows in these programs so that they can take full advantage of all that ASTMH offers. **Click here** for more information.

Educational Opportunities

- Reduced registration rates for the Annual Meeting, the premier gathering of tropical medicine professionals, featuring the latest cutting-edge research and program developments via symposia, plenary and interactive sessions, contributed and invited abstracts, and impromptu networking opportunities
- Reduced rates for the Update Course in Clinical Tropical Medicine and Travelers' Health
- Examination Leading to a CTropMed® — Certificate of Knowledge in Clinical Tropical Medicine and Travelers' Health
- Unlimited access to GOTropMEd, the ASTMH Global Online Tropical Medical Education website

Professional Development Opportunities

- Funding, fellowship and sponsorship opportunities tailored to members' specific research and clinical needs
- Annual Meeting: the premier gathering of tropical medicine professionals
- Access to the leading minds working and studying in tropical medicine today
- Access to educational webinars
- Annual awards and scholarships for excellence across disciplines
- Access to a professional network
- Members recognized as leaders in the tropical medicine and hygiene field
- Opportunities for leadership and skills-building through Board, subgroup and committee participation

Membership Dues

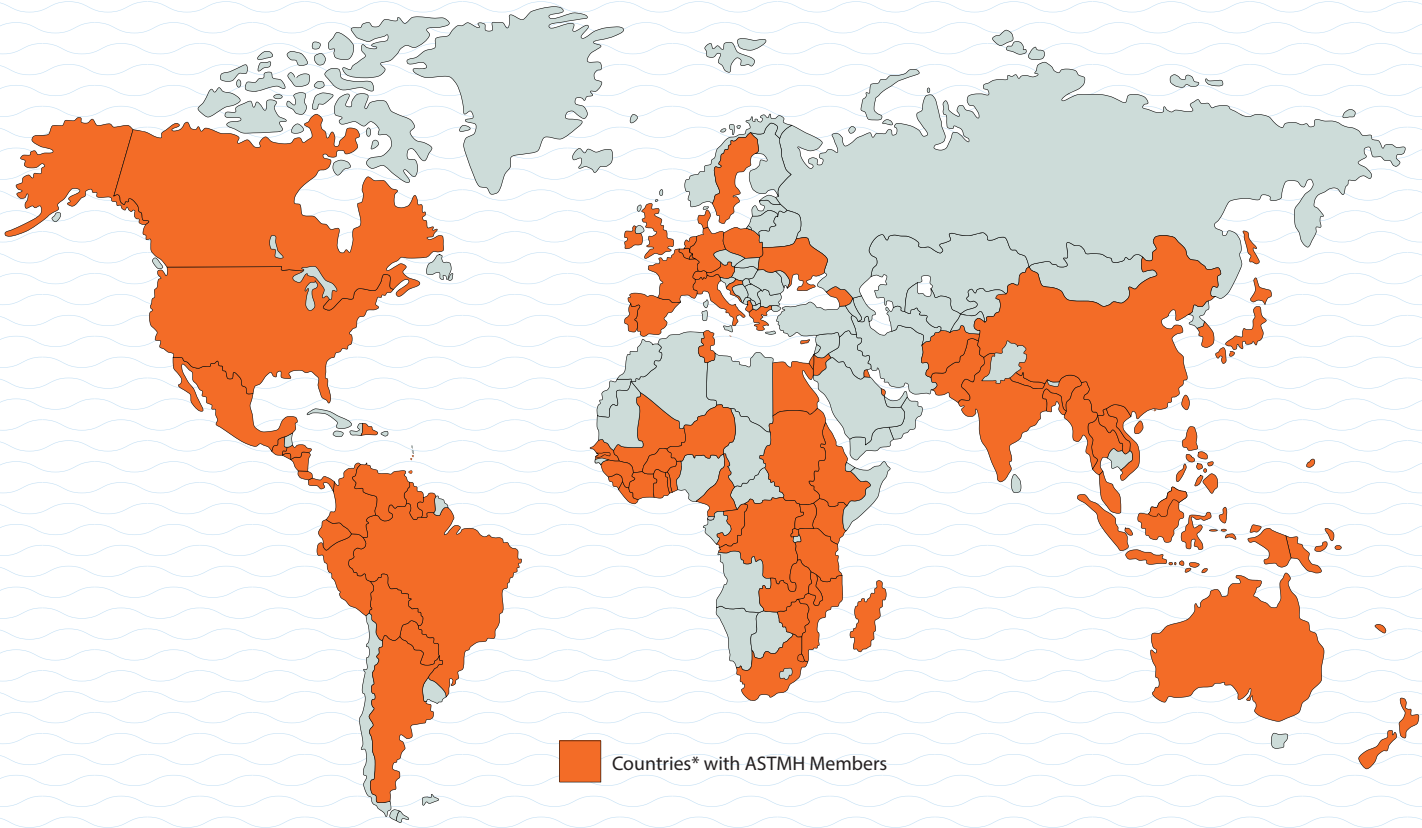
Student (Undergraduate, Graduate, Pre-Doctoral): **$15**
Trainee (Post-Doctoral, Resident, Fellow): **$25**
Early-Career: **$100**
Regular Member: **$250**
Regular Member: Low/Low-Middle Income Countries: **$25**
Fellow of ASTMH (FASTMH): **$50** voluntary contribution
Lifetime: **$4,600**
Affiliate Membership in high income country: **$500**
Affiliate Membership in LMIC: **$250**

Welcome Attendees from Low and Lower-Middle Income Countries

Reduced Regular Membership Dues for Low and Lower-Middle Income Countries ($25)

This is open to all citizens and legal residents of World Bank low and lower-middle income countries and WHO/HINARI classification countries of A & B. Members must be permanent residents in their country of citizenship. Visiting researchers or others on short-term assignments do not qualify.

Our Members Across Six Continents



Afghanistan
Argentina
Australia
Austria
Bangladesh
Belgium
Benin
Bhutan
Bolivia
Brazil
Burkina Faso
Cabo Verde
Cambodia
Cameroon
Canada
Colombia
Congo
Costa Rica
Cote d'Ivoire
Croatia
Cyprus
Democratic Republic of the Congo
Denmark
Dominican Republic
Ecuador
Egypt
El Salvador
Equatorial Guinea
Eritrea
Ethiopia
Fiji
France
French Guiana
The Gambia
Germany
Ghana
Greece
Guatemala
Guyana
Honduras
Hong Kong
India
Indonesia
Iraq
Ireland
Israel
Italy
Jamaica
Japan
Kenya
Lao People's Democratic Republic
Laos
Liberia
Madagascar
Malawi
Malaysia
Mali
Malta
Mauritania
Mexico
Mozambique
Myanmar
Nepal
Netherlands
New Zealand
Nicaragua
Nigeria
Pakistan
Panama
Paraguay
People's Republic of China
Peru
Philippines
Poland
Qatar
Republic of Congo
Rwanda
Saint Kitts and Nevis
Saint Lucia
Saudi Arabia
Senegal
Sierra Leone
Singapore
South Africa
South Korea
Spain
Sri Lanka
Sudan
Suriname
Sweden
Switzerland
Taiwan
Taiwan R.O.C.
Tanzania
Thailand
Togo
Trinidad and Tobago
Tunisia
Uganda
United Kingdom
United States
Vietnam
Zambia
Zimbabwe

all locations self-identified by ASTMH members

FIND
Diagnosis for all

REGISTER ON OUR VIRTUAL BOOTH

FIND, the global alliance for diagnostics, seeks to ensure equitable access to reliable diagnosis around the world. We connect countries and communities, funders, decision-makers, healthcare providers, and developers to spur diagnostic innovation and make testing an integral part of sustainable, resilient health systems. FIND co-convenes the Access to COVID-19 Tools (ACT) Accelerator diagnostics pillar.

Meet Daniel Bausch, ASTMH President-elect, and his FIND colleagues, who will be sharing thoughts on transformative global diagnostic development and access.

LIVE: Saturday 7am EST / 13H CET at the FIND virtual booth (recording subsequently available)

Daniel Bausch, MD, MPH&TM, is President-elect of ASTMH and currently serves as Senior Director, Emerging Threats & Global Health Security at FIND. His 25-year career includes previous positions at WHO, the US Naval Medical Research Unit in Peru, and the US CDC. Most recently, he was Director of the UK Public Health Rapid Support team for the prevention and control of outbreaks of dangerous infectious diseases around the world.

Sabine Dittrich, PhD, is Deputy Director of the Fever, Malaria, and General Infectious Diseases Programme at FIND. She has extensive experience working on malarial and non-malarial fevers, including in South-East Asia, where she was a principal investigator for the University of Oxford.

Cecilia Ferreyra, MD, is Director of the AMR Programme at FIND. She is a specialist in infectious diseases and has over 17 years' experience working in LMICs, including 14 years implementing health programmes with Médecins Sans Frontières.

Kavi Ramjeet, PhD, MBA, is Deputy Director of Business Intelligence at FIND. He has extensive expertise in designing innovative diagnostic concepts and antimicrobial rapid tests, following a decade of experience as an R&D scientist and business manager in life sciences.

Pre-Meeting Course Schedule

Tuesday, November 9

	Pre-Meeting Course Room
9 – 10 a.m.	**Global Health Pre-Meeting Course:** Beyond the Science: Best Practices in Messaging and Communications to Amplify Your Work, Engage Stakeholders and Advocate for Change 9 a.m. - 1:15 p.m.
10 – 11 a.m.	
11 a.m. – Noon	
Noon – 1 p.m.	
1 – 2 p.m.	

Thursday, November 11

	Pre-Meeting Course Room
9 – 10 a.m.	**Global Health Pre-Meeting Course:** Beyond the Science: Best Practices in Messaging and Communications to Amplify Your Work, Engage Stakeholders and Advocate for Change 9 a.m. - 1:15 p.m.
10 – 11 a.m.	
11 a.m. – Noon	
Noon – 1 p.m.	
1 – 2 p.m.	**Clinical Pre-Meeting Course:** End the Neglect: A Clinico-Epidemiological Review and Update on Neglected Tropical Diseases and the Global Targets for 2030 1 - 5 p.m.
2 – 3 p.m.	
3 – 4 p.m.	
4 – 5 p.m.	

Friday, November 12

	Pre-Meeting Course Room
1 – 2 p.m.	**Clinical Pre-Meeting Course:** End the Neglect: A Clinico-Epidemiological Review and Update on Neglected Tropical Diseases and the Global Targets for 2030 1 - 5 p.m.
2 – 3 p.m.	
3 – 4 p.m.	
4 – 5 p.m.	

Wednesday, November 17, 2021

	Young Investigator Award Room A	Young Investigator Award Room B	Young Investigator Award Room C	Young Investigator Award Room D	Young Investigator Award Room E	Clinical Research Award Room	Grand Ballroom			
8 – 8:30 a.m.										
8:30 – 9 a.m.										
9 – 9:30 a.m.										
9:30 – 10 a.m.										
10 – 10:30 a.m.	Young Investigator Award Session A P. 68	Young Investigator Award Session B P. 70	Young Investigator Award Session C P. 72	Young Investigator Award Session D P. 73	Young Investigator Award Session E P.74					
10:30 – 11 a.m.										
11 – 11:30 a.m.										
11:30 a.m. – Noon										
Noon – 12:30 p.m.						ACCTMTH Clinical Research Award Session P. 75				
12:30 – 1 p.m.										
1 – 1:30 p.m.										
1:30 – 2 p.m.										
2 – 2:30 p.m.										
2:30 – 3 p.m.										
3 – 3:30 p.m.										
3:30 – 4 p.m.										
4 – 4:30 p.m.										
4:30 – 5 p.m.										
5 – 5:30 p.m.							1 Opening Plenary Session and Awards Program P. 77			
5:30 – 6 p.m.										
6 – 6:30 p.m.										
6:30 – 7 p.m.										
7 – 7:30 p.m.										
7:30 – 8 p.m.										
8 – 8:30 p.m.										
8:30 – 9:30 p.m.										

Be sure to check out the virtual platform's new chat capabilities this year and while you're there, please visit our exhibitors and sponsors. They help make all this possible.

Wednesday, November 17, 2021

8 – 8:30 a.m.									
8:30 – 9 a.m.									
9 – 9:30 a.m.									
9:30 – 10 a.m.									
10 – 10:30 a.m.									
10:30 – 11 a.m.									
11 – 11:30 a.m.									
11:30 a.m. – Noon									
Noon – 12:30 p.m.									
12:30 –1 p.m.									
1 – 1:30 p.m.									
1:30 – 2 p.m.									
2 – 2:30 p.m.									
2:30 – 3 p.m.									
3 – 3:30 p.m.									
3:30 – 4 p.m.									
4 – 4:30 p.m.									
4:30 – 5 p.m.									
5 – 5:30 p.m.									
5:30 – 6 p.m.									
6 – 6:30 p.m.									
6:30 – 7 p.m.									
7 – 7:30 p.m.									
7:30 – 8 p.m.									
8 – 8:30 p.m.									
8:30 – 9:30 p.m.									

Registered attendees have access to the virtual content until October 1, 2022.

Attendee Benefit Included in Registration!

Attendees will have access to On-Demand sessions within 48 hours.

Thursday, November 18, 2021

	Poster Hall	Meeting Room 1	Meeting Room 2	Meeting Room 3	Meeting Room 4	Meeting Room 5	Meeting Room 6	Meeting Room 7	Meeting Room 8	Meeting Room 9
8 – 8:30 a.m.		2 Symposium Break on Through: New Technologies to Defeat Ancient Diseases P. 78	3 Scientific Session Viral Hemorrhagic Fevers P. 79	4 Scientific Session Malaria: Dual Active Ingredients Nets and Durability P. 80	5 Scientific Session Malaria: Biology and Pathogenesis P. 81	6 Scientific Session Global Health: COVID-19 P. 82	7 Symposium Tackling the Last Mile of Child Mortality in Africa: Understanding and Improving the Case Management of Severe Febrile Illness P. 83	8 Scientific Session Clinical Tropical Medicine: HIV and Enteric Infections P. 84	9 Scientific Session Integrated Control Measures for NTDs P. 85	10 Scientific Session ACMCIP: Parasite Immunology - Immune Responses P. 86
8:30 – 9 a.m.										
9 – 9:30 a.m.										
9:30 – 9:45 a.m.										
9:45 – 10:15 a.m.										
10:15 – 10:45 a.m.										
10:45 – 11 a.m.										
11 – 11:30 a.m.	14 Poster Session A P. 90									15 Late-Breakers in Malaria P. 123
11:30 a.m. – Noon										
Noon – 12:30 p.m.										
12:30 – 12:45 p.m.										
12:45 – 1 p.m.		17 Symposium Compassion in Global Health and Tropical Medicine: Evidence, Challenges, and Emerging Trends P. 124	18 Symposium Clinical Group (ACCTMTH) I: Marcolongo Lecture - Clinical Challenges in Leprosy: Past, Present and Future and Panel Discussion P. 124	19 Scientific Session Malaria: Epidemiology I - Surveillance Strategies P. 126	20 Scientific Session ACMCIP: Protozoans - Genetic and Genomic Approaches P. 126	21 Symposium ACAV I: Annual Business Meeting P. 127	22 Scientific Session Malaria: Vaccines P. 128	23 Symposium ACME I: Annual Business Meeting P. 129	24 Scientific Session Global Health Security P. 129	25 Symposium Beyond Mucosal Immunity: The Multifunctional Role of IgA in Health and Disease P. 131
1 – 1:30 p.m.										
1:30 – 2 p.m.										
2 – 2:30 p.m.										
2:30 – 3 p.m.										
3 – 3:30 p.m.		28 Early Experience and Next Steps in the Evaluation of the Attractive Targeted Sugar Bait for Malaria Control P. 133	29 Symposium Clinical Group (ACCTMTH) II: Dermatological Manifestations of Neglected Tropical Diseases P. 134	30 Scientific Session Malaria: Epidemiology II - Improving Access P. 134	31 Symposium Role of Persisters in Host-Parasite Interactions and Drug Failures P. 136	32 Symposium ACAV II: Viral Surveillance During the COVID-19 Pandemic P. 136	33 Symposium Towards a Next-Generation Malaria Vaccine Portfolio: Innovations in Malaria Vaccine Development P. 137	34 Symposium ACME II: Fresh Voices in Neglected Vector-borne Diseases P. 137	35 Symposium Community Delivery of Intermittent Preventive Treatment (IPTp) P. 138	36 Scientific Session ACMCIP: Parasite Immunology - New Approaches P. 139
3:30 – 4 p.m.										
4 – 4:30 p.m.										
4:30 – 4:45 p.m.										
4:45 – 5:15 p.m.										
5:15 – 5:30 p.m.		39 Developing a Multi-Perspective Approach to Vector Control Decision-Making P. 141	40 Symposium ACAV Trainee Panel Discussion: Transitioning to Independence P. 141		41 Symposium Clinical Tropical Medicine Debates: Malaria and Diarrhea P. 142	42 Symposium Washington, DC: Where Science Advocacy, Policy and Social Media Meet (or crash) P. 142	43 Symposium Clinical Development of Transmission Blocking Vaccines: Which Road Do We Take? P. 143	44 Symposium Key Interventions, Transformation and Long-Term Recovery: Exploring South Africa's Response to the COVID-19 Pandemic P. 144		
5:30 – 6 p.m.										
6 – 6:30 p.m.										
6:30 – 7 p.m.										
7 – 8:45 p.m.										

Thursday, November 18, 2021

	Meeting Room 10	Meeting Room 11	Grand Ballroom			
8 – 8:30 a.m.	11 Scientific Session Schistosomiasis I P. 87	12 Symposium Entomological Data to Guide Strategic Deployment of New Types of Insecticide-Treated Nets for Control of Pyrethroid-Resistant Malaria Vectors P. 88				
8:30 – 9 a.m.						
9 – 9:30 a.m.						
9:30 – 9:45 a.m.						
9:45 – 10:15 a.m.						
10:15– 10:45 a.m.			13 Plenary Session II Fred L. Soper Lecture P. 89			
10:45 – 11 a.m.						
11 – 11:30 a.m.						
11:30 a.m. – Noon						
Noon – 12:30 p.m.			16 Plenary Session III: CDC: A Disease Threat Anywhere is a Disease Threat Everywhere P. 123			
12:30 – 12:45 p.m.						
12:45 – 1 p.m.	26 Scientific Session Filariasis: Epidemiology and Control P. 131	27 Symposium Expanding the Use of Radical Cure to Patients with Uncomplicated Malaria Due to Any Plasmodia Species P. 132				
1 – 1:30 p.m.						
1:30 – 2 p.m.						
2 – 2:30 p.m.						
2:30 – 3 p.m.						
3 – 3:30 p.m.	37 Symposium The Neglected Intersection between Tropical Medicine and Sexual and Reproductive Health P. 139	38 Symposium Pandemics in the Anthropocene: A Multidisciplinary Approach to Global Health Research in the Context of Climate Change P. 140				
3:30 – 4 p.m.						
4 – 4:30 p.m.						
4:30 – 4:45 p.m.						
4:45 – 5:15 p.m.						
5:15 – 5:30 p.m.	45 Symposium The Long and Winding Road: Trachoma and LF Programs Near Elimination P. 144					
5:30 – 6 p.m.						
6 – 6:30 p.m.						
6:30 – 7 p.m.						
7 – 8:45 p.m.			Sponsored Symposium SHOT IN THE ARM Film and Discussion P. 51 and 145			

How can I search the Annual Meeting program?

Meeting App

- Search the full session schedule, including Poster Sessions
- Search for speakers and abstract presentations
- Search the meeting content by topic
- View Poster Sessions and search for poster abstract presentations
- Learn about sponsors and exhibitors participating in the Annual Meeting
- Look for program changes here.

Virtual Meeting Platform - Session Scheduler

- Use this tool to search oral presentations for Plenary Sessions, Symposia and Scientific Sessions.

Program Changes

- The session schedule is subject to change. Please check the Meeting App for program changes.

Miss a Session?

Registered attendees have access to the virtual content until October 1, 2022.

INCLUDED WITH YOUR REGISTRATION FEE!

Friday, November 19, 2021

	Poster Hall	Meeting Room 1	Meeting Room 2	Meeting Room 3	Meeting Room 4	Meeting Room 5	Meeting Room 6	Meeting Room 7	Meeting Room 8	Meeting Room 9
8 – 8:30 a.m.										
8:30 – 9 a.m.										
9 – 9:45 a.m.										
9:45 – 10:15 a.m.										
10:15 – 10:30 a.m.		47 Symposium Ending the Neglect of Female Genital Schistosomiasis P. 146	48 Scientific Session Kintetoplastida: Epidemiology and Diagnosis P. 147	49 Scientific Session ACMCIP: Protozoans - Molecular and Cellular Biology P. 148	50 Scientific Session Global Health: Maternal, Newborn and Child Health P. 149	51 Scientific Session Virology: SARS-CoV-2 P. 150	52 Symposium Trials of Malaria Vaccines in Pregnant Women P. 151	53 Symposium LGBTIQ Health in Low- and Middle-Income Countries and Displaced Populations: The Struggle for Global Health Equity P. 152	54 Scientific Session Arthropods: Other P. 153	55 Late-Breakers in Clinical and Applied Sciences P. 153
10:30 – 11 a.m.										
11 – 11:30 a.m.										
11:30 – Noon										
Noon – 12:30 p.m.	58 Poster Session B P. 156									59 Late-Breakers in Coronavirus P. 190
12:30 – 1 p.m.										
1 – 1:15 p.m.										
1:15 – 1:30 p.m.										
1:30 – 1:45 p.m.										
1:45 – 2 p.m.		60 Scientific Session Malaria: Data to Inform and Target Malaria Elimination Strategies P. 190	61 Scientific Session Other (Arbo)viruses of Concern P. 191	62 Symposium ACMCIP I: Bypassing Biological Barriers - Microsurgical Techniques in Parasitology and Business Meeting P. 192		64 Symposium ACGH I: Global Health Diplomacy I: COVID-19 and the international Health Framework P. 193	65 Scientific Session Malaria: Drug Treatment, Resistance and Clinical Trials P. 194	66 Scientific Session Water, Sanitation, Hygiene and Environmental Health: Outcomes P. 195	67 Scientific Session Ectoparasite-Borne Diseases P. 196	68 Symposium New Developments in Mycetoma P. 197
2 – 2:30 p.m.										
2:30 – 3 p.m.										
3 – 3:30 p.m.										
3:30 – 3:45 p.m.										
3:45 – 4 p.m.										
4 – 4:30 p.m.		71 Scientific Session Malaria: Diagnosis P. 199	72 Scientific Session Zika Virus P. 200	73 Symposium ACMCIP II: Trager and Trainees P. 201	74 Symposium COVID-19 Mathematical and Statistical Modeling P. 202	75 Symposium ACGH II: Global Health Diplomacy II: Looking at a Multifaceted, Applied Approach to Global Health Diplomacy P. 202	76 Symposium Will RTS,S/AS01 Be the First Malaria Vaccine Recommended as a Part of Routine Immunization P. 203	77 Scientific Session Water, Sanitation, Hygiene and Environmental Health: Interventions P. 204	78 Symposium Innovations to Promote Chagas Disease Surveillance and Control Systems P. 204	79 Symposium Tropical Infections in Transplant Patients - Perspectives from Latin America P. 205
4:30 – 5 p.m.										
5 – 5:45 p.m.										
5:45 – 6 p.m.										
6 – 7:45 p.m.										

Friday, November 19, 2021

	Meeting Room 10	Meeting Room 11	Grand Ballroom
8 – 8:30 a.m.			46 Plenary Session IV: Is a Pandemic Treaty the Path to Global Health Security P. 146
8:30 – 9 a.m.			
9 – 9:45 a.m.			
9:45 – 10:15 a.m.			
10:15 – 10:30 a.m.	56 Scientific Session Filariasis: Clinical and Immunology P. 154	57 Symposium Alan J. Magill Malaria Eradication Symposium P. 155	
10:30 – 11 a.m.			
11 – 11:30 a.m.			
11:30 – Noon			
Noon – 12:30 p.m.			
12:30 –1 p.m.			
1 – 1:15 p.m.			
1:15 – 1:30 p.m.			
1:30 – 1:45 p.m.			
1:45 – 2 p.m.	69 Scientific Session Filariasis: Molecular Biology and Diagnosis P. 197	70 Symposium Pivoting in a Pandemic: Conducting Surveillance and Clinical Research on Febrile Illnesses during COVID-19 P. 198	63 Symposium Innovations Pitch Competition P. 193
2 – 2:30 p.m.			
2:30 – 3 p.m.			
3 – 3:30 p.m.			
3:30 – 3:45 p.m.			
3:45 – 4 p.m.			
4 – 4:30 p.m.	80 Symposium Innovative Uses and Analyses of NTD Data to Inform Improved Program Implementation P. 206	81 Symposium Interrupting Transmission of Infection: A Key Milestone in Eliminating Leprosy (Hansen's Disease) P. 207	
4:30 – 5 p.m.			
5 – 5:45 p.m.			
5:45 – 6 p.m.			
6 – 7:45 p.m.			82 Special Session Film Screening and Panel Discussion: "Accidental Host - The Story of Rat Lungworm Disease" P. 208

How can I search the Annual Meeting program?

Meeting App

- Search the full session schedule, including Poster Sessions
- Search for speakers and abstract presentations
- Search the meeting content by topic
- View Poster Sessions and search for poster abstract presentations
- Learn about sponsors and exhibitors participating in the Annual Meeting
- Look for program changes here.

Virtual Meeting Platform - Session Scheduler

- Use this tool to search oral presentations for Plenary Sessions, Symposia and Scientific Sessions.

Program Changes

- The session schedule is subject to change. Please check the Meeting App for program changes.

ON-DEMAND SESSIONS INCLUDED WITH YOUR REGISTRATION FEE

Registered attendees will have free access to on-demand recordings of the sessions until October 1, 2022.

Saturday, November 20, 2021

	Poster Hall	Meeting Room 1	Meeting Room 2	Meeting Room 3	Meeting Room 4	Meeting Room 5	Meeting Room 6	Meeting Room 7	Meeting Room 8	Meeting Room 9
7 – 7:30 a.m.										
7:30 – 8 a.m.										
8 – 8:30 a.m.		83 Symposium Novel Transmission and Ecology of Leishmaniasis P. 209	84 Scientific Session Clinical Tropical Medicine: Diagnostics and COVID-19 P. 209	85 Scientific Session Malarial Immune Response from Numerous Perspectives P. 211	86 Symposium Beyond the Campaign: Integration of Vertical Disease Control Programs into Primary Care P. 212	87 Scientific Session Global Health: Malaria and Neglected Tropical Diseases P. 212	88 Scientific Session Malaria: Genetics, Genomics and Modeling P. 213	89 Symposium Vector Ecology and Host Immune Responses Influencing Tick-Borne Viral Emergence P. 214	90 Symposium Recipe for Disaster: Undernutrition and Infectious Diseases P. 215	91 Scientific Session Mosquitoes - Vector Biology - Epidemology I P. 215
8:30 – 9 a.m.										
9 – 9:30 a.m.										
9:30 – 9:45 a.m.										
9:45 – 10:15 a.m.										
10:15 – 10:45 a.m.										
10:45 – 11 a.m.										
11 – 11:30 a.m.	95 Poster Session C P. 219									96 Late-Breakers in Basic Sciences P. 251
11:30 – 11:45 a.m.										
11:45 a.m. – Noon										
Noon – 12:15 p.m.										
12:15 – 12:30 p.m.										
12:30– 12:45 p.m.										
12:45 – 1 p.m.		97 Scientific Session Malaria: Innovations in Malaria Prevention and Control P. 251	98 Camera Traps, GPS Loggers and Drones: Affordable Tech Solutions for Low-Budget Spillover Surveillance P. 251	99 Scientific Session Schistosomiasis II P. 253	100 Symposium Missing No More: Understanding Health Access Barriers through Different Platforms P. 253	101 Scientific Session Dengue: Vaccines and Immunity P. 254	102 Symposium Ex vivo Assessment of Drug Susceptibility of the Antimalarial Drug Pipeline P. 255	103 Scientific Session Bacteriology: Enteric Infections P. 256	104 Symposium Honoring Don Krogstad: A Tribute to a Special Person Who Dedicated His Entire Life to Malaria Control P. 257	105 Scientific Session Mosquitoes- Vector Biology - Epidemology II P. 257
1 – 1:30 p.m.										
1:30 – 2 p.m.										
2 – 2:30 p.m.										
2:30 – 3 p.m.										
3 – 3:30 p.m.		108 Symposium Improving Logistics for the Last Mile Supply Chain for NTD Medicines in Endemic Areas: Lessons Learned P. 260	109 Symposium Opportunities and Challenges in Using SARS-CoV-2 Environmental Surveillance for Public Health Decision-Making P. 260	110 Scientific Session ACMCIP: Parasite Immunology - Cellular Immunology P. 261	111 Symposium Earth Observations for Infectious Disease Early Warnings: What Can We Learn from Climate and Disaster Communities? P. 262	112 Scientific Session Dengue – Transmission and Virus-Host Interactions P. 263	113 Symposium Genetic Approaches to Elucidating P. falciparum Antimalarial Modes of Action, Drug Resistance and Fitness P. 264	114 Scientific Session Bacteriology: Trachoma, Systemic Infections and Other Bacterial Infections P. 264	115 ASTMH Annual Business Meeting P. 265	116 Scientific Session Mosquitoes: Biochemistry and Molecular Biology P. 265
3:30 – 4 p.m.										
4 – 4:30 p.m.										
4:30– 4:45 p.m.										
4:45 – 5 p.m.										

Saturday, November 20, 2021

	Meeting Room 10	Meeting Room 11	Grand Ballroom				
7 – 7:30 a.m.							
7:30 – 8 a.m.							
8 – 8:30 a.m.	92 Symposium Clinical Development of New Treatments Elimination Onchocerciasis P. 216	93 Symposium Intermittent Preventative Treatment for Malaria in Infants with Sulfadoxine-Pyrimethamine P. 217					
8:30 – 9 a.m.							
9 – 9:30 a.m.							
9:30 – 9:45 a.m.							
9:45 – 10:15 a.m.							
10:15 – 10:45 a.m.			94 Plenary Session President's Address P. 218				
10:45 – 11 a.m.							
11 – 11:30 a.m.							
11:30 – 11:45 a.m.							
11:45 a.m. – Noon							
Noon – 12:15 p.m.							
12:15 – 12:30 p.m.							
12:30– 12:45 p.m.							
12:45 – 1 p.m.	106 Symposium Progress and Challenges for Elimination of LF and Oncho in West Africa P. 258	107 Symposium Schistosomiasis Morbidity Indicators for Redefining Control and Elimination as a Public Health Problem P. 259					
1 – 1:30 p.m.							
1:30 – 2 p.m.							
2 – 2:30 p.m.							
2:30 – 3 p.m.							
3 – 3:30 p.m.	117 Symposium Lassa Fever as a Seasonal Endemic Disease in West Africa: Update P. 266	118 Symposium Implementing Neglected Tropical Disease Mass Drug Administration and Disease Specific Assessments under the COVID-19 Pandemic P. 267					
3:30 – 4 p.m.							
4 – 4:30 p.m.							
4:30– 4:45 p.m.							
4:45 – 5 p.m.							

How can I search the Annual Meeting program?

Meeting App

- Search the full session schedule, including Poster Sessions
- Search for speakers and abstract presentations
- Search the meeting content by topic
- View Poster Sessions and search for poster abstract presentations
- Learn about sponsors and exhibitors participating in the Annual Meeting
- Look for program changes here.

Virtual Meeting Platform - Session Scheduler

- Use this tool to search oral presentations for Plenary Sessions, Symposia and Scientific Sessions.

Program Changes

- The session schedule is subject to change. Please check the Meeting App for program changes.

Miss a Session?

Registered attendees have access to the virtual content until October 1, 2022.

INCLUDED WITH YOUR REGISTRATION FEE!

Sunday, November 21, 2021

	Poster Hall	Meeting Room 1	Meeting Room 2	Meeting Room 3	Meeting Room 4	Meeting Room 5	Meeting Room 6	Meeting Room 7	Meeting Room 8	Meeting Room 9
8 – 8:30 a.m.		119 Symposium Integrating Molecular Data into Malaria Surveillance: Progress in Senegal P. 268	120 Symposium Robust National Public Health Institutes as a Force for Change in Public Health P. 269	121 Scientific Session Kinetoplastida: Molecular Biology and Immunology P. 269	122 Scientific Session Pneumonia, Respiratory Infections and Tuberculosis I P. 270	123 Symposium Undernutrition in Children: The Role of Enteric Dysfunction P. 271	124 Scientific Session Mosquitoes: Insecticide Resistance P. 272	125 Symposium Dihydroartemisinin-Piperaquine as an Alternative Drug for Intermittent Preventative Treatment P. 273	126 Scientific Session Clinical Tropical Medicine: Vectorborne Disease P. 273	127 Scientific Session One Health: Interface of Human Health/Animal Diseases P. 275
8:30 – 9 a.m.										
9 – 9:30 a.m.										
9:30 – 9:45 a.m.										
9:45 – 10 a.m.										
10 – 10:15 a.m.										
10:15 – 10:30 a.m.		130 Symposium Expanding the Use of Safe and Effective Radical Cure of Relapsing Malaria: Defining Populations at Risk of Hemolysis P. 277		132 Scientific Session Protozoa P. 278	133 Scientific Session Pneumonia, Respiratory Infections and Tuberculosis II P. 279	134 Symposium Empiric Azithromycin for Children at High Risk of Diarrhea-Associated Mortality: Results of the ABCD Trial P. 280	135 Scientific Session Mosquitoes: Molecular Genetics and Genomics P. 280	136 Symposium Implementing Malaria Chemoprevention Campaigns during the COVID-19 Pandemic P. 281	137 Symposium The Future and Quality of Clinical Parasitology P. 282	138 Symposium Role of Animal-Based Food Supply Chains in Pathogen Exposure and Enteric Disease for Children in Sub-Saharan Africa P. 283
10:30 – 11 a.m.										
11 – 11:30 a.m.										
11:30 a.m. – Noon										
Noon – 12:30 p.m.										
12:30 – 1 p.m.										
1 – 1:30 p.m.										
1:30 – 2 p.m.										
2 – 2:30 p.m.										
2:30 – 2:45 p.m.										
2:45 – 3 p.m.										
3 – 3:30 p.m.										
3:30 – 4 p.m.										
4 – 4:30 p.m.										
4:30 – 4:45 p.m.										
4:45 – 5 p.m.										
5 – 5:30 p.m.										
5:30 – 6 p.m.										
6 – 6:30 p.m.										
6:30 – 6:45 p.m.										
6:45 – 7 p.m.										

Sunday, November 21, 2021

	Meeting Room 10	Meeting Room 11	Grand Ballroom				
8 – 8:30 a.m.	128 Scientific Session Cestodes and Nematodes P. 275	129 Symposium Agriculture and Human Health: Research into Mitigating Risks and Optimizing Benefits P. 276					
8:30 – 9 a.m.							
9 – 9:30 a.m.							
9:30 – 9:45 a.m.							
9:45 – 10 a.m.							
10 – 10:15 a.m.							
10:15 – 10:30 a.m.	139 Symposium Fostering a Data-Driven Approach to Strenghen Program Planning and Implementation for the Control and Elimination of NTDs P. 283	140 Symposium Eliminating Malaria in the Guinea Shield during COVID-19 Times P. 284					
10:30 – 11 a.m.							
11 – 11:30 a.m.							
11:30 a.m. – Noon							
Noon – 12:30 p.m.							
12:30 –1 p.m.							
1 – 1:30 p.m.							
1:30 – 2 p.m.							
2 – 2:30 p.m.							
2:30 – 2:45 p.m.							
2:45 – 3 p.m.							
3 – 3:30 p.m.							
3:30 – 4 p.m.							
4 – 4:30 p.m.							
4:30 – 4:45 p.m.							
4:45 – 5 p.m.							
5 – 5:30 p.m.							
5:30 – 6 p.m.							
6 – 6:30 p.m.							
6:30 – 6:45 p.m.							
6:45 – 7 p.m.							

How can I search the Annual Meeting program?

Meeting App

- Search the full session schedule, including Poster Sessions
- Search for speakers and abstract presentations
- Search the meeting content by topic
- View Poster Sessions and search for poster abstract presentations
- Learn about sponsors and exhibitors participating in the Annual Meeting
- Look for program changes here.

Virtual Meeting Platform - Session Scheduler

- Use this tool to search oral presentations for Plenary Sessions, Symposia and Scientific Sessions.

Program Changes

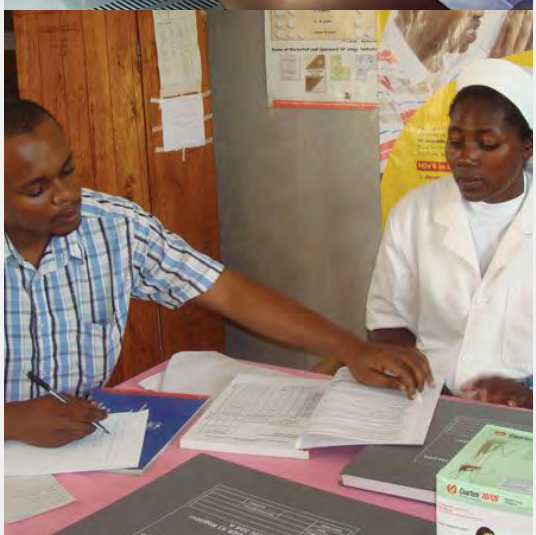
- The session schedule is subject to change. Please check the Meeting App for program changes.

Miss a Session?

Registered attendees have access to the virtual content until October 1, 2022.

INCLUDED WITH YOUR REGISTRATION FEE!

Improving health outcomes through global health consulting.



Our services

- Health informatics
- Health system strengthening
- Monitoring, evaluation, and learning
- Surveillance
- Survey research
- Laboratory diagnostics
- Malaria
- Tuberculosis
- Maternal and child health
- Nutrition

icf.com/work/international-development/global-health

ICF

PARASITES WITHOUT BORDERS

Parasites Without Borders is a comprehensive, advanced educational resource and disseminator of basic and clinical information dealing with all aspects of the global problems associated with the acquisition of parasitic diseases that adversely affect people around the world.

We bring the latest medical information on diseases caused by parasites to the people and places that need it most.

Our Team

- Daniel Griffin MD, PhD
- Dickson D. Despommier PhD
- Charles A. Knirsch MD, MPH
- Vincent Racaniello PhD
- Peter J. Hotez MD, PhD, FAAP, FASTMH

FREE RESOURCES

ParasitesWithoutBorders.com
- Certification Exams
- Parasitic Diseases Video Lectures
- Weekly COVID-19 Updates
- Sign Up For Our Monthly Newsletter
- Medical Handbook For Limited Resource Settings

Microbe.TV
- This Week in Parasitism
- This Week in Virology
- This Week in Microbiology
- This Week in Neuroscience
- This Week in Evolution *and More!*

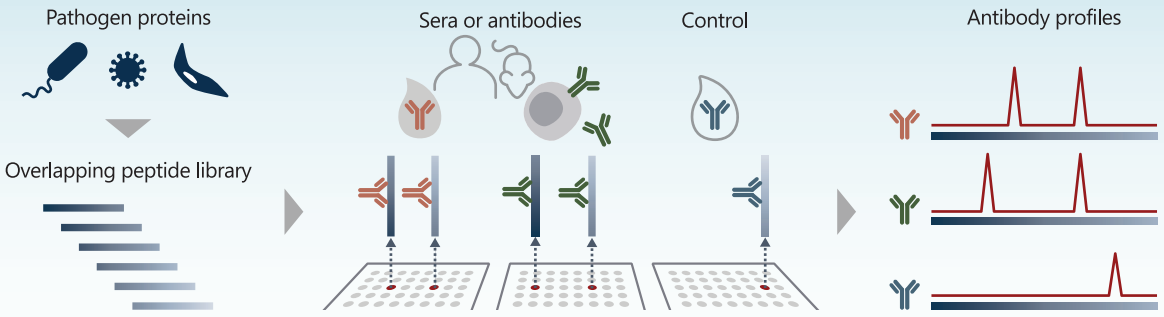
Parasitic Diseases, 7th Edition
- 400 Full-Color Illustrations
- 4,000 References
- Clinical Summary Section
- Life Cycle Diagrams
- Free Download In English & Spanish

Social Media
@PWB_Global
@ParasitesWithoutBorders
Parasites Without Borders
@pwb_worldwide

Parasites Without Borders Inc. is a 501(c)(3) organization. EIN 81-2833673. Donations are tax-deductible.

PEPperCHIP® Peptide Microarrays *for* Infectious Disease Research

Screen entire proteomes. Map immunogenic hotspots.
Profile antibody responses on the epitope level, in one single assay.



Featured PEPperCHIP® Peptide Microarrays

- PEPperCHIP® Pan-Corona Spike Protein Microarray
- PEPperCHIP® SARS-CoV-2 Proteome Microarray
- PEPperCHIP® Zika Virus Proteome Microarray
- PEPperCHIP® Infectious Disease Epitope Microarray

Browse more microarrays at ***bit.ly/pepperchip***, or get your own custom microrray for malaria or *S. manisoni* research, flaviviruses, or any other pathogen. Simply ask us for a tailored solution at ***info@pepperprint.com***.

PEPperPRINT
A NEW DIVERSITY

PEPperPRINT GmbH
Rischerstr. 12
69123 Heidelberg
Germany

www.pepperprint.com
info@pepperprint.com

pepperprint-gmbh
@pepperchip
PEPperPRINTGmbH
PEPperPRINT

How can we support your research?

Visit our virtual booth for a free project consultatation.

Drop by and chat with our team to learn more about our PEPperCHIP® Peptide Microarray Solutions and PEPperMAP® Services.

Quick Tips to Navigating the Virtual Meeting

When you reach the virtual meeting website, you will enter the Lobby and see the following areas designated for ASTMH sessions and events.

- **Grand Ballroom**
- **Meeting Rooms**
- **ePoster Hall**
- **Exhibit, Sponsor, and Subgroup Halls**
- **Information Desk**

Grand Ballroom

Plenary sessions will take place in the Grand Ballroom.

Meeting Rooms

Scientific sessions, symposia and Late-Breaker Abstract sessions will take place in the Meeting Rooms.

Check out the ePoster Hall

A link to the ePoster website is available in the Poster Hall. The ePosters will be available for viewing through May 31, 2022.

How do I access the ePosters in the Poster Hall?

- Visit the Poster Hall and click the link to access the ePosters.
- In the blue bar across the top of the page, click Poster Hall Gallery View.
- You will see thumbnail views of the posters displayed on the screen.
- To view a poster in full screen, click Presentation Details at the bottom of the poster thumbnail view.

How to Chat with a Poster Presenter

- When viewing a poster in full screen, click the Chat button in the top right corner of the screen.
- A Chat Box will open. Click Join Chat.
- Type into the Chat Box to pose a question to a presenter.
- Please note that time zones might prevent a poster presenter from attendance at a poster session.

Visit the Virtual Exhibit, Sponsor, and Subgroup Halls

Exhibit Hall

Visit the Exhibit Hall to meet experts in the field with products and services that support the work of tropical medicine and global health professionals. Each exhibitor has set their own hours, which will be listed when you click on the booth.

Sponsor Hall

Visit the Sponsor Hall to connect with organizations contributing to tropical medicine and global health. Each sponsor has set their own hours, which will be listed when you click on the booth.

Subgroup Hall

Visit the ASTMH Subgroups to learn about their activities: ACAV (Arbovirology), ACCTMTH (Clinical Group), ACGH (Global Health), ACMCIP (Parasitology) and ACME (Medical Entomology).

Visit TropMed Central

Visit TropMed Central to connect with colleagues, collaborators and friends.

Search the Annual Meeting program on your phone with the Meeting App.

Continuing Education at TropMed21

Continuing Education Credit Continuing Medical Education (CME) Accreditation

ASTMH is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. ASTMH designates this live activity for a maximum of 25.5 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Register for CME Credit

- The CME documentation fee is $150 US.
- Claim CME credit for one session during a period of concurrent sessions.
- CME certificates will be sent by e-mail in late January.
- Complete your online CME Attendance and Evaluation Form by Wednesday, November 24 by accessing the evaluation form at astmh.org/annual-meeting.

American Board of Internal Medicine (ABIM) Maintenance of Certification (MOC) Credit

Submit CME Survey and CME Claim Form by Wednesday, November 24 in order to receive ABIM MOC credit.

If you wish to receive ABIM MOC credit, you must register for CME credit for $150. We cannot issue ABIM MOC credit unless the registration includes payment for CME credit. Successful completion of this Annual Meeting CME activity, which includes participation in the evaluation component, enables the participant to earn up to 25.5 Medical Knowledge MOC points in the American Board of Internal Medicine's (ABIM) Maintenance of Certification (MOC) program. Your participation information, as well as your ABIM member ID and date of birth will be shared with the American Board of Internal Medicine via the Accreditation Council for CME PARS system for the purpose of reporting MOC completion.

PLEASE NOTE:

- The CME fee of $150 must be paid in order to receive ABIM MOC credit.
- CME registrants seeking ABIM MOC credit must complete the CME Survey and CME Claim Form by Wednesday, November 24 in order to receive ABIM MOC credit.
- Pre-meeting courses are not eligible for ABIM MOC credit.
- Participants will earn MOC points equivalent to the amount of CME credits claimed for the activity.
- Attendees seeking ABIM MOC credit must provide their ABIM MOC ID number and date of birth during the registration process.

Full-Disclosure Policy Affecting CME Activities

Consistent with ASTMH policy, faculty are required to disclose any economic or other personal interests that create, or may be perceived as creating, a conflict of interest related to the material discussed. ASTMH has policies in place to resolve all conflicts of interest. Faculty are required to disclose at the beginning of their presentation(s) any relevant financial relationships, as well as any product or drug mentioned during the presentation that is not labeled for the use under discussion or is still investigational. This policy is intended to allow attendees to form their own judgments about such material.

Physician Assistant Continuing Education Credit

AAPA accepts certificates of participation for educational activities certified for *AMA PRA Category 1 Credit™* from organizations accredited by ACCME or a recognized state medical society. Physician Assistants may receive a maximum of 25.5 *AMA PRA Category 1 Credits™* for completing this program. Register for CME credit ($150 US) at the ASTMH registration desk and submit an evaluation following the conference at astmh.org/annual-meeting.

Veterinarian Continuing Education Credit

To better serve the continuing education needs of the full range of disciplines participating in the Annual Meeting, ASTMH offers accredited CE sessions for veterinarians. The Society's application is reviewed by the American Association of Veterinary State Boards RACE Committee. Anticipating approval, ASTMH is typically notified just prior to the start of the Annual Meeting. On Wednesday, November 17, registrants for veterinarian continuing education will be sent an evaluation form by e-mail. This form will indicate the sessions that qualify for veterinary CE credits. The fee to claim veterinarian continuing education credit is $150, payable upon registration.

ASTMH is at Work All Year Round!

Diploma Courses in Clinical Tropical Medicine and Travelers' Health

The Society advocates and facilitates the development of new training programs in clinical tropical medicine and travelers' health and has established a mechanism for accrediting them. These courses, known as Diploma Courses, may vary considerably in format and even in broad objectives, but to be accredited by the Society they must cover the topic matter included on the Certificate Exam and have an expectation of conferring on the examinee a certain degree of competence in the key subjects. Most confer a Diploma in Clinical Tropical Medicine and Travelers' Health; some confer a different diploma or degree in which the same expectations are included.

Virtual Update Course in Clinical Tropical Medicine and Travelers' Health

This three-day condensed course provides a broad overview of core topics in clinical tropical medicine and travelers' health. It is designed for all healthcare providers working in tropical medicine or travelers' health and for those planning to take the ASTMH Certificate Examination (CTropMed®).

CTropMed® — Certificate of Knowledge in Clinical Tropical Medicine and Travelers' Health

The next exam will be offered online in 2022. More information will be posted to the website in the spring of 2022. Fostering professional development in the fields of clinical tropical medicine and travelers' health is one of the Society's highest priorities. To that end, ASTMH developed the Certificate of Knowledge in Clinical Tropical Medicine and Travelers' Health (CTropMed® Program) as a means to distinguish individuals who have demonstrated advanced knowledge and experience in clinical tropical medicine and travelers' health. The CTropMed® Certificate is conferred on 1) licensed healthcare professionals applying via Practice Pathway or those healthcare professionals (regardless of licensure) who have passed an ASTMH accredited Diploma Course; 2) have direct experience in the fields of tropical medicine and/or travelers' health, and 3) have passed the ASTMH Examination in Clinical Tropical Medicine and Travelers' Health.

Fellow of ASTMH (FASTMH)

Fellow member status (also known as Fellowship) in the Society is an honor recognizing sustained professional excellence in any phase of tropical medicine, hygiene, global health and related disciplines.

Membership Directory

This resource, available exclusively to ASTMH members, puts thousands of experts in tropical medicine and global health at your fingertips. The directory provides member listings in alphabetical order and by geographic location to ease the search for colleagues around the world.

ASTMH
AMERICAN SOCIETY OF TROPICAL MEDICINE & HYGIENE
ADVANCING GLOBAL HEALTH SINCE 1903

THE AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE
official Journal of the American Society of Tropical Medicine and Hygiene

American Journal of Tropical Medicine and Hygiene

The *American Journal of Tropical Medicine and Hygiene*, the leading international journal in tropical medicine, is a peer-reviewed journal published on a monthly basis. Content includes original scientific articles and cutting-edge science covering new research with an emphasis on laboratory science and the application of technology in the fields of tropical medicine, parasitology, immunology, infectious diseases, epidemiology, basic and molecular biology, virology and international medicine. The *Journal* publishes unsolicited peer-reviewed manuscripts, invited review articles, short reports, case studies, reports on the efficacy of new drugs and methods of treatment, prevention and control methodologies, new testing methods and equipment, book reports and letters to the editor. Topics range from applied epidemiology in such relevant areas as AIDS to the molecular biology of vaccine development.

Why publish with the *American Journal of Tropical Medicine and Hygiene?*

- The leading journal focused on all aspects of tropical medicine
- Have your research read by half-a-million readers from all over the world
- No submission fees
- Low publication costs compared to many other journals
- Discounted publication costs for ASTMH members
- No charge to publish supplementary data online
- Support for publishing research from low- and middle-income countries
- Open Access publishing options
- A panel of Section Editors with expertise in all aspects of tropical medicine
- Average time to first review decision of less than four weeks
- Advance online publication

We would like to take the opportunity to thank all of you who have published papers in *AJTMH* and we hope you will continue to submit your research to us. Remember, ASTMH members receive a discount on page charges for publishing in the *Journal* so if you are not already a member, please consider joining today.

Mark Your Calendar for World Malaria Day 2022

April 25, 2022

World Malaria Day is observed each year on April 25 to give countries in affected regions a chance to learn from each other's experiences and support one another's efforts in the fight against malaria; to enable new donors to join in a global partnership against malaria and for research and academic institutions to reveal scientific advances to the public; and to give international partners, companies and foundations a chance to showcase their efforts and reflect on how to scale-up what has worked.

ASTMH GOTropMEd

GOTropMEd, the ASTMH Global Online Tropical Medical Education website, is a members-only benefit offering online talks and presentations by world experts in tropical medicine, hygiene and global health, including rarely seen interviews with TropMed luminaries. Who can benefit from these resources? Researchers, clinicians, students and trainees, health professionals, and policy-focused members interested in obtaining a better understanding of these diseases and conditions in evidence based policy development.

Free and unlimited access to GOTropMEd is a benefit of membership to ASTMH. Non-members will need to join ASTMH to access GOTropMEd.

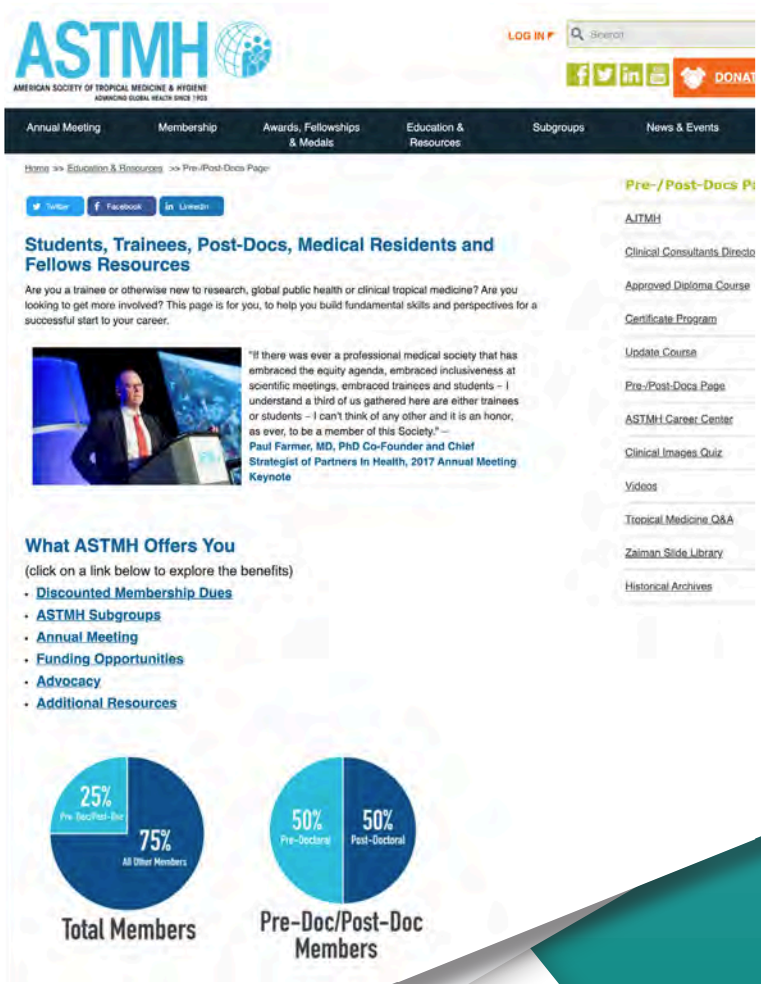
ASTMH
AMERICAN SOCIETY OF TROPICAL MEDICINE & HYGIENE
ADVANCING GLOBAL HEALTH SINCE 1903

Check Out Our Online Page for Students, Trainees, Post-Docs, Medical Residents and Fellows

Your one-stop-shop to help build fundamental skills and perspectives for a successful start to Tropical Medicine/Global Health Careers:

- Membership Benefits
- Subgroup Information
- Career Center
- Fellowships and Awards
- Clinical Research Award Competition
- Annual Meeting
- Young Investigator Awards
- Advocacy
- Trainee Chats

Look for the Pre-/Post-Docs page under the Education & Resources tab on the ASTMH website.



Thank you to our Virtual Exhibitors!

Abbott

BIOFIRE DEFENSE

Chan Zuckerberg Initiative, IDseq

ECK INSTITUTE FOR GLOBAL HEALTH

emergent biosolutions

FIND Diagnosis for all

gsk

ICF

INDIANA UNIVERSITY
SCHOOL OF MEDICINE
Ryan White Center for Pediatric Infectious Diseases and Global Health

The National Academies of SCIENCES ENGINEERING MEDICINE

NOVARTIS

PARASITES WITHOUT BORDERS

PEPPERPRINT
A NEW DIVERSITY

Save the Children

sysmex

THE GLOBAL HEALTH NETWORK
Enabling research by sharing knowledge

THE TASK FORCE FOR GLOBAL HEALTH

valneva

Vector-Borne and Zoonotic Diseases

VYSNOVA PARTNERS

2021 Advertiser, Contributor, Exhibitor, Sponsor and Supporter Directory

Abbott

Contact: Nishal Hariparsaad
Address: Parkmore East Business Park
Ballybrit, Galway, Ireland
Phone: +27 (0) 64 605 1433
Email: **nishal.hariparsaad@abbott.com**
Website: **www.globalpointofcare.abbott**
Twitter: @AbbottNews

Abbott is a global leader in rapid diagnostic tests that deliver the right care, at the right time. Our comprehensive portfolio of tests for infectious disease, cardiometabolic disease and toxicology provide fast, reliable and actionable information that help improve quality of care and enable better clinical and economic health outcomes.

Bayer Crop Science – Agriculture Division

SPONSORED SYMPOSIUM

Contact: Liza Dunn
Address: 700 Chesterfield Parkway North
Chesterfield, MO 63017, United States of America
Email: **saraheliza.dunnhalcomb@bayer.com**
Website: **www.cropscience.bayer.com/**
Twitter: @DrLizaMD, @Bayer4Crops, @Bayer4CropsEU

Throughout history, humanity has improved lives and inspired breakthroughs for our biggest challenges. Our shared sense of inventiveness gave us agriculture—one of the oldest and most important inventions—and we believe it can do even more. We're using innovation to shape what's possible for farmers, consumers, and the planet as we seek to deliver world-class innovation, set new standards in sustainability, and drive digital transformation.

Bill & Melinda Gates Foundation

SPONSOR

Address: P.O. Box 23350
Seattle, WA 98102, United States of America
Phone: +1-206-709-3100
Email: **info@gatesfoundation.org**
Website: **www.gatesfoundation.org**

Guided by the belief that every life has equal value, the Bill & Melinda Gates Foundation works to help all people lead healthy, productive lives. In developing countries, it focuses on improving people's health and giving them the chance to lift themselves out of hunger and extreme poverty. In the United States, it seeks to ensure that all people – especially those with the fewest resources – have access to the opportunities they need to succeed in school and life. Based in Seattle, the foundation is led by CEO Mark Suzman, under the direction of Bill and Melinda Gates and Warren Buffett.

BioFire Defense

Contact: Christina Flowers, Sales Account Manager
Address: 79 West 4500 South
Salt Lake City, Utah 84107, United States of America
Phone 801-244-3087
Email: **Christina.Flowers@BioFireDefense.com**
Twitter: @BiofireDefense
Facebook: **https://www.facebook.com/BiofireDefense/**
YouTube: **https://www.youtube.com/channel/UC8EWtFrUSwofXwYNDDDjOVA**

At BioFire Defense we deliver a fully integrated suite of biological agent identification products, including BioFire® FilmArray® and RAZOR® Mk II Systems to the biodefense and first responder community. Our products and services speed up medical results, help people stay healthy, and make communities more secure.

Burroughs Wellcome Fund

SUPPORTER

Address P.O. Box 13901
Research Triangle Park, NC 27709,
United States of America
Phone: +1-919-991-5100
Website: **www.bwfund.org**
Twitter: @BWFPATH

The Burroughs Wellcome Fund is an independent private foundation dedicated to advancing the biomedical sciences by supporting research and other scientific and educational activities. Within this broad mission, BWF has two primary goals: To help scientists early in their careers develop as independent investigators and to advance fields in the basic biomedical sciences that are undervalued or in need of particular encouragement. BWF's financial support is channeled primarily through competitive peer-reviewed award programs.

Chan Zuckerberg Initiative, IDseq

Contact: Liz Fahsbender
Address: 601 Marshall St
Redwood City, CA 94063
Phone: (727)735-7633
Email: **help@idseq.net**
Website: **https://www.discoveridseq.com/**
Twitter:@cziscience

IDseq is free open source cloud-based service for pathogen detection and surveillance. Our mission is to make complex analysis pipelines globally accessible to empower data-driven

2021 Advertiser, Contributor, Exhibitor, Sponsor and Supporter Directory

decision making about disease prevention and detection around the world. The IDseq portal is a metagenomics pipeline, which serves to reduce the barrier to entry for mNGS data analysis.

Emergent BioSolutions

Contact: Mark Schneider
Address: 555 Twin Dolphin Drive Suite 360
Redwood City, CA 94065, United States of America
Phone: +1-850-748-7992
Email: **schneiderm@ebsi.com**
Website: **https://www.emergentbiosolutions.com/**
Twitter: @emergentbiosolu

Emergent BioSolutions is a global life sciences company whose mission is to protect and enhance life. Through Emergent's specialty products and contract development and manufacturing services, Emergent is dedicated to providing solutions that address public health threats. Through social responsibility, Emergent aims to build healthier and safer communities. Emergent aspires to deliver peace of mind to its patients and customers so they can focus on what's most important in their lives. In working together, Emergent envisions protecting or enhancing 1 billion lives by 2030. For additional information, visit Emergent's website and follow Emergent on LinkedIn, Twitter and Instagram.

FIND

ADVERTISER

Contact: Daniel Bausch, MD, MPH&TM
Senior Director, Emerging Threats
& Global Health Security
Address: Campus Biotech
9 Chemin des Mines, 1202 Geneva, Switzerland
Phone: +41 79 431 62 44
Email: **info@finddx.org**
Website: **https://www.finddx.org/**
Twitter: @FINDdx

FIND, the global alliance for diagnostics, seeks to ensure equitable access to reliable diagnosis around the world. We connect countries and communities, funders, decision-makers, healthcare providers and developers to spur diagnostic innovation and make testing an integral part of sustainable, resilient health systems. We are working to save 1 million lives through accessible, quality diagnosis, and save US$1 billion in healthcare costs to patients and health systems. We are co-convener of the Access to COVID-19 Tools (ACT) Accelerator diagnostics pillar, and a WHO Collaborating Centre for Laboratory Strengthening and Diagnostic Technology Evaluation.

GSK

ADVERTISER

Contact: Emma Iovoli
Medical Head, Global Health
Email: **emma.c.iovoli@gsk.com**
Website: **https://www.gsk.com/en-gb/responsibility/improving-health-globally/using-our-science-for-global-health/**
Twitter: @gsk

GSK unites science, talent and technology to get ahead of disease together. Our approach to global health is science-led, prioritising areas where we can make the most impact, and address the greatest global need.

Gilead Sciences, Inc.

SPONSOR

Website: **www.gilead.com**

Gilead Sciences, Inc. is a biopharmaceutical company that has pursued and achieved breakthroughs in medicine for more than three decades, with the goal of creating a healthier world for all people. The company is committed to advancing innovative medicines to prevent and treat life-threatening diseases, including HIV, viral hepatitis and cancer. Gilead operates in more than 35 countries worldwide, with headquarters in Foster City, California.

IAMAT – International Association for Medical Assistance to

SUPPORTER

Address: 14th Avenue, Suite 210
Markham, ON L3R 0E4, Canada
Email: **info@iamat.org**
Website: **www.iamat.org**
Twitter: @IAMAT_Travel

IAMAT (International Association for Medical Assistance to Travellers), a division of the Foundation for the Support of International Medical Training, awards scholarships to doctors and nurses from countries where travel medicine is an emerging specialty. Our scholars introduce travel health services and improve health standards in their community, benefitting local patients and travellers. Since 1990, IAMAT/FSIMT has sponsored the annual Vincenzo Marcolongo Memorial Lecture in honor of its founder, a specialist in tropical medicine who dedicated his life to the health needs of travelers.

2021 Advertiser, Contributor, Exhibitor, Sponsor and Supporter Directory

ICF

Contact: Yazoume Ye, PhD
Vice President, Malaria Surveillance and Research
Technical Director, PMI Measure Malaria Project (PMM)
Address: 530 Gaither Road, Suite 500
Rockville, Maryland, 20850, United States of America
Phone: +1-301-572-0392
Email: **Yazoume.Ye@icf.com**
Website: **https://www.icf.com/work/international-development/global-health**
Twitter: @ICF
LinkedIn: **https://www.linkedin.com/company/icf-international/**

ICF (NASDAQ:ICFI) is a global consulting services company with approximately 7,500 full-time and part-time employees, but we are not your typical consultants. At ICF, business analysts and policy specialists work together with digital strategists, data scientists and creatives. We combine unmatched industry expertise with cutting-edge engagement capabilities to help organizations solve their most complex challenges. Since 1969, public and private sector clients have worked with ICF to navigate change and shape the future. Learn more at **icf.com**.

Johnson & Johnson

SPONSOR

Website: **www.jnj.com/gph**
Twitter: @JNJGlobalHealth
Facebook: **https://www.facebook.com/jnj**
LinkedIn: **https://www.linkedin.com/company/johnson-&-johnson/**

At Johnson & Johnson, we believe good health is the foundation of vibrant lives, thriving communities and forward progress. Through a dedicated global public health (GPH) organization, we established a team of innovators who put the world's most vulnerable at the heart of everything we do—measuring our success in lives impacted. Our mission is to make relevant innovations that save lives, cure patients and prevent disease available, affordable and accessible for the world's most underserved communities.

Parasites Without Borders

SPONSOR

Contact: Dickson Despommier
Address: 23 Murray Avenue
Port Washington, NY 11050, United States of America
Phone: +1-646-618-0638
Email: **dickson.despommier@gmail.com**
Website: **https://parasiteswithoutborders.com/**
Twitter: @PWB_Global

Parasites Without Borders was founded in 2016 by Daniel Griffin, MD, PhD, Dickson Despommier, PhD and Charles Knirsch, MD, MPH, later joined by Vincent Racaniello, PhD and Peter Hotez, MD, PhD. The team has a lifetime of experience studying infectious diseases – especially parasitic infections – and founded the organization as a comprehensive, advanced educational resource and disseminator of basic and clinical information dealing with the global problems associated with parasitic diseases. Learn more at parasiteswithoutborders.com.

PEPperPRINT GmbH

Contact: Dr. Carsten Haber – Sales Representative US
Carsten.haber@pepperprint.com
Contact: Dr. Thorsten Zacher - Head of Sales
Thorsten.zacher@pepperprint.com
Address: Rischerstr. 12
69123 Heidelberg, Germany
Phone: +49 (0)6221 72644-89
E-Mail: **info@pepperprint.com**
Website: **www.pepperprint.com**
Twitter: @PEPperCHIP
LinkedIn: **https://www.linkedin.com/company/807449/admin/**

PEPperPRINT is the leading provider of high-density peptide microarrays for linear and conformational epitope mapping, antibody validation, antigen and epitope discovery, vaccine development and serologic biomarker development for cancer, autoimmune and infectious diseases. Based on its proprietary laser-printing technology, PEPperPRINT can synthesize tens of thousands of peptides directly on the chip. The benefits of this approach are a unique flexibility in terms of custom peptide content, a high spot density, and reduced material consumption.

Roche Diagnostics GmbH

CONTRIBUTOR

DE-82377 Penzberg, Germany
Phone: +49-8856 60 0
Website: **http://www.roche.de**

As a global leader in healthcare, Roche Diagnostics offers a broad portfolio of products, tools and services that help in the prevention, diagnosis and management of infectious diseases as well as many other medical conditions. These products and services are used by researchers, physicians, patients, hospitals and laboratories worldwide to help improve people's lives.

2021 Advertiser, Contributor, Exhibitor, Sponsor and Supporter Directory

Ryan White Center for Pediatric Infectious Diseases and Global Health

Contact: Debbie Bennett
Address: Indiana University Center for Global Health
Indiana University School of Medicine
Department of Pediatrics
Ryan White Center for Pediatric Infectious Disease and Global Health
Wells Center for Pediatric Research
1044 W. Walnut St. 402D
Indianapolis, IN 46202, United States of America
Email: **debabenn@iupui.edu**
Websites: **https://medicine.iu.edu/pediatrics/specialties/infectious-diseases, https://globalhealth.iu.edu/index.html**
Twitter: @iurwc

The Ryan White Center for Pediatric Infectious Diseases and Global Health in the Department of Pediatrics at the Indiana University School of Medicine is a national leader in global pediatric infectious disease clinical care, research and education. With 15 clinical and research faculty, and a dedicated team of clinical and research staff, the division's focus on global child health reflects the understanding that infectious diseases know no boundaries.

S. C. Johnson

SPONSOR

Address: 11525 Howe Street
Racine, WI 53402, United States of America
Websites: **www.scjohnson.com, https://www.raid.com/en-us, https://off.com/en**

SC Johnson is a family company dedicated to making high-quality products that people can trust. We work every day to create a great workplace and uphold our long-standing commitment to the environment, transparency and making life better for families in communities where we operate around the world. The SC Johnson Institute of Insect Science for Family Health is one of the largest private urban entomology research facilities in the world. It was established in 1957 in Racine, Wisconsin and expanded to Shanghai, China in 2013.

Sabin Vaccine Institute

SPONSOR

2175 K Street, NW, Suite 400
Washington, DC 20037, United States of America
Phone +1-202-842-5025
Website: **www.sabin.org**
Twitter: @sabinvaccine

Every two years, the Coalition against Typhoid, based at the Sabin Vaccine Institute, convenes the International Conference on Typhoid & Other Invasive Salmonelloses. The conference brings together researchers, policymakers and advocates to advance a clear agenda for prevention and control of typhoid and related diseases. At the conference, global experts share the latest developments and strategies to reduce the burden of typhoid, paratyphoid and invasive nontyphoidal Salmonella (iNTS) disease for communities around the world. Join us online December 6-8, 2021 at **https://typhoid2021.org**.

Save the Children US

Contact: Sara Canavati
Address: 501 Kings Hwy E #400
Fairfield, CT 06825 USA
Phone: +1-202-813-7204
Email: **scanavati@savechildren.org**
Twitter: @SavetheChildren

Save the Children believes every child deserves a future. Around the world, we give children a healthy start in life, opportunity to learn and protection from harm. We continue to be at the forefront of global efforts to end preventable diseases and child deaths, with a focus on preventing and treating infectious diseases such as malaria, TB and HIV, maternal, newborn, child health and nutrition, and alleviating hunger. Our latest annual report shows we reached 27.9 million children through our global health programs.

Sysmex America, Inc.

Contact: Jill Crist
Address: 577 Aptakisic Rd
Lincolnshire, IL 60069. United States of America
Phone: +1-215-962-8236
Email: **CristJ@Sysmex.com**
Twitter: @SysmexAmerica

Sysmex America, Inc. provides labs with advanced instrument technology and robust automation platforms for hematology, flow cytometry, hemostasis, urinalysis, information systems, and molecular diagnostics. With Sysmex as your partner, there's a commitment to innovation that impacts all aspects of managing your laboratory-clinical, operational, and financial. Discover what makes Sysmex the smarter choice and sets our integrated diagnostics solution apart from every other brand.

2021 Advertiser, Contributor, Exhibitor, Sponsor and Supporter Directory

Takeda Pharmaceuticals International AG

SPONSOR

Contact: Mayumi Fujino Chang
Email: mayumi.chang@Takeda.com
Website: **www.takeda.com**
Twitter: @TakedaPharma

For more than 70 years, Takeda has developed and provided vaccines to support national immunization programs to protect the health of people in Japan. Building upon this longstanding business in Japan, Takeda is applying innovation to develop vaccines that tackle the world's most challenging infectious diseases affecting millions of people, such as dengue, Zika and norovirus.

The Global Health Network, University of Oxford

Contact: Saadat Aliyeva
Address: New Richards Building
Old Road Campus, Roosevelt Drive
Oxford, OX3 7FZ, United Kingdom
Phone: +447707079326
Email: **sada.aliyeva@ndm.ox.ac.uk**
Twitter: @info_TGHN

The Global Health Network enables easier, faster, and better research in the world's most challenging settings. We have built a thriving community across Africa, Asia and Latin America where we work through local partners to establish the key barriers and enablers to locally-led research and have developed mechanisms and tools to address these. Working directly with thousands of health workers and The Global Health Network enables easier, faster, and better research in the world's most challenging settings. We have built a thriving community across Africa, Asia and Latin America where we work through local partners to establish the key barriers and enablers to locally-led research and have developed mechanisms and tools to address these.

The National Academies of Sciences, Engineering, Medicine NRC Research Associateship Program

Contact: Eric Basques, PhD
Program Administrator, Fellowships Office
Address: 500 5th Street NW
Washington DC 20001, United States of America
Phone: +1-202-334-2707
Email: **ebasques@nas.edu**
Website: **https://www.nationalacademies.org/fellowships-and-grants**
Twitter: @NASEM_NRC_RAP

The goal of the NRC Research Associateship Program is to provide advanced training and collaborative research opportunities for highly qualified graduate postdoctoral scientists while enhancing the research conducted in federal laboratories and affiliated institutions. A wide variety of research opportunities covering all fields of science and engineering are available at top research laboratories.

The Task Force for Global Health

Contact: Sumon Ray
330 W Ponce de Leon Avenue
Decatur, GA 30030, United States of America
Phone: +1-404-371-0466
Email: **sray@taskforce.org**
Website: **www.taskforce.org**
Twitter: @TFGH

The Task Force for Global Health, founded nearly 40 years ago to advance health equity, works with partners in more than 150 countries to eliminate diseases, ensure access to vaccines and essential medicines, and strengthen health systems to protect populations. Expertise includes neglected tropical diseases and other infectious diseases; vaccine safety, distribution and access; and health systems strengthening. For more information, visit **www.taskforce.org.**

2021 Advertiser, Contributor, Exhibitor, Sponsor and Supporter Directory

University of Notre Dame's Eck Institute for Global Health

Contact: Kelly Thomson
Institute Coordinator, Eck Institute for Global Health
Address: 4147 Jenkins Nanovic Halls
Notre Dame, IN 46556, United States of America
Phone: +1-574-631-2171
Email: **eigh@nd.edu**
Website: **https://globalhealth.nd.edu/**
Twitter: @ndeckinstitute

The University of Notre Dame's Eck Institute for Global Health (EIGH) serves as a university-wide enterprise that recognizes health as a fundamental human right and works to promote research, training, and service to advance health standards and reduce health disparities for all. The EIGH brings together multidisciplinary teams to understand and address health challenges that disproportionately affect the poor and to train the next generation of global health leaders.

Valneva SE

Address: 6 rue Alain Bombard
44800 Saint-Herblain, France
Phone: +33 2 28 07 37 10
Email: **info@valneva.com**
Website: **valneva.com**
Twitter: @valnevaSE

Valneva is a specialty vaccine company focused on the development and commercialization of prophylactic vaccines for infectious diseases with significant unmet medical need. Our vision is to contribute to a world in which no one dies or suffers from a vaccine-preventable disease. Valneva USA, Inc. is focused on the marketing and distribution of Valneva's Japanese encephalitis vaccine, IXIARO®, in Valneva is a specialty vaccine company focused on the development and commercialization of prophylactic vaccines for infectious diseases with significant unmet medical need. Our vision is to contribute to a world in which no one dies or suffers from a vaccine-preventable disease. Valneva USA, Inc. is focused on the marketing and distribution of Valneva's Japanese encephalitis vaccine, IXIARO®, in the US.

Vector-Borne and Zoonotic Diseases, published by Mary Ann Liebert, Inc.

Contact: Jessica Downey, Journals Publishing Manager
Address: 140 Huguenot Street, 3rd Floor
New Rochelle, NY 10801, United States of America
Phone: +1-914-740-2274
Email: **jdowney@liebertpub.com**
Website: **https://www.liebertpub.com/vbz**
Twitter: @LiebertPub

Vector-Borne and Zoonotic Diseases, published by Mary Ann Liebert, Inc. is the premier global peer-reviewed journal of research on the transmission, management, and prevention of the many dangerous diseases transmitted to humans by invertebrate vectors and non-human vertebrates.

Vysnova Partners Inc.

Contact: Caitlin Rasmussen
Address: 8400 Corporate Drive, Suite 130
Landover MD 20785, United States of America
Phone: +1-202-725-2860
Email: **crasmussen@vysnova.com**
Website: **www.vysnova.com**
Twitter: @VysnovaPartners

Vysnova Partners is a fast-growing program management firm that delivers professional and technical services for governmental and commercial clients, providing a broad range of professional and institutional support services in Public/Global Health, Research and Development in the Life Sciences, Government Operations and Acquisition, and Health Information Technology. Vysnova currently supports a number of DOD, USAID, DOS, HHS, VA and CDC-funded contracts (and grants) on a global basis. Vysnova currently holds three OASIS Prime contracts.

About Vysnova: Vysnova is a fast-growing program management firm that delivers professional and technical services worldwide for governmental and commercial clients. We provide a broad range of professional and institutional support services in Public/Global Health, Research and Development in the Life Sciences, Government Operations and Acquisition, and Health Information Technology. Vysnova currently supports a number of Department of Defense (DOD) and Centers for Disease Control and Prevention (CDC) funded contracts and grants on a global basis. As an experienced support contractor, Vysnova has nearly a decade of experience providing personnel resources supporting life science programs.

What We Do
• Program Design and Management
• Partnership Development
• Complete Logistics Life Cycle
• Recruit, hire, train and manage domestic and international SMEs
• Field work design, deployment and management
• Capacity Building / Training / eLearning
• Expedite Procurement
• Knowledge Management
• Biological Samples Management
• Laboratory capacity building and training support

Vysnova manages U.S. and foreign national staff, consultants, and partners on and off-site in CONUS and OCONUS locations and implements research activities designed in collaboration with U.S. Government researchers and host-country governmental and nongovernmental organizations. Vysnova's experience and international focus allows us to collaborate with and support our clients in an efficient manner that is compliant with local (international) laws, as well as U.S. laws, regulations, and government policies.

Other clients include US Agency for International Development, Department of State, and the Veterans Administration. Vysnova staff is working and/or has worked with USG, local institutional partners, NGOs, and other implementation partners in the United States and in over 40 countries in Latin America and the Caribbean, The Middle East and North Africa and Asia.

Where We Work				
Australia	Egypt	Kenya	Peru	Togo
Bangladesh	Ethiopia	Laos	Philippines	United Kingdom
Brazil	France	Lesotho	Puerto	Rwanda
Botswana	Guatemala	Liberia	Rico Saudi	Uganda
Cambodia	Haiti	Malawi	Arabia	UAE
Colombia	Honduras	Malaysia	Senegal	Vietnam
Costa Rica	India	Mexico	Singapore	Zambia
Cuba	Indonesia	Mongolia	Tanzania	Zimbabwe
Democratic Republic of Congo	Japan	Namibia	Tajikistan	
			Thailand	

Vysnova's project portfolio includes active and field-based bio and zoonotic surveillance, laboratory enhancement and capacity building, epidemiological research, and development (R&D) related to emerging infectious diseases, cohort studies, field epidemiology training, ecological studies, translational research (supporting the development of enhanced public health policies in host countries) and emergency response to Public Health threats and epidemics. We provide support to new clients and programs with a combination of local staff and through our existing sub contractual relationships on a global basis which includes over 75 governmental institutions, non-governmental, academic, and private sector partners. In addition, Vysnova maintains a global supplier network which includes over 100 suppliers.

8400 Corporate Drive, Landover, MD 20785
T: 301.830.8885|F: 301.830.8887| www.vysnova.com

Tuesday, November 9

Global Health Pre-Meeting Course: Beyond the Science: Best Practices in Messaging and Communications to Amplify Your Work, Engage Stakeholders and Advocate for Change

Tuesday, November 9
9 a.m. - 1:15 p.m. U.S. Eastern Time Zone

The COVID-19 pandemic has underscored the vital need for scientific and clinical communities to be vocal and visible agents of education and advocacy. In this course, we will provide practical and hands-on training regarding best practices in strategic communication, including messaging and the media, advocacy and engaging with various stakeholders, editorial writing and storytelling. The course will be divided over two days, with the first day providing practical introductions to best practices in countering information and shaping an effective message. We will engage with colleagues (physicians and scientists in global health) with significant experience across a variety of messaging and advocacy platforms. At the close of day 1, we will ask participants to prepare a topic/area of interest that they want to develop further on day 2. On day 2, we will begin with an expert panel discussion on best practices in advocacy. Participants will then engage in small breakout groups focused on storytelling, community engagement and advocacy, and media. These breakouts will be highly interactive and applied, with opportunities to practice mock media interviews and explore how to incorporate storytelling and community engagement approaches into their own strategic communications related to each participant's identified area of interest. As we conclude the PMC, participants will be encouraged to identify a goal for the coming year (e.g., write an op ed, engage the media, participate in advocacy) and will be provided a means to continue to engage with PMC peers for supportive feedback.

At the end of the activity, participants will be able to:

- Gain confidence and practical experience with media interactions, including
  - Crafting an effective and focused message
  - Bridging to higher-priority questions and topics of interest
- Incorporate storytelling to improve impact in strategic communication
- Apply principles of community engagement and advocacy to enhance impact
- Set a goal for messaging, communication and/or advocacy to pursue in the coming year

COURSE CO-CHAIRS

Kathryn Anderson
SUNY Upstate Medical University, Syracuse, NY, United States

Kristina Krohn
University of Minnesota, Minneapolis, MN, United States

Njeri Wamae
M & D Audubon Consultants, Nairobi, Kenya

9 a.m.
WELCOME, INTRODUCTION OF TOPICS AND LOGISTICS

9:15 a.m.
KEYNOTE ADDRESS: INFODEMIC: HOW TO COUNTERACT DISINFORMATION AND NOT MAKE THINGS WORSE
Claire Wardle
First Draft, New York, NY, United States

9:45 a.m.
QUESTIONS AND ANSWERS

10 a.m.
GETTING STARTED: THE ABCS OF EFFECTIVE MESSAGING
Bridget DeSimone
Burness, Bethesda, MD, United States
Carol Schadelbauer
Burness, Bethesda, MD, United States

10:45 a.m.
BREAK

11 a.m. – 1:15 p.m.
TALES FROM THE FIELD: EXPERTS IN GLOBAL HEALTH MESSAGING

11 a.m.
MEDIA ENGAGEMENT
Peter Hotez
National School of Tropical Medicine, Baylor College of Medicine, Texas Children's Center for Vaccine Development, Houston, TX, United States

11:30 a.m.
A PICTURE TELLS A THOUSAND WORDS (THE POWER OF STORYTELLING)
Margaret Gyapong
Centre for Health Policy and Implementation Research, University of Health and Allied Sciences, Ho, Volta Region, Ghana

Noon
EDITORIAL AND OP-ED WRITING
Ifeanyi Nsofor
Aspen Institute, Abuja, Nigeria

12:30 p.m.
ADVOCACY IN INTERNATIONAL SETTINGS
Irene Torres
Fundacion Octaedro (NGO), Quito, Ecuador

1 p.m.
WRAP-UP AND CHARGE FOR DAY 2

1:15 p.m.
COURSE ADJOURNS FOR THE DAY

Thursday, November 11

Global Health Pre-Meeting Course: Beyond the Science: Best Practices in Messaging and Communications to Amplify Your Work, Engage Stakeholders and Advocate for Change

Thursday, November 11
9 a.m. - 1:15 p.m. U.S. Eastern Time Zone

COURSE CO-CHAIRS

Kathryn Anderson
SUNY Upstate Medical University, Syracuse, NY, United States

Kristina Krohn
University of Minnesota, Minneapolis, MN, United States

Njeri Wamae
M & D Audubon Consultants, Kisumu, Kenya

9 a.m.
WELCOME AND LOGISTICS

9:15 a.m.
PANEL DISCUSSION: BEST PRACTICES IN ADVOCACY

Karen Goraleski
American Society of Tropical Medicine and Hygiene, Arlington, VA, United States

Roy Wadia
United Nations Population Fund Asia, Bangkok, Thailand

David Molyneux
University of Liverpool and the School of Tropical Medicine, Liverpool, United Kingdom

10 a.m. – 1 p.m.
APPLIED, FACILITATED SMALL GROUP SESSIONS

10 a.m.
COMMUNITY ENGAGEMENT AND ADVOCACY

Noni Mumba
Kenya Medical Research Institute, Kilifi, Kenya

11 a.m.
STORYTELLING

Vismita Gupta-Smith
World Health Organization, Geneva, Switzerland

Kristina Krohn
University of Minnesota, Minneapolis, MN, United States

Noon
MEDIA

Bridget DeSimone
Burness Communications, Bethesda, MD, United States

Carol Schadelbauer
Burness, Bethesda, MD, United States

1 p.m.
WRAP-UP

1:15 p.m.
COURSE ADJOURNS

Clinical Pre-Meeting Course: End the Neglect: A Clinico-Epidemiological Review and Update on Neglected Tropical Diseases and the Global Targets for 2030

Thursday, November 11
1 p.m. - 5 p.m. U.S. Eastern Time Zone

The neglected tropical diseases (NTDs) include 20 diseases that collectively affect more than 1 billion people in the world's poorest communities. In 2021, the WHO published disease-specific targets and milestones geared at controlling, eliminating or eradicating NTDs by 2030. Substantial progress has already been made but the WHO road map calls for continuous efforts, integration of programs and multisectoral actions to achieve measurable goals. To "End the Neglect" we all need to learn about diseases not included in the mainstream. Clinicians play a paramount role in recognizing, managing and reporting these diseases. Knowledge of the epidemiology, diagnosis, management and prevention of NTDs is essential in our pursuit of the 2030 targets. This course will offer thorough clinical and epidemiological reviews of up-to-date information on NTDs. Expert speakers will also discuss the progress, potential barriers and efforts required toward achieving the global targets for 2030. Recorded sessions will be followed by highly interactive panel discussions to give the audience an opportunity to ask questions and share experiences with experts working on NTDs around the world.

COURSE CO-CHAIRS

Sapha Barkati
McGill University Health Centre, Montreal, QC, Canada

Miguel Cabada
University of Texas Medical Branch, Galveston, TX, United States

1 p.m.
INTRODUCTION

Sapha Barkati
McGill University Health Centre, Montreal, QC, Canada

Miguel Cabada
University of Texas Medical Branch, Galveston, TX, United States

1:15 p.m.
INTRODUCTION ROAD MAP FOR NEGLECTED TROPICAL DISEASES

Julie Jacobson
Bridges to Development, Seattle, WA, United States

1:45 p.m.
CHAGAS DISEASE (AMERICAN TRYPANOSOMIASIS)

Maria C. Nunes
Universidad Federal de Mias Gerais, Belo Horizonte, Brazil

2:30 p.m.
MYCETOMA, CHROMOBLASTOMYCOSIS AND OTHER DEEP MYCOSIS

Carlos Seas
Universidad Peruana Cayetano Heredia, Lima, Peru

3:15 p.m.
RABIES

Reeta Mani
WHO Collaborating Centre for Reference and Research on Rabies, National Institute of Mental Health & Neurosciences (NIMHANS), Bangalore, India

4 p.m.
BREAK

4:15 p.m.
QUESTIONS AND PANEL DISCUSSION

MODERATORS:

Sapha Barkati
McGill University Health Centre, Montreal, QC, Canada

Miguel Cabada
University of Texas Medical Branch, Galveston, TX, United States

PANELISTS:

Julie Jacobson
Bridges to Development, Seattle, WA, United States

Maria C. Nunes
Universidad Federal de Mias Gerais, Belo Horizonte, Brazil

Carlos Seas
Universidad Peruana Cayetano Heredia, Lima, Peru

Reeta Mani
WHO Collaborating Centre for Reference and Research on Rabies, Bangalore, India

Friday, November 12

Clinical Pre-Meeting Course: End the Neglect: A Clinico-Epidemiological Review and Update on Neglected Tropical Diseases and the Global Targets for 2030

Friday, November 12
1 p.m. - 5 p.m. U.S. Eastern Time Zone

COURSE CO-CHAIRS

Sapha Barkati
McGill University Health Centre, Montreal, QC, Canada

Miguel Cabada
University of Texas Medical Branch, Galveston, TX, United States

1 p.m.
SCHISTOSOMIASIS

Charles King
Case Western Reserve University, Cleveland, OH, United States

1:45 p.m.
ONCHOCERCIASIS

Joseph Kamgno
University of Yaounde I, Yaoundé, Cameroon

2:30 p.m.
HUMAN AFRICAN TRYPANOSOMIASIS

Emmanuel Bottieau
Institute of Tropical Medicine, Antwerp, Belgium

3:15 p.m.
VISCERAL LEISHMANIASIS

Shyam Sundar
Institute of Medical Sciences, Banaras Hindu University, Varanasi, India

4 p.m.
BREAK

4:15 p.m.
QUESTIONS AND PANEL DISCUSSION

MODERATORS:

Sapha Barkati
McGill University Health Centre, Montreal, QC, Canada

Miguel Cabada
University of Texas Medical Branch, Galveston, TX, United States

PANELISTS:

Charles King
Case Western Reserve University, Cleveland, OH, United States

Joseph Kamgno
University of Yaoundé I, Cameroon

Emmanuel Bottieau
Institute of Tropical Medicine, Antwerp, Belgium

Shyam Sundar
Institute of Medical Sciences, Banaras Hindu University, Varanasi, India

Tuesday, November 16

PLOS Writing Workshop

Tuesday, November 16
2 p.m. - 4 p.m. U.S. Eastern Time Zone

PLOS Pathogens and *PLOS Neglected Tropical Diseases* present a writing workshop to equip and support early-career researchers and researchers from disease-endemic regions in understanding the publication process and best practices for manuscript writing. The session will address framing your research and choosing a journal, mapping out your paper, abstracts, the mechanics of writing, how to properly respond to reviewer comments, and best practices for data sharing and Open Science. The panel of presenters will feature Editors-in-Chief and Managing Editors from both journals.

Wednesday, November 17

ASTMH Information Desk

Lobby
Wednesday, November 17
8 a.m. - 7 p.m. U.S. Eastern Time Zone

Exhibit Hall

Visit the Exhibit Hall to view the schedule for each exhibit booth and connect with our exhibitors and learn about their products and services

Press Room

The ASTMH media team is available for assistance at the following:

- Bridget DeSimone, **bdesimone@burness.com**
  tel: +1 202-468-0766
- Preeti Singh **psingh@burness.com**
  tel: +1 703-862-2515
- Anna Chen, **achen@burness.com**
  tel: +1 215-262-7670

Review research highlights and more:
https://astmhpressroom.wordpress.com/annual-meeting-2021/

Young Investigator Award Sessions

CHAIR
Ann Moormann
University of Massachusetts Medical School, Worcester, MA, United States

The Young Investigator Award is presented to outstanding young researchers during the Annual Meeting. This award encourages developing young scientists to pursue careers in various aspects of tropical disease research. Support these young scientists by attending their presentations during this session.

William A. Petri, Jr. in memory of William A. Petri, Sr.
Anonymous Donor
All individuals who made a donation during registration.

Young Investigator Award Session A

Young Investigator Award Room A
Wednesday, November 17
10 a.m. - 1 p.m. U.S. Eastern Time Zone

JUDGE

Fernando Bruno
Touro College of Osteopathic Medicine and Harvard T. H. Chan School of Public Health and, Middletown, NY, United States

Douglas Golenbock
University of Massachusetts Medical School, Worcester, MA, United States

Tahaniyat Lalani
Infectious Disease Clinical Research Program, Portsmouth, VA, United States

Naomi Lucchi
Centers for Disease Control and Prevention, Atlanta, GA, United States

Tuan Tran
Indiana University, Indianapolis, IN, United States

10 a.m. 159

CORRELATION OF THROMBOCYTOPENIA WITH GALL BLADDER WALL THICKNESS: A PREDICTIVE ANALYSIS FOR BLEEDING RISK AND NEED OF PLATELET TRANSFUSION IN DENGUE INFECTION

Muhammad Sohaib Asghar, Saira Anwar, Farah Yasmin
Dow University of Health Sciences, Karachi, Pakistan

10:15 a.m. 343

DEPRESSION AND QUALITY OF LIFE AMONGST FILARIAL LYMPHOEDEMA PATIENTS: DETERMINING DEMOGRAPHIC, SOCIO-ECONOMIC AND PHYSICAL RISK FACTORS, AND THE IMPACT OF ENHANCED SELF-CARE INTERVENTION

Carrie Barrett
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

10:30 a.m. 360

EPSTEIN BARR VIRUS CENTRAL NERVOUS SYSTEM INFECTION IN PATIENTS PRESENTING WITH SUSPECTED MENINGITIS IN BOTSWANA

Jayne Ellis[1], Margaret Mokomane[2], Madisa Mine[3], Charles Muthoga[4], Kwana Lechiile[4], Chris Williams[4], Tshepo Leeme[5], Mark Tenforde[4], Richard Hayes[1], Joseph Jarvis[1]
[1]London School Hygiene and Tropical Medicine, London, United Kingdom, [2]University of Botswana, Gabarone, Botswana, [3]Princess Marina Hospital, Gabarone, Botswana, [4]Botswana-Harvard AIDS Institute Partnership, Gabarone, Botswana, [5]Monash University, Melbourne, Australia

10:45 a.m. 364

PREVALENCE OF CERVICAL DYSPLASIA BY VISUAL INSPECTION ACETIC ACID (VIA) IS INCREASED IN WOMEN WITH FEMALE GENITAL SCHISTOSOMIASIS; A CROSS-SECTIONAL STUDY IN ZAMBIA

Hannah Rafferty[1], Amy Sturt[1], Comfort Rutty Phiri[2], Emily Webb[1], Maina Mudenda[3], Joyce Mapani[3], Namakau Chola[2], Paul Corstjens[4], Govert Van Damm[5], Lisette Van Lieshout[5], Richard Hayes[1], Helen Ayles[1], Hansingo Isaiah[3], Amaya L. Bustinduy[1]
[1]London School of Hygiene &Tropical Medicine, London, United Kingdom, [2]Zambart, Lusaka, Zambia, [3]Livingstone Central Hospital, Livingstone, Zambia, [4]Leiden Medical Center, London, Netherlands, [5]Leiden Medical Center, Leiden, Netherlands

11 a.m. 403

HEPATIC FIBROSIS BIOMARKING BY PLASMA CYTOKINE PROFILING DURING HUMAN SCHISTOSOMIASIS

Donald Severin Kamdem[1], Erve Martial Kuemkon[2], Francis Konhawa[2], Leonel Meyo Kamguia[3], Gladys K. Tchanana[2], Frungwa Nche[4], Alim Oumarou[4], Rene Ghislain Essomba[2], Frank Brombacher[5], Justin Komguep Nono[3]
[1]University of Utah, Salt Lake City, UT, United States, [2]School of Health Sciences, Catholic University of Central Africa, Yaoundé, Cameroon, [3]Laboratory of Immunobiology of Helminth Infection, Ministry of Scientific Research and Innovation, Yaoundé, Cameroon, [4]Ministry of Public Health, Yaoundé, Cameroon, [5]International Centre for Genetic engineering and Biotechnology, University of Cape Town, Cape Town, South Africa

11:15 a.m. 906

LIMITED CLINICAL DISEASE DESPITE RAPIDLY INCREASING SARS-COV-2 SEROPREVALENCE IN MALI, WEST AFRICA

John Woodford[1], Jennifer Kwan[2], Abdoulaye Katile[3], Bourama Kamate[3], Mamady Kone[3], Mahamadoun Hamady Assadou[3], Oumar Attaher[3], Emily Higbee[1], Jacquelyn Lane[1], David Cook[1], Sara Healy[1], M'Bouye Doucoure[3], Amatigue Zeguime[3], Irfan Zaidi[1], Justin Doritchamou[1], Alassane Dicko[3], Patrick Duffy[1], Issaka Sagara[3]
[1]Laboratory of Malaria Immunology and Vaccinology, NIAID, MD, United States, [2]Laboratory of Clinical Immunology and Microbiology, NIAID, MD, United States, [3]Malaria Research and Training Center, Mali-NIAID ICER, Bamako, Mali

11:30 a.m. 1109

PREDICTORS AND ASSOCIATIONS WITH MATERNAL AND BIRTH OUTCOMES OF *PLASMODIUM FALCIPARUM* INFECTION IN THE FIRST TRIMESTER AMONG NULLIPAROUS WOMEN FROM THE DEMOCRATIC REPUBLIC OF THE CONGO, KENYA, AND ZAMBIA

Sequoia I. Leuba[1], Daniel Westreich[1], Carl L. Bose[2], Kimberly A. Powers[1], Andy Olshan[1], Steve M. Taylor[3], Antoinette Tshefu[4], Adrien Lokangaka[4], Waldemar A. Carlo[5], Elwyn Chomba[6], Edward A. Liechty[7], Fabian Esamai[8], Saleem Jessani[9], Sarah Saleem[9], Robert L. Goldenberg[10], Janet L. Moore[11], Jennifer Hemingway-Foday[11], Elizabeth M. McClure[11], Marion Koso-Thomas[12], Richard J. Derman[13], Matthew K. Hoffman[14], Melissa Bauserman[2]
[1]Department of Epidemiology, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [2]Department of Pediatrics, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [3]Division of Infectious Diseases and Duke Global Health Institute, Duke University Medical Center, Durham, NC, United States, [4]Kinshasa School of Public Health, Kinshasa, Democratic Republic of the Congo, [5]University of Alabama at Birmingham, Birmingham, AL, United States, [6]University Teaching Hospital, Lusaka, Zambia, [7]School of Medicine, Indiana University, Indianapolis, IN, United States, [8]Department of Child Health and Paediatrics, Moi University School of Medicine, Eldoret, Kenya, [9]Department of Community Health Sciences, Aga Khan University, Karachi, Pakistan, [10]Department of Obstetrics and Gynecology, Columbia University, New York, NY, United States, [11]Social, Statistical and Environmental Sciences, RTI International, Research Triangle Park, NC, United States, [12]Eunice Kennedy Shriver National Institute of Child Health and Human Development, Bethesda, MD, United States, [13]Thomas Jefferson University, Philadelphia, PA, United States, [14]Department of Obstetrics and Gynecology, Christiana Care, Newark, DE, United States

11:45 a.m. 1264

ASSOCIATION OF FEMALE GENITAL SCHISTOSOMIASIS WITH THE CERVICOVAGINAL MICROBIOTA AND SEXUALLY TRANSMITTED INFECTIONS IN ZAMBIAN WOMEN

Amy S. Sturt[1], Emily L. Webb[1], Lisa Himschoot[2], Comfort R. Phiri[3], Joyce Mapani[4], Maina Mudenda[4], Eyrun F. Kjetland[5], Tobias Mweene[3], Bruno Levecke[2], Govert J. van Dam[6], Paul L. Corstjens[6], Helen Ayles[3], Richard J. Hayes[1], Lisette van Lieshout[6], Isaiah Hansingo[4], Suzanna C. Francis[1], Piet Cools[2], Amaya L. Bustinduy[1]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]University of Ghent, Ghent, Belgium, [3]Zambart, Lusaka, Zambia, [4]Livingstone Central Hospital, Livingstone, Zambia, [5]Oslo University Hospital, Oslo, Norway, [6]Leiden University Medical Center, Leiden, Netherlands

Noon 1284

HOST METABOLIC ALTERATIONS FROM EARLY SCHISTOSOMA HAEMATOBIUM INFECTION IN PRESCHOOL-AGED CHILDREN

Derick N. Osakunor[1], Takafira Mduluza[2], Douglas Osei-Hyiaman[3], Karl Burgess[4], Mark Woolhouse[4], Francisca Mutapi[4]
[1]Children's National Medical Center, Washington, DC, United States, [2]University of Zimbabwe, Mount Pleasant, Harare, Zimbabwe, [3]National Institutes of Health, Bethesda, MD, United States, [4]University of Edinburgh, Edinburgh, United Kingdom

12:15 p.m. 1340

ENDOGENOUS NEUTROPHIL ACTIVATION IN SUBCLINICAL LEISHMANIA BRAZILIENSIS INFECTION

Jacilara Conceicao[1], Pedro Carneiro[2], Andreza Dórea[2], Walker Nonato[2], Aline Muniz[2], Ednaldo Lago[2], Edgar Carvalho[3], Mary Wilson[1], Olívia Bacellar[2]
[1]University of Iowa, Iowa City, IA, United States, [2]Immunology Service, Federal University of Bahia, Salvador, Brazil, [3]Gonçalo Moniz Research Center - Fiocruz Bahia, Salvador, Brazil

Young Investigator Award Session B

Young Investigator Award Room B
Wednesday, November 17
10 a.m. - 1:15 p.m. U.S. Eastern Time Zone

JUDGE

Gregory A. Deye
NIH, Rockville, MD, United States

Prasanna Jagannathan
Stanford University, Stanford, CA, United States

Elise M O'Connell
NIH, Rockville, MD, United States

Maggy Sikulu
University of Queensland, St. Lucia, Australia

Prakash Srinivasan
Johns Hopkins School of Public Health, Baltimore, MD, United States

10 a.m. 1

PHARMACOKINETIC PROPERTIES OF THE IRRUA-RIBAVIRIN-REGIMEN IN THE TREATMENT OF LASSA FEVER IN NIGERIA - A PROSPECTIVE OBSERVATIONAL STUDY

Mirjam Groger[1], Cyril Oshomah Erameh[2], Osahogie Isaac Edeawe[2], Christine J. Kleist[3], Sophie Duraffour[4], Lisa Oestereich[4], Julia Hinzmann[4], Femi Oluwasola Babatunde[5], Joy Nwatuzor[5], Jonas Müller[4], Mette Hinrichs[4], Meike Pahlmann[4], Christine Wagner[1], Francisca Naana Sarpong[1], Till Koch[1], Gloria Eifediyi[2], Ephraim Ogbaini-Emovon[2], Sylvanus Okogbenin[2], Sebastian G. Wicha[3], Stephan Günther[4], Michael Ramharter[1], Peter Ehizokhale Akhideno[2]
[1]Department of Tropical Medicine, Bernhard Nocht Institute for Tropical Medicine & I. Department of Medicine University Medical Center Hamburg-Eppendorf, Hamburg, Germany, [2]Institute of Lassa Fever Research and Control, Irrua Specialist Teaching Hospital, Irrua, Nigeria, [3]Department of Clinical Pharmacy, Institute of Pharmacy, University of Hamburg, Hamburg, Germany, [4]Department of Virology, Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany, [5]Institute of Lassa Fever Research and Control, Irrua Specialist Teaching Hospital, Hamburg, Germany

10:15 a.m. 56

IDENTIFICATION OF NOVEL THERAPEUTICS AGAINST HUMAN SCHISTOSOMIASIS

Sevan Alwan[1], Alexander Taylor[1], Jayce Rhodes[2], Michael Tidwell[2], Stanton McHardy[2], Philip LoVerde[1]
[1]UT Health at San Antonio, San Antonio, TX, United States, [2]University of Texas at San Antonio, San Antonio, TX, United States

10:30 a.m. 423

GLYCOLIPID-ADJUVANTED RADIATION-ATTENUATED SPOROZOITES IMPROVES THE EFFICACY OF A HETEROLOGOUS PRIME-AND-TRAP MALARIA VACCINE

Felicia N. Watson[1], Anya C. Kalata[1], Melanie J. Shears[1], Sumana Chakravarty[2], Betty K. Sim[2], Stephen L. Hoffman[2], Moriya Tsuji[3], Sean C. Murphy[1]
[1]University of Washington, Seattle, WA, United States, [2]Sanaria Inc., Rockville, MD, United States, [3]Columbia University, New York, NY, United States

10:45 a.m. 443

RECTAL ARTESUNATE ADMINISTRATION IS ASSOCIATED WITH LOWER REFERRAL COMPLETION OF CHILDREN WITH SUSPECTED SEVERE MALARIA IN NIGERIA AND THE DEMOCRATIC REPUBLIC OF THE CONGO

Nina Brunner[1], Giulia Delvento[1], Tristan Lee[1], Phyllis Awor[2], Prosciova Athieno[2], Joseph Kimera[2], Antoinette Tshefu[3], Jean Okitawutshu[3], Jean-Claude Kalenga[3], Elizabeth Omoluabi[4], Kazeem Ayodeji[4], Charles Okon[4], Ocheche Yusuf[4], Mughi Adamu[4], Theodoor Visser[5], Harriet Napier[5], Valentina Buj[6], Mark Lambiris[1], Aita Signorell[1], Christian Burri[1], Christian Lengeler[1], Manuel Hetzel[1]
[1]Swiss Tropical and Public Health Institute, Basel, Switzerland, [2]Makerere University School of Public Health, Kampala, Uganda, [3]Kinshasa School of Public Health, Kinshasa, Democratic Republic of the Congo, [4]Akena Associates, Abuja, Nigeria, [5]Clinton Health Access Initiative, Boston, MA, United States, [6]UNICEF, New York, NY, United States

11 a.m. 477

B-TRIKETONES, A NEXT GENERATION SCABICIDE?

Nirupama Abeysekara Nammunige[1], Kylie Agnew-Francis[2], Deepani D. Fernando[1], Sara Taylor[1], Hieng Lu[1], Craig Williams[2], Robin Gasser[3], Katja Fischer[1]
[1]Queensland Institute of Medical Research Berghofer, Herston, Australia, [2]University of Queensland, Queensland, Australia, [3]University of Melbourne, Melbourne, Australia

11:15 a.m. 478

ABAMETAPIR - A POTENTIAL SINGLE DOSE SCABICIDE WITH OVICIDAL ACTIVITY.

Gangi R. Samarawickrama[1], Deepani D. Fernando[1], Hieng C. Lu[1], Sara Taylor[1], Gunter Hartel[2], Robin B. Gasser[3], Vern M. Bowels[4], Katja Fischer[1]
[1]QIMR Berghofer Medical Research Institute, Brisbane, Australia, [2]Statistics Unit, QIMR Berghofer Medical Research Institute, Brisbane, Australia, [3]Faculty of Veterinary Science and Agricultural Sciences, The University of Melbourne, Melbourne, Australia, [4]Centre for Animal Biotechnology, The University of Melbourne, Melbourne, Australia

11:30 a.m. 711

ARTEMETHER-LUMEFANTRINE ANTIMALARIAL EFFICACY AMONG ADULTS ON ANTIRETROVIRAL THERAPY IN MALAWI

Jernelle C. Miller[1], Wongani Nyangulu[2], Randy G. Mungwira[3], Titus H. Divala[3], Nginache Nampota[3], Sunil Parikh[4], Joep J. Oosterhout[5], Matthew B. Laurens[6], Miriam K. Laufer[6]

[1]University of Maryland, School of Medicine, Baltimore, MD, United States, [2]Dignitas International, Zomba, Malawi, [3]Blantyre Malaria Project, University of Malawi, College of Medicine, Blantyre, Malawi, [4]Yale School of Public Health, Laboratory of Epidemiology and Public Health, New Haven, CT, United States, [5]Dignitas International and University of Malawi, College of Medicine, Blantyre, Malawi, [6]Malaria Research Program, Center for Vaccine Development and Global Health, University of Maryland, School of Medicine, Baltimore, MD, United States

11:45 a.m. 869

POPULATION-WIDE FALL IN SERIOUS BACTERIAL COMPLICATIONS FOLLOWING IVERMECTIN-BASED MASS DRUG ADMINISTRATION FOR SCABIES

Li Jun Thean[1], Lucia Romani[2], Daniel Engelman[1], Handan Wand[3], Adam Jenney[4], Jyotishna Mani[1], Jessica Paka[1], Tuliana Cua[1], Sera Taole[1], Aalisha Sahukhan[5], Mike Kama[5], Meciusela Tuicakau[5], Joseph Kado[5], Matthew Parnaby[1], Natalie Carvalho[6], Margot Whitfeld[7], John Kaldor[3], Andrew Steer[1]

[1]Murdoch Children's Research Institute, Melbourne, Australia, [2]Kirby Insitute, University of New South Wales, Sydney, Australia, [3]Kirby Institute, University of New South Wales, Sydney, Australia, [4]Fiji National University, Suva, Fiji, [5]Fiji Ministry of Health and Medical Services, Suva, Fiji, [6]School of Population and Global Health, University of Melbourne, Melbourne, Australia, [7]Department of Dermatology, St. Vincent's Hospital, Sydney, Australia

Noon 892

A NOVEL INSECT-SPECIFIC FLAVIVIRUS OFFERS A PROMISING PLATFORM FOR FLAVIVIRUS VACCINES THAT EMPHASIZE HIGH DEGREES OF SAFETY WITHOUT SACRIFICING IMMUNOGENICITY

Danielle L. Porier[1], Sarah N. Wilson[1], Dawn I. Auguste[1], Andrew Leber[2], James D. Weger-Lucarelli[1], Scott C. Weaver[3], Albert J. Auguste[1]

[1]Virginia Tech, Blacksburg, VA, United States, [2]Landos Biopharma Inc., Blacksburg, VA, United States, [3]University of Texas Medical Branch, Galveston, TX, United States

12:15 p.m. 993

EFFECTIVENESS OF ONE VERSUS TWO DOSE MASS DRUG ADMINISTRATION REGIMENS FOR THE CONTROL OF SCABIES

Susanna J. Lake[1], Daniel Engelman[1], Oliver Sokana[2], Dickson Boara[2], Titus Nasi[2], Julie Zinihite[3], Christina Gorae[2], Sophie L. Phelan[4], Millicent H. Osti[1], Tibor Schuster[1], Anneke C. Grobler[1], Ross Andrews[5], Margot J. Whitfeld[6], Michael Marks[7], Lucia Romani[4], Andrew C. Steer[1], John M. Kaldor[1]

[1]Murdoch Children's Research Institute, Melbourne, Australia, [2]Ministry of Health and Medical Services, Honiara, Solomon Islands, [3]Solomon Islands National University, Honiara, Solomon Islands, [4]The Kirby Institute, Sydney, Australia, [5]Australian National University, Canberra, Australia, [6]St Vincents Hospital, Sydney, Australia, [7]London School of Hygiene & Tropical Medicine, London, United Kingdom

12:30 p.m. 1138

EFFECTIVENESS AND SAFETY OF INTERMITTENT PREVENTIVE TREATMENT FOR MALARIA USING EITHER DIHYDROARTEMISININ-PIPERAQUINE OR ARTESUNATE-AMODIAQUINE IN REDUCING MALARIA RELATED MORBIDITIES AND IMPROVING COGNITIVE ABILITY IN SCHOOL-AGED CHILDREN IN TANZANIA: A CONTROLLED RANDOMIZED TRIAL

Geofrey Makenga[1], Vito Baraka[1], Filbert Fransis[1], Samwel Gesase[1], George Mtove[1], Rashidi Madebe[1], Edna Kyaruzi[2], Daniel T. Minja[1], John P. Lusingu[1], Jean-Pierre Van geertruyden[3]

[1]National Institute for Medical Research, Tanga, United Republic of Tanzania, [2]College of Education (DUCE), University of Dar es Salaam, Dar es salaam, United Republic of Tanzania, [3]Global Health Institute, University of Antwerp, Antwerp, Belgium

12:45 p.m. 1212

ENDOTHELIAL ACTIVATION IS REDUCED BY HYDROXYUREA THERAPY AND PREDICTS TRANSCRANIAL DOPPLER VELOCITY IN THE NOHARM STUDY: A PROSPECTIVE CLINICAL TRIAL OF HYDROXYUREA IN UGANDAN CHILDREN WITH SICKLE CELL ANEMIA

Thomas F. Siegert[1], Robert O. Opoka[2], Teresa Latham[3], Adam Lane[3], Russell E. Ware[4], Chandy C. John[5], Andrea Conroy[5]

[1]Division of Medicine-Pediatrics, Department of Pediatrics, The Warren Alpert Medical School of Brown University, Providence, RI, United States, [2]Department of Paediatrics and Child Health, Makerere University College of Health Sciences, Kampala, Uganda, [3]Cincinnati Children's Hospital Medical Center, University of Cincinnati College of Medicine, Cincinnati, OH, United States, [4]Division of Hematology, Department of Pediatrics, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, United States, [5]Department of Pediatrics, Ryan White Center for Pediatric Infectious Disease and Global Health, Indiana University School of Medicine, Indianapolis, IN, United States

1 p.m. 1342

NUTRITIONAL SUPPLEMENTATION COST-EFFECTIVELY DECREASES TUBERCULOSIS INCIDENCE AND MORTALITY IN INDIA: THE RATION OPTIMIZATION TO IMPEDE TUERCULOSIS (ROTI-TB) MODEL

Pranay Sinha[1], Subitha L. Lakshminaryanan[2], Chelsie Cintron[1], Prakash B. Narasimhan[2], Lindsey M. Locks[3], Nalin Kulatilaka[4], Kimberly Maloomian[5], Senbagavalli P. Babu[2], Madeline E. Carwile[1], Anne F. Liu[6], C. Robert Horsburgh, Jr.[7], Carlos Acuna-Villaorduna[1], Benjamin P. Linas[1], Natasha S. Hochberg[1]

[1]Boston Medical Center, Boston, MA, United States, [2]Jawaharlal Institute for Postgraduate Medical Education and Research, Puducherry, India, [3]Boston University College of Health & Rehabilitation Sciences, Boston, MA, United States, [4]Boston University Questrom School of Business, Boston, MA, United States, [5]Kimba's Kitchen, West Palm Beach, FL, United States, [6]Brigham and Women's Hospital, Boston, MA, United States, [7]Boston University School of Public Health, Boston, MA, United States

Young Investigator Award Session C

Young Investigator Award Room C
Wednesday, November 17
10 a.m. - 1 p.m. U.S. Eastern Time Zone

JUDGE

Lyric Bartholomay
University of Wisconsin-Madison, Madison, WI, United States

Stephen Davies
USUHS, Bethesda, MD, United States

David Diemert
George Washington University, Washington, DC, United States

Nadira Karunaweera
University of Colombo, Colmbo 8, Sri Lanka

Maria Simoes
Johns Hopkins University, Baltimore, MD, United States

10 a.m. 140

SPATIOTEMPORAL OVERLAPPING OF DENGUE, CHIKUNGUNYA, AND MALARIA INFECTIONS IN CHILDREN IN KENYA

Aslam Khan[1], Donal Bisanzio[2], Francis Mutuku[3], Bryson Ndenga[4], Zainab Jembe[5], Priscilla Maina[5], Philip Chebii[5], Charles Ronga[4], Laura Mwambingu[4], Victoria Okuta[4], Desiree LaBeaud[1]
[1]Department of Pediatrics, Division of Infectious Diseases, Stanford University, Stanford, CA, United States, [2]RTI International, Washington, DC, United States, [3]Department of Environment and Health Sciences, Technical University of Mombasa, Mombasa, Kenya, [4]Centre for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya, [5]Vector borne Disease control Unit, Msambweni County Referral hospital, Msambweni, Kenya

10:15 a.m. 224

HIGH PREVALENCE OF ASYMPTOMATIC MALARIAL ANEMIA AND ASSOCIATION WITH EARLY CLINICAL CONVERSION IN A *PLASMODIUM FALCIPARUM* HYPER-ENDEMIC SETTING IN CAMEROON

Balotin Fogang[1], Marie Florence Biabi[2], Rosette Megnekou[3], Franklin Maloba[4], Estelle Essangui[2], Christiane Donkeu[1], Glwadys Cheteug[2], Marie kapen[2], Rodrigue Keumoe[1], Sylvie Kemleu[2], Sandrine Nsango[2], Carole Eboumbou[2], Tracey Lamb[4], Lawrence Ayong[2]
[1]University of Yaounde I/Centre Pasteur Cameroon, Yaounde, Cameroon, [2]Centre Pasteur Cameroon, Yaounde, Cameroon, [3]University of Yaounde I, Yaounde, Cameroon, [4]University of Utah, Yaounde, UT, United States

10:30 a.m. 314

EFFICACY OF CDC LIGHT TRAP AND HUMAN DECOY TRAP (HDT) COMPARED TO HUMAN LANDING CATCH (HLC) FOR ESTIMATING MALARIA VECTOR BITING RATES IN RURAL TANZANIA

Isaac Haggai Namango[1], Carly Marshall[2], Frank Tenywa[3], Olukayode G. Odufuwa[3], Godfrey Ligema[3], Hassan Ngonyani[3], Isaya Matanila[3], Noely Makungwa[3], Jameel Zainul Bharmal[4], Jason Moore[3], David Kaftan[5], Adam Saddler[6], Amanda Ross[1], Sarah Moore[3], Manuel Hetzel[1]
[1]Swiss Tropical and Public Health Institute, Basel, Switzerland, [2]BC Centre for Excellence in HIV/AIDS, Vancouver, BC, Canada, [3]Ifakara Health Institute, Dar es Salaam, United Republic of Tanzania, [4]Innovative Vector Control Consortium, Dar es Salaam, United Republic of Tanzania, [5]Marquette University, Milwaukee, WI, United States, [6]Telethon Kids Institute, Perth, Australia

10:45 a.m. 647

RISK FACTORS FOR BORDER MALARIA IN A LOW TRANSMISSION SETTING: A CASE-CONTROL STUDY IN JAZAN, SAUDI ARABIA

Shaymaa A. Abdalal[1], Joseph Keating[1], Hassan M. Ozayr[2], Hussan A. Alkhayri[2]
[1]Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States, [2]Center of Vector Born disease , Public Health Department Ministry of Health, Jazan, Saudi Arabia

11 a.m. 828

EFFECTS OF A SCHOOL WATER, SANITATION, AND HYGIENE INTERVENTION ON CHILDREN'S NUTRITION, HYDRATION, HEALTH LITERACY, AND HANDWASHING: A MULTI-ARM CLUSTER-RANDOMIZED CONTROLLED TRIAL IN MANILA, PHILIPPINES

Stephanie O. Sangalang[1], Zheina Ottong[2], Allen Lemence[2], Shelley Medina[2], Shyrill Mariano[3], Nelissa Prado[2], Patricia Singson[4], Mylene Cayetano[5], Christian Borgemeister[1], Thomas Kistemann[6]
[1]Center for Development Research, University of Bonn, Bonn, Germany, [2]University of the Philippines, Diliman, Quezon City, Philippines, [3]Marine Science Institute, University of the Philippines, Diliman, Quezon City, Philippines, [4]Ateneo de Manila University, Quezon City, Philippines, [5]Institute of Environmental Science and Meteorology, University of the Philippines, Diliman, Quezon City, Philippines, [6]Institute for Hygiene and Public Health and Center for Development Research, University of Bonn, Bonn, Germany

11:15 a.m. 862

HIGH LEVELS OF EXTENDED SPECTRUM BETA-LACTAMASE (ESBL) CONTAMINATION ARE FOUND IN MALAWIAN HOUSEHOLDS WITH BASIC WATER, SANITATION AND HYGIENE (WASH) ACCESS

Derek Cocker[1], Kondwani Chidziwisano[2], Nicola Elviss[3], Andrew C. Singer[4], Tracy Morse[5], Nicholas Feasey[6]
[1]Malawi-Liverpool Wellcome Trust Center, Blantyre, Malawi, [2]Centre for Water, Sanitation, Health and Appropriate Technology Development (WASHTED), University of Malawi – The Polytechnic, Blantyre, Malawi, [3]National Infection Service, Public Health England, London, United Kingdom, [4]NERC Centre for Ecology & Hydrology, Wallingford, United Kingdom, [5]Department of Civil and Environmental Engineering, University of Strathclyde, Glasgow, United Kingdom, [6]Liverpool School of Tropical Medicine (LSTM), Liverpool, United Kingdom

11:30 a.m. 865

THE STATUS AND IMPACT OF WATER, SANITATION AND HYGIENE RESOURCES ON SOIL TRANSMITTED HELMINTHS IN OGUN STATE, NIGERIA: AN IMPETUS FOR DEVELOPING A CROSS-SECTORAL FRAMEWORK

Hammed O. Mogaji[1], Gabriel A. Dedeke[1], Babatunde S. Bada[1], Abass B. Adigun[2], Monday E. Johnson[3], Dorcas O. Adeaga[4], Uwem F. Ekpo[1]
[1]Federal University of Agriculture, Abeokuta, Nigeria, [2]National Center for Remote Sensing, Jos, Nigeria, [3]United Nations Children's Fund, Abuja, Nigeria, [4]Rural Water Supply and Sanitation Agency, Abeokuta, Nigeria

11:45 a.m. 919

IDENTIFICATION OF SNAILS AND SCHISTOSOMA OF MEDICAL IMPORTANCE VIA CONVOLUTIONAL NEURAL NETWORKS

Krti Tallam[1], Zac Yung-Chun Liu Y. Liu[1], Andrew J. Chamberlin[1], Isabel J. Jones[1], Pretom Shome[1], Gilles Riveau[2], Raphael A. Ndione[3], Lydie Bandagny[2], Nicolas Jouanard[2], Paul V. Eck[4], Ton Ngo[4], Susanne H. Sokolow[1], Giulio A. De Leo[1]
[1]Stanford University, Stanford, CA, United States, [2]2Centre de Recherche Biomédicale Espoir pour la Santé, Saint-Louis, Senegal, [3]Centre de Recherche Biomédicale Espoir pour la Santé, Saint-Louis, Senegal, [4]IBM Silicon Valley Lab, San Jose, CA, United States

Noon 991

IDENTIFICATION OF TICK-BORNERICKETTSIAIN COMMUNAL LANDS, RANCHES, AND PROTECTED AREAS OF ESWATINI

Kimberly J. Ledger, Samantha M. Wisely
University of Florida, Gainesville, FL, United States

12:15 p.m. 1307

REEMERGENCE OF YELLOW FEVER VIRUS IN SOUTHEASTERN BRAZIL, 2017-2018: WHAT SPARKED THE SPREAD?

Joelle Rosser[1], Karin Nielsen-Saines[2], Trevon Fuller[3]
[1]Stanford University, Stanford, CA, United States, [2]David Geffen UCLA School of Medicine, Los Angeles, CA, United States, [3]University of California, Los Angeles, Institute of the Environmental and Sustainability, Los Angeles, CA, United States

Young Investigator Award Session D

Young Investigator Award Room D
Wednesday, November 17
10 a.m. - 1 p.m. U.S. Eastern Time Zone

JUDGE

Vitaliano A Cama
CDC, Atlanta, GA, United States

Andrea Conroy
Indiana University School of Medicine, Indianapolis, IN, United States

Tracey Lamb
University of Utah, Salt Lake City, UT, United States

Mostafa Zamanian
University of Wisconsin-Madison, Madison, WI, United States

10 a.m. 180

MOLECULAR BARRIERS TO SARS-COV-2 REPLICATION IN BAT CELLS

Sophie-Marie Aicher[1], Felix Streicher[1], Maxime Chazal[1], Delphine Planas[2], Dongsheng Luo[3], Julian Buchrieser[2], Jordi Serra-Cobo[4], Dominique Pontier[5], Olivier Schwartz[2], Jiri Pikula[6], Laurent Dacheux[3], Nolwenn Jouvenet[1]
[1]Virus Signaling and Sensing Unit, Institut Pasteur Paris, Paris, France, [2]Virus and Immunity Unit, Institut Pasteur Paris, Paris, France, [3]Lyssavirus Epidemiology and Neuropathology Unit, Institut Pasteur Paris, Paris, France, [4]Department of Evolutionary Biology, Ecology and Environmental Sciences, Biodiversity Research Institute (IRBIO), University of Barcelona, Barcelona, Spain, [5]University Lyon, Université Lyon 1, CNRS, Laboratoire de Biométrie et Biologie Evolutive UMR5558, Villeurbanne, France, [6]Department of Ecology and Diseases of Game, Fish and Bees, University of Veterinary and Pharmaceutical Sciences Brno, Brno, Czech Republic

10:15 a.m. 193

DIFFERENCES BETWEEN ORTHOLOGOUS GENES OF RODENT AND HUMAN MALARIA PARASITES IN THEIR ROLE DURING SPOROZOITE FORMATION

Catherin Y. Marin Mogollon[1], Shinya Miyazaki[2], Magali Roques[3], Yukiko Miyazaki[4], Fiona J. Geurten[1], Severine Chevalley-Maurel[1], Hans Kroeze[1], Jai Ramesar[1], Volker Heussler[3], Chris J. Janse[1], Blandine MD Franke-Fayard[1]
[1]Leiden University Medical Center, Leiden, Netherlands, [2]Institute of Tropical Medicine (NEKKEN), Nagasaki, Japan, [3]Institute of Cell Biology, University of Bern, Bern, Switzerland, [4]Institute of tropical Medicine (NEKKEN), Nagasaki, Japan

10:30 a.m. 248

UNDERSTANDING RESIDUAL *PLASMODIUM FALCIPARUM* TRANSMISSION IN ZANZIBAR THROUGH MULTIPLEXED AMPLICON DEEP SEQUENCING

Aurel Holzschuh[1], Anita Lerch[1], Bakar S. Fakih[2], Logan Stuck[3], Abdul-wahid H. Al-mafazy[4], Abdullah Ali[5], Manuel W. Hetzel[6], Joshua Yukich[3], Cristian Koepfli[1]
[1]University of Notre Dame, Notre Dame, IN, United States, [2]Ifakara Health Institute, Dar es Salaam, United Republic of Tanzania, [3]Tulane University, New Orleans, LA, United States, [4]Research Triangle Institute (RTI) International, Zanzibar, United Republic of Tanzania, [5]Zanzibar Malaria Elimination Programme, Zanzibar, United Republic of Tanzania, [6]Swiss Tropical and Public Health Institute, Basel, Switzerland

10:45 a.m. 410

DELETIONS OF *PLASMODIUM FALCIPARUM* PFHRP2 AND PFHRP3 GENES FROM PERSONS PRESENTING TO HEALTH FACILITIES IN THE DEMOCRATIC REPUBLIC OF THE CONGO, ETHIOPIA, KENYA, MADAGASCAR, AND RWANDA, 2016-2018

Jessica N. McCaffery[1], Eric Rogier[1], Douglas Nace[1], Samaly Souza Svigel[1], Camelia Herman[1], Ashenafi Assefa[2], Jimee Hwang[1], Simon Kariuki[3], Aaron Samuels[1], Arsene Ratsimbasoa[4], Milijaona Randrianarivelojosia[5], Aline Uwimana[6], Papy Mandoko Nkoli[7], Gauthier Mesia Kahunu[8], Venkatachalam Udhayakumar[1], Eric S. Halsey[1]
[1]Malaria Branch, Division of Parasitic Diseases and Malaria, Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Ethiopia Public Health Institute, Addis Ababa, Ethiopia, [3]Kenya Medical Research Institute, Nairobi, Kenya, [4]Madagascar National Malaria Control Program, Antananarivo, Madagascar, [5]Institut Pasteur de Madagascar, Antananarivo, Madagascar, [6]Malaria and Other Parasitic Division, Institute of HIV/AIDS, Disease Prevention & Control, Rwanda Biomedical Center, Kigali, Rwanda, [7]National Institute of Biomedical Research, Kinshasa, Democratic Republic of the Congo, [8]Department of Pharmacology & Therapeutics, Kinshasa, Democratic Republic of the Congo

11 a.m. 457

FUNCTIONAL GENETICS TO CHARACTERIZE THE *PLASMODIUM FALCIPARUM* ACETYL-COA SYNTHETASE AND DISCOVER TARGET-SPECIFIC INHIBITORS

Charisse Flerida A. Pasaje[1], Robert L. Summers[2], Amanda K. Lukens[2], Manu Vanaerschot[3], James Murithi[3], Thomas Hollin[4], Steven Abel[4], Madeline R. Ruth[5], Sabine Ottilie[5], Cyrille Botté[6], Elizabeth A. Winzeler[5], Karine Le Roch[4], David A. Fidock[3], Dyann F. Wirth[2], Jacquin C. Niles[1]
[1]Massachusetts Institute of Technology, Cambridge, MA, United States, [2]Harvard T.H. Chan School of Public Health, Boston, MA, United States, [3]Columbia University Irving Medical Center, New York, New York, NY, United States, [4]University of California, Riverside, Riverside, CA, United States, [5]University of California, San Diego, San Diego, CA, United States, [6]Institute for Advanced Biosciences, Université Grenoble Alpes, Grenoble, France

11:15 a.m. 853

THE IMPORTANCE OF THE PARASITE PROTEASOME IN ARTEMISININ RESPONSE

Melissa Rosenthal, Caroline Ng
University of Nebraska Medical Center, Omaha, NE, United States

11:30 a.m. 1049

QUANTIFICATION OF THE SPOROZOITE INOCULUM FROM MOSQUITOES WITH HIGH AND LOW SALIVARY GLAND LOADS

Deborah Stiffler[1], Maya Aleshnick[2], Photini Sinnis[1]
[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]Oregon Health and Science University, Beaverton, OR, United States

11:45 p.m. 1165

A NOVEL PHYSIOLOGICAL MODEL TO STUDY P. FALCIPARUM INTERACTIONS IN PLACENTAL MALARIA

Rebecca Reif, Sumaiyah Shaha, Yuliya Fakhr, Catherine Mitran, Madeleine Wiebe, Denise Hemmings, Stephanie Yanow
University of Alberta, Edmonton, AB, Canada

Noon 1198

PILOT RETROSPECTIVE MOLECULAR DIAGNOSIS OF NEGATIVE GENEXPERT AND AFB SPUTA OF TB SYMPTOMATIC PATIENTS IN MANILA PHILIPPINES

Crespoo Mbe-cho Ndiabamoh
Biotechnology Center, Yaounde Cameroon, Cameroon

Young Investigator Award Session E

Young Investigator Award Room D
Wednesday, November 17
10 a.m. - 1 p.m. U.S. Eastern Time Zone

JUDGE

Sasisekhar Bennuru
NIH, Bethesda, MD, United States

Sara Healy
NIH/NIAID, Bethesda, MD, United States

Michael Iroezindu
United States Army Medical Research Directorate-Africa/Nigeria, Abuja, Nigeria

Nathan Schmidt
Indiana University School of Medicine, Indianapolis, IN, United States

10 a.m. 111

SEROPREVALENCE OF SPOTTED FEVER GROUP AND TYPHUS GROUP RICKETTSIAE IN THREE INDIGENOUS COMMUNITIES OF THE PERUVIAN AMAZON

Maria Alejandra Caravedo, Miguel Cabada, Lucas Blanton
University of Texas Medical Branch, Galveston, TX, United States

10:15 a.m. 142

PERFORMANCE OF AN ANTIBODY-BASED RAPID DIAGNOSTIC TEST FOR CHIKUNGUNYA AMONG FEBRILE PATIENTS IN RIO DE JANEIRO, BRAZIL- A PROSPECTIVE, DIAGNOSTIC ACCURACY STUDY

José Moreira[1], Janaina Barros[1], Karen Trinta[2], Leticia Fernandez-Carballo[3], Camille Escadafal[3], Patricia Brasil[1], Sabine Dittrich[3], André M. Siqueira[1]
[1]Instituto Nacional de Infectologia Evandro Chagas, Rio de Janeiro, Brazil, [2]Bio-Manguinhos, Rio de Janeiro, Brazil, [3]Foundation for Innovative New Diagnostics, Geneva, Switzerland

10:30 a.m. 155

EPITOPE BIOMARKERS FOR THE DETECTION OF ANTI-DENGUE ANTIBODIES IN HUMAN SERA

Francesca Falconi-Agapito[1], Karen Kerkhof[1], Marjan Van Esbroeck[2], Xiomara Merino[3], Michael Talledo[3], Kevin A. Ariën[1]
[1]Department of Biomedical Sciences, Unit of Virology, Institute of Tropical Medicine, Antwerp, Belgium, [2]Department of Clinical Sciences, National Reference Center for Arboviruses, Institute of Tropical Medicine, Antwerp, Belgium, [3]Virology Unit, Instituto de Medicina Tropical Alexander von Humboldt, Universidad Peruana Cayetano Heredia, Lima, Peru

10:45 a.m. 165

NEUTRALIZING AND ENHANCING EFFECTS OF DENGUE ANTIBODIES IN INDIVIDUALS OVER TIME WITH DIFFERENT DISEASE OUTCOMES

Hoa Thi My Vo, Vinit Upasani, Heidi Auerswald, Sokchea Lay, Axelle Vanderlinden, Sopheak Sorn, Sowath Ly, Veasna Duong, Philippe Dussart, Tineke Cantaert
Institut Pasteur du Cambodge, Phnom Penh, Cambodia

11 a.m. 181

SEROPREVALENCE OF RIFT VALLEY FEVER VIRUS IN URBAN KENYA: A POTENTIAL PUBLIC HEALTH BURDEN HIDING IN PLAIN SIGHT

Keli N. Gerken[1], Eleonora Migliore[1], Said Malumbo[2], Karren N. Shaita[3], Gladys Agola[3], Eduardo Fabre[1], Francis Mutuku[4], Bryson Ndenga[3], A. Desiree LaBeaud[1]
[1]Stanford University School of Medicine, Stanford, CA, United States, [2]Vector borne Disease Unit, Msambweni Hospital, Msambweni, Kenya, [3]Kenya Medical Research Institute (KEMRI), Kisumu, Kenya, [4]Technical University of Mombasa, Mombasa, Kenya

11:15 a.m. 595

EVALUATION AND APPLICATION OF NOVEL SEROLOGIC TOOLS FOR ASSESSING ZIKA VIRUS SPECIFIC IMMUNITY FOR SURVEILLANCE AND TRANSLATIONAL RESEARCH

Teresa C. Smith[1], Daniel O. Espinoza[2], Yerun Zhu[2], Sylvia Becker-Dreps[3], Natalie M. Bowman[4], Srilatha Edupuganti[2], Alfonso J. Rodriguez-Morales[5], Jaime A. Cardona-Ospina[5], Filemon Bucardo[6], Aravinda M. de Silva[7], Matthew H. Collins[2]
[1]Rollins School of Public Health, Emory University, Atlanta, GA, United States, [2]The Hope Clinic of the Emory Vaccine Center, Division of Infectious Diseases, Emory University, Decatur, GA, United States, [3]Department of Family Medicine and Epidemiology, School of Medicine, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [4]Division of Infectious Diseases, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [5]Facultad de Medicina, Fundación Universitaria Autónoma de Las Américas, Pereira, Risaralda, Colombia, [6]Department of Microbiology, Faculty of Medical Science, National Autonomous University of Nicaragua, León (UNAN-León), León, Nicaragua, [7]Department of Microbiology and Immunology, School of Medicine, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

11:30 a.m. 600

FLAVIVIRUS SEROPREVALENCE AND CONTINUOUS TRANSMISSION OF WEST NILE VIRUS AMONG FEMALE SEX WORKERS IN SENEGAL BETWEEN 1991 AND 1999

Samantha Gabrielle Morgan[1], Wen-Yang Tsai[1], Szu-Chia Hsieh[1], Donald J. Hamel[2], Phyllis Kanki[2], Wei-Kung Wang[1]
[1]Department of Tropical Medicine, Medical Microbiology and Pharmacology, John A. Burns School of Medicine, University of Hawaii at Manoa, Honolulu, HI, United States, [2]Department of Immunology and Infectious Diseases, Harvard T.H. Chan School of Public Health, Boston, MA, United States

11:45 a.m. 611

CHARACTERIZING THE HUMORAL RESPONSE OF A RECOMBINANT SUBUNIT EBOLA VIRUS VACCINE IN NON-HUMAN PRIMATES

Aquena Ball, Teri Wong, Chih-Yun Lai, Albert To, Axel Lehrer
University of Hawaii at Manoa, Honolulu, HI, United States

Noon 890

IMMUNE CORRELATES OF PROLONGED ZIKA VIRUS SHEDDING IN HUMAN SEMEN

Megan B. Vogt[1], Erin M. McDonald[2], Mark Delorey[2], Paul S. Mead[2], Sarah A. Hook[2], Alison F. Hinckley[2], Aaron C. Brault[2], Nisha K. Duggal[1]
[1]Virginia Polytechnic Institute and State University, Blacksburg, VA, United States, [2]Centers for Disease Control and Prevention National Center for Emerging and Zoonotic Infectious Diseases, Fort Collins, CO, United States

12:15 p.m. 1295

MONOMERIC IGA1 ANTAGONIZES IGG1-MEDIATED ENHANCEMENT OF DENV-3 INFECTION *IN VITRO*

Adam Wegman[1], HengSheng Fang[1], Heather Friberg[2], Gregory Gromowski[2], Jeffrey Currier[2], Alan Rothman[3], Stephen Thomas[1], Timothy Endy[1], Adam Waickman[1]
[1]SUNY Upstate Medical University, Syracuse, NY, United States, [2]Walter Reed Army Institute of Research, Silver Spring, MD, United States, [3]University of Rhode Island, Kingston, RI, United States

12:30 p.m. 1323

PREDICTING FUTURE COMMUNITY-LEVEL OCULAR CHLAMYDIA TRACHOMATIS INFECTION PREVALENCE USING SEROLOGICAL, CLINICAL, MOLECULAR AND GEOSPATIAL DATA

Christine Tedijanto[1], Solomon Aragie[2], Zerihun Tadesse[2], Mahteme Haile[3], Taye Zeru[3], Scott D. Nash[4], Dionna M. Wittberg[1], Hugh J. Sturrock[5], Thomas M. Lietman[1], Jeremy D. Keenan[1], Benjamin F. Arnold[1]
[1]Francis I. Proctor Foundation, University of California San Francisco, San Francisco, CA, United States, [2]The Carter Center Ethiopia, Addis Ababa, Ethiopia, [3]Amhara Public Health Institute, Bahir Dar, Ethiopia, [4]The Carter Center, Atlanta, GA, United States, [5]Locational, Poole, United Kingdom

Clinical Research Award Session

Clinical Research Award Room
Wednesday, November 17
Noon - 3 p.m. U.S. Eastern Time Zone

The ACCTMTH Clinical Research Award recognizes excellence in clinically-oriented research presented by a student (within six months of completing undergraduate or master's level training, including medical undergraduate degrees) or person in graduate medical training at the Annual Meeting.

CHAIR

Obinna Nnaemeka Nnedu
Ochsner Clinic Foundation, New Orleans, LA, United States

JUDGES

Miguel Cabada
University of Texas Medical Branch, Galveston, TX, United States

German Henostroza
University of Alabama, Birmingham, AL, United States

Kristina Krohn
University of Minnesota, Roseville, MN, United States

Eva Rawlings Parker
Vanderbilt University Medical Center, Nashville, TN, United States

Bryan N Tegomoh
University of Yaounde I Medical School, Cameroon, Yaounde, Cameroon

Latha Rajan
Tulane University, New Orleans, LA, United States

Noon 173

SEROLOGICAL EVIDENCE OF LOW PATHOGENIC AVIAN INFLUENZA SEROTYPE H9 IN LIVE BIRD MARKETS, JOS, PLATEAU STATE NIGERIA

David A. Abiayi, Gbeminiyi R. Otolorin, Clement A. Meseko, Asabe D. Emennaa
University of Jos, plateau state, Nigeria, Jos, Nigeria

12:15 p.m. 1382

RELATIONSHIP OF GALECTIN-3 BIOMARKER FOR CLINICAL OUTCOMES IN A CHAGAS DISEASE COHORT FROM A BRAZILIAN ENDEMIC REGION

Carlos H. Moreira[1], Fabio F. Fernandes[2], Lea C. De Oliveira[1], Ana L. Bierrenbach[1], Clareci Cardoso[3], Claudia Di Lorenzo[4], Ariela M. Ferreira[5], Thallyta M. Vieira[6], Renata F. Damasceno[5], Desiree S. Haikal[5], Nayara D. Quintino[3], Maria do Carmo Nunes[7], Antonio Luiz Riberio[6], Ester C. Sabino[1]
[1]Instituto de Medicina Tropical, São Paulo, Brazil, [2]Instituto do Coracao, São Paulo, Brazil, [3]Universidade Federal de Sao Joao Del Rei, Sao Joao Del Rei, Brazil, [4]University of Sao Joao Del Rei, Sao Joao Del Rei, Brazil, [5]Universidade Estadual de Montes Claros, Montes Claros, Brazil, [6]Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, [7]Universidade Federal de Minas Gerais - UFMG, Minas Gerais, Brazil

12:30 p.m. 778

THE HEART OF THE MATTER: CARDIAC MANIFESTATIONS OF CHAGAS DISEASE AT A TROPICAL MEDICINE CLINIC IN BOSTON

Katherine Anne Reifler[1], Samantha Hall[2], Davidson H. Hamer[2], Deepa Gopal[3], Alyse Wheelock[4], Alejandra Salazar[5], Jim Gomes[5], Natasha S. Hochberg[4]
[1]Boston Medical Center Department of Internal Medicine, Boston, MA, United States, [2]Boston University School of Public Health, Boston, MA, United States, [3]Boston Medical Center Section of Cardiology, Boston, MA, United States, [4]Boston Medical Center Section of Infectious Disease, Boston, MA, United States, [5]Boston Medical Center for Infectious Diseases, Boston, MA, United States

12:45 p.m. 1378

DEVELOPMENT OF A LATERAL FLOW ASSAY FOR NEUROLOGICAL TOXOPLASMOSIS

Hannah E. Steinberg[1], Amanda Haymond[2], Andrea Diestra[3], Catherine Apaza[3], Marilly Donayre Urquizo[4], Lilia Cabrera[5], Freddy Tinajeros[5], Viviana Pinedo Cancino[4], Lastenia Ruiz[4], Cesar Ramal[6], Weidong Zhou[2], Paul Russo[2], Lance Liotta[2], Nancy E. Freitag[1], Natalie M. Bowman[7], Vernon Carruthers[8], Maritza Calderon[3], Alessandra Luchini[2], Robert H. Gilman[9]
[1]University of Illinois, Chicago, Chicago, IL, United States, [2]George Mason University, Fairfax, VA, United States, [3]Universidad Peruana Cayetano Heredia, Lima, Peru, [4]Universidad Nacional de la Amazonía Peruana, Iquitos, Peru, [5]AB Prisma, Lima, Peru, [6]Hospital Regional de Loreto, Iquitos, Peru, [7]University of North Carolina, Chapel Hill, NC, United States, [8]University of Michigan, Ann Arbor, MI, United States, [9]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

1 p.m. 552

SEASONAL ABUNDANCE AND INSECTICIDE RESISTANCE STATUS OFAEDES MOSQUITOES IN GHANA

Christopher Mfum Owusu-Asenso[1], Julius A. Mingle[1], David Weetman[2], Yaw A. Afrane[1]
[1]University of Ghana, Accra, Ghana, [2]Liverpool School of Tropical Medicine, Liverpool, United Kingdom

1:15 p.m.
BREAK

1:30 p.m. 159

CORRELATION OF THROMBOCYTOPENIA WITH GALL BLADDER WALL THICKNESS: A PREDICTIVE ANALYSIS FOR BLEEDING RISK AND NEED OF PLATELET TRANSFUSION IN DENGUE INFECTION

Muhammad Sohaib Asghar, Saira Anwar, Farah Yasmin
Dow University of Health Sciences, Karachi, Pakistan

1:45 p.m. 1198

PILOT RETROSPECTIVE MOLECULAR DIAGNOSIS OF NEGATIVE GENEXPERT AND AFB SPUTA OF TB SYMPTOMATIC PATIENTS IN MANILA PHILIPPINES

Crespoo Mbe-cho Ndiabamoh
Biotechnology Center, Yaounde, Cameroon

2 p.m. 773

ADDRESSING ACUTE FEBRILE ILLNESS AMONG NON-SEVERE PATIENTS IN RIO DE JANEIRO, BRAZIL: A PROSPECTIVE STUDY

José Moreira[1], Leticia Fernandez-Carballo[2], Camille Escadafal[2], Patricia Brasil[1], Sabine Dittrich[2], André M. Siqueira[1]
[1]Instituto Nacional de Infectologia Evandro Chagas, Rio de Janeiro, Brazil, [2]Foundation for Innovative New Diagnostics, Geneva, Switzerland

2:15 p.m. 364

PREVALENCE OF CERVICAL DYSPLASIA BY VISUAL INSPECTION ACETIC ACID (VIA) IS INCREASED IN WOMEN WITH FEMALE GENITAL SCHISTOSOMIASIS; A CROSS-SECTIONAL STUDY IN ZAMBIA

Hannah Rafferty[1], Amy Sturt[1], Comfort Rutty Phiri[2], Emily Webb[1], Maina Mudenda[3], Joyce Mapani[3], Namakau Chola[2], Paul Corstjens[4], Govert Van Damm[5], Lisette Van Lieshout[5], Richard Hayes[1], Helen Ayles[1], Hansingo Isaiah[3], Amaya L. Bustinduy[1]
[1]London School of Hygiene &Tropical Medicine, London, United Kingdom, [2]Zambart, Lusaka, Zambia, [3]Livingstone Central Hospital, Livingstone, Zambia, [4]Leiden Medical Center, London, Netherlands, [5]Leiden Medical Center, Leiden, Netherlands

2:30 p.m. 1265

FEMALE GENITAL SCHISTOSOMIASIS AND HIV-1 INCIDENCE IN ZAMBIAN WOMEN: A RETROSPECTIVE COHORT STUDY

Amy S. Sturt[1], Emily L. Webb[1], Comfort R. Phiri[2], Maina Mudena[3], Joyce Mapani[4], Barry Kosloff[2], Maina Cheeba[2], Kwame Shanaube[2], Justin Bwyala[5], Eyrun F. Kjetland[6], Suzanna C. Francis[1], Paul L. Corstjens[7], Govert J. van Dam[7], Lisette van Lieshout[7], Isaiah Hansingo[4], Helen Ayles[2], Richard J. Hayes[1], Amaya L. Bustinduy[1]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]Zambart, Lusaka, Zambia, [3]Livingstone Central Hospital, Lusaka, Zambia, [4]Livingstone Central Hospital, Livingstone, Zambia, [5]Zambart, Livingstone, Zambia, [6]Oslo University Hospital, Oslo, Norway, [7]Leiden University Medical Center, Leiden, Netherlands

Plenary Session 1:

Plenary Session I: Opening Plenary Session and Awards Program

Grand Ballroom
Wednesday, November 17
5:30 p.m. - 7 p.m. U.S. Eastern Time Zone

CHAIR
Julie Jacobson
Bridges to Development, Seattle, WA, United States

5:30 p.m.
WELCOMING REMARKS
Christine Petersen
University of Iowa, Iowa City, IA, United States

5:40 p.m.
WELCOMING REMARKS

Tedros Adhanom Ghebreyesus, PhD
Director-General
World Health Organization
Geneva, Switzerland

Dr. Tedros Adhanom Ghebreyesus was elected WHO Director-General for a five-year term by WHO Member States at the Seventieth World Health Assembly in May 2017. In doing so, he was the first WHO Director-General elected from among multiple candidates by the World Health Assembly, and was the first person from the WHO African Region to head the world's leading public health agency. Born in the Eritrean city of Asmara, Dr. Tedros graduated from the University of Asmara with a Bachelor of Biology, before earning a Master of Science (MSc) in Immunology of Infectious Diseases from the University of London, a Doctorate of Philosophy (PhD) in Community Health from the University of Nottingham and an Honorary Fellowship from the London School of Hygiene & Tropical Medicine. Following his studies, Dr. Tedros returned to Ethiopia to support the delivery of health services, first working as a field-level malariologist, before heading a regional health service and later serving in Ethiopia's federal government for over a decade as Minister of Health and Minister of Foreign Affairs.

As Minister of Health from 2005 to 2012, he led a comprehensive reform of the country's health system, built on the foundation of universal health coverage and provision of services to all people, even in the most remote areas. Under his leadership, Ethiopia expanded its health infrastructure, developed innovative health financing mechanisms, and expanded its health workforce. A major component of reforms he drove was the creation of a primary health care extension programme that deployed 40 000 female health workers throughout the country. A significant result was an approximate 60% reduction in child and maternal mortality compared to 2000 levels. As Minister of Foreign Affairs from 2012 to 2016, he elevated health as a political issue nationally, regionally and globally. In this role, he led efforts to negotiate the Addis Ababa Action Agenda, in which 193 countries committed to the financing necessary to achieve the Sustainable Development Goals.

Prior to his election as Director-General of WHO, Dr Tedros held many leadership positions in global health, including as Chair of the Global Fund to Fight AIDS, Tuberculosis, and Malaria, Chair of the Roll Back Malaria Partnership, and Co-chair of the Partnership for Maternal, Newborn and Child Health Board. After taking office as WHO Director-General on 1 July 2017, Dr. Tedros initiated the most significant transformation in the Organization's history, which has generated a wide range of achievements.

5:45 p.m.

AWARDS PROGRAM

Presiding Officer: **Julie Jacobson**
Bridges to Development, Seattle, WA, United States

Recognition of ASTMH/BMGF Annual Meeting Travel Awards

Recognition of Presidents' Challenge Travel Awards

Recognition of Burroughs Wellcome Fund - ASTMH Postdoctoral Fellowship in Tropical Infectious Diseases

Recognition of Young Investigator Awards

Recognition of ASTMH Fellowship and Grant Recipients

Recognition of 2021 Fellows of ASTMH (FASTMH)

Recognition of ASTMH Distinguished International Fellows

Qin Cheng
Australian Defence Force Malaria and Infectious Disease Institute, Brisbane, QLD, Australia

Abdoulaye Djimde
MRTC-USTTB, Bamako, Mali

Oumar Gaye
University Cheikh Anta Diop, Dakar, Senegal

Esper Kallas
University of Sao Paulo, Sao Paulo, Brazil

John Mackenzie
Curtin University of Technology, Malvern, VIC, Australia

Didier Menard
Institut Pasteur, Paris, France

Paul Newton
Mahosot Hospital, Vientiane, Laos

Peter Piot
London School of Hygiene & Tropical Medicine, London, United Kingdom

2021 ALAN J. MAGILL FELLOW
Tshokey Tshokey
Jigme Dorji Wangchuck National Referral Hospital, Thimphu, Bhutan

Subgroup Medals and Awards

HARRY HOOGSTRAAL MEDAL (ACME)

WILLIAM TRAGER AWARD FOR BASIC PARASITOLOGY (ACMCIP)

MARTIN S. WOLFE MENTORING AWARD (ACCTMTH)

SCHERER-HARDY AWARD (ACAV)

Society-Level Medals and Awards

COMMUNICATIONS AWARD
Amy Maxmen
Nature

BAILEY K. ASHFORD MEDAL
Natasha Hochberg
Boston Medical Center, United States

Makedonka Mitreva
Washington University of St. Louis, School of Medicine, United States

CLARA SOUTHMAYD LUDLOW MEDAL
Rose Fomban Leke
The Biotechnology Centre, University of Yaounde I, Cameroon

JOSEPH AUGUSTIN LEPRINCE MEDAL
Abdoulaye Djimde
MRTC-USTTB, Mali

DONALD MACKAY MEDAL
Philip Thuma
Macha Research Trust, United States

WALTER REED MEDAL
Dyann Wirth
Harvard T.H. Chan School of Public Health, United States

Thursday, November 18

ASTMH Information Desk

Lobby
Thursday, November 18
7 a.m. - 7 p.m. U.S. Eastern Time Zone

Exhibit Hall

Visit the Exhibit Hall to view the schedule for each exhibit booth and connect with our exhibitors and learn about their products and services

Press Room

The ASTMH media team is available for assistance at the following:

- Bridget DeSimone, **bdesimone@burness.com**
  tel: +1 202-468-0766
- Preeti Singh **psingh@burness.com**
  tel: +1 703-862-2515
- Anna Chen, **achen@burness.com**
  tel: +1 215-262-7670

Review research highlights and more:
https://astmhpressroom.wordpress.com/annual-meeting-2021/

Symposium 2

Break on Through: New Technologies to Defeat Ancient Diseases

Meeting Room 1
Thursday, November 18
8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

In the context of global health and particularly tropical medicine, technology can create a bridge, linking the hardest to reach people with diagnostics, treatment, and a more equitable future. Medical technology is rapidly expanding, but we have not sufficiently capitalized on these capabilities to maximize care delivery in remote areas. In the era of COVID-19, we have adapted our way of implementing tropical medicine interventions and have focused on how to ensure quality in absence of the traditional approach of expert supervision. Technology has provided an opportunity to continue providing services while also decentralizing the expertise by putting the tools into the hands of those who live and work in the communities most afflicted and strengthening local capacity and the global tropical medicine workforce. The proposed symposium is organized around experiences in using novel technologies in Sub-Saharan Africa. The speakers will highlight how they have used technology to scale tropical medicine intervention and discuss the cost/benefit of implementing these novel technologies in their particular environments. The

symposium will begin with a presentation of a novel smartphone-based image recognition app and its usefulness in identifying trachomatous trichiasis (TT) in Mozambique. Second, presenters will describe how geographic information system (GIS) analyses of satellite imagery have been used for planning onchocerciasis prevention and treatment in Cameroon. Next, the symposium will discuss the Country Health Information Platform (CHIP) pilot, which relies on integrating business intelligence software with the ESPEN NTD portal to create country-level, user-friendly dashboards for 5 PC-NTDs relying only on official data. Finally, presenters will describe the application of Smart Eye Camera (SEC); a smartphone slit-lamp attachment used for diagnosing eye diseases in Malawi.

CHAIR

Scott McPherson
RTI International, Durham, NC, United States

Emily Gower
University of North Carolina, Chapel Hill, NC, United States

8 a.m.
INTRODUCTION

8:10 a.m.
THE CREATION AND PILOT OF AN IMAGE RECOGNITION ALGORITHM AND APP FOR TT CASE IDENTIFICATION IN MOZAMBIQUE

Marilia Massangaje
Mozambique Ministry of health, Maputo, Mozambique

8:30 a.m.
GIS ANALYSIS OF SATELLITE IMAGERY FOR PLANNING ONCHOCERCIASIS PREVENTION AND TREATMENT IN SEMI-NOMADIC POPULATIONS IN CAMEROON

Alexandre Chailloux
Sightsavers, Haywards Heath, United Kingdom

8:50 a.m.
CHIPS: PULLING NTD LONGITUDINAL DATA INTO AN INTERACTIVE DASHBOARD

Alex Pavluck
Sightsavers, Haywards Heath, NC, United Kingdom

9:10 a.m.
THE APPLICATION OF A SMARTPHONE SLIT-LAMP ATTACHMENT FOR DIAGNOSING EYE DISEASES IN MALAWI

Khumbo Kalua
Blantyre Institute for Community Outreach Lions Sight First Eye Hospital, Blantyre Malawi, Blantyre, Malawi

Scientific Session 3

Viral Hemorrhagic Fevers

Meeting Room 2
Thursday, November 18
8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

CHAIR

Placide K. Mbala
Institut National de Recherche Biomedicale, Los Angeles, CA, United States

Mirjam Groger
Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany

8 a.m. 1

PHARMACOKINETIC PROPERTIES OF THE IRRUA-RIBAVIRIN-REGIMEN IN THE TREATMENT OF LASSA FEVER IN NIGERIA - A PROSPECTIVE OBSERVATIONAL STUDY

Mirjam Groger[1], Cyril Oshomah Erameh[2], Osahogie Isaac Edeawe[2], Christine J. Kleist[3], Sophie Duraffour[4], Lisa Oestereich[4], Julia Hinzmann[4], Femi Oluwasola Babatunde[5], Joy Nwatuzor[5], Jonas Müller[4], Mette Hinrichs[4], Meike Pahlmann[4], Christine Wagner[1], Francisca Naana Sarpong[1], Till Koch[1], Gloria Eifediyi[2], Ephraim Ogbaini-Emovon[2], Sylvanus Okogbenin[2], Sebastian G. Wicha[3], Stephan Günther[4], Michael Ramharter[1], Peter Ehizokhale Akhideno[2]

[1]Department of Tropical Medicine, Bernhard Nocht Institute for Tropical Medicine & I. Department of Medicine University Medical Center Hamburg-Eppendorf, Hamburg, Germany, [2]Institute of Lassa Fever Research and Control, Irrua Specialist Teaching Hospital, Irrua, Nigeria, [3]Department of Clinical Pharmacy, Institute of Pharmacy, University of Hamburg, Hamburg, Germany, [4]Department of Virology, Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany, [5]Institute of Lassa Fever Research and Control, Irrua Specialist Teaching Hospital, Hamburg, Germany

8:10 a.m. 2

EBOLA TRANSMISSION INITIATED BY RELAPSE OF SYSTEMIC EBOLA VIRUS DISEASE

Placide K. Mbala[1], Catherine Pratt[2], Ruffin M. Mbusa[3], Matthias G. Pauthner[4], Faustin Bile[5], Antoine N. Nkuba[1], Allison Black[6], Eddy L. Kinganda[1], Martin Faye[7], Adrienne A. Amuri[1], Moussa M. Diagne[7], Daniel Mukadi[1], Bailey White[2], James Hadfield[6], Karthik Gangavarapu[4], Nella Bisento[1], Donatien Kazadi[1], Bibiche Nsunda[1], Marceline Akonga[1], Olivier Tshiani[1], John Misasi[8], Aurelie Ploquin[8], Victor Epaso[5], Emilia Sana-Paka[5], Yannick Tutu Tshia N'kasar[5], Fabrice Mambu[9], Francois Edidi[9], Meris Matondo[9], Junior Bula Bula[9], Boubacar Diallo[10], Mory Keita[10], Marie R. Belizaire[10], Ibrahima S. Fall[10], Abdoulaye Yam[10], Sabue Mulangu[1], Anne W. Rimoin[11], Elias Salfati[4], Ali Torkamani[4], Marc A. Suchard[12], Ian Crozier[13], Lisa Hensley[14], Andrew Rambaut[15], Ousmane Faye[7], Amadou Sall[7], Nancy J. Sullivan[8], Trevor Bedford[6], Kristian G. Andersen[4], Michael R. Wiley[2], Steve Ahuka-Mundeke[1], Jean-Jacques T. Muyembe[1]

[1]Institut National de Recherche Biomedicale, Kinshasa, Democratic Republic of the Congo, [2]University of Nebraska Medical Center, Omaha, NE, United States, [3]International Medical Corps, Los Angeles, CA, United States, [4]The Scripps Research Institute, La Jolla, CA, United States, [5]Ministry of Health, Kinshasa, Democratic Republic of the Congo, [6]Fred Hutchinson Cancer Research Center, Seattle, WA, United States, [7]Institut Pasteur de Dakar, Dakar, Senegal, [8]Vaccine Research Center, National Institute of Allergy and Infectious Diseases (NIAID), National Institutes of Health (NIH), Bethesda, MD, United States, [9]University of Kinshasa, Kinshasa, Democratic Republic of the Congo, [10]World Health Organization, Geneva, Switzerland, [11]University of Californie, Los Angeles, CA, United States, [12]University of California, Los Angeles, CA, United States, [13]Clinical Monitoring Research Program Directorate, Frederick National Laboratory for Cancer Research, Frederick, MD, United States, [14]Integrated Research Facility at Fort Detrick, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Frederick, MD, United States, [15]University of Edinburgh, Edinburgh, United Kingdom

8:20 a.m. 3

EBOLA VIRUS INFECTIONS FROM PERSISTENTLY INFECTED SOURCES DURING THE NORD KIVU 2018-2021 EBOLA VIRUS DISEASE OUTBREAK IN THE DEMOCRATIC REPUBLIC OF THE CONGO

Catherine Pratt[1], Amuri Aziza[2], Eddy Lusamaki[2], Daniel Mukadi[2], Martin Faye[3], Moussa Diagne[3], Bailey White[1], Emmanuel Lokilo[2], Jean-Claude Makangara[2], Francisca Muyembe[2], Nella Bisento[2], Bibiche Nsunda[2], Marceline Akonga[2], Francois Edidi[2], Meris Matondo[2], Junior Bula Bula[2], Michael Wiley[1], Placide Mbala[2]
[1]University of Nebraska Medical Center, Omaha, NE, United States, [2]Institut National de Recherche Biomedicale, Kinshasa, Democratic Republic of the Congo, [3]Institut Pasteur de Dakar, Dakar, Senegal

8:30 a.m. 4

INSIGHTS INTO FILOVIRUS GLYCOPROTEIN FUNCTION FROM EPITOPE MAPPING AND INFECTIVITY ANALYSES

Edgar Davidson[1], J. Tabb Sullivan[1], Mallorie E. Fouch[1], Jenny Liang[1], Philipp A. Ilinykh[2], Alexander Bukreyev[2], James E. Crowe[3], Benjamin J. Doranz[1]
[1]Integral Molecular, Inc., Philadelphia, PA, United States, [2]Department of Pathology, University of Texas Medical Branch, Galveston, TX, United States, [3]Vanderbilt Vaccine Center, Vanderbilt University, Nashville, TN, United States

8:40 a.m. 5

RIFT VALLEY FEVER VIRUS REASSORTMENT IN THE CULEX TARSALIS MOSQUITO VECTOR

Velmurugan Balaraman[1], Emma Harris[2], Chester McDowell[3], William C. Wilson[4], Juergen A. Richt[1], Rebekah C. Kading[2], Natasha N. Gaudreault[1]
[1]CEEZAD, Diagnostic Medicine/Pathobiology, Kansas State University, Manhattan, KS, United States, [2]Department of Microbiology, Immunology and Pathology, Colorado State University, Fort Collins, CO, United States, [3]CEEZAD, Diagnostic Medicine/Pathobiology, Kansas State University, manhattan, KS, United States, [4]United States Department of Agriculture, Agricultural Research Service, Center for Grain and Animal Health Research, Arthropod-Borne Animal Diseases Research Unit, Manhattan, KS, United States

8:50 a.m. 6

CREATING A PEDIATRIC PREDICTIVE DIAGNOSTIC TOOL FOR EBOLA VIRUS DISEASE

Alicia E. Genisca[1], Tzu-Chun Chu[2], Lawrence Huang[3], Monique Gainey[4], Moyinoluwa Adeniji[3], Stephen B. Kennedy[5], Shiromi Perera[6], Himanshu R. Vaishnav[7], Andres Colubri[8], Ian C. Michelow[1], Adam C. Levine[1]
[1]Warren Alpert Medical School of Brown University, Providence, RI, United States, [2]Brown University Center for Statistical Sciences, Providence, RI, United States, [3]Brown University, Providence, RI, United States, [4]Rhode Island Hospital, Providence, RI, United States, [5]Republic of Liberia Ministry of Health, Monrovia, Liberia, [6]International Medical Corps, Washington, DC, United States, [7]Brown Emergency Medicine, Providence, RI, United States, [8]University of Massachusetts Medical School, Worcester, MA, United States

9 a.m. 7

HORIZONTAL AND VERTICAL TRANSMISSION OF HEPATITIS B IN THE DRC: EARLY FINDINGS FROM THE HOVER-HBV STUDY

Camille Morgan[1], Patrick Ngimbi[2], Kashamuka Mwandagalirwa[2], Noro Ravelomanana[2], Martine Tabala[2], Bienvenu Kawende[2], Charles Mbendi[3], Christophe Luhata[4], Linda James[5], Gaetan Bondo[5], Gavin Cloherty[6], Samuel Mampunza[5], Marcel Yotebieng[7], Peyton Thompson[8], Jonathan Parr[9]
[1]University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [2]Kinshasa School of Public Health, Kinshasa, Democratic Republic of the Congo, [3]Department of Gastroenterology, University Hospital, Kinshasa, Democratic Republic of the Congo, [4]Expanded Programme on Immunisation, Kinshasa, Democratic Republic of the Congo, [5]Université Protestante au Congo, Kinshasa, Democratic Republic of the Congo, [6]Abbott Laboratories, Abbott Park, IL, United States, [7]Albert Einstein College of Medicine, New York, NY, United States, [8]Division of Infectious Diseases, Department of Pediatrics, University of North Carolina, Chapel Hill, NC, United States, [9]Division of Infectious Diseases, Department of Medicine, University of North Carolina, Chapel Hill, NC, United States

Scientific Session 4

Malaria: Dual Active Ingredients Nets and Durability

Meeting Room 3
Thursday, November 18
8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

CHAIR

Amelia Bertozzi-Villa
Institute for Disease Modeling, Seattle, WA, United States

Conner L. Jackson
University of Colorado - AMC, Aurora, CO, United States

8 a.m. 8

EFFECTIVENESS OF THREE TYPES OF DUAL ACTIVE INGREDIENT TREATED NETS COMPARED TO STANDARD LONG-LASTING INSECTICIDAL NETS AGAINST MALARIA OUTCOMES: RESULT FROM A CLUSTER RANDOMIZED CONTROLLED TRIAL IN TANZANIA

Jacklin Franklin Mosha[1], Manisha A. Kulkarni[2], Louisa A. Messenger[3], Nancy Matowo[3], Eliud Lukole[1], Catherine Pitt[3], Mark Rowland[3], Alphaxard Manjurano[1], Franklin W. Mosha[4], Jackline Martin[5], Charles Thickstun[6], Immo Kleinschmidt[3], Natacha Protopopoff[3]
[1]National Institute for Medical Research Tanzania, Mwanza, United Republic of Tanzania, [2]2. School of Epidemiology and Public Health, University of Ottawa, Ottawa, ON, Canada, [3]London School of Hygiene & Tropical Medicine, London, United Kingdom, [4]Kilimanjaro Christian Medical University College, Moshi, United Republic of Tanzania, [5]Kilimanjaro Christian Medical University College, Kilimanjaro, United Republic of Tanzania, [6]School of Epidemiology and Public Health, University of Ottawa, Ottawa, ON, Canada

8:10 a.m. 9

EIGHT IS ENOUGH? ADDRESSING THE DESIGN AND ANALYSIS OF CLUSTERED TRIALS AIMED AT CONTROLLING VECTOR-BORNE DISEASES WITH LIMITED ACCESS TO LARGE NUMBERS CLUSTERS

Conner L. Jackson[1], Kathryn Colborn[1], Dexiang Gao[1], Sangeeta Rao[2], Hannah Slater[3], Sunil Parikh[4], Brian Foy[2], John Kittelson[1]
[1]University of Colorado - AMC, Aurora, CO, United States, [2]Colorado State University, Fort Collins, CO, United States, [3]PATH, Seattle, WA, United States, [4]Yale, New Haven, CT, United States

8:20 a.m. 10

COMMUNITY KNOWLEDGE AND PERCEPTION ON MALARIA PREVENTION AFTER INTRODUCTION OF NEW, DUAL ACTIVE INGREDIENT INSECTICIDE-TREATED NETS (ITNS) IN THE HEALTH DISTRICTS OF BANFORA, GAOUA, AND ORODARA IN BURKINA FASO

Moubassira Kagoné[1], Federica Guglielmo[2], Fatou Ouattara[1], Aboubacar Fofana[1], Samuel Poda[1], Kenzie Tynuv[3], Gauthier Tougri[4], Moussa W. Guelbeogo[1], N'Fale Sagnon[1], Christelle Gogue[3], Molly Robertson[5], Adama Gansané[1]
[1]Centre National de Recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso, [2]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [3]PATH, Washington, DC, United States, [4]Programme National de Lutte contre le Paludisme, Ouagadougou, Burkina Faso, [5]PATH, Seattle, WA, United States

8:30 a.m. 11

INVESTIGATING THE DURABILITY OF THE BIOEFFICACY OF NEXT GENERATION NETS FROM COMMUNITIES IN BENIN

Corine A. Ngufor
London Schoolof Hygiene and Tropical Medicine, London, United Kingdom

8:40 a.m. 12

USE OF A PORTABLE FIELD-ADAPTED LIQUID CHROMATOGRAPHIC SYSTEM (C-VUE MACHINE) TO DETERMINE THE QUANTITY OF DELTAMETHRIN ON INSECTICIDE-TREATED NETS PAIRED WITH WHO CONE BIOASSAYS TO DETERMINE ITN BIOEFFICACY AS PART OF A THREE-YEAR DURABILITY MONITORING IN MALI

Moussa Bm Cisse[1], Ibrahim Traore[1], Lansana Sangare[1], Yacouba Dansoko[1], Alice Dembele[1], Lazeni Konate[1], Jean Marie Sanou[1], Samah Sissoko[2], Abdourhamane Dicko[2], Libasse Gadiaga[3], Richard Oxborough[3], Jules Mihigo[4], Aliou Diallo[4], Celia Jane Woodfill[4], Erin Eckert[5], Paula Marcet[6], Michael D. Green[7], Ousmane Koita[1]
[1]Laboratoire de Biologie Moleculaire Appliquee / Universite des Sciences des Techniques et des Technologies de Bamako (LBMA/USTTB), Bamako, Mali, [2]Programme National de Lutte Contre le Paludisme, Bamako, Mali, [3]PMI VectorLink Project, Bamako, Mali, [4]President Malaria Initiative USAID, Bamako, Mali, [5]International Development Group/ RTI International, Washington, DC, United States, [6]Entomology Branch, US Centers for Disease Control, ATLANTA, GA, United States, [7]Entomology Branch, US Centers for Disease Control, Atlanta, GA, United States

8:50 a.m. 13

(HALF) LIFE OF THE PARTY: EXPLORING THE IMPACT OF BEDNET DURABILITY AND RETENTION ON MALARIA BURDEN

Amelia Bertozzi-Villa[1], Helen Jamet[2], Bruno Moonen[2], Caitlin Bever[1]
[1]Institute for Disease Modeling, Seattle, WA, United States, [2]Bill & Melinda Gates Foundation, Seattle, WA, United States

9 a.m. 14

A NOVEL ALGORITHM TO DEFINE ADEQUATE PROTECTION OF LONG-LASTING INSECTICIDAL NETS: INSIGHTS FROM LATIN AMERICA

Maria Eugenia Castellanos[1], Stephen C. Smith[2], Jodi Vanden Eng[2], Audrey E. Lenhart[2], Norma Padilla[3]
[1]Public Health and Tropical Medicine, College of Public Health, Medical and Veterinary Sciences, James Cook University, Townsville, Australia, [2]Division of Parasitic Diseases and Malaria, Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]Center for Health Studies, Universidad del Valle de Guatemala, Guatemala, Guatemala

Scientific Session 5

Malaria: Biology and Pathogenesis

Meeting Room 4
Thursday, November 18
8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

CHAIR
Caroline Ndege
Maseno University, Busia, Kenya

Miranda Oakley
FDA, Silver Spring, MD, United States

8 a.m. 15

BIOMARKERS OF INTESTINAL INJURY ARE ELEVATED IN SEVERE MALARIA AND PREDICT IN-HOSPITAL AND POST-DISCHARGE MORTALITY

Maithri L. Sarangam[1], Ruth Namazzi[2], Dibyadyuti Datta[3], Robert O. Opoka[2], Chandy C. John[3], Andrea L. Conroy[3]
[1]University of Washington, Seattle, WA, United States, [2]Makerere University, Kampala, Uganda, [3]Indiana University, Indianapolis, IN, United States

8:10 a.m. 16

A COORDINATED TRANSCRIPTIONAL SWITCHING NETWORK MEDIATES ANTIGENIC VARIATION OF HUMAN MALARIA PARASITES

Xu Zhang
Weill Cornell Medicine, NYC, NY, United States

(ACMCIP Abstract)

8:20 a.m. 17

TRANSCRIPTOMICS REVEALS PERTURBATIONS IN AUTOPHAGY AS A CENTRAL PROCESS IN KENYAN CHILDREN WITH SEVERE MALARIAL ANEMIA

Caroline Ndege[1], Samuel B. Anyona[2], Qiuying Cheng[3], Ivy Hurwitz[3], Evans Raballah[4], Elly O. Munde[5], Christophe G. Lambert[3], Collins Ouma[6], Douglas J. Perkins[3]
[1]University of New Mexico-Kenya Global Health Programs, Kisumu and Siaya, Kenya, [2]Department of Medical Biochemistry, School of Medicine, Maseno University, Maseno, Kenya, [3]Center for Global Health, University of New Mexico, Albuquerque, NM, United States, [4]Department of Medical Laboratory Sciences, School of Public Health Biomedical Sciences and Technology, Masinde Muliro University of Science and Technology, Kakamega, Kenya, [5]Department of Clinical Medicine, School of Health Science, Kirinyaga University, Kerugoya, Kenya, [6]Department of Biomedical Sciences and Technology, School of Public Health and Community Development, Maseno University, Maseno, Kenya

8:30 a.m. 18

DRAMATIC CONSEQUENCES OF DISRUPTING LIPID HOMEOSTASIS IN *PLASMODIUM FALCIPARUM*

Avantika I. Ahiya[1], Suyash Bhatnagar[1], Joanne Morrisey[1], Josh Beck[2], Arun Radhakrishnan[3], Akhil Vaidya[1]
[1]Drexel University, Philadelphia, PA, United States, [2]Department of Biomedical Sciences, Ames, IA, United States, [3]Department of Molecular Genetics, Dallas, TX, United States

(ACMCIP Abstract)

8:40 a.m.

19

ADMISSION LACTATE DEHYDROGENASE PREDICTS RISK OF BLACK WATER FEVER IN CHILDREN WITH SEVERE MALARIA

Ruth Namazzi[1], Andrea L. Conroy[2], Dibyadyuti Datta[2], Caitlin Bond[2], Robert O. Opoka[1], Chandy C. John[2]
[1]Makerere University, Kampala, Uganda, [2]Ryan White Center for Pediatric Infectious Disease and Global Health, Indiana University School of Medicine, Indianapolis, IN, United States

8:50 a.m.

20

A NOVEL AMINO ACID SUBSTITUTION INAP2-G BLOCKS SEXUAL COMMITMENT IN *P. FALCIPARUM*

Surendra K. Prajapati[1], Belinda J. Morahan[2], Thoai Dotrang[1], Michelle C. Barbeau[1], Daniel Hupalo[3], Matthew Wilkerson[3], Clifton L. Dalgard[3], Kim C. Williamson[1]
[1]Department of Microbiology and Immunology, Uniformed Services University of the Health Sciences, Bethesda, MD, United States, [2]Monash University, Melbourne, Australia, [3]Department of Anatomy, Physiology & Genetics, Uniformed Services University of the Health Sciences, Bethesda, MD, United States

(ACMCIP Abstract)

9 a.m.

21

PERIPHERAL *PLASMODIUM FALCIPARUM* INFECTION IN EARLY PREGNANCY IS ASSOCIATED WITH INCREASED MATERNAL MICROCHIMERISM IN THE OFFSPRING

Neta Simon[1], Jaclyn Shallat[1], John Houck[2], Prasanna Jagannathan[3], Mary Prahl[4], Mary Muhindo[4], Abel Kakuru[5], Peter Olwoch[5], Margaret Feeney[4], **Whitney Harrington**[6]
[1]University of Washington, Seattle, WA, United States, [2]Seattle Children's Research Institute, Seattle, WA, United States, [3]Stanford University, Palo Alto, CA, United States, [4]University of California San Francisco, San Francisco, CA, United States, [5]Infectious Disease Research Collaboration, Kampala, Uganda, [6]Seattle Children's Research Institute / University of Washington, Seattle, WA, United States

Scientific Session 6

Global Health: COVID-19

Meeting Room 5
Thursday, November 18
8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

CHAIR

Thomas S. Lendvay
Seattle Children's Hospital, Seattle, WA, United States

Andrés G. Lescano
Universidad Peruana Cayetano Heredia, Lima, Peru

8 a.m.

22

SARS-COV-2 INFECTIONS DURING THE FIRST EIGHT MONTHS OF THE EPIDEMIC IN NIGERIA: SEROPREVALENCE ESTIMATES FROM A HOUSEHOLD SURVEY IN THREE STATES

Laura C. Steinhardt[1], Elsie Ilori[2], Emem Iwara[3], Nnaemeka Iriemenam[4], Nwachukwu William[2], Ndidi Agala[5], Adesuyi Omoare[2], Matthias Alagi[4], Matthias Alagi[4], Augustine Mpamugo[3], Olumide Okunoye[4], Sylvia Adebajo[3], Alash'le Abimiku[5], Nwando Mba[2], Andrew Mitchell[6], Akipu Ehoche[3], Stacie Greby[4], Stephen McCracken[1], Natalia Blanco[6], Temitope Olaleye[5], Catherine Okoi[2], McPaul Okoye[4], Ehimario Igumbor[2], Ehimario Igumbor[2], Chimaobi Chukwu[2], Nnaemeka Ndodo[2], Dalhatu Ibrahim[4], Manhattan Charurat[6], Mahesh Swaminathan[4], Chikwe Ihekweazu[2], Chinwe Ochu[2], Kristen Stafford[6]
[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Nigeria Centre for Disease Control, Abuja, Nigeria, [3]UMB, Abuja, Nigeria, [4]Centers for Disease Control and Prevention, Abuja, Nigeria, [5]IHVN, Abuja, Nigeria, [6]UMB, Baltimore, MD, United States

8:10 a.m.

23

ESTABLISHING A SENTINEL SURVEILLANCE FOR THE NOVEL CORONAVIRUS DISEASE 2019 (COVID-19) IN BANGLADESH

Pritimoy Das[1], Zubair Akhtar[1], Syeda Mah-E- Muneer[1], Md Ariful Islam[1], Mohammed Ziaur Rahman[1], Mahbubur Rahman[2], Mallick Masum Billah[2], Meerjady Sabrina Flora[2], Tahmina Shirin[2], Sayera Banu[1], Fahmida Chowdhury[1]
[1]International Centre for Diarrhoeal Disease Research, Bangladesh (icddr,b), Dhaka, Bangladesh, [2]Institute of Epidemiology, Disease Control and Research (IEDCR), Dhaka, Bangladesh

8:20 a.m.

24

PERSONAL PROTECTIVE EQUIPMENT (PPE) SEES THE LIGHT: LOW-COST METHYLENE BLUE PLUS LIGHT INACTIVATES SARS-COV-2 ON PPE INCLUDING MASKS AND RESPIRATORS

Thomas S. Lendvay[1], James Chen[2], Brian H. Harcourt[3], Florine E. Scholte[3], F. Kilinc-Balci[3], Ying Ling Lin[4], Molly M. Lamb[5], Larry C. Chu[6], David Evans[7], Amy Price[6], Yi-Chan Lin[7], Christopher N. Mores[8], Jaya Sahni[9], Kareem Kabra[8], Eric Haubruge[10], Etienne Thiry[10], Belinda Heyne[11], Jan Laperre[12], Sarah Simmons[13], Yi Cui[14], Thor Wagner[1], Tanner Clark[1], Sarah Smit[15], Rod Parker[16], Thomas Gallagher[17], Emily Timm[17], Louisa Ludwig-Begall[10], Louisa Ludwig-Begall[10], Nicolas Macia[11], Cyrus Mackie[11], Ken Page[13], Susan Reader[13], Peter Farris[13], Olivier Jolois[12], Alpa Patel[15], Jean-Luc Lemyre[18], Vanessa Molloy-Simard[18], Kamonthip Homdayjanakul[5], Sarah Tritsch[8], Constance Wielick[10], Mark Mayo[19], Rebecca Malott[11], Jean-Francois Willaert[10], Hans Nauwynck[20], Lorene Dams[10], Simon De Jaeger[10], Lei Lao[21], Mervin Zhao[21], Steven Chu[14], John M. Conly[13] , May C. Chu[5]
[1]Seattle Children's Hospital, Seattle, WA, United States, [2]Singletto, Seattle, WA, United States, [3]Centers for Disease Control and Prevention, Atlanta, GA, United States, [4]World Health Organization, Geneva, Switzerland, [5]Colorado School of Public Health, Aurora, CO, United States, [6]Stanford University School of Medicine, Stanford, CA, United States, [7]University of Alberta, Calgary, MB, Canada, [8]George Washington Unviersity, Washington, DC, United States, [9]Seattle Children's Research Insitute, Seattle, WA, United States, [10]University of Liege, Liege, Belgium, [11]University of Calgary, Calgary,

MB, Canada, [12]Centexbel, Liege, Belgium, [13]Alberta Health Services, Calgary, MB, Canada, [14]Stanford University, Stanford, CA, United States, [15]Nelson Laboratory, Salt Lake City, UT, United States, [16]Stryker, Grand Rapids, MI, United States, [17]University of Loyola-Chicago, Chicago, IL, United States, [18]Stryker, Montreal, QC, Canada, [19]BSI, London, United Kingdom, [20]University of Gent, Gent, Belgium, [21]4C Air, Inc., Sunnyvale, CA, United States

8:30 a.m. 25

NON-ADHERENCE TO INFECTION PREVENTION AND CONTROL MEASURES FOR COVID-19 AMONG COMMUNITY HEALTH WORKERS: A POTENTIAL THREAT TO COMMUNITY HEALTH PROGRAMS IN UGANDA, 2020

Denis Okethwangu[1], Anna Bowen[2], Elizabeth Katana[3], Bob Omoda[3], Daniel Emong[3], Peter Oumo[3], Doreen Gonahasa[3], Josephine Namayanja[3], Aggrey Byaruhanga[3], Phoebe Nabunya[3], Patricia Thiwe[3], Umaru Ssekabira[1], Julie Harris[4], Julie Gutman[2], Shelby Cash[2], Jessica Butts[2], Lauren Lewis[2]

[1]Infectious Diseases Institute, Kampala, Uganda, [2]Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]Uganda Public Health Fellowship Program, Kampala, Uganda, [4]Centers for Disease Control and Prevention, Kampala, Uganda

8:40 a.m. 26

COVID-19 VACCINATION INTENTION IN AN ARBOVIRAL COMMUNITY COHORT IN PONCE, PUERTO RICO

Liliana Sanchez-Gonzalez[1], Chelsea G. Major[1], Dania Rodriguez[1], Abirami Balajee[2], Kyle Ryff[1], Olga Lorenzi[1], Laura E. Adams[1], Vanessa Rivera-Amill[3], Melissa Rolfes[4], Gabriela Paz-Bailey[1]

[1]CDC, San Juan, Puerto Rico, [2]Maximus Inc, Atlanta, GA, United States, [3]Ponce Health Sciences University, Ponce, Puerto Rico, [4]CDC, Atlanta, Puerto Rico

8:50 a.m. 27

DEVELOPING EVIDENCE-BASED RECOMMENDATIONS FOR FULLY VACCINATED TRAVELERS TO REDUCE RISK OF SARS-COV-2 SPREAD, MARCH 2021

Leah F. Moriarty, Allison Walker, Michael Johansson, Hannah Wolford, Cindy R. Friedman

Centers for Disease Control and Prevention, Atlanta, GA, United States

9 a.m. 28

STRUCTURAL RACISM AND COVID-19 RESPONSE: HIGHER RISK OF EXPOSURE DRIVES DISPARATE COVID-19 DEATHS AMONG BLACK AND HISPANIC/LATINX RESIDENTS OF ILLINOIS, USA

Tobias M. Holden[1], Damon T. Arnold[2], Veronica Halloway[2], Ngozi O. Ezike[2], Melissa A. Simon[1], Jaline Gerardin[1]

[1]Northwestern University, Chicago, IL, United States, [2]Illinois Department of Public Health, Springfield, IL, United States

Symposium 7

Tackling the Last Mile of Child Mortality in Africa: Understanding and Improving the Case Management of Severe Febrile Illness

Meeting Room 6
Thursday, November 18
8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

Currently, over 400,000 children die from malaria and other preventable illnesses every year in sub-Saharan Africa. Few details are available on where these children die, from which causes, and under which circumstances. A better understanding of these factors is crucial to address effectively the remaining burden of preventable childhood diseases. This symposium reports the results from three large field studies in the Democratic Republic of Congo (DRC), Nigeria, and Uganda, in which 7886 episodes of severe febrile illnesses were detected at the primary care level, and 6361 at a referral health facility. While this multi-country observational study (CARAMAL) is aimed primarily at assessing the impact of pre-referral rectal artesunate (RAS) under real-world conditions (implementation by the public health system with support from UNICEF), many other health systems factors needed to be considered to improve the children's outcomes. For example, proper case management required: (1) recognition of the gravity of illness by caregivers and timely care seeking; (2) a functioning primary care system, (3) RAS for a safer referral of malaria cases, (4) completion of the referral, and (5) functioning referral health facilities providing appropriate post-referral care. These extensive findings suggest multiple deficiencies in this continuum of care, leading to low effectiveness of case management and negative health outcomes. The status of these children could be determined through Day-28 home visits in 93% of the episodes (13,805/14,847). Case fatality rates (CFR) varied largely by country and place of initial presentation (range: 0.3% to 15%). A number of risk factors for mortality could be identified and will be presented. RAS seemed to reduce the CFR only in Uganda (RR=0.3, p<0.05). The research found some indications that a lower proportion of children receiving RAS completed referral compared to those that did not (varying per country and primary contact point). Treatment with parenteral artesunate was high in referral health facilities (over 80%), but the administration of a full course of an ACT to complete the treatment was not done consistently (from virtually nil in Nigeria to 65% in DRC), hence, many children were effectively treated with an artemisinin monotherapy. Most children were considered healthy on Day 28, but over 60% still had detectable malaria antigenaemia. There was an issue at primary care level of aligning the severe febrile illness definition of iCCM with the definition of severe malaria. Finally, these three studies allowed to determine relatively reliable community-based rates of severe febrile illness and malaria episodes.

CHAIR

Christian Lengeler
Swiss Tropical and Public Health Institute, Basel, Switzerland

Aita Signorell
Swiss Tropical and Public Health Institute, Basel, Switzerland

8 a.m.
INTRODUCTION

8:10 a.m.
SAVING LIVES FROM SEVERE FEBRILE ILLNESS: LARGE-SCALE EXPERIENCE FROM NIGERIA.
Elizabeth Omoluabi
Akena Associates, Yola, Nigeria

8:30 a.m.
SAVING LIVES FROM SEVERE FEBRILE ILLNESS: LARGE-SCALE EXPERIENCE FROM DR CONGO.
Antoinette Kitoto Tshefu
School of Public Health, University of Kinshasa, Kinshasa, Democratic Republic of the Congo

8:50 a.m.
SAVING LIVES FROM SEVERE FEBRILE ILLNESS: LARGE-SCALE EXPERIENCE FROM UGANDA.
Phyllis Awor
School of Public Health, Makerere University, Kampala, Uganda

9:10 a.m.
PANEL: IMPLICATIONS OF CARAMAL FINDINGS FOR POLICY MAKING AND UPSCALING OF LIFE-SAVING INTERVENTIONS.
Theodoor Pieter Visser
CHAI, Boston, MA, United States

9:10 a.m.
CARAMAL MULTI-COUNTRY STUDY: IMPLICATIONS FOR PRACTICE FOR UNICEF
Valentina Buj
United Nations Children's Fund, New York, NY, United States

9:10 a.m.
CARAMAL MULTI-COUNTRY STUDY: IMPLICATIONS FOR PRACTICE FOR UNICEF
Silvia Schwarte
Geneva, Switzerland

Scientific Session 8

Clinical Tropical Medicine: HIV and Enteric Infections

Meeting Room 7
Thursday, November 18
8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

CHAIR
Martin Grobusch
Academic Medical Center, Amsterdam, Netherlands

Megan Birkhold
University of Maryland School of Medicine, Baltimore, MD, United States

8 a.m. **29**

IMPACT OF CURRENT MALARIA INFECTION AND PREVIOUS MALARIA EXPOSURE ON THE CLINICAL PROFILES AND OUTCOME OF COVID-19 IN A HIGH MALARIA TRANSMISSION SETTING: A PROSPECTIVE COHORT STUDY
Jane Achan[1], Asadu Serwanga[1], Humphrey Wanzira[1], Tonny Kyagulanyi[1], Anthony Nuwa[1], Godfrey Magumba[1], Stephen Kusasira[2], Isaac Sewanyana[3], Kevin Tetteh[4], Chris Drakeley[4], Fredrick Nakwagala[5], Helen Aanyu[5], Jimmy Opigo[6], Prudence Hamade[7], Madeleine Marasciulo[8], Byarugaba Baterana[5], James Tibenderana[7]
[1]Malaria Consortium, Kampala, Uganda, [2]Ministry of Defense, Kampala, Uganda, [3]Central Public Health Laboratories, Kampala, Uganda, [4]London School of Hygiene & Tropical Medicine, London, United Kingdom, [5]Mulago National Referral Hospital, Kampala, Uganda, [6]Ministry of Health, Kampala, Uganda, [7]Malaria Consortium, London, United Kingdom, [8]Malaria Consortium, Raleigh, NC, United States

8:10 a.m. **30**

IMPACT OF COVID-19 ON PEOPLE LIVING WITH HIV/AIDS IN THAILAND: A PROSPECTIVE STUDY
Rapeephan Rattanawongnara Maude, Sasisopin Kiertiburanakul
Ramathibodi Hospital, Bangkok, Thailand

8:20 a.m. **31**

ATYPICAL PRESENTATION OF LEPROSY IN HIV POSITIVE PATIENT
Netsanet Azene Gebeyehu, Adane Ayele Legesse
Addis Ababa University, Addis Ababa, Ethiopia

8:30 a.m. **32**

EARLY-LIFE ENTERIC INFECTION AND ENTEROPATHY MARKERS ARE ASSOCIATED WITH CHANGES IN ADIPOKINE, APOLIPOPROTEIN AND CYTOKINE PROFILES LATER IN CHILDHOOD CONSISTENT WITH THOSE OF AN ADVERSE CARDIOMETABOLIC DISEASE RISK PROFILE IN A PERUVIAN BIRTH COHORT
Josh M. Colston, Margaret N. Kosek
University of Virginia School of Medicine, Charlottesville, VA, United States

8:40 a.m. 33

CHARACTERIZATION OF TYPHOID INTESTINAL PERFORATION IN AFRICA: RESULTS FROM THE SEVERE TYPHOID FEVER SURVEILLANCE IN AFRICA (SETA) PROGRAM

Megan Birkhold[1], Shrimati Datta[1], Gi Deok Pak[2], Justin Im[2], Octavie Lunguya Metila[3], Abraham Aseffa[4], Ellis Owusu-Dabo[5], Abdramane Soura Bassiahi[6], Raphaël Rakotozandrindrainy[7], Yaw Adu-Sarkodie[5], Iruka N. Okeke[8], Kathleen M. Neuzil[1], Raphaël M. Zellweger[2], Florian Marks[2]

[1]University of Maryland School of Medicine, Baltimore, MD, United States, [2]International Vaccine Institute, Seoul, Republic of Korea, [3]Institut National de Recherche Biomédicale, Kinshasa, Democratic Republic of the Congo, [4]Armauer Hansen Research Institute, ALERT Campus, Addis Ababa, Ethiopia, [5]Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, [6]Institut Supérieur des Sciences de la Population, Université de Ouagadougou, Ouagadougou, Burkina Faso, [7]University of Antananarivo, Antananarivo, Madagascar, [8]University of Ibadan, Ibadan, Nigeria

8:50 a.m. 34

NITROIMIDAZOLE VERSUS PAROMOMYCIN IN TREATMENT OF DIENTAMOEBA FRAGILIS INFECTION; CLINICAL AND MOLECULAR EVALUATION

Asaf Biber, Shiraz Gefen-Halevi, Eli Schwartz

The Chaim Sheba Medical Center, Ramat Gan, Israel

9 a.m. 35

VALIDATION OF A MOBILE HEALTH TOOL FOR VIRAL DIARRHEA ETIOLOGY PREDICTION IN YOUNG CHILDREN: A PROSPECTIVE MULTICENTER STUDY IN BANGLADESH AND MALI

Stephanie C. Garbern[1], Monique Gainey[2], Sabiha Nasrin[3], Adama M. Keita[4], Ben J. Brintz[5], Henry Badji[4], Joel Howard[6], Mami Taniuchi[7], James A. Platts-Mills[7], Karen Kotloff[8], Eric J. Nelson[9], Nur H. Alam[3], Rashidul Haque[3], Samba Sow[4], Adam C. Levine[1], Daniel T. Leung[5]

[1]Alpert Medical School of Brown University, Providence, RI, United States, [2]Rhode Island Hospital, Providence, RI, United States, [3]International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, [4]Center for Vaccine Development, Bamako, Mali, [5]University of Utah, Salt Lake City, UT, United States, [6]University of Kentucky, Lexington, KY, United States, [7]University of Virginia, Charlottesville, VA, United States, [8]University of Maryland, Baltimore, MD, United States, [9]University of Florida, Gainesville, FL, United States

Scientific Session 9

Integrated Control Measures for Neglected Tropical Diseases

Meeting Room 8

Thursday, November 18

8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

CHAIR

Alison Krentel

Bruyere Research Institute, Ottawa, ON, Canada

Emily Griswold

The Carter Center, Atlanta, GA, United States

8 a.m. 36

INVESTIGATING MASS DRUG ADMINISTRATION COVERAGE AND CONTRIBUTORS TO PERSISTENT TRACHOMA TRANSMISSION IN MOROTO DISTRICT, UGANDA

Alexander H. Jones[1], Lihan Lu[1], Clara R. Burgert-Brucker[1], Francis Mugume[2], Gilbert Baayenda[2], Otim Stephen[3], Stella Agunyo[4], Alex M. Rutagwabeyi[4], Jeremiah Ngondi[1], Elizabeth Plunkett[1], Benjamin Binagwa[4]

[1]RTI International, Washington, DC, United States, [2]Ministry of Health, Kampala, Uganda, [3]Local Government, Moroto District, Moroto, Uganda, [4]RTI International, Kampala, Uganda

8:10 a.m. 37

MALI ACHIEVS A CRITICAL MILESTONE TOWARD ELIMINATION OF LYMPHATIC FILARIASIS: ALL PREVIOUSLY ENDEMIC DISTRICTS HAVE MET CRITERIA TO STOP MDA

Massitan Dembele[1], **Boubacar Guindo**[2], Benoit Dembele[3], Modibo Keita[2], Yaya L. Coulibaly[4], Salif S. Doumbia[4], Mama Niele Doumbia[2], Abdoulaye Guindo[1], Moussa Mintou Koné[1], Cleo Stern[5], Steven D. Reid[5], Fama Kondo[2], Ouassa Sanogo[2], Alex K. Brown[2], Elisabeth Chop[5], Brian Fuller[5], Achille Kabore[6], Yaobi Zhang[5], Angela Weaver[5]

[1]Directorate General of Health, Ministry of Health and Public Hygiene, Bamako, Mali, [2]Helen Keller International, Bamako, Mali, [3]Helen Keller International, Regional Office for Africa, Dakar, Senegal, [4]Filariasis Unit, International Center of Excellence in Research, Faculty of Medicine and Odonto stomatology, Point G, Bamako, Mali, [5]Helen Keller International, New York, NY, United States, [6]Family Health International 360, Washington, DC, United States

8:20 a.m. 38

IVERMECTIN, DIETHYLCARBAMAZINE AND ALBENDAZOLE MASS DRUG ADMINISTRATION: IMPACT ON PREVALENCE OF SCABIES, IMPETIGO AND SOIL-TRANSMITTED HELMINTH (STH) INFECTIONS IN THREE MUNICIPALITIES OF TIMOR-LESTE

Brandon Le[1], Merita A. Monteiro[2], Salvador Amaral[3], Alexander Matthews[4], Sze Fui Hii[5], Naomi Clarke[1], Paul Arkell[3], Rebecca Traub[5], Jennifer Yan[3], Daniel Engelman[6], Nicholas Fancourt[3], Andrew Steer[6], John Kaldor[1], Joshua R. Francis[3], Susana V. Nery[1]

[1]Kirby Institute, University of New South Wales, Sydney, Australia, [2]Timor-Leste Ministry of Health, Dili, Timor-Leste, [3]Menzies School of Health Research, Darwin, Australia, [4]Royal Darwin Hospital, Darwin, Australia, [5]University of Melbourne, Melbourne, Australia, [6]Murdoch Children's Research Institute, Melbourne, Australia

8:30 a.m.

39

MEASURING THE IMPACT OF INTEGRATED MASS TREATMENT WITH IVERMECTIN AND ALBENDAZOLE FOR ONCHOCERCIASIS IN FOUR COUNTIES IN LIBERIA & ASSESSING THE EFFECTIVENESS OF THE PREVENTIVE CHEMOTHERAPY IN REDUCING TRANSMISSION OF INFECTION 2018 &2019

Alexlyn Secunda Monluo, Vivian Ekie Monluo
Ministry of Health Liberia, Paynesville, Liberia

8:40 a.m.

40

EFFECT OF COVID-19 RISK MITIGATION MEASURES ON THE COVERAGE OF MASS TREATMENT CAMPAIGNS AGAINST SCHISTOSOMIASIS AND VITAMIN A SUPPLEMENTATION IN THE REGIONS OF KAYES AND SÉGOU IN MALI IN 2020

Modibo Keita[1], Marie Diakité[1], Mahamadou Traore[2], Adama B. Coulibaly[3], Boubacar Guindo[1], Fama Kondo[1], Alkaya Kounta[1], Aliou Bagayogo[2], Alex Brown[1], Mohamed L. Yattara[1], Mama N. Doumbia[1], Ouassa Sanogo[1], Yaobi Zhang[4], Djeinam Toure[5], Cleo Stern[4], David Dolodec[5], Steven D. Reid[4], Fatou Ndiaye[5], Benoit Dembele[5], Angela Weaver[4]
[1]Helen Keller International, Bamako, Mali, [2]Direction Générale de la Santé et de l'Hygiène Publique, Ministère de la Santé et du développement social, PNLSH, Bamako, Mali, [3]Direction Générale de la Santé et de l'Hygiène Publique, Ministère de la Santé et du développement social, Division nutrition, Bamako, Mali, [4]Helen Keller International, New York, NY, United States, [5]Helen Keller International, Regional Office for Africa, Dakar, Senegal

8:50 a.m.

41

EVALUATING THE ADOPTION OF COVID-19 PREVENTION MEASURES DURING MASS DRUG ADMINISTRATION IN ANAMBRA STATE, NIGERIA

Emily Griswold[1], Adamu Sallau[2], Attamah Isani Egeonu[2], Emmanuel Obikwelu[3], Emmanuel Miri[2], Gregory S. Noland[1]
[1]The Carter Center, Atlanta, GA, United States, [2]The Carter Center, Nigeria, Jos, Plateau State, Nigeria, [3]Anambra State Ministry of Health, Awka, Anambra State, Nigeria

9 a.m.

42

OPPORTUNITIES AND BARRIERS TO HEALTH CAMPAIGN INTEGRATION DURING THE COVID-19 ERA ACROSS VITAMIN A, IMMUNIZATION, NEGLECTED TROPICAL DISEASES, POLIO AND INSECTICIDE TREATED BEDNETS: A KEY INFORMANT INTERVIEW STUDY OF CAMPAIGN STAKEHOLDERS

Alison Krentel[1], Afzaa Rajabali[2], Olumide Ogundahunsi[3], Tuoyo Okorosobo[3], Carol McPhillips-Tangum[4], Eva Bazant[5], Margaret Gyapong[6]
[1]University of Ottawa, Ottawa, ON, Canada, [2]Bruyere Research Institute, Ottawa, ON, Canada, [3]University of Medical Sciences, Ondo, Nigeria, [4]CMT Consulting, LLC, Decatur, GA, United States, [5]Task Force for Global Health, Decatur, GA, United States, [6]University of Health and Allied Sciences, Ho, Ghana

Scientific Session 10

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Parasite Immunology - Immune Responses

Meeting Room 9
Thursday, November 18
8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

Supported with funding from the Burroughs Wellcome Fund

CHAIR

Prasanna Jagannathan
Stanford University, Stanford CA, United States

Romaniya Zayats
University of Manitoba, Winnipeg, MB, Canada

8 a.m.

43

SINGLE-CELL RNA-SEQUENCING REVEALS DISTINCT IMMUNE POPULATIONS IN CEREBROSPINAL FLUID OF NEUROCYSTICERCOSIS PATIENTS AT EARLY AND LATE TREATMENT STAGES

Nina Tang, Paul Schaughency, Justin Lack, Thomas B. Nutman, Elise Michelle O'Connell
National Institutes of Health, Bethesda, MD, United States

(ACMCIP Abstract)

8:10 a.m.

44

LONGITUDINAL METAGENOMIC SEQUENCING ANALYSIS OF THE GUT MICROBIOME OF HELMINTH INFECTED INDIGENOUS MALAYSIANS

Soo Ching Lee[1], Mian Zi Tee[2], Yi Xian Er[3], Alice Easton[4], Nan Jiun Yap[3], Joseph Devlin[5], Ze Chen[4], Kee Seong Ng[6], Shushan Sargsian[7], Romano Ngui[3], Kek Heng Chua[2], Christopher Chiong Meng Boey[8], Kenneth Cadwell[7], Yvonne Ai Lian Lim[3], P'ng Loke[1]
[1]Type 2 Immunity Section, Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, [2]Department of Biomedical Science, University of Malaya, Kuala Lumpur, Malaysia, [3]Department of Parasitology, University of Malaya, Kuala Lumpur, Malaysia, [4]Department of Microbiology, New York University Grossman School of Medicine, New York, NY, United States, [5]Department of Microbiology, New York University Grossman School of Medicineh, New York, NY, United States, [6]Department of Gastroenterology, Faculty of Medicine, University of Malaya, Kuala Lumpur, Malaysia, [7]Kimmel Center for Biology and Medicine, Skirball Institute of Biomolecular Medicine, New York University Grossman School of Medicine, New York, NY, United States, [8]Department of Paediatrics, University of Malaya, Kuala Lumpur, Malaysia

8:20 a.m.

45

MODULATION OF SARS-COV-2-IMMUNE REACTIVITY BY HELMINTH ANTIGENS

Tomabu Adjobimey, Julia Meyer, Marijo Parcina, Achim Hoerauf
Institute for Medical Microbiology, Immunology and Parasitology, Bonn, Germany

8:30 a.m. 46

REPROGRAMING MACROPHAGES TO DECREASE INFLAMMATORY RESPONSE IN CUTANEOUS LEISHMANIASIS

Mauricio Nascimento[1], Augusto M. Carvalho[1], Camila Amorim[2], Daniel Beiting[2], Phillip Scott[2], Edgar M. Carvalho[1], **Lucas P. Carvalho**[1]
[1]Instituto Gonçalo Moniz- Fiocruz, Salvador, Brazil, [2]University of Pennsylvania, Philadelphia, PA, United States

(ACMCIP Abstract)

8:40 a.m. 47

CELLULAR DYNAMICS OF IMMUNE EVASION DURING LEISHMANIA MAJOR INFECTION

Romaniya Zayats, Zhirong Mou, Atta Yazdanpanah, Wan Hon Koh, Paul Lopez, Jude E. Uzonna, Thomas Murooka
University of ManitobaUniversity of Manitoba, Faculty of Health Sciences, Department of Immunology, Winnipeg, MB, Canada

(ACMCIP Abstract)

8:50 a.m. 48

DIMINISHED VΔ2+ ΓΔ T CELL CYTOKINE PRODUCTION AND DEGRANULATION FOLLOWING *IN VITRO* MALARIA EXPOSURE

Kathleen Dantzler[1], Sandy Klemm[1], John Rek[2], Felistas Nankya[2], Isaac Ssewanyana[2], Moses Kamya[3], Brian Greenhouse[4], Grant Dorsey[4], Margaret Feeney[4], William Greenleaf[1], Prasanna Jagannathan[1]
[1]Stanford School of Medicine, Palo Alto, CA, United States, [2]Infectious Disease Research Collaboration, Kampala, Uganda, [3]Makerere University, Kampala, Uganda, [4]University of California at San Francisco, San Francisco, CA, United States

(ACMCIP Abstract)

9 a.m. 49

MALARIA-DRIVEN EXPANSION OF MATURE, SHORT-LIVED FUNCTIONAL CD56NEG NK CELLS CORRELATES WITH CLINICAL IMMUNITY TO MALARIA

Maureen Ty[1], Lauren de la Parte[1], Kathleen Dantzler[1], Kattria van der Ploeg[1], Perri Callaway[2], Stephen Tukwasibwe[3], John Rek[4], Emmanuel Arinaitwe[4], Isaac Ssewanyana[4], Felistas Nankya[4], Kenneth Musinguzi[4], Grant Dorsey[2], Michelle Boyle[5], Margaret Feeney[2], Moses Kamya[4], Prasanna Jagannathan[1]
[1]Stanford University, Palo Alto, CA, United States, [2]University of California San Francisco, San Francisco, CA, United States, [3]Makerere University, Kampala, Uganda, [4]Infectious Diseases Research Collaboration, Kampala, Uganda, [5]QIMR Berghofer Medical Research Institute, Queensland, Australia

Scientific Session 11

Schistosomiasis I

Meeting Room 10
Thursday, November 18
8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

CHAIR

Emily McDonald
Rhode Island Hospital, Providence, RI, United States

Sevan Alwan
UT Health at San Antonio, San Antonio, TX, United States

8 a.m. 50

LESIONS OF FEMALE GENITAL SCHISTOSOMIASIS ARE ASSOCIATED WITH THE PRESENCE OF LIVE WORMS AS INDICATED BY CIRCULATING ANODIC ANTIGEN TESTING

Takalani G. Nemungadi[1], Elisabeth Kleppa[2], Siphosenkosi G. Zulu[3], Govert J. van Dam[4], Paul L. Corstjens[4], Hashini N. Galappaththi-Arachchige[2], Pavitra Pillay[5], Svein G. Gundersen[6], Birgitte J. Vennervald[7], Patricia Ndlovu[8], Myra Taylor[3], Saloshni Naidoo[3], Eyrun F. Kjetland[2]
[1]National Department of Health, Pretoria, South Africa, [2]Oslo University Hospital, Oslo, Norway, [3]University of KwaZulu-Natal, Durban, South Africa, [4]Leiden University Medical Center, Leiden, Netherlands, [5]Durban University of Technology, Durban, South Africa, [6]University of Agder, Agder, Norway, [7]University of Copenhagen, Copenhagen, Denmark, [8]BRIGHT Academy, Durban, South Africa

8:10 a.m. 51

VILLAGE, HOUSEHOLD AND INDIVIDUAL LEVEL PREDICTORS OF BOVINE SCHISTOSOMIASIS INFECTION IN RURAL VILLAGES OF SICHUAN, CHINA

Elise Grover[1], Sara Paull[1], Ding Lu[2], Yang Liu[2], Elizabeth Carlton[1]
[1]University of Colorado School of Public Health, Aurora, CO, United States, [2]Sichuan Center for Disease Control and Prevention, Chengdu, China

8:20 a.m. 52

THE SENSITIVITY OF SCHISTOSOMA MANSONI CERCARIAE TO CHLORINE

Laura Braun[1], Yasinta D. Sylivester[2], Michael R. Templeton[3]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]National Institute for Medical Research, Mwanza, United Republic of Tanzania, [3]Imperial College London, London, United Kingdom

8:30 a.m. 53

DEVELOPMENT OF A MULTIPLEX BEAD ASSAY FOR DETECTION OF ANTIBODIES AGAINST SCHISTOSOMA MANSONI INFECTION

Sukwan Handali, Yong Wang, John Noh, Sylvia Ossai, Olga Stuchlik, Matthew S. Reed, Pavel Svoboda, Hilda N. Rivera, Jan Pohl, William E. Secor
Centers for Disease Control and Prevention, Atlanta, GA, United States

(ACMCIP Abstract)

8:40 a.m. 54

RAPID PARASITE DNA AMPLIFICATION USING A DIPSTICK WITH LAMP ASSAY

Oyime P. Aula[1], Catherine A. Gordon[1], Malcolm K. Jones[2], Donald P. McManus[1]
[1]Molecular Parasitology Laboratory, QIMR Berghofer Medical Research Institute, Herston, Australia, [2]School of Veterinary Science, Faculty of Science, The University of Queensland, Queensland, Australia, Gatton, Australia

8:50 a.m. 55

VALIDATION OF THE ISOTHERMAL RECOMBINASE POLYMERASE AMPLIFICATION (RPA) ASSAY FOR THE POINT-OF-CARE MOLECULAR DIAGNOSIS OF FEMALE GENITAL SCHISTOSOMIASIS USING CERVICOVAGINAL LAVAGE AND VAGINAL SELF-SWAB SAMPLES

John Archer[1], Farhan Patwary[2], Amy Sturt[2], Emily Webb[2], Comfort Rutty Phiri[3], Tobias Mwene[3], Lisette Van Lieshout[4], Bonnie Webster[5], Bustinduy L. Amaya[2]
[1]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [2]London School of Hygiene & Tropical Medicine, London, United Kingdom, [3]Zambart, Lusaka, Zambia, [4]Leiden Medical Center, Leiden, Netherlands, [5]Natural History Museum, London, United Kingdom

9 a.m. 56

IDENTIFICATION OF NOVEL THERAPEUTICS AGAINST HUMAN SCHISTOSOMIASIS

Sevan Alwan[1], Alexander Taylor[1], Jayce Rhodes[2], Michael Tidwell[2], Stanton McHardy[2], Philip LoVerde[1]
[1]UT Health at San Antonio, San Antonio, TX, United States, [2]University of Texas at San Antonio, San Antonio, TX, United States

Symposium 12

Entomological Data to Guide Strategic Deployment of New Types of Insecticide Treated Nets for Control of Pyrethroid Resistant Malaria Vectors

Meeting Room 11
Thursday, November 18
8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

The purpose of this symposium is to showcase how countries in sub-Saharan Africa are responding to the threat of insecticide resistance by gathering entomological data to determine where new types of ITNs should be distributed for maximum impact, with specific examples from Uganda and Côte d'Ivoire. A large-scale cluster randomized trial was conducted in Uganda in 2017 to evaluate the impact of ITNs, with and without PBO, over a period of two years. The results of entomological surveys that were carried out prior to the distribution of ITNs in a national universal coverage campaign and at six monthly intervals for two years after net distribution in 104 health sub-districts. This symposium will report on specific insecticide resistance markers, net durability and bio-efficacy. Drawing on country examples, this symposium will also present data from >15 countries in sub-Saharan Africa collected in 2019-2020 to characterize malaria vectors in bioassays to determine pyrethroid resistance status and the response to the addition of the synergist PBO and chlorfenapyr. The case study presented is from Côte d'Ivoire where the National Malaria Control Program made data driven decisions to implement vector control interventions based on robust entomological surveillance. PBO (PermaNet 3.0 and Olyset Plus) and dual active ingredient (Interceptor G2) nets were allocated to districts based on localized resistance profiles. With 113 health districts and extremely heterogenous resistance patterns of the main vector across the country, the program's ability to identify priority districts to receive the new types of ITNs allowed the country to maximize its limited resources. In a separate study, a systematic review of bioassay data from susceptibility testing and experimental huts collected in several countries in west and east Africa was conducted to parameterize a transmission model for *Plasmodium falciparum*. The symposium will quantify the extent to which this will affect the protection offered by ITNs treated with pyrethroid-only or PBO. This method is validated to estimate epidemiological impact of vector control interventions by calibrating the transmission model to randomized control trials of these interventions and predicting the observed prevalence during cross-sectional surveys taking place throughout the trials. The symposium introduces an online tool to help explore impact and cost effectiveness decisions of ITNs and indoor residual spraying.

CHAIR

Richard M. Oxborough
The PMI VectorLink Project, Abt Associates, Rockville, MD, United States

Lilia Gerberg
US President's Malaria Initiative, Washington, DC, DC, United States

8 a.m.
INTRODUCTION

8:10 a.m.
TWO YEARS OF ENTOMOLOGICAL SURVEILLANCE IN UGANDA FOLLOWING THE DISTRIBUTION OF LLINS WITH AND WITHOUT PBO IN THE LLIN EVALUATION IN UGANDA PROJECT (LLINEUP)

Amy Lynd
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

8:35 a.m.
PBO SYNERGIST AND CHLORFENAPYR SUSCEPTIBILITY DATA FROM PMI FOCUS COUNTRIES IN SUB-SAHARAN AFRICA TO GUIDE ITN PROCUREMENT

Joseph Chabi
The PMI VectorLink Project, Abt Associates, Abidjan, Côte D'Ivoire

9 a.m.
DATA DRIVEN DECISION MAKING FOR STRATEGIC DEPLOYMENT OF NEW TYPES OF ITNS AND IRS IN CÔTE D'IVOIRE

Constant G. Gbalegba
National Malaria Control Programme, Abidjan, Côte D'Ivoire

9:25 a.m.
AN EVIDENCE-BASED FRAMEWORK TO SUPPORT SELECTION OF THE MOST APPROPRIATE MALARIA VECTOR CONTROL INTERVENTIONS

Ellie Sherard-Smith
Imperial College London, London, United Kingdom

Break

Thursday, November 18, 9:45 – 10:15 a.m.

Plenary Session 13

Plenary Session II: Fred L. Soper Lecture

Grand Ballroom
Thursday, November 18
10:15 a.m. - 11 a.m. U.S. Eastern Time Zone

The Fred L. Soper Lecture is an honor bestowed upon distinguished workers in environmental control or preventive medicine. Born in 1893, Dr. Soper received his MD from the University of Chicago and a doctorate in public health from Johns Hopkins University in 1925. He began his career working with the Rockefeller Foundation on hookworm control in Brazil. Soper headed an international group that did revolutionary work in research and control of yellow fever in South America, and eventually became director of the Pan American Health Organization. Dr. Soper died in 1977. The first Lecture was delivered by Thomas Weller in 1978, former president of ASTMH and winner of the 1954 Nobel Prize in Medicine or Physiology, in celebration of the 40th anniversary of the Gorgas Memorial Laboratory. The lecture is now a biannual event for ASTMH and focuses on a topic related to environmental control and preventive medicine.

CHAIR
David Freedman
University of Alabama at Birmingham, Birmingham, AL, United States

10:15 a.m.
INTRODUCTION
David Freedman
University of Alabama at Birmingham, Birmingham, AL, United States

10:20 a.m.
FRED L. SOPER LECTURE:
RAPID COVID-19 VACCINE DEVELOPMENT AND THE FUTURE OF VACCINOLOGY

Barney S. Graham, MD, PhD
Former Deputy Director
NIAID Vaccine Research Center at NIH
Bethesda, MD, United States

Barney S. Graham is an immunologist, virologist, and clinical trials physician with an extensive background in basic and translational research applied to vaccine development. After graduating from Rice University earning an MD from the University of Kansas School of Medicine, he completed residency and two chief residencies in Internal Medicine, a fellowship in Infectious Diseases, and a PhD in Microbiology and Immunology at Vanderbilt University School of Medicine, where he was Professor of Medicine with a joint appointment in the Department of Microbiology and Immunology.

In 2000 he became one of the founding investigators of the NIAID Vaccine Research Center at NIH as Chief of the Viral Pathogenesis Laboratory and Clinical Trials Core and was Deputy Director of the VRC before retiring in 2021. He is the recipient of several awards including the Albert B. Sabin Gold Medal Award, and the Albany Medical Center Prize in Medicine and Biomedical Research. He was named one of the world's 100 most influential individuals in 2021 by Time magazine.

He is a thought leader on pandemic preparedness and best known for his research on RSV pathogenesis, structure-based vaccine design, and application of mRNA delivery technology. He has developed novel vaccines for RSV, influenza, Zika, paramyxoviruses, and coronaviruses including the first COVID-19 vaccine and monoclonal antibody to enter clinical testing and that subsequently achieved Emergency Use Authorization and licensure.

Poster Session 14

Poster Session A
Poster Hall
Thursday, November 18
11 a.m. - 12:30 p.m. U.S. Eastern Time Zone

Poster Session A Directory

Global Health - Information/Communication/Technologies Solutions in Global Health including Modeling: 57-69
Global Health – Other: 70-80
Global Health - Planetary Health including Climate Change: 81-89
Global Health - Security/Emerging Infection Preparedness, Surveillance and Response(s): 90-108
Arthropods/Entomology – Other: 109-122
Mosquitoes - Biochemistry and Molecular Biology: 123-130
Mosquitoes - Molecular Genetics: 131-137
Alphaviruses (Includes Chikungunya): 138-153
Flaviviridae – Dengue: 154-166
Viruses – Other: 167-183
Malaria - Biology and Pathogenesis: 184-193
Malaria - Chemotherapy and Drug Resistance: 194-205
Malaria – COVID Impact: 206-211
Malaria - Drug Development - Clinical Trials: 212-213
Malaria - Drug Development - Preclinical Studies: 214-222
Malaria – Epidemiology: 223-244
Malaria - Genetics/Genomics: 245- 256
Malaria – Modeling: 257-269
Malaria – Prevention: 270-281
Malaria - Strategies for Elimination: 282- 291
Malaria – Vaccines: 292-302
Malaria - Vector Control: 303-320
Bacteriology - Enteric Infections: 321-334
Clinical Tropical Medicine: 335-349
Helminths - Nematodes - Filariasis (Cellular and Molecular Biology): 350
Helminths - Nematodes - Filariasis (Clinical): 351
Helminths - Nematodes - Filariasis (Epidemiology): 352-359
HIV and Tropical Co-Infections: 360-373
Kinetoplastida - Cellular and Molecular Biology (Including Leishmania and Trypanosomes): 374- 378
Kinetoplastida - Diagnosis and Treatment (Including Leishmania and Trypanosomes): 379-383
Pneumonia, Respiratory Infections and Tuberculosis: 384- 393
Schistosomiasis and Other Trematodes – Diagnostics and Treatment: 394-399
Schistosomiasis and Other Trematodes – Immunology, Pathology, Cellular and Molecular Biology: 400-404

Global Health – Information/ Communication/Technologies Solutions in Global Health including Modeling

57

FEATURE IMPORTANCE: OPENING A SOIL-TRANSMITTED HELMINTH MACHINE LEARNING MODEL WITH SHAP

Carlos M. Scavuzzo[1], Juan M. Scavuzzo[1], Micaela N. Campero[1], Melaku Anegagrie[2], Aranzazu A. Aramendia[2], Agustín Benito[3], **Maria V. Periago**[4]
[1]Instituto de Altos Estudios Espaciales Mario Gulich, Universidad Nacional de Córdoba - Comisión Nacional de Actividades Espaciales, Córdoba, Argentina, [2]Fundación Mundo Sano, Madrid, Spain, [3]National Centre for Tropical Medicine, Institute of Health Carlos III, Madrid, Spain, [4]CONICET/Fundación Mundo Sano, Buenos Aires, Argentina

58

SAMPLE COMPUTATIONAL STRUCTURES TOWARDS AN EPIDEMIC SIMULATION TOOL COMPRISING COMMUNICATING PROGRAMS ON MOBILE PHONES AND SERVERS

Yael Evelyn Marshall
Y.E.M. Tech Developer, Brookline, MA, United States

59

LANGUAGE, POPULAR CULTURE AND MYTHOLOGY UPHELD FEMALE GENITAL CUTTING AND CHILD MARRIAGE IN SUDAN

Samira Elamin
UNICEF, Khartoum, Sudan

60

CLINEPIDB.ORG: LOWERING THE BARRIER FOR EXPLORATORY DATA ANALYSIS OF GLOBAL HEALTH STUDIES

Nupur D. Kittur[1], Cristina Aurrecoechea[1], John Brestelli[2], Brian P. Brunk[2], Danielle Callan[2], Dave Falke[1], Steve Fischer[2], Danica Helb[2], Jay Humphrey[1], John Judkins[2], Jessica C. Kissinger[1], David S. Roos[2], Steph W. Schulman[2], Sheena S. Tomko[2], Christian J. Stoeckert[2], Jie Zheng[2]
[1]University of Georgia, Athens, GA, United States, [2]University of Pennsylvania, Philadelphia, PA, United States

61

OPERATIONALIZING ROUTINE HMIS DATA FOR A DISEASE BULLETIN IN GUINEA

Adam M. Preston[1], **Mamadou Balde**[2], Thierno Diallo[2], Eugène Kaman Lama[3], Alioune Camara[3], Nouman Diakité[3], Elizabeth Fitch[4], Donal Bisanzio[5]
[1]RTI International, Research Triangle Park, NC, United States, [2]Stop Palu+ Guinea, Conakry, Guinea, [3]NMCP Guinea, Conakry, Guinea, [4]RTI International, Durham, NC, United States, [5]RTI International, Nottingham, United Kingdom

62

SPATIOTEMPORAL VARIATION IN CHILDHOOD RISK OF ENTERIC SHIGELLA INFECTION: A GLOBAL PREDICTIVE MODEL AND RISK MAPPING TOOL

Josh M. Colston[1], Hamada Badr[2], Margaret N. Kosek[1], Benjamin Zaitchik[2]
[1]University of Virginia School of Medicine, Charlottesville, VA, United States, [2]Johns Hopkins University, Baltimore, MD, United States

63

EVALUATION OF A POINT-OF-CARE SCREENING DEVICE "GAZELLE" FOR CHILDREN WITH SICKLE CELL DISEASE IN GHANA

Catherine Segbefia[1], Yvonne Dei-Adomakoh[1], Enoch Mensah[1], Anne Rocheleau[2], Priyaleela Thota[2], Isaac Odame[3]
[1]Korle Bu Teaching Hospital, Accra, Ghana, [2]Hemex Health, Portland, OR, United States, [3]The Global Sickle Cell Disease Network, Toronto, ON, Canada

64

PUTTING POPULATIONS ON THE MAP: LANDSCAPING GEOSPATIAL SOLUTIONS FOR PRIMARY HEALTH CARE

Katelyn Woolheater[1], **Leungo Motlhabane**[1], Jillian Dunning[1], Abigal Ward[1], Marta Prescott[1], Charlotte Dolenz[1], Silvia Renn[2], Arnaud Le Menach[1], Justin Cohen[1]
[1]Clinton Health Access Initiative, Boston, MA, United States, [2]Geo-Referenced Infrastructure and Demographic Data for Development (GRID3), New York, NY, United States

65

PROJECTING TEMPORAL AND SEASONAL PATTERNS OF DENGUE CASES USING CLIMATE ADJUSTED MODELS IN THREE BRAZILIAN METROPOLITAN AREAS

Andrew M. Secor, Mohamed Albirair, Aldina Mesic, Paul K. Drain
University of Washington, Seattle, WA, United States

66

INTRODUCING A MULTIFACETED PLATFORM TO ENGAGE COMMUNITIES IN FIGHTING AGAINST VECTOR CONTROL AND CLIMATE CHANGE

Maggy Sikulu-Lord
Disease Adviser, Brisbane, Australia

67

PERCEPTIONS AND BARRIERS RELATED TO ROUTINE IMMUNIZATION AND COVID-19 VACCINE HESITANCY AND ROLE OF MHEALTH & ELECTRONIC MEDIA IN PAKISTAN DURING THE PANDEMIC: PRELIMINARY DATA FROM AN EXPLORATORY STUDY

Abdul Momin Kazi[1], Nazia Ahsan[1], Waliyah Mughis[1], Saima Jamal[1], Raheel Allana[1], Ayub Khan[1], Osama Afzal[1], Syeda Quratulain Zaidi[1], Mehreen Raza[1], Qudsia Anwer[1], Fauzia A. Malik[2]
[1]Aga Khan University, Karachi, Pakistan, [2]Yale University, New Haven, CT, United States

68

SUPPORTIVE SUPERVISION VISITS TO IDENTIFY GAPS IN DATA MANAGEMENT AND USE AT THE PROVINCIAL LEVEL IN THE DEMOCRATIC REPUBLIC OF CONGO

Johanna Karemere[1], Jadhoul Nkongolo[1], Erick Tshikamba[1], Roddy Panga wa Banza[1], Hyacinthe Kaseya Ilunga[2], Jean Marie Ngbichi[1], Brittany Schriver Iskarpatyoti Iskarpatyoti[3], Yazoume Ye[1]
[1]U.S. President's Malaria Initiative Measure Malaria/ICF, Chapel Hill, NC, United States, [2]National Malaria Control Program, Kinshasa, Democratic Republic of the Congo, [3]U.S. President's Malaria Initiative Measure Malaria/UNC, Chapel Hill, NC, United States

69

INITIAL ASSESSMENT OF THE QUALITY OF MALARIA SURVEILLANCE DATA IN SELECTED HEALTH FACILITIES SUPPORTED BY THE U.S. PRESIDENT'S MALARIA INITIATIVE IN THE DEMOCRATIC REPUBLIC OF THE CONGO

Erick Tshikamba[1], Johanna Karemere[1], Curtis Mukumba[1], Jadhoul Nkongolo[1], Hyacinthe Kaseya[2], Jean Marie N'Gbichi[1], Brittany Schriver Iskarpatyoti[3], Yazoume Ye[1]
[1]U.S. President's Malaria Initiative Measure Malaria/ICF, Chapel Hill, NC, United States, [2]National Malaria Control Program, Ministry of Public Health, Democratic Republic of the Congo, Kinshasa, Democratic Republic of the Congo, [3]U.S. President's Malaria Initiative Measure Malaria, University of North Carolina, Chapel Hill, NC, United States

Global Health – Other

70

USE OF BULK SMS TO SUPPORT HEALTH WORKER KNOWLEDGE RETENTION ON ANTENATAL CARE AND USE OF INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANCY DURING COVID-19 IN BOSSO LOCAL GOVERNMENT AREA OF NIGER STATE, NIGERIA

Charity Anoke[1], Orji Bright[1], Joseph Enne[1], Bartholomew Odio[1], Christina Maly[2], Amina Zimro[3], Ibrahim Idris[3], Elizabeth Njoku[1], Oniyire Adetiloye[1], Emmanuel Dipo Otolorin[1], Elaine Roman[2]
[1]Jhpiego, Abuja, Nigeria, [2]Jhpiego, Baltimore, MD, United States, [3]Niger State Ministry of Health, Minna, Nigeria

71

ASSESSING NURSING EDUCATIONAL NEEDS AND BARRIERS TO CARE THROUGH SEMI-STRUCTURED INTERVIEWS IN A LOW RESOURCE SETTING: A QUALITATIVE STUDY OF PEDIATRIC NURSES IN PORT AU PRINCE, HAITI

Alice Ruscica[1], **Stacey Stokes**[2], Jennifer Rogers[3]
[1]Columbia University, New York Presbyterian, New York, NY, United States, [2]Children's National Hospital, Washington, DC, United States, [3]Bernard Mevs Hospital, Port au Prince, Haiti

72

INFECTION PREVENTION AND CONTROL KNOWLEDGE AND PRACTICES OF FRONTLINE HEALTH CARE WORKERS DURING THE COVID-19 PANDEMIC IN NIGERIA

Bright Orji[1], Elizabeth Oliveras[2], Emmanuel Ugwa[3], Bartholomew Odio[1], Herbert Onuoha[1], Christina Maly[2], Ibrahim Idris[4], Festus Okoh[5], Emmanuel Dipo Otolorin[1], Elaine Roman[2]
[1]Jhpiego, Abuja, Nigeria, [2]Jhpiego, Baltimore, MD, United States, [3]Federal Medical Center, Birnin kudu, Jigawa state, Nigeria, [4]Niger State Ministry of Health, Minna, Nigeria, [5]National Malaria Elimination Program, Federal MOH, Abuja, Nigeria

73

TRENDS AND SOCIOECONOMIC-RELATED INEQUALITIES IN CHILD GROWTH FAILURE FROM 2000 TO 2016 IN ETHIOPIA: A DECOMPOSITION ANALYSIS

Tolesa Bekele Okuba, Patrick Rawstorne, Bayzidur Rahman, Marylouise McLaws
University of New South Wales, Sydney, Australia

74

FACTORS RELATED TO CHANGES IN HEALTH FACILITY ATTENDANCE AMONG PREGNANT WOMEN DURING THE COVID-19 PANDEMIC IN THREE LOCAL GOVERNMENT AREAS OF NIGERIA

Oniyire Adetiloye[1], Bright Orji[1], Elizabeth Oliveras[2], Emmanuel Ugwa[3], Aishatu Bintu Gubio[4], Edima Akpan[5], Bartholomew Odio[1], Herbert Onuoha[1], Ibrahim Idris[6], Emmanuel Dipo Otolorin[1], Elaine Roman[2]
[1]Jhpiego, Abuja, Nigeria, [2]Jhpiego, Baltimore, MD, United States, [3]Federal Medical Center, Birnin kudu, Jigawa state, Nigeria, [4]National Malaria Elimination Program, Federal Ministry of Health, Abuja, Nigeria, [5]Reproductive Health Division, Federal Ministry of Health, Abuja, Nigeria, [6]Niger State Ministry of Health, Minna, Nigeria

75

COMMUNITY ENGAGEMENT TO MANAGE RUMORS IN HEALTH RESEARCH A CASE FROM ETHIOPIA

Ketema Begna[1], Markus Breines[2]
[1]Haramaya University, Ethiopia, Harar, Ethiopia, [2]London School of Hygiene & Tropical Medicine, London, United Kingdom

76

WESTERN AUSTRALIAN & PAPUA NEW GUINEAN EUCALYPTUS SPECIES KINOS: VALIDATION FOR THE TRADITIONAL MEDICINAL USES OF KINOS

Martha W. Yahimbu[1], Rima Caccetta[2], Ricky R. Lareu[2]
[1]University of Papua New Guinea, Port Moresby, Papua New Guinea, [2]Curtin Medical School and Curtin Health Innovation Research Institute, Curtin University, Perth, Australia

77

UNDERSTANDING ANTIMICROBIAL RESISTANCE THROUGH THE LENS OF ANTIBIOTIC VULNERABILITIES IN PRIMARY HEALTH CARE IN RURAL MALAWI

Eleanor MacPherson[1], Joanna Reynolds[2], Chimwemwe Phiri[1], John Mankhomwa[1], Justin Dixon[3], Clare I. Chandler[3]
[1]Malawi-Liverpool-Wellcome, Blantyre, Malawi, [2]Sheffield Hallam University and Capacity Q, Sheffield, United Kingdom, [3]London School of Hygiene & Tropical Medicine, London, United Kingdom

78

ENGAGING ISLAMIC RELIGIOUS SCHOLARS AND LEADERS TO INCREASE ACCEPTANCE OF MITS PROCEDURE IN A MORTALITY SURVEILLANCE PROGRAM IN RURAL BANGLADESH

Faruqe Hussain[1], Emily S. Gurley[2], John Blevins[3], Maria Maixenchs[4], Md. Saiful Islam[5], Sanwarul Bari[1], Abdullah Al Masud[1], Abdus Suban Mulla[1], Abu Uzayer[1], Afroz Zahan[1], Aziz Ahamed[1], Shikha Datta Ggupta[1], Suruj Ali[1], Sazzad Hossain Khan[1], Tonmoy Sarkar[1], Dalia Yeasmin[1], Palash Mutsuddi[1], Shams El Arifeen[1], Shahana Parveen[1]
[1]icddr,b, Dhaka, Bangladesh, [2]John Hopkins University, Maryland, MD, United States, [3]Emory University, Atlanta, GA, United States, [4]ISGlobal, Barcelona, Spain, [5]University of New South Wales, Sydney, Australia

79

COGNITIVE OUTCOMES AT 18 MONTHS: FINDINGS FROM THE EARLY LIFE INTERVENTIONS FOR CHILDHOOD GROWTH AND DEVELOPMENT IN TANZANIA (ELICIT) TRIAL

Tarina Parpia[1], Erling Svensen[2], Sarah Elwood[1], Anne Wanjuhi[1], Ladislaus Blacy[3], Eliwaza Bayo[3], Eric Houpt[1], Elizabeth Rogawski McQuade[1], Mark DeBoer[4], James Platts-Mills[1], Estomih Mduma[3], Rebecca Scharf[1]
[1]University of Virginia Division of Infectious Diseases & International Health, Charlottesville, VA, United States, [2]Haukeland University Hospital, Bergen, Norway, [3]Haydom Global Health Research Centre, Haydom Lutheran Hospital, Haydom, United Republic of Tanzania, [4]University of Virginia Department of Pediatrics, Charlottesville, VA, United States

80

ARE NMCP EMBEDDED TECHNICAL ADVISORS MAKING AN IMPACT? LESSONS LEARNED FROM NMCPS IN WEST, CENTRAL, AND EAST AFRICA

Djenie Esther Danjoint, Katy Gorentz, HRH2030-CBM Advisors --, HRH2030 Project Management Unit --
Chemonics International Inc, Arlington, VA, United States

Global Health – Planetary Health including Climate Change

81

POPULATION CHANGE IN RURAL EASTERN ETHIOPIA BETWEEN 2007 TO 2019: FINDINGS FROM AN OPEN DYNAMIC COHORT DEMOGRAPHIC SURVEILLANCE

Nega Assefa Kassa[1], Gezahegn Mengesha[1], Merga Dheresa[1], Solveig A. Cunningham[2]
[1]Haramaya University, Harar, Ethiopia, [2]Emory University, Atlanta, GA, United States

82

TOWARDS A SUSTAINABLE CONFERENCING: COMPARING THE CARBON FOOTPRINT OF IN-PERSON, VIRTUAL AND HYBRID ASTMH EDITIONS

Teun Bousema[1], Kate Whitfield[2]
[1]Radboudumc, Nijmegen, Netherlands, [2]ISGlobal, Barcelona, Spain

83

FACILITATORS AND BARRIERS TO ADOPTING SUSTAINABLE PRACTICES IN GLOBAL HEALTH INSTITUTIONS

Alexandru Cretu[1], Kate Whitfield[1], Justin Cohen[2], Teun Bousema[3]
[1]ISGlobal, Barcelona, Spain, [2]Clinton Health Access Initiative, New York, NY, United States, [3]Radbound University Medical Centre, Nimega, Netherlands

84

LESSONS LEARNED FROM THE EXPERIENCE OF MOBILIZING COMMUNITY VOLUNTEERS FOR REAL-TIME IDENTIFICATIONS OF STILLBIRTHS AND < 5 CHILD DEATHS IN A CHILD HEALTH PROGRAM IN RURAL BANGLADESH

Abdullah Al Masud[1], Emily S. Gurley[2], Faruqe Hussain[1], Sanwarul Bari[1], Saiful Islam[1], John Blevins[3], Mohammad Zahid Hossain[1], Qazi Sadeq-ur Rahman[1], Atique Iqbal Chowdhury[1], Kyu Han Lee[2], Abu Mohammad Saleheen[1], Palash Mutsuddi[1], Probin Kumer Dey[1], Shams El Arifeen[1], Shahana Parveen[1]
[1]icddr,b, Dhaka, Bangladesh, [2]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [3]Rollins School of Public Health, Emory University,, Atlanta, GA, United States

85

THE IMPACT OF CLIMATE CHANGE ON NEGLECTED TROPICAL DISEASES OF THE SKIN

Eva Rawlings Parker
Vanderbilt University Medical Center, Nashville, TN, United States

86

DENGUE TRANSMISSION RISK IN A CHANGING CLIMATE: BANGLADESH COULD EXPERIENCE A LONGER DENGUE FEVER SEASON IN THE FUTURE

Kishor Kumar Paul[1], Ian Macadam[2], Donna L. Green[2], David G. Regan[1], Richard T. Gray[1]
[1]Kirby Institute, UNSW Sydney, Sydney, Australia, [2]Climate Change Research Centre, UNSW Sydney, Sydney, Australia

87

PRIORITIES FOR VECTOR-BORNE DISEASE RESEARCH UNDER A PLANETARY HEALTH FRAMEWORK: A SCOPING REVIEW AND BIBLIOMETRIC ANALYSIS OF CLIMATE CHANGE AND *AEDES*-VECTORED DISEASES IN AUSTRALIA AND INDO-PACIFIC REGION

Esther Achieng Onyango, Brendan Mackey, Hamish McCallum
Griffith University, Brisbane, Australia

88

CLIMATE CHANGE AND MALARIA RISK IN EAST AFRICA - UNPACKING IMPACTING FACTORS AND INTERVENTION OPTIONS USING BAYESIAN NETWORK MODELLING: A PLANETARY HEALTH APPROACH TO A WICKED PROBLEM

Esther Achieng Onyango[1], Oz Sahin[2], Shannon Rutherford[3], Cordia Chu[4], Brendan Mackey[5]
[1]Griffith University, Centre for Planetary Health and Food Security, Brisbane, Australia, [2]Griffith University, School of Engineering, Gold Coast, Australia, [3]Griffith University, School of Medicine, Brisbane, Australia, [4]Griffith University, Centre for Environment and Population Health, Brisbane, Australia, [5]Griffith University, Climate Change Response Program, Gold Coast, Australia

89

CLIMATOLOGICAL VARIABLES AND THE INCIDENCE OF LEPTOSPIROSIS IN CARTAGENA DE INDIAS, COLOMBIA: AN ECOLOGICAL STUDY FROM 2008 TO 2017

Eder Cano-Pérez[1], Jaison Torres-Pacheco[1], Fabián Espitia-Almeida[2], Steev Loyola[2], Dacia Malambo-García[1], **Doris Gomez-Camargo**[1]
[1]UNIMOL Research Group, Faculty of Medicine, University of Cartagena, Cartagena de Indias, Colombia, [2]Doctorate in Tropical Medicine, Faculty of Medicine, University of Cartagena, Cartagena de Indias, Colombia

Global Health – Security/Emerging Infection Preparedness, Surveillance and Response(s)

90

THE ROLE OF THE UGANDA PUBLIC HEALTH FELLOWSHIP PROGRAM (ADVANCED FETP) IN UGANDA'S COVID-19 RESPONSE

Julie R. Harris[1], Daniel Kadobera[2], Steven N. Kabwama[3], Benon Kwesiga[2], Lilian Bulage[2], Amy L. Boore[1], Alex Ario Riolexus[2]
[1]CDC, Kampala, Uganda, [2]Uganda National Institute of Public Health, Kampala, Uganda, [3]Ugandan National Institute of Public Heath, Kampala, Uganda

91

EFFECT OF ALTITUDE ON COVID-19 MORTALITY IN ECUADOR: AN ECOLOGICAL STUDY

Adriana Campos[1], Bridget Scheveck[1], Jeegan Parikh[1], Santiago Hernandez-Bojorge[1], Enrique Terán[2], Ricardo Izurieta[1]
[1]University of South Florida, Tampa, FL, United States, [2]Universidad San Francisco de Quito, Quito, Ecuador

92

SETTING UP A HEALTH AND DEMOGRAPHIC SURVEILLANCE SYSTEM (HDSS) IN A SEMI-INFORMAL SETTLEMENT: INITIAL EXPERIENCES AND FINDINGS FROM MANYATTA CHAMPS SITE IN KISUMU, KENYA 2016-2018

Thomas Misore
Kenya Medical Research Institute -KEMRI, Kisumu, Kenya

93

PERCEPTIONS AND IMPACT OF COVID-19 ON RESIDENTS IN RURAL COMMUNITY IN BANGLADESH: A QUALITATIVE RAPID ASSESSMENT

Shahana Parveen[1], Maria Maixenchs[2], Sazzad Hossain[1], Tonmoy Sarkar[1], Dalia Yeasmin[1], Faruqe Hussain[1], Md Shariful Sumon[1], Kanij Fatima Chanda[1], Md Reaj Babar[1], Sanwarul Bari[1], John Blevins[3], Emily S. Gurley[4], Shams El Arifeen[1]
[1]icddr,b, Dhaka, Bangladesh, [2]ISGlobal, Hospital Clinic-Universitat de Barcelona, Barcelona, Spain, [3]Emory Global Health Institute, Atlanta, GA, United States, [4]Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

94

MALARIA RESPONSE SYSTEM - A FOUNDATION FOR TARGETED COVID-19 INTERVENTIONS AMONG VULNERABLE POPULATIONS IN SURINAME

Hedley Cairo, Erick Oliva Babastro, Geilys Rodriguez Castro, David Rodriguez Lado, Yanexis Calunga Maseo, Alis Anaya Frometa, Loretta Hardjopawiro, Helene Hiwat
MoH Malaria Program, Paramaribo, Suriname

95

USING MHEALTH SMS SURVEYS FOR ACTIVE SURVEILLANCE OF FEBRILE ILLNESS IN KENYA

Javarcia Davon Ivory[1], Aslam Khan[1], Francis Mutuku[2], Bryson Ndenga[3], Charles Ronga[4], Omar Godana[5], Khamisi Mwangosho[5], Laura Wanjala[4], Victoria Okuta[4], Zainab Jembe[5], Gladys Agola[2], Amrik Kang[1], Angelle Desiree LaBeaud[1]
[1]Stanford University, Stanford, CA, United States, [2]Technical University of Mombasa, Mombasa, Kenya, [3]Kenya Medical Research Institute, Kisumu, Kenya, [4]Jaramogi Odinga Teaching Hospital, Kisumu, Kenya, [5]Likoni Health Center, Mombasa, Kenya

96

GEOGRAPHIC REPRESENTATION OF ACUTE FEBRILE ILLNESS SURVEILLANCE: AN UPDATED GLOBAL SCOPING REVIEW

Casey J. Siesel[1], Madeline Farron[1], Angella Sandra Namwase[1], Grishma A. Kharod[1], Daniel Rhee[2], Adam L. Cohen[1]
[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]International Vaccine Institute, Seoul, Republic of Korea

97

ACUTE FEBRILE ILLNESS SURVEILLANCE IN TWO URBAN HEALTH FACILITIES IN LIBERIA TO IDENTIFY ENDEMIC AND NEW PATHOGENS

Amanda Balish[1], Elijah Paa Edu-Quansah[2], Madeline Farron[1], G. Burgess Gbelee[3], Daniel Martin[1], Gulu Gwesa[4], Denise Roth Allen[5], Maame Amo-Addae[2], Ashaaba Davis[2], John Dogba[3], Fahn Taweh[3], Lekilay Tehmeh[3], Thelma Nelson[6], Diabe Dore[7], Williametta Williams-Gibson[8], Darwin Operario[9], Jie Liu[10], Eric Houpt[9], Adam Cohen[1], Marta Guerra[1], Terrence Lo[1]
[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]AFENET, Monrovia, Liberia, [3]National Public Health Reference Laboratory, Monrovia, Liberia, [4]Centers for Disease Control and Prevention, Liberia, Liberia, [5]Centers for Disease Control and Prevention, Monrovia, Liberia, [6]National Public Health Institute of Liberia, Monrovia, Liberia, [7]Star of the Sea Health Center, Monrovia, Liberia, [8]Redemption Hospital, New Kru Town, Liberia, [9]University of Virginia, Charlottesville, VA, United States, [10]University of Virginia, Charottesville, VA, United States

98

EVALUATION OF OCCUPATIONAL CADRE AND EBOLA VIRUS DISEASE RISK PROFILES DURING PREVENTIVE VACCINATION CAMPAIGN - SOUTH SUDAN, 2019

Rachael Zacks[1], Sudhir Bunga[2], Richard Lino Lako[3], Aimee Summers[1], John H. Gray[4], Rosalind Carter[1]
[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Centers for Disease Control and Prevention, Juba, South Sudan, [3]Ministry of Health, Juba, South Sudan, [4]World Health Organization, Juba, South Sudan

99

COMMUNITY-BASED SURVEILLANCE OF RSV IN INFANT MORTALITY: PROTOCOL FOR MINIMALLY INVASIVE TISSUE SAMPLING (MITS) STUDY IN PAKISTAN

Waliyah Mughis[1], Saima Jamal[1], Nazia Ahsan[1], Ayub Khan[1], Yasir Rauf[1], Christina Arif[1], Farah N. Qamar[1], Zeeshan Uddin[1], Fauzia A. Malik[2], Saad B. Omer[3], Abdul Momin Kazi[1]

[1]Aga Khan University, Karachi, Pakistan, [2]Yale School of Public Health; Yale University, New Haven, CT, United States, [3]Yale School of Public Health; Yale Institute for Global Health, Yale University, New Haven, CT, United States

100

ADDRESSING COVID-19 RUMORS AND BEHAVIORS USING THEORY IN GUYANA

Camille Adams[1], Bolanle Olapeju[2], Joann Simpson[1], Sean Wilson[1], Gabrielle Hunter[2], TrishAnn Davis[3], Lyndsey Mitchum[3], Alicia Martin[4], Shabana Shaw[4], Jennifer Orkis[3], Douglas Storey[3]

[1]Breakthrough ACTION Guyana, Georgetown, Guyana, [2]Johns Hopkins Bloomberg School of Public Health, BALTIMORE, MD, United States, [3]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [4]Guyana Ministry of Health, Georgetown, Guyana

101

IMPLEMENTATION OF MULTIPLEX BEAD ASSAY (MBA) AT THE NATIONAL REFERENCE LABORATORY, NIGERIA CENTRE FOR DISEASE CONTROL (NCDC), GADUWA, ABUJA-NIGERIA: A RESOURCE LIMITED SETTING

Mudiaga K. Esiekpe[1], Ayuba B. Dawurung[1], Patricia Nathan[1], Elizabeth Adeboyejo[1], Ndidi Agala[1], Erasogie Evbuomwan[2], Chimaoge Achugbu[2], Ado Abubakar[1], Nnaemeka Ndodo[2], Stacie Greby[3], Nnaemeka Iriemenam[3], McPaul Okoye[3], Orji Bassey[3], Eric Rogier[4], Gretchen Cooley[4], Melissa Coughlin[4], Nishanth Parameswaran[4], Sarah Gwyn[4], Mahesh Swaminathan[3], Diana Martin[4], Nwando Mba[2], Chikwe Ihekweazu[2]

[1]Institute of Human Virology Nigeria, Abuja, Nigeria, [2]Nigeria Centre for Disease Control, Abuja, Nigeria, [3]United States Centers for Disease Control and Prevention, Nigeria Country Office, Abuja, Nigeria, [4]United States Centers for Disease Control and Prevention, Atlanta, Atlanta, GA, United States

102

FORMATIVE PHASE OF COMMUNITY-BASED SURVEILLANCE OF INFANT RESPIRATORY SYNCYTIAL VIRUS - MINIMALLY INVASIVE TISSUE SAMPLING (MITS) STUDY IN PAKISTAN

Nazia Ahsan[1], Waliyah Mughis[1], Saima Jamal[1], Syeda Quratulain Zaidi[1], Farah N. Qamar[1], Fauzia A. Malik[2], Saad B. Omer[2], Norman Goco[3], Christina Paganelli[3], Abdul Momin Kazi[1]

[1]Aga Khan University, KARACHI, Pakistan, [2]Yale University, New Haven, CT, United States, [3]RTI International, Durham, NC, United States

103

IMPROVING VITAMIN A COVERAGE THROUGH INTEGRATION WITH SEASONAL MALARIA CHEMOPREVENTION (SMC): AN IMPLEMENTATION RESEARCH IN RURAL AND URBAN SETTINGS IN NIGERIA

Olusola B. Oresanya[1], Abimbola Phillips[1], Ebenezer Ikechukwu[1], Emmanuel Shekerau[2], Ogechi Akalonu[3], Perpetua Uhomoibhi[2], Nneka U. Onwu[3], Helen Counihan[4], Jane Achan[5]

[1]Malaria Consortium, Abuja, Nigeria, [2]National Malaria Elimination Programme, Abuja, Nigeria, [3]National Primary Health Care Development Agency, Abuja, Nigeria, [4]Malaria Consortium, London, United Kingdom, [5]Malaria Consortium, Kampala, Uganda

104

UNDERSTANDING INDIVIDUAL AND COMMUNITY CARE-SEEKING BEHAVIORSDURING COVID-19 PANDEMIC IN NIGERIA

Oluseye Ayodele Ajayi[1], Olabanjo Okunlola Ogunsola[1], Kucheli Wudiri[1], Yewande Toluwabori Akinro[1], Olatunbosun Abolarin[1], Prosper Okonkwo[1], McPaul Okoye[2], Michele Montandon[3], Laura Steinhardt[4], Julie Gutman[4], Jessica Butts[5], Shelby Cash[5]

[1]APIN Public Health Initiatives, Abuja, Nigeria, [2]Division of Global HIV/AIDS and Tuberculosis, Center for Global Health, Centers for Disease Control and Prevention, Abuja, Nigeria, Abuja, Nigeria, [3]Maternal and Child Health Branch, Division of Global HIV and Tuberculosis, Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, Atlanta, GA, United States, [4]Malaria Branch, Division of Parasitic Diseases and Malaria, Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, Atlanta, GA, United States, [5]U.S. President's Malaria Initiative, Centers for Disease Control and Prevention, Atlanta, GA, Atlanta, GA, United States

105

NEGOTIATING MYANMAR'S LAW AND (DIS)ORDER AMIDST ANTIMICROBIAL RESISTANCE POLICY IMPLEMENTATION

Yuzana Khine Zaw[1], Ja Seng Bawk[2], Coll de Lima Hutchison[1]

[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]Independent Consultant, Yangon, Myanmar

106

PROTECTING HEALTHCARE PERSONNEL FROM COVID-19 INFECTION: ARE WE DOING ENOUGH? NIGERIA EXPERIENCE

Olabanjo Okunlola Ogunsola[1], Yewande Toluwabori Akinro[1], Oluseye Ayodele Ajayi[1], Kucheli Wudiri[1], Olatunbosun Abolarin[1], Prosper Okonkwo[1], Michele Montandon[2], Paul Malpiedi[3], McPaul Okoye[4], Shelby Cash[5], Jessica Butts[5], Julie Gutman[6], Laura Steinhardt[6]

[1]APIN Public Health Initiatives, Abuja, Nigeria, [2]Division of Global HIV/AIDS and Tuberculosis, Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, Atlanta, GA, United States, [3]Division of Healthcare Quality Promotion, National Center for Emerging and Zoonotic Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, GA, Atlanta, GA, United States, [4]Division of Global HIV/AIDS and Tuberculosis, Center for Global Health, Centers for Disease Control and Prevention, Abuja, Nigeria, Abuja, Nigeria, [5]U.S. President's Malaria Initiative, Centers for Disease Control and Prevention, Atlanta, USA, Atlanta, GA, United States, [6]Malaria Branch, Division of Parasitic Diseases and Malaria, Center for Global Health, Centers for Disease Control and Prevention, Atlanta, USA, Atlanta, GA, United States

107

FACTORS INFLUENCING INTENTIONS TO SEEK CARE FROM COMMUNITY HEALTH WORKERS FOR CHILDHOOD ILLNESS IN THE COVID-19 CONTEXT IN UGANDA—DECEMBER 2020

Denis Okethwangu[1], Shelby Cash[2], Elizabeth Katana[3], Bob Omoda[3], Daniel Emong[3], Peter Oumo[3], Doreen Gonahasa[3], Josephine Namayanja[3], Aggrey Byaruhanga[3], Phoebe Nabunya[3], Patricia Thiwe[3], Umaru Ssekabira[1], Julie Harris[4], Lauren Lewis[2], Anna Bowen[2], Julie Gutman[2], Jessica Butts[2]

[1]Infectious Diseases Institute, Kampala, Uganda, [2]Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]Uganda Public Health Fellowship Program, Kampala, Uganda, [4]Centers for Disease Control and Prevention, Kampala, Uganda

108

COVID-19 SEROLOGY CONTROL PANEL (CSCP) FOR SEROSURVEILLANCE AND CALIBRATION OF IMMUNOLOGICAL TEST PLATFORMS

William Jonathan Windsor[1], Molly M. Lamb[1], Leah Huey[2], Gillian Andersen[2], Patricia Merkel[2], Vijaya Knight[2], May Chu[1]

[1]University of Colorado, Aurora, CO, United States, [2]Children's Hospital Colorado, Aurora, CO, United States

Arthropods/Entomology – Other

109

THE EFFECT OF NOVEL SCABICIDES ON SCABIES-ASSOCIATED BACTERIAL PATHOGENS

Sara Taylor[1], Deonne Walther[2], Kylie Agnew-Francis[2], Deepani D. Fernando[1], Craig Williams[2], Katja Fischer[1]
[1]QIMR Berghofer MRI, Brisbane, Australia, [2]University of Queensland, Brisbane, Australia

110

SURVEILLANCE GAP ANALYSIS AND ECOLOGICAL NICHE MODELING OF MEDICALLY IMPORTANT TICK DISTRIBUTIONS IN EAST AFRICA

Alec G. Richardson[1], Michael E. von Fricken[2], David B. Pecor[1], Alexander Potter[1], Mary Frances Kearney[3], Graham A. Matulis[2], Stephanie Mitchell[4], Rachel Wofford[2], Dawn Zimmerman[5], Katherine Mertes[6], James Hassell[5], Yvonne Marie Linton[1]
[1]Walter Reed Biosystematics Unit (WRBU/WRAIR/SI), Suitland, MD, United States, [2]George Mason University, Fairfax, VA, United States, [3]University of Michigan, Ann Arbor, MI, United States, [4]Center for Species Survival, Smithsonian Institution National Zoological Park and Conservation Biology Institute, Washington, DC, United States, [5]Global Health Program, Smithsonian Institution National Zoological Park and Conservation Biology Institute, Washington, DC, United States, [6]Conservation Ecology Center, Smithsonian Institution National Zoological Park and Conservation Biology Institute, Front Royal, VA, United States

111

SEROPREVALENCE OF SPOTTED FEVER GROUP AND TYPHUS GROUP RICKETTSIAE IN THREE INDIGENOUS COMMUNITIES OF THE PERUVIAN AMAZON

Maria Alejandra Caravedo, Miguel Cabada, Lucas Blanton
University of Texas Medical Branch, Galveston, TX, United States

112

RNA INTERFERENCE IN *SARCOPTES SCABIEI* EGGS: A USEFUL TOOL TO FIND NOVEL OVICIDAL DRUGS

Deepani D. Fernando[1], Robin B. Gasser[2], Katja Fischer[1]
[1]QIMR Berghofer Medical Research Institute, Brisbane, Australia, [2]University of Melbourne, Melbourne, Australia

(ACMCIP Abstract)

113

ANALYSIS OF IGG RESPONSES TO THE 34K2 SALIVARY PROTEINS FROM *AEDES ALBOPICTUS* AND *AEDES AEGYPTI* TO ASSESS HUMAN EXPOSURE TO ARBOVIRAL VECTORS

Sara Buezo Montero[1], Paolo Gabrieli[2], Anne Poinsignon[3], Bi Zmable Hubert Zamble[3], Franck Remoue[3], Bruno Arcà[1]
[1]Sapienza University of Rome, Rome, Italy, [2]University of Milan, Milan, Italy, [3]MIVEGEC, University of Montpellier, IRD, CNRS - Montpellier, France, Montpellier, France

114

PRELIMINARY BLOOD MEAL ANALYSIS OF *CULICOIDES* SPECIES IN *LEISHMANIA* (*MUNDINIA*) *ENRIETTII* COMPLEX-ENDEMIC REGION IN GHANA

Godwin Kwakye-Nuako[1], Priscilla Abena Ankamaa Opare[1], Mba-Thissommah Mosore[2], Seth Offei Addo[2], Mary E. Wilson[3]
[1]University of Cape Coast, Cape Coast, Ghana, [2]Department of Parasitology, U.S. Naval Medical Research Unit No. 3, Noguchi Memorial Institute for Medical Research, University of Ghana, Legon, Accra, Ghana, [3]University of Iowa, Departments of Internal Medicine, Infectious Diseases, Microbiology and Immunology, and the Veterans' Affairs Medical Center, Iowa City, IA, USA, Iowa City, IA, United States

115

INCRIMINATING *CULICOIDES* BITING MIDGES AS VECTORS OF HUMAN CUTANEOUS LEISHMANIASIS IN GHANA AND VALIDATION OF STANDARD LIGHT TRAPS AGAINST EXPLICIT HUMAN BITING RATES

Priscilla Abena Ankamaa Opare[1], Godwin Kwakye-Nuako[1], Marion England[2]
[1]University of Cape Coast, Cape Coast, Ghana, [2]The Pirbright Institute, Surrey, United Kingdom

116

UTILITY OF MALDI-TOF MS IN SPECIES IDENTIFICATION AND BLOOD MEAL ANALYSIS

Jonathan K. Karisa, Kelly Ominde, Martin Rono, Philip Bejon, Joseph Mwangangi, Maureen Laroche, Marta Maia
KEMRI-Wellcome Trust Research Programme, Kilifi, Kenya

117

SPOTLIGHT REPORTS: TICKS AND TICK-BORNE DISEASE THREATS IN ETHIOPIA

Rachel Wofford[1], Graham Matulis[1], David Pecor[2], Alexander Potter[2], Michael von Fricken[1], Bersissa Kumsa[1], Dawn Zimmerman[3], Yvonne-Marie Linton[2]
[1]George Mason University, Fairfax, VA, United States, [2]Walter Reed Biosystematics Unit (WRBU), Suitland, MD, United States, [3]Smithsonian's National Zoological Park and Conservation Biology Institute, Washington, DC, United States

118

STUDY OF RED MEAT ALLERGY USING A MOUSE MODEL WITH BITES OF THE LONE STAR TICK, *AMBLYOMMA AMERICANUM*

L. Paulina Maldonado-Ruiz, Gunavanthi D. Boorgula, Yoonseong Park
Kansas State University, Manhattan, KS, United States

(ACMCIP Abstract)

119

SPOTLIGHT REPORT: TICKS AND TICK-BORNE DISEASE THREATS IN CHAD, A CASE FOR INCREASED SURVEILLANCE

Stephanie Mitchell[1], Graham Matulis[2], Alexander Potter[3], David Pecor[4], Michael von Fricken[5], Alec Richardson[6], Katherine Mertes[7], Dawn Zimmerman[8], Yvonne-Marie Linton[9]
[1]a.) University of California, Berkeley b.) Smithsonian's National Zoological Park and Conservation Biology Institute Global Health Program, a.) Berkeley b.) Washington D.C, CA, United States, [2]George Mason University, Manassas, VA, United States, [3]a.) Walter Reed Biosystematics Unit (WRBU), Smithsonian Institution Museum Support Center b.) Department of Entomology, Walter Reed Army Institute of Research c.) Smithsonian Institution–National Museum of Natural History, a.) Suitland B.) Silver Springs C.) Washington D.C, MD, United States, [4]a.) Walter Reed Biosystematics Unit (WRBU), Smithsonian Institution Museum Support Center b.) Department of Entomology, Walter Reed Army Institute of Research c.) Smithsonian Institution–National Museum of Natural History, A.) Suitland B.) Silver Springs C.) Washington D.C, MD, United States, [5]a.) George Mason University, College of Health and Human Services b.) Smithsonian's National Zoological Park and Conservation Biology Institute Global Health Program, a.) Fairfax b.) Washington D.C, VA, United States, [6]a.) Walter Reed Biosystematics Unit (WRBU), Smithsonian Institution Museum Support Center b.)Department of Entomology, Walter Reed Army Institute of Research c.) Smithsonian Institution–National Museum of Natural History, a.) Suitland b.) Silver Springs c.) Washington D.C, MD, United States, [7]Conservation Ecology Center, Smithsonian's National Zoological Park and Conservation Biology Institute, Front Royal, VA, United States, [8]a.) Smithsonian's National Zoological Park and Conservation Biology Institute Global Health Program b.) Department of Epidemiology of Microbial Disease, Yale School of Public Health, a.) Washington b.) New Haven, DC, United States, [9]a.) Walter Reed Biosystematics Unit (WRBU), Smithsonian Institution Museum Support Center b.) Department of Entomology, Walter Reed Army Institute of Research c.) Smithsonian Institution–National Museum of Natural History, a.) Suitland b.) Silver Springs c.) Washingto D.C., MD, United States

120

MOSQUITOES FROM CO-ENDEMIC AREAS OF MALARIA AND DENGUE IN CENTRAL EASTERN AND SOUTH WESTERN VIETNAM: BIODIVERSITY AND BARCODE

Vu Sinh Nam[1], Nicholas J. Martin[2], Hertz C. Jeffrey[2], Trang Cong Tu[1], Tran Vu Phong[1], Dang Duc Anh[1], Tran Nhu Duong[1], Maysa T. Motoki[3]
[1]National Institute of Hygiene and Epidemiology, Hanoi, Viet Nam, [2]U.S. Naval Medical Research Unit TWO, Singapore, Singapore, Singapore, [3]Walter Reed Biosystematics Unit, Entomology Department, College Park, MD, United States

121

METAGENOMIC PROFILE OF THE MICROBIAL COMMUNITIES ASSOCIATED WITH *ANOPHELES DARLINGI* FROM NORTHWESTERN COLOMBIA

Juan C. Hernández-Valencia[1], Giovan F. Gomez[2], Stefani Piedrahita[1], Juan P. Velez[1], Margarita M. Correa[1]
[1]Grupo de Microbiología Molecular, Escuela de Microbiología, Universidad de Antioquia, Medellin, Colombia, [2]Grupo de Investigación Bioforense, Tecnológico de Antioquia Institución Universitaria, Medellin, Colombia

122

A HABITAT SUITABILITY MODEL FOR *AMBLYOMM AVARIEGATUM* (FABRICIUS, 1794) IN KENYA

Mary F. Kearney[1], Graham Matulis[2], Michael von Fricken[3], David B. Pecor[4], Alexander Potter[4], Alec G. Richardson[4], Maureen Kamau[5], Laura Caicedo-Quiroga[4], Dawn Zimmerman[6], James Hassell[6], Yvonee-Marie Linton[4]
[1]University of Michigan School of Public Health, Ann Arbor, MI, United States, [2]George Mason University, College of Health and Human Services, Fairfax, VA, United States, [3]George Mason University, College of Health and Human Services, Fairfax, VA; Global Health Program, Smithsonian's National Zoological Park and Conservation Biology Institute, Washington DC, USA, Washington, DC, United States, [4]Walter Reed Biosystematics Unit (WRBU), Smithsonian Institution Museum Support Center, Suitland, MD, USA; Department of Entomology, Walter Reed Army Institute of Research, Silver Spring, MD USA; Smithsonian Institution–National Museum of Natural History, Washington, DC, United States, [5]Mpala Research Center, Laikipia, Kenya; Global Health Program, Smithsonian's National Zoological Park and Conservation Biology Institute, Washington, DC, United States, [6]Global Health Program, Smithsonian's National Zoological Park and Conservation Biology Institute, Washington DC, USA; Department of Epidemiology of Microbial Disease, Yale School of Public Health, New Haven, CT, United States

Mosquitoes – Biochemistry and Molecular Biology

123

DISSECTING THE ROLE OF ORNITHINE DECARBOXYLASE IN SUGAR- AND BLOOD-FED *AEDES AEGYPTI* FEMALES

Natthida Petchampai[1], Jun Isoe[2], Patricia Y. Scaraffia[1]
[1]Tulane Unversity, New Orleans, LA, United States, [2]The University of Arizona, Tucson, AZ, United States

124

FLYNAP (TRIETHYLAMINE) IS A SUITABLE ANESTHETIC FOR BIOLOGICAL ASSAYS IN MOSQUITOES

Keri Oxendine Harp[1], Katelyn Cavender[1], Ilsse A. Ortega Eguia[1], Catherine Hunt[1], Priscila Bascunan[1], Mark Q. Benedict[1], Ellen M. Dotson[2]
[1]CDC Foundation, Atlanta, GA, United States, [2]Centers for disease control and prevention (CDC), Atlanta, GA, United States

125

THE IMPACT OF PARTIAL BLOOD MEALS ON MOSQUITO MIDGUT INTEGRITY AND ARBOVIRUS DISSEMINATION

Rebecca Johnson, Duncan Cozens, Zannatul Ferdous, Philip Armstrong, Douglas Brackney
The Connecticut Agricultural Experiment Station, New Haven, CT, United States

126

A NEW MOSQUITO MIDGUT PROTEIN AGAP008138 FACILITATES *PLASMODIUM FALCIPARUM* TRANSMISSION IN *A. GAMBIAE* MOSQUITOES

Julian Ramelow[1], Guodong Niu[2], Diana Romero[2], Jun Li[3]
[1]Herbert Wertheim College of Medicine, Florida International University, Miami, FL, United States, [2]Biological Sciences, Florida International University, Miami, FL, United States, [3]Biological Sciences and Biomolecular Sciences Institute, Florida International University, Miami, FL, United States

(ACMCIP Abstract)

127

X-RAY TOMOGRAPHY AS A USEFUL TECHNIQUE TO EXPLORE THE TIMELINE OF MOSQUITO PROBOSCIS DEVELOPMENT

Irene Arnoldi[1], Paolo Gabrieli[2]
[1]IUSS, Pavia, Italy, [2]University of Milan, Milan, Italy

128

TOWARDS A MALE LETHAL SEXING STRAIN OF *ANOPHELES STEPHENSI* MOSQUITOES FOR THE MANUFACTURE OF PFSPZ VACCINES

Ehud Inbar[1], Abraham G. Eappen[1], Robert A. Harrell[2], Robert T. Alford[2], Maryam Hosseini[1], Donald Ward III[1], B. Kim Lee Sim[1], Stephen L. Hoffman[1], Peter F. Billingsley[1]
[1]Sanaria Inc., Rockville, MD, United States, [2]Biotechnology Research, University of Maryland, Rockville, MD, United States

129

GENETICALLY ENGINEERED ENDOSYMBIONTS OF MOSQUITOES FOR USE IN PARATRANSGENESIS

Emma Harris[1], Tek Hyung Lee[2], Magdalena Franco[2], Mimi Yung[2], Victoria Lao[2], Nicole Collette[2], Brad Borlee[1], Monica Borucki[2], Rebekah Kading[1]
[1]Colorado State University, Fort Collins, CO, United States, [2]Lawrence Livermore National Laboratory, Livermore, CA, United States

130

WARBURG EFFECT IS REQUIRED FOR IMMUNITY IN MOSQUITOES

Alex S. Moon, Jiannong Xu
New Mexico State University, Las Cruces, NM, United States

(ACMCIP Abstract)

Mosquitoes – Molecular Genetics

131

THE WHOLE-GENOME SEQUENCING AND IMPROVED HYBRID ASSEMBLY OF TWO GEOGRAPHICALLY DISTINCT STRAINS OF THE MALARIA VECTOR *ANOPHELES ALBIMANUS*

Dieunel Derilus[1], Dhwani Batra[1], Michael W. Vandewege[2], Ananias A Escalante[3], Audrey Lenhart[1], Gareth D. Weedall[4], Lucy Mackenzie Impoinvil[1]
[1]U.S. Centers for Disease Control and Prevention (CDC) , Atlanta, GA, United States, [2]Eastern New Mexico University , Portales, NM, United States, [3], Temple University, Philadelphia, PA, United States, [4]School of Biological and Environmental Sciences, Liverpool John Moores University, Liverpool, United Kingdom

132

FINE-SCALE POPULATION GENETIC STRUCTURE OF *ANOPHELES* VECTORS OF MALARIA IN PAPUA NEW GUINEA: PANMIXIA, HIGH GENE FLOW AND GENETIC BOTTLENECK FOLLOWING AN INSECTICIDAL BEDNET CAMPAIGN

John B. Keven[1], Rebecca Vinit[2], Michelle Katusele[2], Stephan Karl[3], Edward D. Walker[1]
[1]Michigan State University, East Lansing, MI, United States, [2]Papua New Guinea Institute of Medical Research, Madang, Papua New Guinea, [3]James Cook University, Townsville, Australia

133

GENETIC VARIABILITY WITHIN POPULATIONS OF *ANOPHELES COUSTANI* FROM MADAGASCAR

Tsarasoa Malala Andrianinarivomanana[1], Catherine Dauga[2], Catherine Bourgouin[3], Romain Girod[1]
[1]Medical Entomology Unit, Institut Pasteur de Madagascar, Antananarivo, Madagascar, [2]Arboviruses and Insect Vectors Unit, Institut Pasteur, Paris, France, [3]Functional Genetics of Infectious Diseases Unit, Institut Pasteur, Paris, France

134

AEGYPTI ATLAS: A NEW TRANSCRIPTOMIC RESOURCE REVEALS DETAILED FUNCTIONAL ORGANIZATION OF THE MOSQUITO BODY AND GUT

Bretta L. Hixson, Xiaoli Bing, Xiaowei Yang, Alessandro Bonfini, Péter Nagy, Nicolas Buchon
Cornell University, Ithaca, NY, United States

135

APPLICATION OF METAGENOMICS AND METABARCODING TO CHARACTERIZE RNA VIRUSES CIRCULATING AMONG BITING MIDGES (*CERATOPOGONIDAE*) AND RELATED DIPTERA IN KENYA

Solomon Kipngetich Langat[1], Fredrick Eyase[2], Wallace Bulimo[1], Joel Lutomiah[1], Samuel O. Oyola[3], Mabel Imbuga[4], Rosemary Sang[1]
[1]Centre for Virus Research, Kenya Medical Research Institute, Nairobi, Kenya, [2]Department of Emerging Infectious Diseases, United States Army Medical Research Directorate-Africa, Nairobi, Kenya, [3]International Livestock Research Institute (ILRI), Nairobi, Kenya, [4]Jomo Kenyatta University of Agriculture and Technology (JKUAT), Nairobi, Kenya

136

COMPARATIVE TRANSCRIPTOMICS REVEALS IMMUNE REGULATION SPECIFICITIES IN TWO MAJOR MOSQUITO VECTORS

Louise Huot[1], Xiaowei Yang[1], Bianca Morejon Viteri[2], Kristin Michel[2], Nicolas Buchon[1]
[1]Cornell University, Ithaca, NY, United States, [2]Kansas State University, Manhattan, KS, United States

137

YEAST INTERFERING RNA LARVICIDES TARGETING CONSERVED FEMALE SPECIFIC LARVAL LETHAL LOCI FACILITATE SEX SEPARATION IN MULTIPLE SPECIES OF DISEASE VECTOR MOSQUITOES

Keshava Mysore, Ping Li, Joi Misenti, Joseph B. Roethele, Longhua Sun, John Kosmach, Molly Duman-Scheel
Indiana University School of Medicine, South Bend, IN, United States

Alphaviruses (Includes Chikungunya)

138

HERPES SIMPLEX VIRUS GENE VARIANTS AMONG ASYMPTOMATIC WOMEN IN GHANA: PROOF-OF-CONCEPT STUDY

Oksana Ryabinina Debrah[1], Emmanuel Timmy Donkoh[2], Richard Harry Asmah[3], Gabriella Essuman Amoakoma Ama[4], Francis Agyemang-Yeboah[5]
[1]Ghana Health Service, Accra, Ghana, [2]University of Energy and Natural Resources, Sunyani, Ghana, [3]University of Health and Allied Sciences, Ho, Ghana, [4]University of Ghana, Legon, Accra, Ghana, [5]Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

139

A DIAGNOSTIC METHOD FOR SPECIFIC DETECTION OF ALPHAVIRAL EXPOSURE

Aya Tal-mason[1], Ruiyu Pu[2], Jean-Paul Carrera[3], Crystal L. Moyer[4], Amy Y. Vittor[1]
[1]Department of Medicine, University of Florida College of Medicine, Gainesville, FL, United States, [2]Comparative, Diagnostic & Population Medicine, University of Florida College of Veterinary Medicine, Gainesville, FL, United States, [3]Department of Research in Virology and Biotechnology, Gorgas Memorial Institute of Health Studies, Panama City, Panama, [4]Mapp Biopharmaceutical Inc, San Diego, CA, United States

(ACMCIP Abstract)

140

SPATIOTEMPORAL OVERLAPPING OF DENGUE, CHIKUNGUNYA, AND MALARIA INFECTIONS IN CHILDREN IN KENYA

Aslam Khan[1], Donal Bisanzio[2], Francis Mutuku[3], Bryson Ndenga[4], Zainab Jembe[5], Priscilla Maina[5], Philip Chebii[5], Charles Ronga[4], Laura Mwambingu[4], Victoria Okuta[4], Desiree LaBeaud[1]
[1]Department of Pediatrics, Division of Infectious Diseases, Stanford University, Stanford, CA, United States, [2]RTI International, Washington, DC, United States, [3]Department of Environment and Health Sciences, Technical University of Mombasa, Mombasa, Kenya, [4]Centre for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya, [5]Vector borne Disease control Unit, Msambweni County Referral hospital, Msambweni, Kenya

141

EVALUATION OF THE GROWTH KINETICS OF GETAH VIRUS IN A SCOPE OF MAMMALIAN AND MOSQUITO CELL CULTURES

Faustus Akankperiwen Azerigyik[1], Daisuke Kobayashi[2], Michael Amoa-Bosompem[1], Astri Nur Faizah[3], Shiroh Iwanaga[1], Haruhiko Isawa[2]
[1]Tokyo Medical and Dental University, Bunkyo, Japan, [2]National Institute of Infectious Diseases, Shinjuku, Japan, [3]University of Tokyo, Bunkyo, Japan

142

PERFORMANCE OF AN ANTIBODY-BASED RAPID DIAGNOSTIC TEST FOR CHIKUNGUNYA AMONG FEBRILE PATIENTS IN RIO DE JANEIRO, BRAZIL- A PROSPECTIVE, DIAGNOSTIC ACCURACY STUDY

José Moreira[1], Janaina Barros[1], Karen Trinta[2], Leticia Fernandez-Carballo[3], Camille Escadafal[3], Patricia Brasil[1], Sabine Dittrich[3], André M. Siqueira[1]
[1]Instituto Nacional de Infectologia Evandro Chagas, Rio de Janeiro, Brazil, [2]Bio-Manguinhos, Rio de Janeiro, Brazil, [3]Foundation for Innovative New Diagnostics, Geneva, Switzerland

143

CHIKUNGUNYA: SAFETY UP TO DAY 29 OF PHASE 3 CLINICAL DEVELOPMENT OF A SINGLE-SHOT LIVE-ATTENUATED VACCINE

Martina Schneider, Marivic Narciso, Sandra Hadl, Robert McMahon, Sebastian Toepfer, Robert Mader, Juan-Carlos Jaramillo, Katrin Dubischar, Oliver Zoihsl, Nina Wressnigg, Susanne Eder-Lingelbach
Valneva Austria GMBH, Vienna, Austria

144

DENGUE AND CHIKUNGUNYA VIRUS EXPOSURE AMONG URBAN POPULATIONS IN WESTERN AND COASTAL KENYA

Eleonora Migliore[1], Francis M. Mutuku[2], Bryson A. Ndenga[3], Gladys Agola[4], Jael Sagina[4], Zainab Jembe[4], Charles Ng'ang'a[4], Omar Godana[4], Prathik Kalva[1], Christopher J. Puntasecca[1], Anika Sharma[1], Amrik S. Kang[1], A. Desiree LaBeaud[1]
[1]Stanford University School of Medicine, Department of Pediatrics, Division of Infectious Diseases, Stanford, CA, United States, [2]Technical University of Mombasa, Department of Environment and Health Sciences, Mombasa, Kenya, [3]Kenya Medical Research Institute, Centre For Global Health Research, Kisumu, Kenya, [4]Msambweni Hospital, Vector Borne Disease Unit, Msambweni, Kenya

145

EFFICACY AND IMMUNOGENICITY OF A CHIKUNGUNYA VIRUS-LIKE PARTICLE VACCINE IN A HIGH-DOSE CHIKUNGUNYA INFECTION MODEL IN CYNOMOLGUS MACAQUES

Ravi Anantha[1], Koen Van Rompay[2], Lark L. Coffey[2], Christopher M. Weiss[2], Anil Singapuri[2], Katherine J. Olstad[2], J. Rachel Reader[2], Rebecca Sammak[2], Lo Vang[1], Christopher S. Morello[1], Jeff Alexander[3], Darly Manayani[3], Kelly L. Warfield[1]
[1]Emergent BioSolutions, Gaithersburg, MD, United States, [2]University of California, Davis, CA, United States, [3]Formerly Emergent BioSolutions, Gaithersburg, MD, United States

146

ELUCIDATING THE CELLULAR AND MOLECULAR DETERMINANTS OF ARBOVIRAL INDUCED CARDIOMYOPATHIES

Maria Gabriela Noval[1], Payal Damani-Yokota[1], Stephen T. Yeung[1], Franco Izzo[2], Bruno A. Rodriguez-Rodriguez[1], Karina Gonzalez-Carta[3], Igor Morr[4], Ivan Mendoza[5], Adrian Baranchuk[6], Kamal M. Khanna[1], Kenneth A. Stapleford[1]
[1]Microbiology Department, NYU Grossman School of Medicine, NYC, NY, United States, [2]Weill Cornell Medicine and New York Genome Center, NYC, NY, United States, [3]Mayo Clinic, Rochester, MN, United States, [4]Institute of Tropical Cardiology, Maracay, Bolivarian Republic of Venezuela, [5]Institute of Tropical Medicine, Central University of Venezuela, Caracas, Bolivarian Republic of Venezuela, [6]Queen's University, Kingston, ON, Canada

(ACMCIP Abstract)

147

REEMERGENCE OF CHIKUNGUNYA VIRUS AMONG THE PARTICIPANTS IN THE UNDIFFERENTIATED FEBRILE ILLNESS STUDY IN CAMBODIA 2020

Marvin Joel Sklar[1], Sokha Dul[1], Limseng Sok[1], Pidor Ouch[1], Phireak Hip[1], Chontida Supaprom[1], Vireak Heang[1], Agus Rachmat[1], Chenda Yi[1], Robert D. Hontz[2], Chhea Chhorvann[3], Ian Sutherland[1]
[1]NAMRU-2, DPO AE, AE, United States, [2]NAMRU-2, FPO, AE, United States, [3]National Institute of Public Health, Phnom Penh, Cambodia

148

MULTIPLE BLOOD MEALS ENHANCE EARLY DISSEMINATION OF ARBOVIRUSES IN THREE MEDICALLY RELEVANT MOSQUITO GENERA

Zannatul Ferdous[1], Hannah Sproch[1], Constentin Dieme[2], Rebecca Rebecca Johnson[1], Alexander Ciota[3], Philip Armstrong[1], Doug Brackney[1]
[1]Connecticut Agricultural Experiment Station, New Haven, CT, United States, [2]Wadsworths Center, New York State Department of Health, Slingerlands, NY, U.S.A, New York, NY, United States, [3]Wadsworths Center, New York State Department of Health, Slingerlands, NY, U.S.A, New York, CT, United States

149

CARDIOMYOPATHY AND DEATH FOLLOWING CHIKUNGUNYA INFECTION: AN INCREASINGLY COMMON OUTCOME

Elizabeth Traverse[1], Hannah Hopkins[1], Vedana Vaidhyanathan[2], Kelli Barr[1]
[1]University of South Florida, Tampa, FL, United States, [2]Baylor University, Waco, TX, United States

150

THE RISK AND RISK FACTORS OF CHIKUNGUNYA VIRUS RHEUMATOLOGICAL SEQUELAE IN A FIVE-YEAR VIRTUAL COHORT OF U.S. MILITARY HEALTH SYSTEM BENEFICIARIES

Simon Pollett[1], Hsing-Chuan Hsieh[1], Dan Lu[1], Melissa Grance[1], Gosia Nowak[2], Carlos Morales[1], Charlotte Lanteri[1], David Tribble[1], Timothy Burgess[1]
[1]Infectious Diseases Clinical Research Program, Bethesda, MD, United States, [2]EpiData Center, Navy and Marine Corps Public Health Center, Portsmouth, VA, United States

151

A SYSTEMATIC REVIEW AND META-ANALYSIS OF THE POTENTIAL NON-HUMAN ANIMAL RESERVOIRS AND ARTHROPOD VECTORS OF THE MAYARO VIRUS

Michael Celone[1], Barbara Han[2], Brett Forshey[3], Assaf Anyamba[4], James Dunford[1], George Rutherford[5], Neida M. Mendoza[6], Simon Pollett[7]
[1]Uniformed Services University of the Health Sciences, Bethesda, MD, United States, [2]Cary Institute of Ecosystem Studies, Millbrook, NY, United States, [3]Armed Forces Health Surveillance Division, Silver Spring, MD, United States, [4]NASA/Goddard Space Flight Center & University Space Research Association Goddard Earth Science and Technology Research (USRA/GESTAR) Biospheric Sciences Laboratory, Greenbelt, MD, United States, [5]Institute for Global Health Sciences, University of California, San Francisco, San Francisco, CA, United States, [6]Department of Microbiology and Immunology, SUNY Upstate Medical University, Syracuse, NY, United States, [7]Infectious Disease Clinical Research Program, Department of Preventive Medicine and Biostatistics, Uniformed Services University of the Health Sciences, Bethesda, MD, United States

152

CHIKUNGUNYA VIRUSES CONTAINING THE A226V MUTATION DETECTED RETROSPECTIVELY IN CAMEROON FORM A NEW GEOGRAPHICAL SUBCLADE

Terrel Sanders[1], Bright Agbodzi[1], Anne Fox[1], Mba Mosore[1], Karla Prieto[1], Ronald Bentil[1], Michael Wiley[1], Naiki Attram[1], Selassie Kumordjie[1], Shirley Nimo-Paintsil[1], Joseph Kofi Bonney[1], Rhoel Dinglasan[1], Chaselynn Watters[1], Andrew Letizia[2]
[1]NAMRU-3, Marion, SC, United States, [2]NMRC, Silver Springs, MD, United States

153

IMMUNOLOGICAL INSIGHTS BASED ON ANTIBODY BINDING EPITOPES ON THE CHIKUNGUNYA VIRUS ENVELOPE

Edgar Davidson[1], Rachel H. Fong[1], Rebecca Rimkunas[1], Jing Jin[2], Graham Simmons[2], Michael S. Diamond[3], Benjamin J. Doranz[1]
[1]Integral Molecular, Inc., Philadelphia, PA, United States, [2]Vitalant Research Institute, San Francisco, CA, United States, [3]Department of Molecular Microbiology, Washington University School of Medicine, St. Louis, MO, United States

Flaviviridae – Dengue

154

THE DIGITAL TRANSFORMATION OF THE HIV CARE AND TREATMENT\PROGRAM AT JUBA MILITARY HOSPITAL IN SOUTH SUDAN

Minallah Bilal[1], Awin Changjowk[1], Ally Lasu[2], Katie Grimes[2], Adam Preston[2]
[1]RTI International, Juba, South Sudan, [2]RTI International, Durham, NC, United States

155

EPITOPE BIOMARKERS FOR THE DETECTION OF ANTI-DENGUE ANTIBODIES IN HUMAN SERA

Francesca Falconi-Agapito[1], Karen Kerkhof[1], Marjan Van Esbroeck[2], Xiomara Merino[3], Michael Talledo[3], Kevin A. Ariën[1]
[1]Department of Biomedical Sciences, Unit of Virology, Institute of Tropical Medicine, Antwerp, Belgium, [2]Department of Clinical Sciences, National Reference Center for Arboviruses, Institute of Tropical Medicine, Antwerp, Belgium, [3]Virology Unit, Instituto de Medicina Tropical Alexander von Humboldt, Universidad Peruana Cayetano Heredia, Lima, Peru

156

DENGUE AND CHIKUNGUNYA SURVEILLANCE IN CAMBODIA, 2015-2020

Robert D. Hontz[1], Sokha Dul[2], Vireak Heang[2], Phireak Hip[2], Chenda Yi[2], Agus Rachmat[2], Chonthida Supaprom[2], Marvin J. Sklar[2], Jose A. Garcia-Rivera[2], Chhea Chhorvann[3], John S. Brooks[2], Ian W. Sutherland[2]
[1]U.S. Naval Medical Research Unit TWO (NAMRU-2), Singapore, Singapore, [2]U.S. Naval Medical Research Unit TWO (NAMRU-2), Phnom Penh, Cambodia, [3]National Institute of Public Health, Phnom Penh, Cambodia

157

DEVELOPMENT AND CHARACTERIZATION OF A MULTIPLEX ASSAY TO QUANTIFY COMPLEMENT-FIXING ANTIBODIES AGAINST DENGUE VIRUS

Eduardo J. M. Nascimento, Brooke Norwood, Allan Parker, Ralph Braun, Hansi J. Dean
Takeda Vaccines, Cambridge, MA, United States

158

VARIATION IN DENGUE SEVERITY ACROSS PREGNANCY STATUS FROM 2017-2018 IN MEXICO: AN INTERACTION BETWEEN PREGNANCY AND DENGUE SEROTYPE

Esther Annan[1], Jesús Treviño[2], Ubydul Haque[1]
[1]University of North Texas Health Science Center, Fort Worth, TX, United States, [2]Universidad Autónoma de Nuevo León, San Nicolás de los Garza, Nuevo Léon, Mexico

159

CORRELATION OF THROMBOCYTOPENIA WITH GALL BLADDER WALL THICKNESS: A PREDICTIVE ANALYSIS FOR BLEEDING RISK AND NEED OF PLATELET TRANSFUSION IN DENGUE INFECTION

Muhammad Sohaib Asghar, Saira Anwar, Farah Yasmin
Dow University of Health Sciences, Karachi, Pakistan

160

CHARACTERIZATION OF THE NEUTRALIZING ANTIBODY RESPONSE IN BASELINE SERONEGATIVE CHILDREN, ADOLESCENT AND ADULT RECIPIENTS OF A TETRAVALENT DENGUE VACCINE

Melissa Zahralban-Steele[1], Maima Kaiser[1], Tim Rindfleisch[1], Kelly Bohning[1], Brooke Norwood[1], David Dominguez[1], Christina DeMaso[1], Mayuri Sharma[1], Hansi Dean[1], DEN-304 & DEN-301 study groups
[1]Vaccine Business Unit, Takeda Pharmaceuticals, Cambridge, MA, United States

161

TAK-003 VACCINE-DRIVEN NEUTRALIZATION OF DIVERSE DENGUE GENOTYPES CIRCULATING IN ASIA PACIFIC AND LATIN AMERICA REGIONS

Lovkesh Karwal[1], Maima Kaiser[1], Kelly Bohning[1], Melissa Zahralban-Steele[1], Eduardo J. Nascimento[1], Christina DeMaso[1], Whitney Baldwin[1], Stefan Fernandez[2], Mayuri Sharma[1], Hansi Dean[1], DEN-301 study group --[1]
[1]Takeda Pharmaceuticals Inc., U. S. A., Cambridge, MA, United States, [2]Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand

162

SAFETY AND IMMUNOGENICITY OF TAKEDA'S TETRAVALENT DENGUE VACCINE ADMINISTERED DURING THE SECOND HALF OF ITS 24-MONTH SHELF-LIFE

Sanjay S. Patel[1], Peter Winkle[2], Sonja Moua[3], Alice Faccin[1], Francesco Nordio[3], Claudia Galindo-Tsoukas[3]
[1]Takeda Pharmaceuticals, Glattpark-Opfikon (Zurich), Switzerland, [2]Anaheim Clinical Trials, Anaheim, CA, United States, [3]Takeda Pharmaceuticals International Inc., Cambridge, MA, United States

163

PHYLODYNAMICS VERSUS EPIDEMIOLOGICAL DYNAMICS OF DENGUE IN BANGKOK, 1994-2014

Bernardo Garcia-Carreras[1], Angkana T. Huang[1], Carla Mavian[1], Henrik Salje[2], Leah Katzelnick[3], Ana Coello Escoto[1], Nayeem Chowdhury[1], Christian Chávez[1], Wiriya Rutvisuttinunt[4], Irina Maljkovic Berry[4], Chonticha Klungthong[5], Butsaya Thaisomboonsuk[5], Ananda Nisalak[5], Sopon Iamsirithaworn[6], Pawinee Doung-Ngern[6], Isabel Rodriguez-Barraquer[7], Damon W. Ellison[4], Anthony R. Jones[5], Stefan Fernandez[5], Tim Endy[8], Derek J. Smith[2], Richard G. Jarman[5], Stephen S. Whitehead[3], Derek A. Cummings[1]
[1]University of Florida, Gainesville, FL, United States, [2]University of Cambridge, Cambridge, United Kingdom, [3]National Institutes of Health, Bethesda, MD, United States, [4]Walter Reed Army Institute of Research, Silver Spring, MD, United States, [5]Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, [6]Ministry of Public Health, Nonthaburi, Thailand, [7]University of California, San Francisco, San Francisco, CA, United States, [8]State University of New York Upstate Medical University, Syracuse, NY, United States

164

CHYMASE AND LIPOPOLYSACCHARIDE BINDING PROTEIN: POTENTIAL BIOMARKERS FOR SEVERE DENGUE

Cynthia Bernal[1], Fátima Cardozo[2], Alejandra Rojas[1], Patricia Langjahr[3], Oliver Caballero[1], Patricia Luraschi[4], Marta Von-Horoch[4], Sandra Cabral[4], César Cantero[1], Maria Eugenia Acosta[1], Yvalena Arévalo[1], Malvina Páez[2], Laura Mendoza[2], **Jesse J. Waggoner**[5]
[1]Universidad Nacional de Asunción, Instituto de Investigaciones en Ciencias de la Salud, Departamento de Producción, San Lorenzo, Paraguay, [2]Universidad Nacional de Asunción, Instituto de Investigaciones en Ciencias de la Salud, Departamento de Salud Pública, San Lorenzo, Paraguay, [3]Universidad Nacional de Asunción, Facultad de Ciencias Químicas, Departamento de Biotecnología, San Lorenzo, Paraguay, [4]Hospital Central del Instituto de Previsión Social, Departamento de Epidemiología, Asunción, Paraguay, [5]Emory University School of Medicine, Division of Infectious Diseases, Atlanta, GA, United States

165

NEUTRALIZING AND ENHANCING EFFECTS OF DENGUE ANTIBODIES IN INDIVIDUALS OVER TIME WITH DIFFERENT DISEASE OUTCOMES

Hoa Thi My Vo, Vinit Upasani, Heidi Auerswald, Sokchea Lay, Axelle Vanderlinden, Sopheak Sorn, Sowath Ly, Veasna Duong, Philippe Dussart, Tineke Cantaert
Institut Pasteur du Cambodge, Phnom Penh, Cambodia

166

THE BURDEN OF DENGUE IN LATIN AMERICA AND ASIA -EPIDEMIOLOGICAL DATA FROM A PHASE 3 TRIAL

Randee Kastner[1], John Weil[2], Mengya Liu[1], Vianney Tricou[2], Nicolas Folschweiller[2], Shibadas Biswal[1], TIDES Study Group[3]
[1]Takeda Inc, Cambridge, MA, United States, [2]Takeda Pharmaceuticals International AG, Zurich, Switzerland

Viruses – Other

167

TRENDS AND CHARACTERISTICS OF HUMAN RABIES IN NORTHWESTERN BORNEO ISLAND, 2017 - 2020

Nur Asheila Abdul Taib, Jane Labadin, Razitasham Safii
UNIMAS, Samarahan, Malaysia

168

GLYCATED CHITOSAN REDUCES MORTALITY IN A LETHAL MOUSE MODEL OF SARS-COV-2

Christopher M. Weiss[1], Hongwei Liu[1], Erin E. Ball[1], Samuel Siu Kit Lam[2], Tomas Hode[2], Lu Alleruzzo[2], Richard M. Levenson[3], Lark L. Coffey[1]
[1]University of California, Davis, Davis, CA, United States, [2]Immunophotonics, Inc., St. Louis, MO, United States, [3]UC Davis Health, Sacramento, CA, United States

169

KNOWLEDGE AND RISK PERCEPTION ABOUT ZIKA AMONG REPRODUCTIVE-AGED WOMEN IN THE ZIKA VIRUS OUTBREAK IN PERU

Pamela Roxana Chacón-Uscamaita
Universidad Peruana Cayetano Heredia, Lima, Peru

170

RANDOMIZED CLINICAL TRIAL, PHASE 2, TO EVALUATE THE EFFICACY OF ARTESUNATE IV ALONE OR COMBINED WITH VITAMIN C IV FOR THE TREATMENT OF COVID-19

Rianasoambolanoro Rakotosaona[1], Sedera Aurelien Mioramalala[1], Fridolin Maminiaina[2], Fanomezantsoa Rakoto[3], Willy Ratovondrainy[3], Antsa Rakotondrandriana[1], Dominique Razafimandimby[3], Rabenja Rapelanoro[4], Zely Randriamanantany[5], Rivo Rakotoarivelo[5], Olivat Rakoto[6], Jhurry Dhanjay[7], Arsene Claude Ratsimbasoa[1], Luc Rakotovao[4], David Ramanitrasimbola[4]
[1]Centre National d'Application de Recherches Pharmaceutiques, Antananarivo, Madagascar, [2]Institut Malgache des Vaccins Véterinaires, Antananarivo, Madagascar, [3]Military Hospital of Antananarivo, Antananarivo, Madagascar, [4]Faculty of Medicine, Univerity of Antananarivo, Antananarivo, Madagascar, [5]Faculty of Medicine, Univerity of Fianarantsoa, Fianarantsoa, Madagascar, [6]HJRA Hospital, Antananarivo, Antananarivo, Madagascar, [7]University of Mauritius, Moka, Mauritius

171

DETECTION OF SARS-COV-2 IN EXHALED AIR USING NON-INVASIVE EMBEDDED STRIPS IN MASKS

Emily N. Gallichotte[1], William Jon Windsor[2], Stuart Watts[1], Elijah Barstis[1], Charles Henry[1], Thomas Jaenisch[2], Molly M. Lamb[2], Geoffrey Winstanley[2], May Chu[2], Gregory Ebel[1]
[1]Colorado State University, Fort Collins, CO, United States, [2]Colorado School of Public Health, Aurora, CO, United States

172

DIRECT DETECTION OF GUAICO CULEX VIRUS (GCXV) IN *CULEX* SPP. MOSQUITOES OF COSTA RICA

Alejandro Chacón-Chacón[1], Luis M. Romero-Vega[1], Eugenia Corrales-Aguilar[1], Jason T. Ladner[2], **Adriana Troyo**[1]
[1]Centro de Investigación en Enfermedades Tropicales, Facultad de Microbiología, Universidad de Costa Rica, San Jose, Costa Rica, [2]The Pathogen and Microbiome Institute, Northern Arizona University, Flagstaff, AZ, United States

173

SEROLOGICAL EVIDENCE OF LOW PATHOGENIC AVIAN INFLUENZA SEROTYPE H9 IN LIVE BIRD MARKETS, JOS, PLATEAU STATE NIGERIA

David A. Abiayi, Gbeminiyi R. Otolorin, Clement A. Meseko, Asabe D. Emennaa
University of Jos, plateau state, Nigeria, Jos, Nigeria

174

CO-CIRCULATION OF CHIKUNGUNYA VIRUS, ALL FOUR DENGUE VIRUSES AND ZIKA VIRUS IN GUERRERO, MEXICO, 2019 AND EVIDENCE OF GROSS UNDER-REPORTING OF ARBOVIRAL DISEASES IN THE REGION

Daniel Nunez Avellaneda[1], Chandra Chandra Tangudu[1], Jacqueline Barrios-Palacios[2], Ma. Isabel Salazar[3], Carlos Machain-Williams[4], Jonathan Cisneros-Pano[5], Bradley Blitvich[1]
[1]Iowa State University, Ames, IA, United States, [2]National Institute of Medical Sciences and Nutrition Salvador Zubirán, Ciudad de México, Mexico, [3]Escuela Nacional de Ciencias Biológicas Instituto Politécnico Nacional, Ciudad de México, Mexico, [4]Universidad Autonoma de Yucatan, Merida, Mexico, [5]Universidad Autonoma de Guerrero, Chilpancingo, Mexico

175

AN EPIDEMIOLOGICAL STUDY OF A SARS-COV-2 OUTBREAK INVOLVING A RURAL CHURCH SERVICE

Megan McCarthy[1], Shannan Rich[2], Michaela Gross[3], Sara Nutley[2], Brittany Merens[4], Daniel Chacreton[1]
[1]Florida Department of Health, Bushnell, FL, United States, [2]University of Florida, Gainesville, FL, United States, [3]University of South Florida, Tampa, FL, United States, [4]Florida Department of Health, New Port Richey, FL, United States

176

DO NOROVIRUS AND SAPOVIRUS GASTROENTERITIS EPISODES IN EARLY CHILDHOOD PROTECT AGAINST FUTURE EPISODES?

Sylvia Becker-Dreps[1], Yaoska Reyes[2], Bryan Blette[1], Nadja Vielot[1], Fredman Gonzalez[2], Christian Toval-Ruiz[2], Lester Gutierrez[2], Samuel Vilchez[2], Marta Diez-Valcarce[3], Jan Vinje[3], Filemon Bucardo[2]
[1]University of North Carolina, Chapel Hill, NC, United States, [2]Universidad Nacional Autonoma de Nicaragua, Leon, Leon, Nicaragua, [3]Centers for Disease Control and Prevention, Atlanta, GA, United States

177

DETECTION OF ANTIBODIES TO LOKERN, MAIN DRAIN, ST. LOUIS ENCEPHALITIS AND WEST NILE VIRUSES IN VERTEBRATE ANIMALS IN CHIHUAHUA, GUERRERO AND MICHOACÁN, MEXICO

S. Viridiana Laredo-Tiscareno[1], Javier A. Garza-Hernandez[2], Carlos A. Rodríguez-Alarcón[2], Jaime R. Adame-Gallegos[3], Diana M. Beristain-Ruiz[2], Ignacio N. Barajas López[4], Rodolfo González-Peña[3], David Baylon Jaquez[5], Adriana Camacho Perea[4], Alfonso Vega Durán[2], Ezequiel Rubio Tabares[2], Ramón Rivera-Barreno[5], Carolina Montelongo-Ponce[2], Chandra S. Tangudu[1], Bradley Blitvich[1]
[1]Iowa State University, Ames, IA, United States, [2]Universidad Autónoma de Ciudad Juárez, Juarez, Mexico, [3]Universidad Autónoma de Chihuahua, Chihuahua, Mexico, [4]Universidad Michoacana de San Nicolás de Hidalgo, Morelia, Mexico, [5]Universidad Autónoma de Ciudad Juárez, Juárez, Mexico

178

DETAILED VIRAL SHEDDING KINETICS PRIOR TO SYMPTOM ONSET IN PATIENTS WITH SARS-COV-2 INFECTION

Seongman Bae, Jiwon Jung, Eun Ok Kim, Joon Seo Lim, Heungsup Sung, Sung-Cheol Yun, Sung-Han Kim
Asan Medical Center, Seoul, Republic of Korea

179

RHABDOMYOLYSIS AS PRESENTING FEATURE OF COVID-19: CASE SERIES AND LITERATURE REVIEW

Hendrik Sy[1], Christian Olivo Freites[2], Patricia Miguez Arosemana[1], Gustavo Contreras[3], Alejandro Prigollini[1], Georgina Osorio[1]
[1]Icahn School of Medicine at Mount Sinai, Mount Sinai Morningside - West Hospitals, New York, NY, United States, New York, NY, United States, [2]University of California Los Angeles, Los Angeles, CA, United States, [3]Stanford University, Stanford, CA, United States

180

MOLECULAR BARRIERS TO SARS-COV-2 REPLICATION IN BAT CELLS

Sophie-Marie Aicher[1], Felix Streicher[1], Maxime Chazal[1], Delphine Planas[2], Dongsheng Luo[3], Julian Buchrieser[2], Jordi Serra-Cobo[4], Dominique Pontier[5], Olivier Schwartz[2], Jiri Pikula[6], Laurent Dacheux[3], Nolwenn Jouvenet[1]
[1]Virus Signaling and Sensing Unit, Institut Pasteur Paris, Paris, France, [2]Virus and Immunity Unit, Institut Pasteur Paris, Paris, France, [3]Lyssavirus Epidemiology and Neuropathology Unit, Institut Pasteur Paris, Paris, France, [4]Department of Evolutionary Biology, Ecology and Environmental Sciences, Biodiversity Research Institute (IRBIO), University of Barcelona, Barcelona, Spain, [5]University Lyon, Université Lyon 1, CNRS, Laboratoire de Biométrie et Biologie Evolutive UMR5558, Villeurbanne, France, [6]Department of Ecology and Diseases of Game, Fish and Bees, University of Veterinary and Pharmaceutical Sciences Brno, Brno, Czech Republic

181

SEROPREVALENCE OF RIFT VALLEY FEVER VIRUS IN URBAN KENYA: A POTENTIAL PUBLIC HEALTH BURDEN HIDING IN PLAIN SIGHT

Keli N. Gerken[1], Eleonora Migliore[1], Said Malumbo[2], Karren N. Shaita[3], Gladys Agola[3], Eduardo Fabre[1], Francis Mutuku[4], Bryson Ndenga[3], A. Desiree LaBeaud[1]
[1]Stanford University School of Medicine, Stanford, CA, United States, [2]Vector borne Disease Unit, Msambweni Hospital, Msambweni, Kenya, [3]Kenya Medical Research Institute (KEMRI), Kisumu, Kenya, [4]Technical University of Mombasa, Mombasa, Kenya

182

PREVALENCE AND VERTICAL TRANSMISSION OF SARS-COV-2 INFECTION AMONG PARTURIENTS FROM LUANDA, ANGOLA

Cruz Sebastião[1], Paolo Parimbelli[2], Augusto Bambi[2], Eden Bernardo[2], Joaquim Mauito[2], Mateus Cristovão[2], Jeffrey Ernesto[2], Emanuel Junior[2], Herio Tiberio[2], Paulo André[2], Paulo Bumba[2], Lelo Cambungo[2], Amadeu Catanha[2], Anabela Mateus[1], Janete António[3], Francisco Manuel[3], Luzia Quipungo[3], Manuela Mendes[2], António Mateus[3], Zinga David[3], Joana Morais[3], Jocelyne Neto de Vasconcelos[1], Miguel Brito[4]
[1]Centro de Investigação em Saúde de Angola, Caxito, Angola, [2]Maternidade Lucrécia Paim, Ministério da Saúde, Luanda, Angola, Luanda, Angola, [3]Instituto Nacional de Investigação em Saúde, Luanda, Angola, [4]Health and Technology Research Center, Escola Superior de Tecnologia da Saúde de Lisboa, Instituto Politécnico de Lisboa, 1990-096 Lisboa, Portugal, Lisboa, Portugal

183

KNOWLEDGE, ATTITUDES, AND PRACTICES REGARDING SARS-COV-2 IN A UNIVERSITY COMMUNITY, MASSACHUSETTS, USA AND THE OPTIMIZATION OF COVID-19 RESPONSE PLANNING: A QUALITATIVE STUDY

Teah R. Snyder, Johanna Ravenhurst, Kate Wallace, Eva Chow, Sarah Goff, Sheila Pennell, Andrew A. Lover
University of Massachusetts Amherst, Amherst, MA, United States

Malaria – Biology and Pathogenesis

184

THREE YEARS OF INSECTICIDE RESISTANCE MONITORING IN FIVE SENTINEL SITES IN CAMEROON: CONTRIBUTION TO VECTOR CONTROL DECISION MAKING

Etienne Fondjo[1], Jean-Claude Toto[2], Magellan Tchouakui[3], Elysee Ekoko Wolfang[2], Salemon Patchoke[4], Benjamin Menze[5], Boris Njeambosay[6], Raymond Tabue[4], Elysee Mandeng[2], Emmanuel Elanga[5], Cyrille Ndo[5], Billy Tene[3], Elysee Nchoutpouen[2], Edmond Kopya[2], Dorothy Achu[4], Kelley Ambrose[7], Judith Hedje[8], Jose Tchofa[9], Jenney Carlson[10], Sarah Zohdy[11], Joseph Chabi[12]
[1]Vectorlink Cameroon, Yaounde, Cameroon, [2]Organization for the Coordination of Endemic Diseases in Central Africa, Yaounde, Cameroon, [3]Center for Research on Infectious Diseases, Yaounde, Cameroon, [4]National Malaria Control Programme, Yaounde, Cameroon, [5]Centre for Research in Infectious Diseases, Yaounde, Cameroon, [6]Biotechnology Center, Yaounde, Cameroon, [7]Abt associates, Yaounde, Cameroon, [8]Centers for Disease Control and Prevention, Yaounde, Cameroon, [9]President's Malaria Initiative ,Agency for International Development, Yaounde, Cameroon, [10]President's Malaria Initiative ,Agency for International Development, Washington, DC, United States, [11]Centers for Disease Control and Prevention, Atlanta, GA, United States, [12]President's Malaria Initiative ,Vectorlink project, Abidjan, Côte D'Ivoire

185

BIOMARKERS OF ACUTE KIDNEY INJURY AND PERSISTENT KIDNEY DISEASE IN CHILDREN WITH SEVERE MALARIA

Andrea L. Conroy[1], Ruth Namazzi[2], Anthony Batte[2], Dibyadyuti Datta[1], John Ssenkusu[3], Robert O. Opoka[2], Chandy C. John[1]
[1]Indiana University School of Medicine, Indianapolis, IN, United States, [2]Makerere University, Kampala, Uganda, [3]Makerere University School of Public Health, Kampala, Uganda

186

STUDIES OF THE PARASITE-MIDGUT INTERACTION REVEAL *PLASMODIUM* PROTEINS IMPORTANT FOR MALARIA TRANSMISSION TO MOSQUITOES

Guodong Niu, Yingjun Cui, Xiaohong Wang, **Jun Li**
Florida International University, Miami, FL, United States

(ACMCIP Abstract)

187

INCREASED LEVELS OF HYPOXIA INDUCIBLE FACTOR1-ALPHA: IMPLICATIONS FOR THE PATHOGENESIS OF PEDIATRIC SEVERE MALARIAL ANEMIA

Elly O. Munde[1], Samuel B. Anyona[2], Caroline Ndege[3], Perez Kola[3], Evans Raballah[4], Benjamin H. McMahon[5], Kristan Schneider[6], Qiuying Cheng[7], Ivy Hurwitz[7], Christophe G. Lambert[7], Collins Ouma[8], Douglas J. Perkins[7]
[1]Department of Clinical Medicine, School of Health Science, Kirinyaga University, Kerugoya, Kenya, [2]Department of Medical Biochemistry, School of Medicine, Maseno University, Maseno, Kenya, [3]University of New Mexico-Kenya Global Health Programs, Kisumu and Siaya, Kenya, [4]Department of Medical Laboratory Sciences, School of Public Health Biomedical Sciences and Technology, Masinde Muliro University of Science and Technology, Kakamega, Kenya, [5]Theoretical Biology and Biophysics Group, Theoretical Division, Los Alamos National Laboratory, Los Alamos, NM, United States, [6]Department Applied Computer and Bio-Sciences, University of Applied Sciences Mittweida, Mittweida, Germany, [7]Center for Global Health, University of New Mexico, Albuquerque, NM, United States, [8]Department of Biomedical Sciences and Technology, School of Public Health and Community Development, Maseno University, Maseno, Kenya

188

IDENTIFICATION OF A LIGAND AND A RECEPTOR THAT MEDIATE *PLASMODIUM* SPOROZOITE LIVER INFECTION.

Sung-Jae Cha[1], Min-Sik Kim[2], Chan Hyun Na[1], Marcelo Jacobs-Lorena[1]
[1]Johns Hopkins University, Baltimore, MD, United States, [2]Daegu Gyeongbuk Institute of Science and Technology, Daegu, Republic of Korea

(ACMCIP Abstract)

189

CHARACTERIZATION OF *PLASMODIUM MALARIAE* RETICULOCYTE BINDING PROTEIN 1A

Harry Danwonno[1], Kwadwo Asamoah Kusi[2], Gordon Awandare[1], Yaw Aniweh[1]
[1]West Africa Centre for Cell Biology of Infectious Pathogens, Legon, Ghana, [2]Noguch Memorial Institute of Medical Research, Legon, Ghana

(ACMCIP Abstract)

190

QUANTIFICATION OF *PLASMODIUM FALCIPARUM* CYCLOPHILIN 19B TRANSCRIPTS VIA QPCR IN NORMAL AND SICKLE-TRAIT HEMOGLOBIN GENOTYPES

Natalie M. Vance[1], Joseph W. Saelens[2], Jens E. Petersen[2], Elizabeth Freedman[2], Robert C. Moseley[3], Rick M. Fairhurst[4], Mahamadou Diakite[5], Steven B. Haase[6], Steve M. Taylor[7]
[1]Duke Global Health Institute, Duke University, Durham, NC, United States, [2]Division of Infectious Diseases, Duke University School of Medicine, Durham, NC, United States, [3]Department of Biology, Duke University, Durham, NC, United States, [4]Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, [5]Malaria Research and Training Center, Mali International Center for Excellence in Research, University of Sciences, Techniques and Technologies of Bamako, Bamako, Mali, [6]Department of Biology, Duke University, Division of Infectious Diseases, Duke University School of Medicine, Durham, NC, United States, [7]Division of Infectious Diseases, Duke University School of Medicine, Duke Global Health Institute, Duke University, Durham, NC, United States

(ACMCIP Abstract)

191

GENETIC VALIDATION OF THE FUNCTION OF PFEMP1 IN *PLASMODIUM FALCIPARUM* ROSETTE FORMATION

Stanley E. Otoboh[1], Alex J. Rowe[1], Hussein M. Abkallo[2]
[1]University of Edinburgh, Edinburgh, United Kingdom, [2]International Livestock Research Institute, Nairobi, Kenya

(ACMCIP Abstract)

192

AXONAL INJURY MARKER TAU IN PLASMA IS ELEVATED IN ALL FORMS OF PEDIATRIC SEVERE MALARIA AND ASSOCIATED WITH IN-HOSPITAL MORTALITY AND COGNITIVE IMPAIRMENT AT 12-MONTH FOLLOW-UP

Dibyadyuti Datta[1], Adnan Gopinadhan[1], Ruth Namazzi[2], Andrea L. Conroy[1], Paul Bangirana[3], Robert O. Opoka[2], Keisuke Kawata[4], Andrew J. Saykin[5], Chandy C. John[1]
[1]Ryan White Center for Pediatric Infectious Diseases and Global Health, Indiana University School of Medicine, Indianapolis, IN, United States, [2]Department of Paediatrics and Child Health, Makerere University College of Health Sciences, Kampala, Uganda, [3]Department of Psychiatry, Makerere University College of Health Sciences, Kampala, Uganda, [4]Department of Kinesiology, Indiana University School of Public Health-Bloomington, Bloomington, IN, United States, [5]Indiana Alzheimer's Disease Research Center and Department of Radiology and Imaging Sciences, Indiana University School of Medicine, Indianapolis, IN, United States

(ACMCIP Abstract)

193

DIFFERENCES BETWEEN ORTHOLOGOUS GENES OF RODENT AND HUMAN MALARIA PARASITES IN THEIR ROLE DURING SPOROZOITE FORMATION

Catherin Y. Marin Mogollon[1], Shinya Miyazaki[2], Magali Roques[3], Yukiko Miyazaki[4], Fiona J. Geurten[1], Severine Chevalley-Maurel[1], Hans Kroeze[1], Jai Ramesar[1], Volker Heussler[3], Chris J. Janse[1], Blandine MD Franke-Fayard[1]
[1]Leiden University Medical Center, Leiden, Netherlands, [2]Institute of Tropical Medicine (NEKKEN), Nagasaki, Japan, [3]Institute of Cell Biology, University of Bern, Bern, Switzerland, [4]Institute of tropical Medicine (NEKKEN), Nagasaki, Japan

(ACMCIP Abstract)

Malaria – Chemotherapy and Drug Resistance

194

MARKED REDUCTION OF MALARIA TRANSMISSION WITH SEASONAL MALARIA CHEMOPREVENTION IN CHILDREN UNDER 5 YEARS OF AGE DURING TES IN SÉLINGUÉ, MALI

Lansana Brehima Sangare[1], Lassina Doumbia[1], Youssouf Diarra[1], Oumar Koné[2], Dade Ben Sidi Ben Bouillé Haidara[3], Ousmane Koita[1]
[1]University of Sciences, Techniques and Technology of Bamako, Bamako, Mali, [2]National Malaria Control Program, Ministry of Health and Public Hygiene, Bamako, Mali, [3]Referral Health Center of Sélingué, Ministry of Health and Public Hygiene, Sélingué, Mali

195

A NATURAL VARIANT IN *PLASMODIUM FALCIPARUM* ACYL CO-A SYNTHETASE 10 CONFERS RESISTANCE TO NOVEL ANTIMALARIALS

Selina Bopp[1], Charisse Pasaje[2], Pamela Magistrado-Coxen[1], Robert Summers[1], Victoriano Corpas Lopez[3], Sumanta Dey[4], Sebastian Smick[4], Armiyaw Nasamu[4], Allison Demas[1], Victoria Corey[5], Maria De Gracia Gomez-Lorenzo[6], Virginia Franco[6], Angela Early[7], Amanda Lukens[7], Dyann Milner[1], Javier Gamo[6], Elizabeth Winzeler[5], Sarah Volkman[1], Susan Wyllie[3], Jacquin Niles[4], Dyann Wirth[1]
[1]Harvard T.H. Chan School of Public Health, Boston, MA, United States, [2]Massachusetts Institute of Technology, Boston, MA, United States, [3]University of Dundee, Dundee, United Kingdom, [4]Massachusetts Institute of Technology, Cambridge, MA, United States, [5]University of California, San Diego, La Jolla, CA, United States, [6]GlaxoSmithKline, Tres Cantos, Spain, [7]The Broad Institute, Cambridge, MA, United States

(ACMCIP Abstract)

196

DECREASED SUSCEPTIBILITY TO PFDHFR INHIBITORS ASSOCIATED WITH GENETIC POLYMORPHISMS IN UGANDAN *PLASMODIUM FALCIPARUM* ISOLATES

Oriana Kreutzfeld[1], Patrick Tumwebaze[2], Oswald Byaruhanga[2], Thomas Katairo[2], Martin Okitwi[2], Stephen Orena[2], Stephanie A. Rasmussen[3], Jennifer Legac[1], Melissa D. Conrad[1], Samuel L. Nsobya[2], Ozkan Aydemir[4], Jeff Bailey[4], Maelle Duffey[5], Brett R. Bayles[3], Philip J. Rosenthal[1], Roland A. Cooper[3]
[1]UCSF, San Francisco, CA, United States, [2]Infectious Diseases Research Collaboration, Kampala, Uganda, [3]Dominican University of California, San Rafael, CA, United States, [4]Brown University, Providence, RI, United States, [5]Medicines for Malaria Venture, Geneva, Switzerland

(ACMCIP Abstract)

197

VARIED SUSCEPTIBILITY TO PROTEASOME INHIBITORS AND ASSOCIATIONS WITH GENETIC POLYMORPHISMS IN *PLASMODIUM FALCIPARUM* ISOLATES FROM UGANDA

Shreeya Garg[1], Oriana Kreutzfeld[1], Sevil Chelebieva[2], Patrick K. Tumwebaze[3], Oswald Byaruhanga[3], Martin Okitwi[3], Stephen Orena[3], Thomas Katairo[3], Samuel L. Nsobya[3], Melissa D. Conrad[1], Ozkan Aydemir[4], Jeffrey A. Bailey[4], Gang Lin[5], Laura A. Kirkman[5], Roland A. Cooper[2], Philip J. Rosenthal[1]
[1]Dept. of Medicine, UCSF, San Francisco, CA, United States, [2]Dominican University, San Rafael, CA, United States, [3]Infectious Disease Research Collaboration, Kampala, Uganda, [4]Brown University, Providence, RI, United States, [5]Department of Medicine, Weill Cornell Medical College, New York, NY, United States

198

ASSESSMENT OF *PLASMODIUM FALCIPARUM* RESISTANCE TO PIPERAQUINE IN WESTERN KENYA USING PIPERAQUINE SURVIVAL ASSAY AND MOLECULAR MARKER ANALYSES

Duncan Musamali Wakoli[1], Bartholomew Nyangahu Ondigo[2], Hoseah Miima Akala[3], Agnes Cheruiyot[4], Benjamin Opot[4], Douglas Ongeri Ochora[4], Joseph Gisaina[4], Edwin Mwakio[4], Dennis Juma[4], Amanda Roth[4], Ben Andagalu[4]
[1]US Army Medical Research Directorate-Africa, Department of Biochemistry and molecular biology-Egerton university, Kisumu, Kenya, [2]Laboratory of Malaria Immunology and Vaccinology, National Institute of Allergy and Infectious Diseases, NIH, Bethesda, MD, USA/Department of Biochemistry and molecular Biology-Egerton university, Nakuru, Kenya, [3]US Army Medical Research Directorate-Africa, Department of Biochemistry Egerton University, Kisumu, Kenya, [4]US Army Medical Research Directorate-Africa, Kisumu, Kenya

199

SANGER SEQUENCING AND DECONVOLUTION OF POLYCLONAL INFECTIONS: A QUANTITATIVE APPROACH TO MONITOR DRUG-RESISTANT *PLASMODIUM FALCIPARUM*

Hamma Maiga[1], Robert Morrison[2], Jillian Neal[2], Zaidi Irfan[2], Patrick E. Duffy[2]
[1]Institut National de Sante Publique, Bamako, Mali, [2]Laboratory of Malaria Immunology and Vaccinology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

(ACMCIP Abstract)

200

THE INFLUENCE OF BIOLOGICAL, EPIDEMIOLOGICAL, AND TREATMENT FACTORS ON THE ESTABLISHMENT AND SPREAD OF DRUG-RESISTANT *PLASMODIUM FALCIPARUM*

Thiery Masserey[1], Tamsin Lee[1], Andrew James Shattock[1], Monica Golumbeanu[1], Ian Hastings[2], Melissa Penny[1]
[1]Swiss Tropical and Public Health Institute, Basel, Switzerland, [2]Liverpool School of Tropical Medicine, Liverpool, United Kingdom

201

THE THERAPEUTIC EFFICACIES OF ARTEMETHER-LUMEFANTRINE AND CHLOROQUINE FOR THE TREATMENT OF UNCOMPLICATED *PLASMODIUM FALCIPARUM* AND *PLASMODIUM VIVAX* INFECTIONS, RESPECTIVELY IN TWO SENTINEL, ETHIOPIA 2021

Ashenafi Assefa Bahita, Hussein Mohanne, Heven Sime1, Henock H/giorgis, ...Ebba Abate
Ethiopian Public Health Institute, Addis Ababa, Ethiopia

202

ASSESSING THE REAL-WORLD STABILITY OF ARTESUNATE RECTAL CAPSULES

Andrew Slade[1], Andy Baxter[1], Stephan Duparc[1], Hans Rietveld[1], Eliza Walwyn-Jones[2], Theodoor Visser[2]
[1]Medicines for Malaria Venture, Geneva, Switzerland, [2]Clinton Health Access Initiative, Boston, MA, United States

203

INHIBITION MECHANISMS AND STRUCTURES OF *PLASMODIUM*-SELECTIVE PROTEASOME INHIBITORS DETERMINE *IN VITRO* RESISTANCE PROFILES

Ioanna Deni[1], Matt Bogyo[2], Wenhu Zhan[3], Hao Zhang[1], Yi Jing Liu[3], Jehad Almaliti[4], Laura A. Kirkman[3], Anthony J. O'Donoghue[4], William H. Gerwick[4], Gang Lin[3], Barbara H. Stokes[1], David A. Fidock[1]
[1]Columbia University Irving Medical Center, New York, NY, United States, [2]Stanford University School of Medicine, Stanford, CA, United States, [3]Weill Cornell Medicine, New York, NY, United States, [4]Scripps Institution of Oceanography, La Jolla, CA, United States

(ACMCIP Abstract)

204

NOVEL MOLECULES TO OVERCOME EXISTING RESISTANCE AND PREVENT THE EMERGENCE OF RESISTANCE TO ARTEMISININ AND INHIBITORS OF PROTEIN DEGRADATION PATHWAYS

Gang Lin[1], Wenhu Zhan[1], Yi Jing Liu[1], Changmei Yang[2], Hao Zhang[1], Jacob Harris[1], Rong Wang[3], Songbiao Zhu[2], George Sukenick[3], Haiteng Deng[2], Carl Nathan[1], Laura Kirkman[1]
[1]Weill Cornell Medicine, New York, NY, United States, [2]Tsinghua University, Beijing, China, [3]Memorial Sloan Kettering Cancer Center, New York, NY, United States

205

TRACKING ANTIMALARIAL DRUG RESISTANCE USING MOSQUITO BLOOD MEALS

Anyirékun Fabrice Somé[1], **Hanna Ehrlich**[2], Thomas Bazié[3], Ebou Cathérine Neya[3], Estelle Lotio Dembelé[3], Richard Balma[3], Martina Wade[2], Amy K. Bei[2], Brian D. Foy[4], Roch K. Dabiré[3], Jean-Bosco Ouédraogo[3], Sunil Parikh[2]
[1]Institut de Recherche en Sciences de la Santé, Bobo-Dioulasso, Burkina Faso, [2]Yale University, New Haven, CT, United States, [3]Institut de Recherche en Sciences de la Santé, Bobo Dioulasso, Burkina Faso, [4]Colorado State University, Fort Collins, CO, United States

Malaria – COVID Impact

206

THE EFFECT OF COVID-19 PANDEMIC ON THE PERFORMANCE OF ESSENTIAL MALARIA CONTROL INTERVENTIONS IN UGANDA, A CASE STUDY OF AMURU, AGAGO, DOKOLO AND OTUKE DISTRICTS OF NORTHERN UGANDA

Geofrey Beinomugisha[1], Anthorny Nuwa[1], Shirah Karungi[1], Acio Harriet[1], Irene Ayaa[1], Godfrey Magumba[1], Francis Abwaimo[1], Jimmy Opigo[2], Maureen Amutuhaire[2], James Tibenderana[3], Joseph Ocitti[4], Patrick Odongo[5]
[1]Malaria Consortium Uganda, Kampala, Uganda, [2]Ministry of Health Uganda, Kampala, Uganda, [3]Malaria Consortium United Kingdom, London, United Kingdom, [4]Agago District Local Government, Gulu, Uganda, [5]Amuru District Local Government, Gulu, Uganda

207

EFFECT OF COVID-19 ON TREATMENT-SEEKING AMONG PEOPLE LIVING IN A MALARIA-ENDEMIC AREA OF COASTAL KENYA

Donal Bisanzio[1], Francis Mutuku[2], Bryson Ndenga[3], Charles Ng'ang'a[4], Said Malumbo[4], Gladys Agola[4], A. Desiree LaBeaud[5]
[1]RTI International, Washington, DC, United States, [2]Department of Environment and Health Sciences, Technical University of Mombasa, Mombasa, Kenya, [3]Centre for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya, [4]Vector Borne Disease Control Unit, Msambweni, Kenya, [5]Department of Pediatrics, Division of Infectious Diseases, Stanford University, Stanford, CA, United States

208

THE RELATIONSHIP BETWEEN COVID-19 AND PERCEIVED ACCESS TO MALARIA CARE IN UGANDA

Anna Passaniti[1], Judith Nalukwago[1], Bolanle Olapeju[1], Isaac Musoke[1], Musa Kimbowa[1], Pallen Mugabe[1], Emmanuel Kayongo[1], Ruth Musekura[1], Lyndsey Mitchum[1], Arzum Ciloglu[1], Leanne Wolfe[1], Glory Mkandawire[1], Richard Kabanda[2], Joel Kisubi[3], Sheila Nyakwezi[1], Douglas Storey[1], Mariam Nabukenya[2]
[1]Johns Hopkins Center for Communication Programs, Baltimore, MD, United States, [2]Ministry of Health, Uganda, Kampala, Uganda, [3]US President's Malaria Initiative, United States Agency for International Development (USAID), Uganda, Kampala, Uganda

209

IMPACT OF COVID-19 PANDEMIC ON SEASONAL MALARIA CHEMOPREVENTION 2020 CAMPAIGN IN WEST AND CENTRAL AFRICA

Maria Angelines Lima Parra[1], Ibrahima Mbaye[2], Eugene Kaman Lama[3], Aurore Hounto[4], William Houdjo[4], Gauthier Tougri[5], Nombre Yacouba[5], Dorothy Achu[6], Ateba Marcellin[6], Mahamat Saleh Diar[7], Keziah L. Malm[8], Adomako Kofi[8], Paolo Djata[9], Wica Victorina Da Silva[9], Idrissa Cisse[10], Vincent Sanogo[10], Hadiza Jackou[11], Nnenna Ogbulafor[12], Jamilu Nikau[13], Audu Bala Mohamed[13], Seynabou Gaye[14], Alioune Badara Gueye[14], Balla Kandesh[15], Olimatou Kolley[15], Tinah Atcha Oubou[16], Tchassama Tchadjobo[16], Andre Marie Tchouatieu[17], Abena Poku-Awuku[17], Jean Louis Ndiaye[2], Susana Scott[18], Paul Milligan[18], **Corinne Simone Colette Merle**[19]
[1]La Cooperativa Humanitaria, Barcelona, Spain, [2]University of Thies, Thies, Senegal, [3]National Malaria Programme, Conakry, Guinea, [4]National Malaria control Programme, Cotonou, Benin, [5]National Malaria control Programme, Ouagadougou, Burkina Faso, [6]National Malaria control Programme, Yaounde, Cameroon, [7]National Malaria control Programme, Ndjamena, Chad, [8]National Malaria control Programme, Accra, Ghana, [9]National Malaria control Programme, Bissau, Guinea-Bissau, [10]National Malaria control Programme, Bamako, Mali, [11]National Malaria control Programme, Niamey, Niger, [12]National Malaria control Programme, Abuja, Switzerland, [13]National Malaria control Programme, Abuja, Nigeria, [14]National Malaria control Programme, Dakar, Senegal, [15]National Malaria control Programme, Banjul, Gambia, [16]National Malaria control Programme, Lome, Togo, [17]MMV, Geneva, Switzerland, [18]LSHTM, London, United Kingdom, [19]WHO, Geneva, Switzerland

210

IMPACT OF THE COVID-19 PANDEMIC ON ACCESS TO OUTPATIENT MALARIA CARE IN UGANDA: AN INTERRUPTED TIME SERIES ANALYSIS

Jane F. Namuganga[1], Jessica Briggs[2], Asadu Sserwanga[1], Chris Ebong[1], James A. Kapisi[1], Grant Dorsey[2], Jaffer Okiring[1], Catherine M. Sebuguzi[1], Emmanuel Arinaitwe[1], Moses R. Kamya[1], Bayo S. Fatunmbi[3], Michelle E. Roh[2], Joaniter I. Nankabirwa[1]
[1]Infectious Diseases Research Collaboration, Kampala, Uganda, [2]University of California San Francisco, San Francisco, CA, United States, [3]World Health Organisation, Kampala, Uganda

211

THE IMPACT OF COVID-19 PANDEMIC ON OUTPATIENT AND MALARIA SERVICES: EXPERIENCE FROM EIGHT STATES IN NIGERIA

Aderonke Omokhapue[1], Abimbola Olayemi[1], Uchenna Nwokenna[1], Kazeem Ayankola[1], Yakubu Cherima[1], Paul Waibale[2], Abba Umar[1], Perpetua Uhomoibhi[3], Nnenna Ogbulafor[3], Emmanuel Shekarau[3], Thomas Hall[4], Ratha Loganathan[4]
[1]Management Sciences for Health, Abuja, Nigeria, [2]Management Sciences for Health, Kampala, Uganda, [3]National Malaria Elimination Programme, Abuja, Nigeria, [4]Management Sciences for Health, Arlington, VA, United States

Malaria – Drug Development – Clinical Trials

212

FUNGAL METABOLITE ASPERACULANE B INHIBITS MALARIA INFECTION AND TRANSMISSION

Guodong Niu[1], Yue Hao[2], Xiaohong Wang[1], Jin-Ming Gao[3], Jun Li[1]
[1]Florida International University, Miami, FL, United States, [2]South China University, Hengyang, China, [3]Northwest A&F University, Yangling, China

(ACMCIP Abstract)

213

CLINICAL PHARMACOLOGY OF EXTENDED DURATION ARTEMETHER-LUMEFANTRINE FOR THE TREATMENT OF *PLASMODIUM FALCIPARUM* MALARIA IN EFAVIRENZ-TREATED HIV-INFECTED CHILDREN IN UGANDA

Meghan Whalen[1], Richard Kajubi[2], Justin Goodwin[3], Francis Orukan[2], McKenzie Colt[3], Kacey Richards[3], Moses Were[2], Martina Wade[3], Liusheng Huang[1], **Sunil Parikh**[3], Francesca Aweeka[1], Norah Mwebaza[2]
[1]University of California - San Francisco, San Francisco, CA, United States, [2]Infectious Diseases Research Collaboration, Kampala, Uganda, [3]Yale School of Public Health, New Haven, CT, United States

Malaria – Drug Development – Preclinical Studies

214

IN SILICO PRIORITIZATION OF LIBRARY COMPOUNDS FOR ANTIMALARIAL DRUG DEVELOPMENT

Silviane A. Miruka[1], Reagan M. Mogire[2], Dennis W. Juma[3], Ben Andagalu[3], Bernhards R. Ogutu[3], James Duffy[4], Elodie Chenu[5], Hosea M. Akala[6]
[1]Centre for Clinical research, Kenya Medical Research Institute (KEMRI), P. O. Box 54 – 40100, Kisumu, Kenya., Centre for Research in Therapeutic Sciences, Strathmore University, P.O. Box 59857-00200, Nairobi, Kenya., Nairobi, Kenya, [2]Centre for Clinical research, Kenya Medical Research Institute (KEMRI), P. O. Box 54 – 40100, Kisumu, Kenya. , Kenya Medical Research Institute -Wellcome Trust Research Programme, PO Box 230-80108 Kilifi Kenya, Kisumu, Kenya, [3]Centre for Clinical research, Kenya Medical Research Institute (KEMRI), P. O. Box 54 – 40100, Kisumu, Kenya, Kisumu, Kenya, [4]Medicines for Malarial Venture, ICC, Geneva, 1215, Switzerland, Geneva, Switzerland, [5]Medicines for Malarial Venture, ICC, Geneva, 1215, Switzerland., Geneva, Switzerland, [6]Centre for Clinical research, Kenya Medical Research Institute (KEMRI), P. O. Box 54 – 40100, Kisumu, Kenya., Kisumu, Kenya

215

CONSENSUS LIGAND AND STRUCTURE-BASED SCREENING FOR IDENTIFICATION OF PFDXR INHIBITORS

Bakary N. Diallo, Özlem T. Bishop, Kevin A. Lobb
Rhodes University, Grahamstown, South Africa

216

NATURAL PRODUCT INSPIRED NOVEL ANTIMALARIALS WITH RADICAL CURE POTENTIAL

Papireddy Kancharla[1], Yuexin Li[2], Brandon Pybus[3], Alison Roth[3], Qigui Li[3], Christina Nolan[3], Jason Sousa[3], Kevin Reynolds[1], Jane Kelly[2]
[1]Portland State University, Portland, OR, United States, [2]Portland VA Medical Center, Portland, OR, United States, [3]Walter Reed Army Institute of Research, Silver Spring, MD, United States

217

LATE LEAD OPTIMIZATION OF SECOND-GENERATION NOVEL ANTIMALARIAL ACRIDONES

Jane Kelly[1], Papireddy Kancharla[2], Rozalia Dodean[1], Yuexin Li[1], Brandon Pybus[3], Alison Roth[3], Mara Kreishman-Deitrick[3], Chad Black[3], Qigui Li[3], Christina Nolan[3], Roland Cooper[4], Michael Riscoe[1]
[1]Portland VA Medical Center, Portland, OR, United States, [2]Portland State University, Portland, OR, United States, [3]Walter Reed Army Institute of Research, Silver Spring, MD, United States, [4]Dominican University of California, San Rafael, CA, United States

218

THE USE OF A HUMANIZED MOUSE MODEL TO ASSESS ANTIMALARIAL EFFICACY AND IDENTIFY OPTIMAL DRUGS COMBINATIONS

Claudia Demarta-Gatsi[1], Nicole Andenmatten[1], María Belén Jiménez-Díaz[2], Nathalie Gobeau[1], Mohammed Cherkaoui[1], Aline Fuchs[1], Pablo Díaz[2], Sandra Berja[2], Rebeca Sánchez[2], Hazel Gómez[2], Estíbaliz Ruiz[2], Paula Sainz[2], Eider Salazar[2], Rodrigo Gil-Merino[2], Luis M. Mendoza[2], Maelle Duffey[1], Didier Leroy[1], Jörg J. Möhrle[1], Belén Tornesi[1], **Iñigo Angulo-Barturen**[2]
[1]Medicines for Malaria Venture, Geneva, Switzerland, [2]The Art of Discovery, Derio, Spain

219

SURVEILLANCE OF EFFICACY AND SAFETY OF ARTEMETHER-LUMEFANTRINE FOR THE TREATMENT OF UNCOMPLICATED FALCIPARUM MALARIA IN MAINLAND TANZANIA

Erasmus Kamugisha[1], Maimuna Ahhmed[1], Billy Ngasala[2], Deus I. Ishengoma[3], Reginald Kavishe[4], Filbert Francis[3], Ezeckiel Malecela[3], Celine I. Mandara[3], Mercy Chiduo[3], Samwel Bushukatale[2], Ritha Njau[5], Chonge Kitojo[6], eric Reeves[6], Ssanyu Nyinondi[7], Bilal Kabula[7], Bilal Kabula[7], Frank Chacky[8], Sijenunu Aron[8], Samwel Lazaro[8], Ally Mohamed[9]
[1]-Catholic University of Health and Allied Sciences, -Mwanza, United Republic of Tanzania, [2]-Muhimbili University of Health and Allied Sciences, -Dar es Salaam, United Republic of Tanzania, [3]-National Institute of Medical research, -Tanga, United Republic of Tanzania, [4]-Kilimanjaro Christian Medical Centre, -Moshi, United Republic of Tanzania, [5]-WHO, Country office, -Dar es Salaam, United Republic of Tanzania, [6]-Presidential Malaria Initiative, -Dar es Salaam, United Republic of Tanzania, [7]-RTI, -Dar es Salaam, United Republic of Tanzania, [8]-National Malaria Control Program, -Dodoma, United Republic of Tanzania, [9]-National Malaria Control Program, -Mwanza, United Republic of Tanzania

220

DEVELOPMENT OF AN ECTOPIC HULIVER MODEL FOR *PLASMODIUM* LIVER STAGE INFECTION

Gabriela Samayoa Reyes[1], Siobhan Flaherty[1], Kristina Wickham[2], Sara Viera[3], Pamela Strauch[1], Laura Padrón[3], Conner Jackson[1], Patricia Meireles[3], David Calvo[3], Wanlapa Roobsoong[4], Niwat Kangwanrangsan[4], Jetsumon Sattabongkot[4], Gregory Reichard[2], Maria José Lafuente-Monasterio[3], Rosemary Rochford[1]
[1]Department of Immunology and Microbiology, University of Colorado School of Medicine, Aurora, CO, United States, [2]Department of Drug Discovery, Experimental Therapeutics Branch, Walter Reed Army Institute of Research, Silver Spring, MD, United States, [3]Diseases of the Developing World, Infectious Diseases-Centre for Excellence in Drug Discovery (ID CEDD), GlaxoSmithKline, Madrid, Spain, [4]Mahidol Vivax Research Unit, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand

221

INHIBITION OF THE *PLASMODIUM FALCIPARUM* ACETYL-COA SYNTHETASE BY MULTIPLE CHEMOTYPES DISRUPTS PROTEIN ACETYLATION AND EPIGENETIC REGULATION IN BLOOD STAGE PARASITES

Robert Summers[1], Charisse Pasaje[2], Joao Pisco[3], Manu Vanaerschot[4], James Murithi[4], Madeline Luth[5], Justin Munro[6], Emma Carpenter[7], Avinash Punekar[3], Sabine Ottilie[5], Manuel Llinás[6], Marcus Lee[7], Elizabeth Winzeler[5], David Fidock[4], Ian Gilbert[3], Dyann Wirth[1], Jacquin Niles[2], Beatriz Baragaña[3], Amanda Lukens[1]
[1]Harvard T.H. Chan School of Public Health, Boston, MA, United States, [2]Massachusetts Institute of Technology, Cambridge, MA, United States, [3]University of Dundee, Dundee, United Kingdom, [4]Columbia University Medical Center, New York, NY, United States, [5]University of California San Diego School of Medicine, La Jolla, CA, United States, [6]The Pennsylvania State University, University Park, PA, United States, [7]Wellcome Sanger Institute, Hinxton, United Kingdom

(ACMCIP Abstract)

222

COLLATERAL SENSITIVITY AS A STRATEGY TO SUPPRESS THE EVOLUTION OF RESISTANCE IN*IN VITRO*AND*IN VIVO*CONTEXTS

Maria Jose Lafuente-Monasterio[1], Rebecca E.K. Mandt[2], Amanda K. Lukens[3], Madeline R. Luth[4], Sabine Ottilie[4], Laura Padrón[1], Delfina Segura-Carro[1], Helena Maria Garuti-Rodriguez[1], María del Carmen Cuevas[1], Sara Viera-Morilla[1], Elizabeth A. Winzeler[4], Francisco Javier Gamo[1], Dyann F. Wirth[2]
[1]GlaxoSmithKline, Tres Cantos, Spain, [2]Harvard T.H. Chan School of Public Health, Boston, MA, United States, [3]The Broad Institute, Cambridge, MA, United States, [4]University of California, San Diego, La Jolla, CA, United States

(ACMCIP Abstract)

Malaria – Epidemiology

223

MALARIA TRANSMISSION DYNAMICS IN A HUMANITARIAN CRISIS IN SOUTHERN VENEZUELA, 2016-2020

Leopoldo Villegas[1], Jorge Moreno[2], Maria Villegas[1], Erika Wetzler[3], Sara Canavati[3], Maria E. Guevara[1], Paola Marchesini[4]
[1]ASOCIS, Tumeremo, Bolivar, Bolivarian Republic of Venezuela, [2]Centro de Investigación de Campo "Francesco Vitanza", Instituto de Altos Estudios "Dr. Arnoldo Gabaldon", Tumeremo, Bolivar, Bolivarian Republic of Venezuela, [3]World Vision, Washington, DC, United States, [4]Ministry of Health Brazil, Brasilia, Brazil

224

HIGH PREVALENCE OF ASYMPTOMATIC MALARIAL ANEMIA AND ASSOCIATION WITH EARLY CLINICAL CONVERSION IN A *PLASMODIUM FALCIPARUM* HYPER-ENDEMIC SETTING IN CAMEROON

Balotin Fogang[1], Marie Florence Biabi[2], Rosette Megnekou[3], Franklin Maloba[4], Estelle Essangui[2], Christiane Donkeu[1], Glwadys Cheteug[2], Marie kapen[2], Rodrigue Keumoe[1], Sylvie Kemleu[2], Sandrine Nsango[2], Carole Eboumbou[2], Tracey Lamb[4], Lawrence Ayong[2]
[1]University of Yaounde I/Centre Pasteur Cameroon, Yaounde, Cameroon, [2]Centre Pasteur Cameroon, Yaounde, Cameroon, [3]University of Yaounde I, Yaounde, Cameroon, [4]University of Utah, Yaounde, UT, United States

225

MALARIA INFECTION BURDEN AND ASSOCIATED RISK FACTORS IN AREA OF PYRETHROID-RESISTANT VECTORS TO LONG-LASTING INSECTICIDAL NETS IN BENIN

Manfred Accrombessi[1], Martin Akogbeto[2], Edouard Dangbenon[2], Hilaire Akpovi[2], Arthur Sovi[1], Boulais Yovogan[2], Aurore Ogouyemi-Hounto[3], Corine Ngufor[1], Mark Rowland[1], Natacha Protopopoff[1], Jackie Cook[1]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]Centre de Recherche Entomologique de Cotonou, Cotonou, Benin, [3]National Malaria Control Program, Ministry of Health, Cotonou, Benin

226

THE EFFECTS OF METEOROLOGICAL FACTORS & GEOGRAPHICAL ELEVATION ON MALARIA INCIDENCE IN ELIMINATION TARGETED DISTRICT OF ETHIOPIA

Desalegn Dabaro[1], Zewdie Birhanu[2], Abiyot Negash[2], Dawit Hawaria[1], Delenasaw Yewhalaw[2]
[1]Yirgalem Hospital Medical College, Yirgalem, Ethiopia, [2]Jimma University, Jimma, Ethiopia

227

MALARIA PARASITEMIA AND ANEMIA AMONG PREGNANT WOMEN ATTENDING GENERAL HOSPITAL, ENUGWU UKWU, ANAMBRA STATE, NIGERIA

Pauline U. Umeanaeto[1], Chukwujindu Odagwe[1], Ifenna C. Onwuagana[1], Kindness C. Irikannu[1], Chukwudinma C. Okoli[2], Justina C. Akulue[3], Stella C. Afulukwe[4]
[1]Department of Parasitology and Entomology, Nnamdi Azikiwe University, Awka Anambra State, Nigeria, [2]Hospital Management Board, Laboratory Unit, Kuje General Hospital, FCT, Abuja, Nigeria, [3]Department of Medical Laboratory Sciences, Nnamdi Azikiwe University, Nnewi, Anambra State, Nigeria, [4]Department of Anatomy, Chukwuemeka Odumegwu Ojukwu University, Uli, Anambra State, Nigeria

228

A QUICK LOOK INTO MALARIA AMONG THE AMERINDIAN PEOPLE OF VENEZUELA

Juan Carlos Gabaldon[1], Carlos Chaccour[2], Jorge E. Moreno[3], Maria Villegas[4], Leopoldo Villegas[4]
[1]Clinica Universidad de Navarra, Pamplona, Spain, [2]Instituto de Salud Global de Barcelona, Barcelona, Spain, [3]Instituto de Altos Estudios Arnoldo Gabaldon, Tumeremo, Bolivarian Republic of Venezuela, [4]Asociación Civil Impacto Social, Tumeremo, Bolivarian Republic of Venezuela

229

AGE AND SEASONAL DISTRIBUTION OF MALARIA HOSPITAL ADMISSIONS IN THE CONTEXT OF SEASONAL MALARIA CHEMOPREVENTION IN OUELESSEBOUGOU, MALI

Djibrilla Issiaka
Malaria Research & Training Center, Faculty of Medicine, Pharmacy and Dentistry, University of Bamak, Bamako, Mali

230

ENHANCING COUNCIL HEALTH TEAMS ON USING MALARIA RISK MAPS FOR SUPPORTING DECENTRALIZED MALARIA CONTROL PLANNING IN MAINLAND TANZANIA

Sumaiyya G. Thawer[1], Ally Mohamed[2], Samwel Lazaro[2], Sijenunu Aaron[2], Frank Chacky[2], Khalifa Munisi[2], Joanna Lyimo[2], Stanslaus Henry[2], Sigsbert Mkude[3], Victor Alegana[4], Peter Macharia[5], Robert Snow[6], Noela Kisoka[1], Christian Lengeler[7], Amanda Ross[7], Fabrizio Molteni[1], Emilie Pothin[8]
[1]Swiss Tropical and Public Health Institute/ University of Basel, Dar es Salaam, United Republic of Tanzania, [2]National Malaria Control Program, Ministry of Health, Community Development, Gender, Elderly and Children, Dodoma, Tanzania, Dodoma, United Republic of Tanzania, [3]PMI Impact Malaria, USAID, Dar es Salaam, United Republic of Tanzania, [4]Population Health Unit, KEMRI-Welcome Trust Research Programme, Nairobi, Kenya, Nairobi, Kenya, [5]Population Health Unit, KEMRI-Welcome Trust Research Programme, Nairobi, Kenya / CHICAS, Lancaster Medical School, Lancaster University, Lancaster, UK, Nairobi, Kenya, [6]Population Health Unit, KEMRI-Welcome Trust Research Programme/Centre for Tropical Medicine and Global Health, Nuffield Department of Clinical Medicine, University of Oxford, Nairobi, Kenya, [7]Swiss Tropical and Public Health Institute/ University of Basel, Basel, Switzerland, [8]Swiss Tropical and Public Health Institute/ University of Basel/Clinton Health Access Initiative, Basel, Switzerland

231

SYSTEMATIC REVIEW OF *PLASMODIUM FALCIPARUM* AND *PLASMODIUM VIVAX* POLYCLONAL INFECTIONS: IMPACT OF PREVALENCE, STUDY POPULATION CHARACTERISTICS, AND LABORATORY PROCEDURES

Luis Lopez, Cristian Koepfli
University of Notre Dame, Notre Dame, IN, United States

232

LOW PREVALENCE OF *PLASMODIUM MALARIAE* AND *VIVAX,* AND HIGH PREVALENCE OF *PLASMODIUM OVALE* DETECTED AMONG TANZANIAN SCHOOL CHILDREN WITHIN THE 2017 SCHOOL MALARIA PARASITEMIA SURVEY (SMPS)

Rachel Sendor[1], Cedar Mitchell[1], Frank Chacky[2], Ally Mohamed[2], Lwidiko E. Mhamilawa[3], Fabrizio Molteni[4], Ssanyu Nyinondi[5], Bilali Kabula[5], Erik Reaves[6], Naomi Serbantez[6], Chonge Kitojo[6], Twilumba Makene[3], Thwai Kyaw[1], Jonathan B. Parr[1], Billy Ngasala[3], Jonathan J. Juliano[1]
[1]University of North Carolina, Chapel Hill, Chapel Hill, NC, United States, [2]National Malaria Control Programme, Dodoma, United Republic of Tanzania, [3]Muhimbili University of Health and Allied Sciences, Dar es Salaam, United Republic of Tanzania, [4]Swiss Tropical and Public Health Institute, Basel, Switzerland, [5]RTI International, Dar es Salaam, United Republic of Tanzania, [6]US President's Malaria Initiative, Dar es Salaam, United Republic of Tanzania

233

USE OF A CONTINUOUS MALARIA INDICATOR SURVEY (CMIS) FOR EVALUATION OF MALARIA INDICES AND INTERVENTION COVERAGE IN WESTERN KENYA, 2015-2020

Julia Janssen[1], Ryan Wiegand[1], Brian Seda[2], Kelvin Onoka[2], Oliver Towett[2], Titus Kwambai[3], Simon Kariuki[2], Feiko ter Kuile[4], Aaron Samuels[1]
[1]Malaria Branch, Division of Parasitic Diseases and Malaria, Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Centre for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya, [3]Malaria Branch, Division of Parasitic Diseases and Malaria, Centers for Disease Control and Prevention, Kisumu, Kenya, [4]Department of Clinical Sciences, Liverpool School of Tropical Medicine, Liverpool, United Kingdom

234

RISK FACTORS FOR ASYMPTOMATIC MALARIA INFECTIONS IN THE PERUVIAN AMAZON

Stefano Garcia[1], Joaquín Gómez[1], Caroline Abanto[1], Elizabeth Villasis[2], Mitchel Guzman[3], Christopher Delgado-Ratto[4], Joseph Vinetz[5], Katherine Torres[2], Dionicia Gamboa[6]
[1]Laboratorio de Malaria: Parásitos y Vectores, Laboratorios de Investigación y Desarrollo, Facultad de Ciencias y Filosofía, Universidad Peruana Cayetano Heredia, Lima, Peru, [2]Laboratorio de Malaria, Laboratorios de Investigación y Desarrollo, Facultad de Ciencias y Filosofía, Universidad Peruana Cayetano Heredia, Lima, Peru, [3]Laboratorio ICEMRAmazonia, Laboratorios de Investigación y Desarrollo, Facultad de Ciencias y Filosofía, Universidad Peruana Cayetano Heredia, Lima, Peru, [4]Global Health Institute, Faculty of Medicine, University of Antwerp, Antwerp, Belgium, [5]Section of Infectious Diseases, Department of Internal Medicine, Yale School of Medicine, New Haven, CT, United States, [6]Instituto de Medicina Tropical Alexander von Humboldt, Universidad Peruana Cayetano Heredia, Lima, Peru

235

CLOSING THE KNOWLEDGE GAP IN HUMAN MOBILITY AND CONNECTEDNESS BETWEEN RURAL VILLAGES ENDEMIC TO MALARIA IN THE PERUVIAN AMAZON

Joaquín Gómez[1], Stefano Garcia[1], Caroline Abanto[1], Mitchel Guzman[2], Roberson Ramírez[2], Christopher Delgado-Ratto[3], Joseph Vinetz[4], Dionicia Gamboa[5]
[1]Laboratorio de Malaria: Parásitos y Vectores, Laboratorios de Investigación y Desarrollo, Facultad de Ciencias y Filosofía, Universidad Peruana Cayetano Heredia, Lima, Peru, [2]Laboratorio ICEMRAmazonia, Laboratorios de Investigación y Desarrollo, Facultad de Ciencias y Filosofía, Universidad Peruana Cayetano Heredia, Lima, Peru, [3]Global Health Institute, Faculty of Medicine, University of Antwerp, Antwerp, Belgium, [4]Section of Infectious Diseases, Department of Internal Medicine, Yale School of Medicine,, New Haven, CT, United States, [5]Instituto de Medicina Tropical Alexander von Humboldt, Universidad Peruana Cayetano Heredia, Lima, Peru

236

SPATIAL DISTRIBUTION OF *PLASMODIUM FALCIPARUM* AND *P. VIVAX* IN NORTHERN ETHIOPIA THROUGH MICROSCOPY, RAPID DIAGNOSTIC TEST, ANTIBODY AND ANTIGEN DETECTION DATA

Colleen Leonard[1], Ashenafi Assefa[2], Heven Sime[2], Hussein Mohammed[2], Amha Kebede[3], Hiwot Solomon[4], Chris Drakeley[5], Matthew Murphy[6], Jimee Hwang[6], Eric Rogier[1]
[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Ethiopian Public Health Institute, Addis Ababa, Ethiopia, [3]African Society for Laboratory Medicine, Addis Ababa, Ethiopia, [4]Ethiopian Federal Ministry of Health, Addis Ababa, Ethiopia, [5]London School of Hygiene & Tropical Medicine, London, United Kingdom, [6]US. President's Malaria Initiative, Centers for Disease Control and Prevention, Atlanta, GA, United States

237

STRONG CLUSTERING OF ASYMPTOMATIC *PLASMODIUM FALCIPARUM* AND *PLASMODIUM VIVAX* INFECTIONS AMONG ETHNIC GROUPS BUT ABSENCE OF POPULATION STRUCTURE IN CHITTAGONG HILL TRACTS, BANGLADESH

Tiffany Huwe[1], Mohammad Golam Kibria[2], Fatema Tuj Johora[2], Ching Swe Phru[2], Nusrat Jahan[2], Mohammad Sharif Hossain[2], Wasif Ali Khan[2], Ric N. Price[3], Benedikt Ley[3], Mohammad Shafiul Alam[2], Cristian Koepfli[1]
[1]University of Notre Dame, Notre Dame, IN, United States, [2]International Centre for Diarrheal Disease Research Bangladesh, Dhaka, Bangladesh, [3]Menzies School of Health Research and Charles Darwin University, Darwin, Australia

238

DIFFERENTIAL PATTERNS OF NATURALLY ACQUIRED IMMUNE RESPONSES TO 28 *PLASMODIUM FALCIPARUM* VACCINE ANTIGENS WITH VARIOUS LEVELS OF GENETIC DIVERSITY

Myo Thet Naung[1], Ramin Mazhari[1], Wilson Wong[1], Eizo Takashima[2], Takafumi Tsuboi[2], Ivo Mueller[1], Alyssa E. Barry[3]
[1]Walter Eliza Hall Medical Institute, Melbourne, Australia, [2]Division of Malaria Research, Proteo-Science Center, Ehime University, Japan, Ehime, Japan, [3]School of Medicine, Deakin University, Geelong, Australia

239

POST-DISCHARGE BURDEN OF MORBIDITY AND MORTALITY IN CHILDREN ADMITTED WITH SEVERE ANEMIA OR OTHER SYNDROMES IN MALARIA-ENDEMIC SETTINGS IN AFRICA: A SYSTEMATIC REVIEW AND META-ANALYSIS

Titus Kwambai[1], Amani T. Mori[2], Sarah Nevitt[3], Anna Maria van Eijk[4], Aaron M. Samuels[1], Bjarne Robberstad[2], Kamija S. Phiri[5], Feiko O. ter Kuile[4]
[1]Division of Parasitic Diseases and Malaria, Center for Global Health, Centers for Disease Control and Prevention, Kisumu, Kenya and Atlanta, GA, United States of America, Kisumu, Kenya, [2]Section for Ethics and Health Economics and Centre for International Health, Department of Global Public Health and Primary Care, University of Bergen, Bergen, Norway, Bergen, Norway, [3]Department of Health Data Science, University of Liverpool, Liverpool, Merseyside, United Kingdom, Liverpool, United Kingdom, [4]Department of Clinical Sciences, Liverpool School of Tropical Medicine (LSTM), Liverpool, United Kingdom, Liverpool, United Kingdom, [5]School of Public Health and Family Medicine, College of Medicine, University of Malawi, Blantyre, Malawi, Blantyre, Malawi

240

EPIDEMIOLOGICAL IMPACT OF PIPERONYL BUTOXIDE (PBO) LONG-LASTING INSECTICIDAL NETS AFTER A NATIONAL NET DISTRIBUTION CAMPAIGN IN RWANDA, 2020

Michee S. Kabera[1], Aline Uwimana[1], Yvette Muyirukazi[1], Jean Louis Mangala[1], Aimable Mbituyumuremyi[1], Pauline Saida Sebatunzi[1], Noella Umulisa[2]
[1]Rwanda Biomedical Center, Kigali, Rwanda, [2]JHPIEGO/Impact Malaria, Kigali, Rwanda

241

THE FIGHT AGAINST MALARIA: THE CASE OF THE US PRESIDENT'S MALARIA INITIATIVE (PMI) MALARIA ACTION PROGRAM FOR DISTRICTS

Sam S. Gudoi[1], Emily Goodwin[1], Daniella Busharizi[1], John Baptist Bwanika[1], Ruth Kigozi[1], Jimmy Opigo[1], Mame Niang[2], Kassahun Belay[3], Gloria Sebikaari[3], Godfrey Magumba[1], James Tibenderana[4]
[1]Malaria Consortium, Kampala, Uganda, [2]US President's Malaria Initiative, Malaria Branch, Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]US President's Malaria Initiative, US Agency for International Development, Kampala, Uganda, [4]Malaria Consortium, London, United Kingdom

242

ASSESSING THE DIRECT EFFECT OF INDOOR RESIDUAL SPRAYING WITH FLUDORA® FUSION IN NCHELENGE DISTRICT, ZAMBIA

Ellen Ferriss[1], Mike Chaponda[2], Mbanga Muleba[2], Jean-Bertin Kabuya[2], Lawrence H. Moulton[1], Douglas E. Norris[1], William J. Moss[1]
[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]Tropical Diseases Research Centre, Ndola, Zambia

243

UNDERSTANDING CROSS BORDER MALARIA IN SAUDI ARABIA

Shaymaa A. Abdalal[1], Joseph Keating[1], Mohammad A. Shammaky[2]
[1]Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States, [2]Saudi Arabia Ministry of Health, Jazan, Saudi Arabia

244

CHARACTERIZING MOBILITY PATTERNS OF FOREST GOERS IN SOUTHERN LAO PDR USING GPS LOGGERS

Francois Rerolle[1], Emily Dantzer[1], Toula Phimmakong[2], Rattanaxay Phetsouvanh[2], Bouasy Hongvanthong[2], John Marshall[3], Hugh Sturrock[1], Adam Bennett[1]
[1]UCSF, San Francisco, CA, United States, [2]CMPE, Vientiane, Lao People's Democratic Republic, [3]UC Berkeley, Berkeley, CA, United States

Malaria – Genetics/Genomics

245

VEUPATHDB: COMPREHENSIVE INFORMATICS SUPPORT FOR YOUR RESEARCH NEEDS

Susanne Warrenfeltz[1], Brian Brunk[2], Gloria I. Giraldo-Calderon[3], Omar Harb[2], Mark Hickman[2], Jessica C. Kissinger[1], Mary Ann McDowell[4], David Roos[2], Samuel Rund[3], For the VEuPathDB Team[1]
[1]University of Georgia, Athens, GA, United States, [2]University of Pennsylvania, Philadelphia, PA, United States, [3]University of Noter Dame, South Bend, IN, United States, [4]University of Notre Dame, South Bend, IN, United States

246

EXPANDING THE UTILITY OF *PLASMODIUM* GENETIC CROSSES USING NANOPORE LONG-READ GENOME ASSEMBLIES FOR PARENTAL PARASITES

Xue Li[1], Marina McDew-White[1], Shalini Nair[1], Ann Reyes[1], Lisa Checkley[2], Sudhir Kumar[3], Katie Button-Simons[2], Stefan Kappe[4], Francois Nosten[5], Ashley Vaughan[3], Michael Ferdig[2], Ian Cheeseman[1], Tim Anderson[1]
[1]Texas Biomedical Research Institute, San Antonio, TX, United States, [2]University of Notre Dame, Notre Dame, IN, United States, [3]Seattle Children's Research Institute, Seattle, WA, United States, [4]University of Washington, Seattle, WA, United States, [5]Mahidol-Oxford Tropical Medicine Research Unit, Mae Sot, Thailand

247

PIGGYBAC MUTAGENESIS APPLIED TO *P. KNOWLESI*

Shulin Xu, Min Zhang, Jenna Oberstaller, Marrisa Thomas, John H. Adams
Center for Global Health and Infectious Diseases Research, University of South Florida, Tampa, FL, United States

(ACMCIP Abstract)

248

UNDERSTANDING RESIDUAL *PLASMODIUM FALCIPARUM* TRANSMISSION IN ZANZIBAR THROUGH MULTIPLEXED AMPLICON DEEP SEQUENCING

Aurel Holzschuh[1], Anita Lerch[1], Bakar S. Fakih[2], Logan Stuck[3], Abdul-wahid H. Al-mafazy[4], Abdullah Ali[5], Manuel W. Hetzel[6], Joshua Yukich[3], Cristian Koepfli[1]
[1]University of Notre Dame, Notre Dame, IN, United States, [2]Ifakara Health Institute, Dar es Salaam, United Republic of Tanzania, [3]Tulane University, New Orleans, LA, United States, [4]Research Triangle Institute (RTI) International, Zanzibar, United Republic of Tanzania, [5]Zanzibar Malaria Elimination Programme, Zanzibar, United Republic of Tanzania, [6]Swiss Tropical and Public Health Institute, Basel, Switzerland

249

SINGLE CELL ANALYSIS REVEALS TRANSCRIPTIONAL HETEROGENEITY AND CHANGES ACCOMPANYING*PLASMODIUM*SPOROZOITE DEVELOPMENT

Haikel N. Bogale
University of Maryland, Baltimore, Baltimore, MD, United States

250

PFEMP1 EXPRESSION SPECIFIC TO SEVERE MALARIAL ANEMIA AND CEREBRAL MALARIA IN A CASE-CONTROL STUDY IN MALI

Emily M. Stucke[1], Drissa Coulibaly[2], Noah T. Ventimiglia[1], Ankit Dwivedi[1], Antoine Dara[2], Abdoulaye K. Koné[2], Karim Traoré[2], Bouréima Guindo[2], Bourama M. Tangara[2], Amadou Niangaly[2], Modibo Daou[2], Issa Diarra[2], Youssouf Tolo[2], Mody Sissoko[2], Savy M. Sebastian[1], Matthew B. Laurens[1], Amed Ouattara[1], Bourema Kouriba[2], Ogobara K. Doumbo[2], Shannon Takala-Harrison[1], David Serre[1], Christopher V. Plowe[1], Joana C. Silva[1], Mahamadou A. Thera[1], Mark A. Travassos[1]
[1]University of Maryland School of Medicine, Baltimore, MD, United States, [2]Malaria Research and Training Center, University of Sciences, Techniques and Technologies, Bamako, Mali

251

AN *IN VITRO* MODEL OF SEVERE MALARIA REVEALS ALTERED TEMPORAL EXPRESSION OF UBIQUITYLATION PROCESS GENES

Samuel B. Anyona[1], Evans Raballah[2], Qiuying Cheng[3], Ivy Hurwitz[3], Caroline Ndege[4], Elly Munde[5], Clinton Onyango[4], Walter Otieno[6], Philip D. Seidenberg[7], Kristan A. Schneider[8], Christophe G. Lambert[3], Benjamin H. McMahon[9], Collins Ouma[10], Douglas J. Perkins[3]
[1]Department of Medical Biochemistry, School of Medicine, Maseno University, Maseno, Kenya, [2]Department of Medical Laboratory Sciences, School of Public Health Biomedical Sciences and Technology, Masinde Muliro University of Science and Technology, Kakamega, Kenya, [3]Center for Global Health, University of New Mexico, Albuquerque, NM, United States, [4]University of New Mexico-Kenya Global Health Programs, Kisumu and Siaya, Kenya, [5]Department of Clinical Medicine, School of Health Science, Kirinyaga University, Kerugoya, Kenya, [6]Department of Pediatrics and Child Health, School of Medicine, Maseno University, Maseno, Kenya, [7]Department of Emergency Medicine, University of New Mexico, Albuquerque, NM, United States, [8]Department Applied Computer and Bio-Sciences, University of Applied Sciences Mittweida, Mittweida, Germany, [9]Theoretical Biology and Biophysics Group, Theoretical Division, Los Alamos National Laboratory, Los Alamos, NM, United States, [10]Department of Biomedical Sciences and Technology, School of Public Health and Community Development, Maseno University, Maseno, Kenya

252

COMPLEMENT COMPONENT 5 (C5) MISSENSE MUTATIONS ALTER THE LONGITUDINAL RISK OF MALARIA AND SEVERE MALARIAL ANEMIA IN CHILDREN RESIDING IN A HOLENDEMIC REGION OF *PLASMODIUM FALCIPARUM* TRANSMISSION

Evans Raballah[1], Samuel B. Anyona[2], Clinton Onyango[3], Qiuying Cheng[4], Elly O. Munde[5], Ivy Hurwitz[4], Caroline Ndege[3], Maria A. Pacheco[6], Ananias A. Escalante[6], Christophe G. Lambert[4], Collins Ouma[7], Kristan A. Schneider[8], Philip D. Seidenberg[9], Benjamin H. McMahon[10], Douglas J. Perkins[4]
[1]Department of Medical Laboratory Sciences, School of Public Health Biomedical Sciences and Technology, Masinde Muliro University of Science and Technology,

Kakamega, Kenya, [2]Department of Medical Biochemistry, School of Medicine, Maseno University, Maseno, Kenya, [3]University of New Mexico-Kenya Global Health Programs, Kisumu and Siaya, Kenya, [4]Center for Global Health, University of New Mexico, Albuquerque, NM, United States, [5]Department of Clinical Medicine, School of Health Science, Kirinyaga University, Kerugoya, Kenya, [6]Biology Department/Institute of Genomics and Evolutionary Medicine (iGEM), Temple University, Philadelphia, PA, United States, [7]Department of Biomedical Sciences and Technology, School of Public Health and Community Development, Maseno University, Maseno, Kenya, [8]Department Applied Computer and Bio-Sciences, University of Applied Sciences Mittweida, Mittweida, Germany, [9]Department of Emergency Medicine, University of New Mexico, Albuquerque, NM, United States, [10]Theoretical Biology and Biophysics Group, Theoretical Division, Los Alamos National Laboratory, Los Alamos, NM, United States

253

OPTIMIZATION OF *PLASMODIUM FALCIPARUM* WHOLE GENOME CAPTURE FOR MULTIPLEX SEQUENCING OF LOW PARASITEMIA DRIED BLOOD SPOTS

Matthew Adams, Zalak Shah, Emily M. Stucke, Sandra H. Ott, Biraj Shrestha, Mark A. Travassos, Joana C. Silva, Shannon Takala-Harrison
University of Maryland School of Medicine, Baltimore, MD, United States

254

GENETIC EPIDEMIOLOGY OF SÉNÉGAL MALARIA INFECTIONS REVEALS PARASITE CONNECTIVITY AND CORRELATION WITH MALARIA INCIDENCE

Sarah K. Volkman[1], Stephen F. Schaffner[2], Wesley Wong[1], Yaye Die Ndiaye[3], Aida S. Badiane[4], Awa B. Deme[3], Albert Lee[5], Katherine E. Battle[5], Fatou Ba Fall[6], Medoune Ndiop[6], Jonathan R. Russell[5], Jessica V. Ribado[5], Rachel F. Daniels[1], Akanksha Khorgard[2], Angela M. Early[2], Claudia R. Taccheri[1], Alioune Badara Gueye[6], Ibrahima Diallo[6], Moustapha Cisse[6], Doudou Sene[6], Caitlin Bever[5], Joshua L. Proctor[5], Daniel L. Hartl[7], Bronwyn MacInnis[2], Dyann F. Wirth[1], Daouda Ndiaye[4]
[1]Harvard T.H. Chan School of Public Health, Boston, MA, United States, [2]Broad Institute of MIT and Harvard, Cambridge, MA, United States, [3]Dantec Teaching and Research Hospital, Dakar, Senegal, [4]Cheikh Anta Diop University, Dakar, Senegal, [5]Institute for Disease Modeling Global Health Division Bill & Melinda Gates Foundation, Seattle, WA, United States, [6]Senegal National Malaria Control Program, Dakar, Senegal, [7]Harvard University, Cambridge, MA, United States

255

APICAL MEMBRANE ANTIGEN-1 (AMA1) HAPLOTYPES SPATIOTEMPORAL DISTRIBUTION AND ENCODING GENES VARIANTS RELATION TO MALARIA SYMPTOMS IN BANDIAGARA, MALI

Amed Ouattara[1], Drissa Coulibaly[2], Matthew Adams[1], Amadou Niangaly[2], Abdoulaye K. Kone[2], Karim Traore[2], Matthew B. Laurens[1], Youssouf Tolo[2], Bourema Kouriba[2], Ogobara K. Doumbo[2], Abdoulaye Djimde[2], Mahamadou A. Thera[2]
[1]Center for Vaccine Development and Global Heath, University of Maryland Baltimore, Baltimore, MD, United States, [2]Malaria Research and Training Center, University of Sciences, Techniques and Technologies of Bamako, Bamako, Mali

256

GENETIC DIVERSITY AND DEMOGRAPHICS OF *PLASMODIUM* SPECIES ON BIOKO ISLAND, EQUATORIAL GUINEA

Thomas C. Stabler[1], Ankit Dwivedi[2], Biraj Shrestha[3], Sudhaunshu Joshi[3], Olivier Tresor Donfack[4], Carlos A. Guerra[5], Guillermo A. García[5], Joana C. Silva[6], Claudia Daubenberger[1]
[1]Swiss Tropical and Public Health Institute; University of Basel, Basel, Switzerland, [2]Institute for Genomic Sciences, University of Maryland School of Medicine, Baltimore, MD, United States, [3]Malaria Research Program, Center for Vaccine Development and Global Health, University of Maryland Baltimore, Baltimore, MD, United States, [4]Medical Care Development International, Malabo, Equatorial Guinea, [5]Medical Care Development International, Silver Spring, MD, United States, [6]Institute for Genomic Sciences, University of Maryland School of Medicine; Department of Microbiology and Immunology, University of Maryland School of Medicine, Baltimore, MD, United States

Malaria – Modeling

257

SEASONAL RISK ASSOCIATED WITH FIXATION OF ANTIMALARIAL RESISTANCE THROUGH IMPORTATION

Robert Zupko, Thư Tran, Trần Đăng Nguyên, Maciej Boni
Pennsylvania State University, State College, PA, United States

258

CAN SELECTION ON HISTIDINE-RICH PROTEIN 2/3 GENE DELETIONS BE DETECTED BY TRACES OF SELECTION?

Pierre Marie Ngougoue Ngougoue, Kristan Alexander Schneider
Hochschule Mittweida, University of Applied Sciences, Mittweida, Germany

259

ESTIMATING THE RETROSPECTIVE IMPACT OF MALARIA INTERVENTIONS USING MODELLING: AN EVALUATION OF IRS IN SOUTHERN MOZAMBIQUE

Tatiana Alonso Amor[1], Elise Smith[2], Carl Schutte[2], James Colborn[3], Baltazar Candrinho[4], Emilie Pothin[5]
[1]Swiss Tropical and Public Health Institute, Basel, Switzerland, [2]Genesis Analytics, Johannensburg, South Africa, [3]Clinton Health Access Initiative, Boston, MA, United States, [4]National Malaria Control Programme, Maputo, Mozambique, [5]Swiss Tropical and Public Health Institute, Basel, Switzerland/ Clinton Health Access Initiative, Boston, MA, United States

260

AN ENSEMBLE MODEL FOR URBAN MALARIA INTERVENTION MICROSTRATIFICATION IN NIGERIA

Ifeoma D. Ozodiegwu[1], Chilochibi Chiziba[1], Ousmane Diallo[1], Fernando Hidalgo[2], Jaline Gerardin[1]
[1]Northwestern University, Chicago, IL, United States, [2]General Assembly, Chicago, NJ, United States

261

CHALLENGES IN DEVELOPING STATISTICAL MODELS TO UNDERSTAND FACTORS DRIVING URBAN MALARIA TRANSMISSION IN NIGERIA.

Chilochibi Chiziba, Jaline Gerardin, Ifeoma D. Ozodiegwu
Northwestern University, Evanston, IL, United States

262

MODELING THE POTENTIAL IMPACT OF ANTIMALARIAL INTERVENTIONS IN HIGH-BURDEN AREAS OF ETHIOPIA

Amir Siraj[1], Mebrahtom H. Zeweli[2], Asefaw Getachew[3], Gezahegn Biratu[3], Duncan Earle[4], Laurence Slutsker[1], John Miller[5], Hannah Slater[1]
[1]PATH, Seattle, WA, United States, [2]Ministry of Health, Addis Ababa, Ethiopia, [3]PATH, Addis Ababa, Ethiopia, [4]PATH, Geneva, Switzerland, [5]PATH, Lusaka, Zambia

263

SAME BUDGET, MORE IMPACT: USING MATHEMATICAL MODELLING TO OPTIMIZE CAMEROON'S MALARIA PROGRAM

Branwen Nia Owen[1], Katya Galactionova[2], Munir Winkel[1], Sophie Diarra[1], Dorothy Achu[3], Florentine Tchounga[3], Magloire Kuetche[3], Emilie Pothin[4]
[1]Swiss TPH / University of Basel, Basel, Switzerland, [2]University of Basel, Basel, Switzerland, [3]National Malaria Control Programme, Yaoundé, Cameroon, [4]Swiss TPH / University of Basel / Clinton Health Access Initiative, Basel, Switzerland

264

ESTIMATING THE IMPACT OF SINGLE LOW DOSE PRIMAQUINE ON REDUCING MALARIA TRANSMISSION IN NKOMAZI SUBDISTRICT, SOUTH AFRICA

Jared M. Norman, **Sheetal Silal**
Modelling and Simulation Hub, Africa (MASHA), University of Cape Town, Cape Town, South Africa

265

ESTIMATING THE VARIABILITY OF *ANOPHELES* BIONOMICS AND ITS IMPACT ON TRANSMISSION WITH A HIERARCHICAL BAYESIAN MODEL

Jeanne Lemant[1], Barnabas Zogo[2], Thomas A. Smith[1], Clara Champagne[1], Monica Golumbeanu[1], Emilie Pothin[3]
[1]Swiss Tropical and Public Health Institute / University of Basel, Basel, Switzerland, [2]University of Montpellier, Montpellier, France, [3]CHAI, Clinton Health Access Initative / Swiss Tropical and Public Health Institute, Boston, USA / Basel, Switzerland

266

MODELING THE DIFFERENTIAL IMPACT OF IMPROVED EFFECTIVE COVERAGE FOR MALARIA CASE MANAGEMENT ACROSS TRANSMISSION SETTINGS

Laura Skrip[1], Clara Champagne[1], Arnaud Le Menach[2], Justin Cohen[2], Theodoor Visser[2], Emilie Pothin[3]
[1]Swiss Tropical and Public Health Institute, Basel, Switzerland, [2]Clinton Health Access Initiative, Boston, MA, United States, [3]Swiss Tropical and Public Health Institute/Clinton Health Access Initiative, Basel, Switzerland

267

ESTIMATION OF MULTIPLICITY OF INFECTION (MOI) IN MALARIA ASSUMING OVER-DISPERSED MOSQUITO BITING RATES

Kwamou Ngaha Sandy Frank[1], Kristan A. Schneider[2]
[1]African Institute for Mathematical Sciences (AIMS), Limbe, Cameroon, [2]University of Applied Sciences, Mittweida, Germany

268

PREDICTING THE EPIDEMIOLOGICAL IMPACT OF LARGE-SCALE IMPLEMENTATION OF INTERMITTENT PREVENTIVE THERAPY IN INFANTS IN SOUTHERN NIGERIA

Manuela Runge[1], Ifeoma D. Ozodiegwu[1], Brie Falkard[2], Jaline Gerardiin[1]
[1]Department of Preventive Medicine and Institute for Global Health, Northwestern University, Chicago, IL, United States, [2]Bill & Melinda Gates Foundation, Seattle, WA, United States

269

TRANSMISSION-BLOCKING INTERVENTIONS: FROM LABORATORY TO THE FIELD

Joseph D. Challenger[1], Dari F. Da[2], Teun Bousema[3], Thomas S. Churcher[1]
[1]Imperial College London, London, United Kingdom, [2]Institut de Recherche en Sciences de la Santé, Bobo-Dioulasso, Burkina Faso, [3]Radbound University Medical Centre, Nijmegen, Netherlands

Malaria – Prevention

270

EFFECT OF SOCIAL AND BEHAVIOUR CHANGE INTERVENTIONS ON MALARIA HEALTH BEHAVIOUR -LLIN USE AND TREATMENT SEEKING IN ETHIOPIA

Habtamu Tamene Temesgen[1], Bolanle Olapeju[2], Simon Heliso Kuka[1], Nandita Kapadia-Kundu[2], Tsegahiwot Berhanu Zerihun[1], Guda Alemayehu[3], Jon Eric Tongren[3]
[1]Johns Hopkins Center for Communication Programs, Addis Ababa, Ethiopia, [2]Johns Hopkins Center for Communication Programs, Baltimore, MD, United States, [3]U.S. President's Malaria Initiative, Addis Ababa, Ethiopia

271

RE-INTRODUCED MALARIA IN QUEENSLAND, AUSTRALIA DURING THE SECOND WORLD WAR

G Dennis Shanks
Australian Defence Force Malaria and Infectious Disease Institute, Enoggera, Australia

272

IMPACT OF COMMUNITY DELIVERY ON COVERAGE OF INTERMITTENT PREVENTIVE TREATMENT FOR MALARIA IN PREGNANCY IN MALAWI

Jobiba Chinkhumba[1], **Beth L. Rubenstein**[2], Ethel Chilima[3], Collins Kwizombe[4], Shelby Cash[5], Katherine Wright[6], Peter Troell[7], Humphrey Msona[8], Fannie Kachale[8], Doreen Ali[8], Michael Kayange[8], Don Mathanga[1], John Munthali[9], Julie Gutman[2]
[1]University of Malawi College of Medicine, Malaria Alert Centre, Blantyre, Malawi, [2]Malaria Branch, Division of Parasitic Diseases and Malaria, Center for Global Health, Centers for Disease Control and Prevention (CDC), Atlanta, GA, United States, [3]Management Sciences for Health, Lilongwe, Malawi, [4]U.S. President's Malaria Initiative, United States Agency for International Development (USAID), Lilongwe, Malawi, [5]U.S. President's Malaria Initiative, Malaria Branch, Division of Parasitic Diseases and Malaria, Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States, [6]Management Sciences for Health, Medford, MA, United States, [7]U.S. President's Malaria Initiative, Malaria Branch, Division of Parasitic Diseases and Malaria, Center for Global Health, Centers for Disease Control and Prevention, Lilongwe, Malawi, [8]Ministry of Health, Lilongwe, Malawi, [9]Population Services International, Blantyre, Malawi

273

THE CONTRIBUTION OF COMMUNITY DELIVERY TO THE UPTAKE OF INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANCY WITH SULFADOXINE-PYRIMETHAMINE IN THREE DISTRICTS OF THE DEMOCRATIC REPUBLIC OF THE CONGO

Cibinda Ntale Deogratias[1], Fernand Ketembwe[1], Joseph Ekandji[1], Sarah Nsiangani Nsiangani[1], Christina Maly[2]
[1]Jhpiego, Kinshasa, Democratic Republic of the Congo, [2]Jhpiego, Baltimore, MD, United States

274

IDENTIFICATION OF NATIVE SECRETED PROTEINS WITH *ASAIA BOGORENSIS* FOR PARATRANSGENIC MODIFICATION

Marisa Guido, David J. Lampe
Duquesne University, Pittsburgh, PA, United States

275

IMPACT OF THREE MONTHS OF MALARIA CHEMOPROPHYLAXIS AFTER SEVERE FLOODING IN WESTERN UGANDA: A PRAGMATIC TRIAL IN A HUMANITARIAN CONTEXT

Erin Xu[1], Brandon Hollingsworth[1], Varun Goel[1], Emmanuel Baguma[2], Amanda Brown Marusiak[1], Rabbison Muhindo[2], Raquel Reyes[1], Edgar Mulogo[2], **Ross Mathew Boyce**[1]
[1]University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [2]Mbarara University of Science and Technology, Mbarara, Uganda

276

MALARIA CARE-SEEKING AND TREATMENT IDEATION AMONG GOLD MINERS IN GUYANA

Bolanle Olapeju[1], Camille Adams[2], Sean Wilson[2], Joann Simpson[2], Gabrielle Hunter[1], TrishAnn Davis[1], Lyndsey Mitchum[1], Horace Cox[3], Neil Trotman[3], Helen Imhoff[3], Jennifer Orkis[1], Douglas J. Storey[1]
[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]Breakthrough ACTION Guyana, Georgetown, Guyana, [3]Guyana National Malaria Program, Georgetown, Guyana

277

ASSESSING SEASONAL MALARIA CHEMOPREVENTION (SMC) ADHERENCE IN NIGER THROUGH AN INDEPENDENT MONITORING SURVEY USING A RANDOMIZED CLUSTER DESIGN

Daniel Koko[1], Djibrilla Maiga[1], Aminata Maazou[1], Charlotte Eddis[2], Ibrahim Ouba[3], Hadiza Jakou[3]
[1]PMI Impact Malaria Project, PSI, Niamey, Niger, [2]PMI Impact Malaria Project, PSI, Washington, DC, United States, [3]National Malaria Control Program, MOH, Niamey, Niger

278

INCREASED INTERMITTENT PREVENTIVE TREATMENT (IPTP) WITH SULFADOXINE PYRIMETHAMINE IN PREGNANT WOMEN THROUGH THE USE OF A MONITORING REGISTER: EXPERIENCE FROM THE STOPPALU+ PROJECT IN 19 DISTRICTS IN GUINEA

Aissata Fofana[1], Eugène Kaman Lama[2], Alioune Camara[2], Nouman Diakité[2], Mohamed Saran Condé[1], Souleymane Bérété[1], Daouda NDiaye[1], Mamadou Sitan Kéita[1], Hamidou Barry[1], Hadja Fanta Camara[1], Amadou Tidiane Diallo[1], Djénabou Barry[1], Mamadou Aliou[1]
[1]Stop Palu+ Guinea, Conakry, Guinea, [2]NMCP Guinea, Conakry, Guinea

279

MALARIA IN PREGNANCY AND ANTENATAL CARE KNOWLEDGE, ATTITUDES AND INTERVENTION COVERAGE IN ATLANTIQUE DEPARTMENT, BENIN

Katherine Wolf[1], Manzidatou Alao[2], Alexandre Binazon[2], Faustin Onikpo[2], Stephanie Suhowatsky[1], Ahmed Saadani[3], Julie Buekens[4], Julie Niemczura de Carvalho[5], Aurore Ogouyemi-Hounto[6], Julie Gutman[7]
[1]Jhpiego/PMI Impact Malaria, Washington, DC, United States, [2]MCDI/PMI Impact Malaria, Cotonou, Benin, [3]US President's Malaria Initiative, Centers for Disease Control and Prevention, Cotonou, Benin, [4]MCDI/PMI Impact Malaria, Washington, DC, United States, [5]MCDI/PMI Impact Malaria, Silver Spring, MD, United States, [6]Ministry of Health, Cotonou, Benin, [7]US President's Malaria Initiative, Centers for Disease Control and Prevention, Atlanta, GA, United States

280

INTRODUCING FIELD DIGITAL DATA COLLECTION SYSTEMS INTO SEASONAL MALARIA CHEMOPREVENTION CAMPAIGNS - LESSONS LEARNED AND OPPORTUNITIES FOR ROBUST EVIDENCE DEVELOPMENT

Abena Poku-Awuku, André-Marie Tchouatieu
Medicines for Malaria Venture, Vernier, Switzerland

281

SOCIAL NORMS, SOCIAL SUPPORT AND AVAILABILITY ARE CRITICAL DETERMINANTS OF CONSISTENT ITN USE BY FOREST-GOERS IN CAMBODIA: IMPLICATIONS FOR SBC PROGRAMMING FROM A RESPONDENT-DRIVEN SAMPLING STUDY

Po Ly[1], Boukheng Thavrin[1], Sochea Phok[2], Mahesh Paudel[3], Shwetha Srinivasan[4], Huy Rekol[1], Siv Sovannaroth[1], Saad Hassan[5], Stephen Poyer[3], Andy Tompsett[3], Jim Malster[3]
[1]National Center for Malaria Control, Parasitology and Entomology, Phnom Penh, Cambodia, [2]Population Services International Cambodia, Phnom Penh, Cambodia, [3]Population Services International, Washington, DC, United States, [4]Population Services International Laos, Vientiane, Lao People's Democratic Republic, [5]U.S. President's Malaria Initiative/United States Agency for International Development, Phnom Penh, Cambodia

Malaria – Strategies for Elimination

282

LESSONS FROM DIGITIZING A MASS DRUG ADMINISTRATION CAMPAIGN FOR MALARIA DURING A COMPLEX EMERGENCY—CABO DELGADO, MOZAMBIQUE, 2021

Samira Sibindy[1], Andrea Rowan[2], Baltazar Candrinho[1], Júlia Montañà Lópes[3], Guidion Mathe[1], Amber Dismer[4], Dominic Lucero[2], Bradley Didier[2], Rita Chico[2], Pedro Aide[3], Eva de Carvalho[5], James Colborn[2], Mércia Dimene[1], Leonildo Nhampossa[6], Anastacio Cardoso[6], Aníbal Nhazime[6], Júlio Genésio Nikhotope[6], Dalito Samuel Dala[6], John Rossow[4]
[1]National Malaria Control Program, Ministry of Health, Maputo, Mozambique, [2]Clinton Health Access Initiative, Boston, MA, United States, [3]Centro de Investigação em Saúde de Manhiça, Maputo, Mozambique, [4]Division of Global Health Protection, Centers for Disease Control and Prevention, Atlanta, GA, United States, [5]World Health Organization, Maputo, Mozambique, [6]Ministry of Health, Cabo Delgado, Mozambique

283

MODELLING MALARIA ELIMINATION STRATEGIES IN ZANZIBAR, TANZANIA

Aatreyee M. Das[1], Manuel W. Hetzel[1], Joshua Yukich[2], Logan Stuck[3], Bakar S. Fakih[1], Abdul-wahid H. Al-mafazy[4], Abdullah Ali[4], Nakul Chitnis[1]
[1]Swiss Tropical and Public Health Institute, Basel, Switzerland, [2]Tulane University School of Public Health and Tropical Medicine, New Orleans, LA, United States, [3]Amsterdam Institute for Global Health and Development, Amsterdam, Netherlands, [4]Zanzibar Malaria Elimination Programme, Zanzibar, United Republic of Tanzania

284

ASSESSING THE CONTRIBUTION OF ACTIVE CASE DETECTION TO MALARIA ELIMINATION IN THAILAND

Suravadee Kitchakarn[1], Sathapana Naowarat[2], Prayuth Sudathip[1], Chalita Suttiwong[1], Darin Areechokchai[1], Chantana Padungtod[1], Deyer Gopinath[3], Niparueradee Pinyajeerapat[4], David Sintasath[4], Jui A. Shah[2]
[1]Divison of Vector Borne Diseases, Ministry of Public Health, Nonthaburi, Thailand, [2]Inform Asia: USAID's Health Research Program, RTI International, Bangkok, Thailand, [3]World Health Organization, Nonthaburi, Thailand, [4]U.S. President's Malaria Initiative, United States Agency for International Development (USAID), Regional Development Mission for Asia, Bangkok, Thailand

285

PROGRESS TOWARD *PLASMODIUM FALCIPARUM* ELIMINATION IN THAILAND

Prayuth Sudathip[1], Donal Bisanzio[2], Suravadee Kitchakarn[1], Deyer Gopinath[3], Niparueradee Pinyajeerapat[4], David Sintasath[4], Jui A. Shah[2]
[1]Division of Vector Borne Diseases, Department of Disease Control, Ministry of Public Health, Nonthaburi, Thailand, [2]Inform Asia: USAID's Health Research Program, RTI International, Bangkok, Thailand, [3]World Health Organization, Nonthaburi, Thailand, [4]U.S. President's Malaria Initiative, United States Agency for International Development (USAID), Regional Development Mission for Asia, Bangkok, Thailand

286

ROLE OF RURAL PRIVATE SECTOR PROVIDERS IN MALARIA SURVEILLANCE AND CASE MANAGEMENT DURING COVID-19 PANDEMIC IN MYANMAR

May Me Thet, Kyaw Zaya, Si Thu Thein
Population Services International Myanmar, Yangon, Myanmar

287

CROSS-BORDER MOVEMENT AS A KEY CHALLENGE IN MALARIA ELIMINATION EFFORTS IN THE GUIANA SHIELD: ASSESSMENT OF MOBILE MIGRANT POPULATION CHARACTERISTICS

Pierre Pratley[1], Marieke Heemskerk[2], Eelco Jacobs[1], François-Michel Le Tourneau[3], Oscar Mesones Lapouble[4], Helene Hiwat[5]
[1]KIT Royal Tropical Institute, Amsterdam, Netherlands, [2]Social Solutions, Paramaribo, Suriname, [3]CNRS/University of Arizona, Tuczon, AZ, United States, [4]PAHO, Paramaribo, Suriname, [5]Malaria Program Suriname, Paramaribo, Suriname

288

IDENTIFYING AND ADDRESSING GAPS IN THE MALARIA ELIMINATION STRATEGY: ACTIVE CASE DETECTION IN MADAGASCAR, 2020

Fanomezana Andriamamonjy[1], Maurice Ye[2], Sandy Ralisata[3], Jean Marie N'Gbichi[4], Sabas Rabesahala[1], Urbain Rabibizaka[1], Saraha Rabeherisoa[1], Brune Ramiranirina[1], Celestin Razafinjato[1], Laurent Kapesa[5], Brittany S. Iskarpatyoti[6], Yazoume Ye[4]
[1]National Malaria Control Program, Antananarivo, Madagascar, [2]2 U.S. President's Malaria Initiative Measure Malaria, University of North Carolina at Chapel Hill/ICF, Chapel Hill, NC, United States, [3]PMI Impact Malaria, Antananarivo, Madagascar, [4]U.S. President's Malaria Initiative Measure Malaria, University of North Carolina at Chapel Hill/ICF, Chapel Hill, NC, United States, [5]U.S. President's Malaria Initiative, Antananarivo, Madagascar, [6]U.S. President's Malaria Initiative Measure Malaria, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

289

ACCELERATE EFFORTS TOWARDS MALARIA ELIMINATION TO ACHIEVE ACTIVE FOCI FREE STATUS IN RAMREE TOWNSHIP, RAKHINE STATE OF MYANMAR

Day Naing Aung[1], Aung Thi[2], Nu Nu Khin[3], Hala J. AlMossawi[4], Thant Zin Aung[1], Arkar Htet[1], Ye Thu Aung[1], Khin Than Win[5], Khin Mon Mon[5], Ye Hein Naing[5], Kyaw Myint Tun[5]
[1]University Research Co., LLC, Toungup, Myanmar, [2]National Malaria Control Programme, Ministry of Health and Sports, Nay Pyi Taw, Myanmar, [3]PMI/USAID, Yangon, Myanmar, [4]University Research Co., LLC, Chevy Chase, MD, United States, [5]University Research Co., LLC, Yangon, Myanmar

290

ADAPTATION OF RAPID MULTI-OBJECTIVE LOT QUALITY ASSURANCE SAMPLING (LQAS) SURVEYS AS PART OF SEASONAL MALARIA CHEMOPREVENTION (SMC) PROGRAMS IN BURKINA FASO, CHAD, NIGERIA AND MOZAMBIQUE FOR IDENTIFYING ISSUES AND DRIVING IMPROVEMENTS IN SMC DELIVERY

Sol Richardson[1], Azoukalne Moukenet[2], Taiwo Ibinaiye[3], Adaeze Aidenagbon[3], Benoit Sawadogo[4], Cheick Compaore[4], Junica M. De Macedo Alface[5], Albertino Zunza[5], Pedro Aide[6], Kevin Baker[1], Christian Rassi[1], Helen Counihan[1], Arantxa Roca-Feltrer[7]
[1]Malaria Consortium, London, United Kingdom, [2]Cheikh Anta Diop University, Dakar, Senegal, [3]Malaria Consortium, Abuja, Nigeria, [4]Malaria Consortium, Ouagadougou, Burkina Faso, [5]Malaria Consortium, Nampula, Mozambique, [6]The Manhiça Health Research Centre, Manhiça, Mozambique, [7]Malaria Consortium, Maputo, Mozambique

291

COMMUNITY HEALTH COUNCILS FOR MALARIA ELIMINATION IN HAITI: LESSONS FROM A PILOT PROJECT IN GRAND ANSE DEPARTMENT

Kevin Bardosh[1], Luccene Desir[2], Lorence Jean[3], Sarah Yoss[2], Brianna Poovey[2], Andrew Nute[2], Marc-Aurèle Telfort[4], Fabiola Benoit[4], Ginette Chery[5], Marie Carmelle Charlotin[5], Gregory Noland[2]
[1]University of Washington, Seattle, WA, United States, [2]The Carter Center, Atlanta, GA, United States, [3]The Carter Center, Atlanda, GA, United States, [4]Ministère de la Sante Publique et de la Population, Port-au-Prince, Haiti, [5]Ministère de la Sante Publique et de la Population, Port au Prince, Haiti

Malaria – Vaccines

292

DEVELOPMENT OF A SECOND-GENERATION GENETICALLY ATTENUATED MALARIA VACCINE: EN ROUTE TO A FIRST CLINICAL TRIAL

Blandine MD Franke-Fayard[1], Catherin Marin-Mogollon[1], Surendra Kumar Kolli[1], Fiona J. Geurten[1], Séverine Chevalley-Maurel[1], Hans Kroeze[1], Jai Ramesar[1], Amit Subudhi[2], Arnab Pain[2], Sean Murphy[3], Maya Aleshnick[4], Thomas Martinson[4], Brandon Wilder[4], Shahid M. Khan[1], Matthew McCall[5], Olivia Lamers[1], Meta Roestenberg[1], Chris J. Janse[1]
[1]LUMC, Leiden, Netherlands, [2]KAUST, Thuwal, Saudi Arabia, [3]UW, Seattle, WA, United States, [4]OHSU, Portland, OR, United States, [5]RUMC, Nijmegen, Netherlands

293

SAFETY AND EFFICACY AGAINST NATURALLY TRANSMITTED *PLASMODIUM FALCIPARUM* MALARIA OF PFSPZ VACCINE IN 2- TO 50-YEAR-OLDS LIVING ON BIOKO ISLAND, EQUATORIAL GUINEA

Said A. Jongo[1], Kamaka Kassimu[1], Raul Chuquiyauri[2], Peter F. Billingsley[2], Elizabeth Nyakarungu[1], Maxmillian Mpina[3], Ali Hamad[1], Thabit Athuman[1], Jose Raso[4], Tobias Schindler[5], Vicente Urbano[6], Maria Silvia Angue Mikue[6], Beltran Pasialo[6], Marta Alene Owono Eyang[6], Escolastica Raquel Mansogo Maye[6], Gertrudis Owono Bidjimi[6], Ester Eburi-Losoha[4], Martin Eka Ondo[6], Matilde Riloha Rivas[6], Gabriel Mba Abegue[4], Yolanda Rimoy Veri[4], Federico Comsil Chochi[4], Wonder Philip Phiri[4], Dolores Mbang Ondo Mandumbi[6], Julia Yumbe Baka[4], Guillermo A. García[4], Restituto Moka Bila[4], Ines Toichoa Bela[4], Juan Carlos Momo Besaha[4], B. Kim Lee Sim[2], Bonifacio Manguire Nlavo[7], Laurence Lemiale[8], Preston Church[2], Marcel Tanner[3], Claudia A. Daubenberger[3], Stephen L. Hoffman[2], Salim Abdulla[1], Thomas Richie[2]
[1]Ifakara Health Institute, Dar es Salaam, United Republic of Tanzania, [2]Sanaria Inc., Rockville, MD, United States, [3]Swiss Tropical and Public Health Institute, University of Basel, Basel, Switzerland, [4]Medical Care Development International, Malabo, Equatorial Guinea, [5]Swiss Tropical and Public Health Institute, Basel, Switzerland, [6]Ministry of Health and Social Welfare of Equatorial Guinea, Malabo, Equatorial Guinea, [7]Marathon Oil Corporation, Malabo, Equatorial Guinea, [8]Sanaria Inc., Rockville, Equatorial Guinea

294

PHASE 2 SAFETY AND EFFICACY EVALUATION OF RADIATION ATTENUATED *PLASMODIUM FALCIPARUM* SPOROZOITE (PFSPZ) VACCINE IN HEALTHY AFRICAN ADULT WOMEN OF CHILDBEARING POTENTIAL IN OUÉLESSÉBOUGOU, MALI

Halimatou Diawara
Icermali, Bamako, Mali

295

PRODUCTION OF PFSPZ FOR MALARIA VACCINES IN A BIOREACTOR WITHOUT MOSQUITOES

Abraham G. Eappen, Peter F. Billingsley, Poojan Pyakurel, Tao Li, MingLin Li, Ayyappan Rathakrishnan, Alemtaye Yossef, Sumana Chakravarty, Christiane Tran, Yonas Abebe, Asha Patil, Lixin Gao, B. Kim Lee Sim, Stephen L. Hoffman
Sanaria Inc., Rockville, MD, United States

296

PARASITE TARGETS OF PROTECTION INDUCED BY PFSPZ VACCINE, A WHOLE ORGANISM-BASED VACCINE AGAINST MALARIA

Ankit Dviwedi[1], Biraj Shrestha[1], Kephas Otieno[2], Reuben Yego[2], Simon Kariuki[2], Andrea A. Berry[1], Kirsten E. Lyke[1], Shannon Takala-Harrison[1], B. Kim Lee Sim[3], Thomas L. Richie[3], Stephen L. Hoffman[1], Robert Seder[4], Martina Oneko[2], **Joana C. Silva**[1]
[1]Univ Maryland School Medicine, Baltimore, MD, United States, [2]Kenya Medical Research Institute, Kisumu, Kenya, [3]Sanaria Inc, Rockville, MD, United States, [4]Vaccine Research Center, National Institutes of Health, Bethesda, MD, United States

297

PFSPZ VACCINE EFFICACY WITH AND WITHOUT ANTIMALARIAL PRE-TREATMENT-COMPARISON BETWEEN STUDIES

Aye Sousa
NIH/NIAID, Bethesda, MD, United States

298

GIVING MALARIA VACCINATIONS THE ALL CLEAR: THE IMPORTANCE OF CLEARING ASEXUAL ERYTHROCYTIC STAGE PARASITEMIA BEFORE ADMINISTRATION OF PFSPZ VACCINES

Peter F. Billingsley[1], On behalf of International PfSPZ Consortium[2]
[1]Sanaria Inc., Rockville, MD, United States, [2]International PfSPZ Consortium, Rockville, MD, United States

299

SAFETY AND PROTECTIVE EFFICACY OF PFSPZ-CVAC (PYR) VACCINATION AGAINST *PLASMODIUM FALCIPARUM* INFECTION IN HEALTHY ADULTS IN BANCOUMANA, MALI

Maiga Mahamadoun H. Assadou[1], David Cook[2], Issaka Sagara[1], Kourane Sissoko[1], Sibiri Sissoko[1], John Woodford[2], Amatigue Ziguime[1], Seydou Sankare[1], Sadio Koni Diarra[1], Mamady Kone[1], Sintry Sanogo[1], Moussa Bamaba kanoute[1], Sara Anne Healy[2], Imeru Alemush[2], Emily Higbee[2], Mahamadou Soumana Sissoko[1], Jacquelyn Lane[2], B Kim Lee Sim[3], Thomas L. Richie[4], Stephen L. Hoffman[4], Patrick Duffy[2]
[1]International Center for Excellence in Research (ICER), Mali, Bamako, Mali, [2]Laboratory of Malaria Immunology and Vaccinology (LMIV), Bethesda, MD, United States, [3]Protein Potential, LLC, Rockville, MD, United States, [4]Sanaria Inc, Rockville, MD, United States

300

IMPACT OF COVID-19 ON PLANNED AND ONGOING PFSPZ VACCINE CLINICAL RESEARCH AND SITE MITIGATION STRATEGIES IN BIOKO ISLAND, EQUATORIAL GUINEA IN 2020

Marta Alene Owono Eyang[1], Vicente Urbano Ndong[1], Maria Silvia Angue Mikie[1], Wonder P. Phiri[2], Raul Chuquiyauri Haro[2], Juan Carlos Momo[2], L.W. Preston Church[3], Laurence Lemiale[4], Thomas Richie[4], Guillermo A. García[5], Peter Billingsley[6], Claudia Daubenberger[7], Kamaka Kassim[8], Stephen L. Hoffman[4], Said Jongo[8]
[1]Ministry of Health and Social Welfare, Malabo, Equatorial Guinea, [2]Medical Care Development International, Malabo, Equatorial Guinea, [3]Sanaria Inc., Rockville, MD, United States, [4]Sanaria Inc, Rockville, MD, United States, [5]Medical Care Development Interntional, Silver Spring, MD, United States, [6]Sanaria Inc., Rocville, MD, United States, [7]Swiss Tropical and Public Health Institute, Basel, Switzerland,, Basel, Switzerland, [8]Ifakara Health Institute, Dar es Salam, United Republic of Tanzania

301

PFSPZ-LARC1 VACCINE, A *PLASMODIUM FALCIPARUM* SPOROZOITE VACCINE GENETICALLY ATTENUATED TO ARREST AT THE LATE LIVER STAGE

B. Kim Lee Sim[1], Tao Li[1], Debashree Goswami[2], Nelly Camargo[2], Asha Patil[1], Yonas Abebe[1], Janna Armstrong[2], Will Betz[2], Ayyappan Rathakrishnan[1], Donald Ward[1], Christiane Urgena[1], Ashley Vaughan[2], Stephen L. Hoffman[1], Stefan Kappe[2]
[1]Sanaria Inc., Rockville, MD, United States, [2]Seattle Children's Research Institute, Seattle, WA, United States

(ACMCIP Abstract)

302

TOWARDS HUMAN USE OF A GLYCOLIPID ADJUVANT FOR *PLASMODIUM FALCIPARUM* (PF) SPOROZOITE (SPZ)-BASED VACCINES AGAINST MALARIA

Sumana Chakravarty[1], Natasha KC[1], Urvashi Rai[1], Moriya Tsuji[2], Sean C. Murphy[3], B. Kim Lee Sim[1], Anita B. Manoj[1], Stephen L. Hoffman[1]
[1]Sanaria Inc., Rockville, MD, United States, [2]Aaron Diamond AIDS Research Center, Department of Medicine, Columbia University Irving Medical Center, New York, NY, United States, [3]Department of Laboratory Medicine, University of Washington, Seattle, WA, United States

Malaria – Vector Control

303

ASSESSING THE BEHAVIOURAL AND PHYSIOLOGICAL EFFECTS OF PIPERONYL BUTOXIDE (PBO) EXPOSURE ON *ANOPHELES GAMBIAE*

Rhosheen S. Mthawanji[1], Hilary Ranson[2], Geraldine Foster[2], Themba Mzilahowa[3], Christopher Jones[1]
[1]Malawi Liverpool Wellcome Trust, Blantyre, Malawi, [2]Liverpool School of Tropical medicine, Liverpool, United Kingdom, [3]MAC Communicable Diseases Action Centre, College of Medicine, Blantyre, Malawi, Blantyre, Malawi

304

EFFECT OF MASS-DISTRIBUTION CAMPAIGN OF INSECTICIDE-TREATED NETS AND INDOOR RESIDUAL SPRAYING ON ENTOMOLOGICAL MEASURE OF MALARIA TRANSMISSION IN BURUNDI

Virgile Gnanguenon[1], **Denis Sinzinkayo**[2], Louise Mahana[3], Jeanne d'Arc Ntiranyibagira[3], Jenny Carlson[4], Aklilu Seyoum[5]
[1]U.S President's Malaria Initiative, VectorLink project, Bujumbura, Burundi, [2]University of Burundi and National Malaria Control Program, Bujumbura, Burundi, [3]U.S President's malaria Initiative, Bujumbura, Burundi, [4]U.S President's malaria Initiative, United States Agency for International Development, Bureau for Global Health, Bujumbura, NC, United States, [5]PMI VectorLink Project, Abt Associates, Washington, CA, United States

305

TARGETING STRONGLY INSECTICIDE RESISTANT *ANOPHELES FUNESTUS* BY USING IVERMECTIN BASED ATTRACTIVE TOXIC SUGAR BAITS IN THE SEMIFIELD SYSTEM

Felician Clement Meza[1], Letus L. Muyaga[1], Polius G. Pinda[1], Nuru S. Nchimbi[1], Frederic Tripet[2], Sarah J. Moore[3], Fredros O. Okumu[1]
[1]Ifakara Health Institute, Ifakara, Morogoro, United Republic of Tanzania, [2]Keele University, Centre for Applied Entomology and Parasitology, ST5 5BG, Staffordshire, United Kingdom, [3]Ifakara Health Institute, Bagamoyo, United Republic of Tanzania

306

THE TRIPARTITE RELATIONSHIP BETWEEN *ANOPHELES ARABIENSIS*' GUT MICROBIOME, 20-HYDROXYECDYSONE (20E) SIGNALING, AND VECTORIAL CAPACITY

Elodie Ekoka[1], Luisa Nardini[1], Yael Dahan-Moss[2], Lizette Leonie Koekemoer[1]
[1]University of the Witwatersrand, Johannesburg, South Africa, [2]National Institute for Communicable Diseases, Johannesburg, South Africa

(ACMCIP Abstract)

307

LONG-ACTING IVERMECTIN AGAINST MALARIA: A ONE-HEALTH APPROACH CONSIDERING ECOLOGICAL SIDE-EFFECTS OF TREATED PERIDOMESTIC ANIMALS

Andre Patrick Heinrich[1], Alexandra Schinzel[1], Sié Hermann Pooda[2], Lamidi Zela[2], Christophe Roberge[3], Karine Mouline[4], Rolf-Alexander Düring[1]
[1]Institute of Soil Science and Soil Conservation, Research Center for Biosystems, Land Use and Nutrition, Justus Liebig University (JLU) Giessen, Giessen, Germany, [2]Centre International de Recherche-Développement sur l'Elevage en zone Subhumide (CIRDES) - Université de Dédougou, Bobo-Dioulasso, Burkina Faso, [3]MedinCell, Jacou, France, [4]Institut de Recherche pour le Développement (IRD), Montpellier, France

308

BIOEFFICACY OF CLOTHIANIDIN AND PIRIMIPHOS METHYL IN NORTH WESTERN LAKE ZONE REGIONS IN TANZANIA TO CONTROL PYRETHROID RESISTANT MALARIA VECTORS

Karen Nelwin Zablon[1], Charles Kakilla[1], Jackline Martine[1], Safari Kinung'hi[1], Eric Lyimo[1], Coleman Kishamawe[1], Doris Mangalu[1], Lucy Bernard[1], Chonge Kitojo[2], Naomi Serbantez[2], Erik Reaves[2], Dismas Mwalimu[3], Shabbir Lalji[4], Humphrey Mkali[4], Joseph J. Joseph[4], Adeline Chan[5], Bilali Kabula[4], Ssanyu Nyinondi[4], Erin Eckert[6], Richard Reithinger[6], Alphaxard Manjurano[1]

[1]National Institute for Medical Research, Mwanza, United Republic of Tanzania, [2]US President's Malaria Initiative, CDC, Dar es Salaam, United Republic of Tanzania, [3]National Malaria Control Program, Ministry of Health, Community Development, Gender, Elderly and Children, Dodoma, United Republic of Tanzania, [4]USAID-Okoa Maisha Dhibiti Malaria Project, RTI International, Dar es Salaam, United Republic of Tanzania, [5]President's Malaria Initiative and Centers for Disease Control and Prevention, CDC, Atlanta, GA, United States, [6]RTI International, Washington, DC, United States

309

TWO-YEAR ENTOMOLOGICAL SURVEILLANCE RESULTS FROM A CLUSTER-RANDOMIZED CONTROLLED TRIAL ASSESSING THE EFFICACY OF DUAL ACTIVE INGREDIENTS LONG-LASTING INSECTICIDAL NETS (LLINS) IN MISSUNGWI DISTRICT, SOUTH-WESTERN TANZANIA

Dr. Nancy S. Matowo[1], Dr. Louisa A. Messenger[1], Dr. Manisha A. Kulkarni[2], Mohamed Jumanne[3], Jackline Martin[3], Jacklin F. Mosha[3], Gladness Isaya[4], Boniface Shirima[4], Dr. Robert Kaaya[4], Dr. Mark Rowland[1], Dr. Alphaxard Manjurano[3], Dr. Franklin W. Mosha[4], Dr. Natacha Protopopoff[1]

[1]London School of Hygiene & Tropical Medicine, London, London, United Kingdom, [2]University of Ottawa, Ottawa, ON, Canada, [3]National Institute for Medical Research, Mwanza, United Republic of Tanzania, [4]Kilimanjaro Christian Medical University College, Moshi, United Republic of Tanzania

310

ENTOMOLOGICAL IMPACT OF PIPERONYL BUTOXIDE (PBO) NET DEPLOYMENT ON PYRETHROID-RESISTANT *ANOPHELES GAMBIAE* S.L. MOSQUITOES IN EBONYI STATE, SOUTHEASTERN NIGERIA

Adedayo O. Oduola[1], Lazarus M. Samdi[1], Petrus U. Inyama[1], Ifeanyi Okeke[1], Jesse C. Uneke[2], Lawrence Nwankwo[3], Perpetua Uhomoibhi[4], Adedapo Adeogun[5], Okefu O. Oyale[4], Kelley Ambrose[6], Uwem Inyang[7], Melissa Yoshimizu[8], Aklilu Seyoum[6]

[1]U.S. President's Malaria Initiative VectorLink Project, Abt Associates,, Abuja, Nigeria, [2]Ebonyi State University, Abakaliki, Nigeria, [3]Ebonyi State Ministry of Health, Abakaliki, Nigeria, [4]National Malaria Elimination Programme, Abuja, Nigeria, [5]Nigerian Institute of Medical Research, Lagos, Nigeria, [6]PMI VectorLink Project, Abt Associates, Rockville, MD, United States, [7]PMI U.S. Agency for International Development (USAID), Abuja, Nigeria, [8]U.S. PMI, USAID,, Washington, WA, United States

311

SMARTNET INITIATIVE: HARNESSING MOBILE TECHNOLOGY AS PART OF COMMUNITY ENGAGEMENT TO SUPPORT MALARIA CONTROL IN MALAWI

Michael Kayange - Malawi SmartNet Initiative[1], Akuzike Banda - Malawi SmartNet Initiative[1], Austin Gumbo - Malawi SmartNet Initiative[1], Taonga Mafuleka - Malawi SmartNet Initiative[1], Monica Bautista - Malawi SmartNet Initiative[2], Maurizio Beccherle - Malawi SmartNet Initiative[3], Mariela Chacaltana - Malawi SmartNet Initiative[4], Sabyasachi Das - Malawi SmartNet Initiative[3], Edson Dembo - Malawi SmartNet Initiative[2], Caroline Desrousseaux - Malawi SmartNet Initiative[4], Edward Dzanjalimodzie - Malawi SmartNet Initiative[4], Emmie Françoise - Malawi SmartNet Initiative[4], Lilia Gerberg - Malawi SmartNet Initiative[5], Reuben Granich - Malawi SmartNet Initiative[4], Shannon Harmon - Malawi SmartNet Initiative[5], Collins Kwizombe - Malawi SmartNet Initiative[2], Joseph Maisano - Malawi SmartNet Initiative[4], Isaac Manda - Malawi SmartNet Initiative[6], Pius Masache - Malawi SmartNet Initiative[2], Elias Mwalabu - Malawi SmartNet Initiative[7], Manoj Prabhu - Malawi SmartNet Initiative[3], Joseph Raji - Malawi SmartNet Initiative[7], Patrick Sieyes - Malawi SmartNet Initiative[4], Harkirat Singh - Malawi SmartNet Initiative[4], Harsha Thirumurthy - Malawi SmartNet Initiative[8], Vipin Yadav - Malawi SmartNet Initiative[3], *Authors in alphabetical order by last name[1]

[1]National Malaria Control Program - Ministry of Health and Population of Malawi, Lilongwe, Malawi, [2]U.S. President's Malaria Initiative, Lilongwe, Malawi, [3]Dure Technologies, Geneva, Switzerland, [4]Vestergaard, Lausanne, Switzerland, [5]U.S. President's Malaria Initiative, Washington, DC, United States, [6]FHI360, Durham, NC, United States, [7]Global Health Supply Chain Program - Procurement and Supply Management Malawi, Lilongwe, Malawi, [8]University of Pennsylvania, Philadelphia, PA, United States

312

HOUSEHOLD OUTDOOR NIGHTIME ACTIVITY AND SLEEPING BEHAVIOR AND POTENTIAL IMPLICATIONS FOR MALARIA VECTOR CONTROL IN THE NORTHERN BENIN, WEST AFRICA

Martin C. Akogbéto[1], Ludovic N'tcha[1], Germain G. Padonou[1], Bruno Akinro[1], Said Chitou[1], Patrick Condo[2], Michael Humes[3]

[1]Centre de Recherche Entomologique de Cotonou (CREC), Cotonou, Benin, [2]PMI/USAID, Cotonou, Benin, [3]PMI/USAID, Washington, WA, United States

313

CHARACTERIZING LATE NIGHT *ANOPHELES* MALARIA VECTORS IN NCHELENGE, ZAMBIA

Hannah L. Markle[1], Mary E. Gebhardt[1], David Mbewe[2], Francis K. Mulenga[2], James S. Lupiya[2], Mbanga Muleba[2], Mike Chaponda[2], William J. Moss[1], Jennifer C. Stevenson[1], Douglas E. Norris[1]

[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]Tropical Diseases Research Centre, Ndola, Zambia

314

EFFICACY OF CDC LIGHT TRAP AND HUMAN DECOY TRAP (HDT) COMPARED TO HUMAN LANDING CATCH (HLC) FOR ESTIMATING MALARIA VECTOR BITING RATES IN RURAL TANZANIA

Isaac Haggai Namango[1], Carly Marshall[2], Frank Tenywa[3], Olukayode G. Odufuwa[3], Godfrey Ligema[3], Hassan Ngonyani[3], Isaya Matanila[3], Noely Makungwa[3], Jameel Zainul Bharmal[4], Jason Moore[3], David Kaftan[5], Adam Saddler[6], Amanda Ross[1], Sarah Moore[3], Manuel Hetzel[1]

[1]Swiss Tropical and Public Health Institute, Basel, Switzerland, [2]BC Centre for Excellence in HIV/AIDS, Vancouver, BC, Canada, [3]Ifakara Health Institute, Dar es Salaam, United Republic of Tanzania, [4]Innovative Vector Control Consortium, Dar es Salaam, United Republic of Tanzania, [5]Marquette University, Milwaukee, WI, United States, [6]Telethon Kids Institute, Perth, Australia

315

KEY FINDINGS FROM DIGITIZING SUPERVISION OF CONTINUOUS DISTRIBUTION CHANNELS FOR INSECTICIDE TREATED NETS IN TANZANIA, 2019-2020

Kanuth Dimoso[1], Peter Gitanya[2], Mwinyi Khamis[3], Charles Simba[1], Mubita Lifwatila[1], Naomi Serbantez[4], Erik Reaves[5], Jane Miller[6], Luigi Nuñez[6]

[1]PMI VectorLink Tanzania, Dar es Salaam, United Republic of Tanzania, [2]National Malaria Control Program, Dar es Salaam, United Republic of Tanzania, [3]Zanzibar Malaria Elimination Program, Zanzibar, United Republic of Tanzania, [4]USAID Tanzania, Dar es Salaam, United Republic of Tanzania, [5]President's Malaria Initiative, U.S. Centers for Disease Control and Prevention, Dar es Salaam, United Republic of Tanzania, [6]PMI VectorLink, Washington, DC, United States

316

PYRETHROID-PIPERONYL BUTOXIDE (PBO) NETS REDUCE THE EFFICACY OF INDOOR RESIDUAL SPRAYING WITH PIRIMIPHOS-METHYL: AN EXPERIMENTAL HUT EVALUATION IN SOUTHERN BENIN

Thomas W. Syme[1], Corine Ngufor[1], Augustin Fongnikin[2], Martial Gbegbo[2]

[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]Centre de Recherche Entomologique de Cotonou, Cotonou, Benin

317

USING TRANSFER LEARNING COUPLED WITH DIMENSIONALITY REDUCTION TO IMPROVE GENERALISABILITY OF MACHINE LEARNING PREDICTIONS OF MOSQUITO AGES FROM MID INFRARED SPECTRA

Emmanuel P. Mwanga[1], Joshua Mitton[2], Doreen J. Siria[1], Francesco Baldini[2], Fredros O. Okumu[1], Simon A. Babayan[2]
[1]Ifakara Health Institute, Dar es salaam, United Republic of Tanzania, [2]University of Glasgow, Glasgow, United Kingdom

318

IMPACT OF NEXT-GENERATION DUAL-ACTIVE INGREDIENT LONG-LASTING INSECTICIDAL NET DEPLOYMENT IN TANZANIA ON INSECTICIDE RESISTANCE IN *ANOPHELES FUNESTUS* S.L. AND *ANOPHELES GAMBIAE* S.L.: AMELIORATION OR INTENSIFICATION?

Louisa Alexandra Messenger[1], Nancy S. Matowo[1], Manisha A. Kulkarni[2], Mohamed Jumanne[3], Jackline Martin[3], Jacklin F. Mosha[3], Gladness Isaya[4], Boniface Shirima[4], Robert Kaaya[4], Mark Rowland[1], Alphaxard Manjurano[3], Franklin F. Mosha[4], Natacha Protopopoff[1]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]University of Ottawa, Ottawa, ON, Canada, [3]National Institute for Medical Research, Mwanza, United Republic of Tanzania, [4]Kilimanjaro Christian Medical University College, Moshi, United Republic of Tanzania

319

ASSESSMENT OF THE DURABILITY OF LONG-LASTING INSECTICIDAL NETS FROM THE 2017 ITN MASS CAMPAIGN IN BENIN, WEST AFRICA

Idelphonse Bonaventure Ahogni[1], Jean F. Dagnon[2], Patrick Condo[3], Germain G. Padonou[1], Martin C. Akogbeto[1]
[1]Centre de Recherche Entomologique de Cotonou, Cotonou, Benin, [2]Malaria country engagement for the Western and Central African regions, Bill & Melinda Gates Foundation, Abuja, Nigeria, [3]US President's Malaria Initiative (PMI), US Agency of International Development (USAID), Cotonou, Benin

320

LIMITED IMPACT OF INDOOR RESIDUAL SPRAYING (IRS) FOR MALARIA CONTROL IN TANZANIA 2014 - 2020: A RETROSPECTIVE ANALYSIS

Donal Bisanzio[1], Bilali Kabula[2], Humphrey R. Mkali[2], Shabbir Lalji[2], Abdul-wahid Al-mafazy[2], Joseph J. Joseph[2], Ssanyu S. Nyinondi[2], Ally Mohamed[3], Peter Gitanya[3], Faiza B. Abbas[4], Khamis A. Haji[4], Bakari O. Khatib[4], Chonge Kitojo[5], Naomi Serbantez[5], Erik Reaves[6], Mike McKay[1], Erin Eckert[1], Jeremiah Ngondi[1], Richard Reithinger[1]
[1]RTI International, Washington, DC, United States, [2]RTI International, Dar es Salaam, United Republic of Tanzania, [3]National Malaria Control Programme, Dodoma, United Republic of Tanzania, [4]Zanzibar Malaria Elimination Programme, Ministry of Health, Zanzibar, United Republic of Tanzania, [5]US President's Malaria Initiative, United States Agency for International Development, Dar es Salaam, United Republic of Tanzania, [6]US President's Malaria Initiative, US Centers for Disease Control and Prevention, Dar es Salaam, United Republic of Tanzania

Bacteriology – Enteric Infections

321

SITE-SPECIFIC INCIDENCE RATE OF DIFFERENT GENOMIC STRAINS OF ENTEROAGGREGATIVE *ESCHERICHIA COLI* & ASSOCIATION WITH ENTERIC INFLAMMATION & GROWTH IN CHILDREN OF A MULTICOUNTY BIRTH COHORT STUDY

Rina Das
International Centre for Diarrhoeal Disease Research, Bangladesh (icddr,b), Dhaka, Bangladesh

322

COMPLICATED COURSE OF A PRIMARY KLEBSIELLA PNEUMONIAE LIVER ABSCESS REQUIRING EXPLORATORY LAPAROTOMY AND PARTIAL HEPATIC LOBECTOMY

Katherine E. Arn
Santa Barbara Cottage Health, Santa Barbara, CA, United States

323

IMMUNOGENICITY AND WANING OF IMMUNITY TO ORAL CHOLERA VACCINE (SHANCHOL™) IN ADULTS RESIDING IN LUKANGA SWAMPS OF ZAMBIA

Harriet Ng'ombe[1], Caroline Cleopatra Chisenga[1], Michelo Simuyandi[1], John Mwaba[1], Samuel Bosomprah[1], Luiza M. Hatyoka[1], Mutinta Muchimba[1], Charlie C. Luchen[1], Cynthia Mubanga[1], Obvious N. Chilyabanyama[1], Peter I. Alabi[1], Geoffrey Kwenda[2], Roma Chilengi[1]
[1]Centre for Infectious Disease Research in Zambia, Lusaka, Zambia, [2]University of Zambia,Ridgeway campus, Lusaka, Zambia

324

ASSESSMENT ON ENTEROPATHOGEN DIARRHEA-ASSOCIATED AMONG UNDER-FIVE CHILDREN IN BENGO ANGOLA

Elsa M. Fortes-Gabriel[1], Maria F. Da Silva[2], Jocelyne N. Vasconcelos[2], Miguel Brito[3]
[1]Instituto Superior Técnico Militar, Estado Maior General das Forças Armadas Angolanas, Luanda, Angola, [2]Centro de Investigação em Saúde de Angola, Instituto Nacional de Investigação em Saúde, Bengo, Angola, [3]Escola Superior de Tecnologia da Saúde de Lisboa, Instituto Politécnico de Lisboa, Lisboa, Portugal

325

CAN A FOOD HYGIENE AND NUTRITION INTERVENTION REDUCE DIARRHEA AND ENTERIC DYSFUNCTION AMONG CHILDREN IN RURAL BANGLADESH?

Anna A. Mueller-Hauser[1], Tarique Md. Huda[2], Shafinaz Sobhan[1], Jillian L. Waid[3], Amanda S. Wendt[3], Mahbubur Rahman[2], Sabine Gabrysch[1]
[1]Charité - Universitätsmedizin Berlin, corporate member of Freie Universität Berlin and Humboldt-Universität zu Berlin, Institute of Public Health, Berlin, Germany, [2]Environmental Interventions Unit, Infectious Diseases Division, icddr,b, Dhaka, Bangladesh, [3]Research Department 2, Potsdam Institute for Climate Impact Research, Member of the Leibniz Association, Potsdam, Germany

326

PROTECTION AFFORDED BY PREVIOUS *VIBRIO CHOLERAE* INFECTION AGAINST SUBSEQUENT DISEASE AND INFECTION: A REVIEW

Tiffany Leung, Laura Matrajt
Fred Hutchinson Cancer Research Center, Seattle, WA, United States

327

ASSOCIATIONS BETWEEN BACTERIAL ENTEROPATHOGENS AND SYSTEMIC INFLAMMATION, IRON STATUS, AND ANEMIA IN PRESCHOOL-AGE CHILDREN IN GHANA

Nathalie J. Lambrecht[1], Dave Bridges[1], Mark L. Wilson[1], Bright Adu[2], Joseph N. Eisenberg[1], Gloria Folson[2], Ana Baylin[1], Andrew D. Jones[1]
[1]University of Michigan, Ann Arbor, MI, United States, [2]Noguchi Memorial Institute for Medical Research, Legon, Ghana

328

UNDERSTANDING THE INCIDENCE AND RISK FACTORS ASSOCIATED WITH TRAVELERS' DIARRHEA IN INTERNATIONAL TRAVELERS DEPARTING FROM UTAH, USA

Valerie Fernandez[1], Sharia M. Ahmed[1], Michael C. Graves[1], Holly E. Shoemaker[2], Holly Birich[3], Nora Sooklaris[4], Jakrapun Pupaibool[1], L. Scott Benson[5], Daniel Leung[1]
[1]Division of Infectious Disease, University of Utah School of Medicine, Salt Lake City, UT, United States, [2]Division of Epidemiology, University of Utah School of Medicine, Salt Lake City, UT, United States, [3]Salt Lake County Health Department, Salt Lake City, UT, United States, [4]University of Utah Health, Salt Lake City, UT, United States, [5]Division of Public Health, University of Utah School of Medicine, Salt Lake City, UT, United States

329

ETIOLOGY OF DIARRHEA AMONG PEOPLE LIVING WITH HUMAN IMMUNODEFICIENCY VIRUS AND HUMAN IMMUNODEFICIENCY VIRUS NEGATIVE PATIENTS IN IBADAN, NIGERIA

Oyeniyi Stephen Bejide[1], Mariam A. Odebode[1], Veronica Ogunleye[2], Victoria Nwachukwu[2], Olukemi Adekanmbi[1], Babatunde O. Ogunbosi[1], Kolawole O. Akande[1], Temitope Ilori[1], Iruka N. Okeke[1]
[1]University of Ibadan, Ibadan, Nigeria, [2]University College Hospital, Ibadan, Nigeria

330

GUT MICROBIOME COMPOSITION PRIOR TO CAMPYLOBACTER GASTROENTERITIS AMONG NICARAGUAN INFANTS

Claudia Mercedes Perez[1], Luis E. Zambrana2[2], Lester Gutiérrez[1], Nadja A. Vielot[3], Fredman González[1], Christian Toval-Ruiz[1], Patricia Blandón[1], Roberto Herrera[1], Filemón Bucardo[1], Sylvia Becker-Dreps[3], Samuel Vilchez[1]
[1]Department of Microbiology, National Autonomous University of Nicaragua, León, León, Nicaragua., Leon, Nicaragua, [2]Department of Epidemiology, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [3]Departments of Family Medicine and Epidemiology, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

331

MOST ANTIBIOTIC EXPOSURE TO ENTERIC PATHOGENS OCCURS DURING SUBCLINICAL INFECTIONS AMONG CHILDREN UNDER TWO YEARS OF AGE IN LOW-RESOURCE SETTINGS

Stephanie A. Brennhofer[1], Timothy L. McMurry[1], James A. Platts-Mills[1], Joseph A. Lewnard[2], Elizabeth T. Rogawski McQuade[1]
[1]University of Virginia, Charlottesville, VA, United States, [2]University of California - Berkeley, Berkeley, CA, United States

332

CLOSTRIDIOIDES DIFFICILE CARRIAGE IN THE FIRST TWO YEARS OF LIFE AMONG CHILDREN IN RESOURCE-LIMITED SETTINGS

Stephanie A. Brennhofer, Elizabeth T. Rogawski McQuade, Jie Liu, Richard L. Guerrant, James A. Platts-Mills, Cirle A. Warren
University of Virginia, Charlottesville, VA, United States

333

REAL-TIME SURVEILLANCE FOR PEDIATRIC ENTERIC PATHOGENS OF PUBLIC HEALTH CONCERN IN BELIZE

Mary B. Fortini[1], Sarah M. Gunter[1], Gerhaldine Morazan[2], Adrianna Maliga[1], Russell Manzanero[2], Shannon E. Ronca[1], Francis Morey[2], Kristy O. Murray[1]
[1]Baylor College of Medicine, Houston, TX, United States, [2]Belize Ministry of Health and Wellness, Belmopan, Belize

334

ESTIMATING THE ECONOMIC BURDEN OF TYPHOID IN CHILDREN AND ADULTS IN BLANTYRE, MALAWI: A COSTING COHORT STUDY

Fumbani Loveness Limani[1], Christopher Smith[1], James Meiring[1], Richard Wachepa[1], Frederic Debellat[2], Clint Pacenka[2], Melita Gordon[1], Naor Bar-Zeev[1]
[1]Malawi Liverpool Wellcome Trust, Blantyre, Malawi, [2]PATH, Seattle, WA, United States

Clinical Tropical Medicine

335

NASOPHARYNGEAL COLONIZATION, ASSOCIATED FACTORS AND ANTIMICROBIAL RESISTANCE OF STREPTOCOCCUS PNEUMONIAE AMONG CHILDREN UNDER 5 YEARS OF AGE IN THE SOUTHWESTERN COLOMBIA

Juan Pablo Rojas
Club Noel Children's Clinic Foundation in Cali, Colombia, Cali, Colombia

336

POINT OF CARE ULTRASOUND IN MANAGEMENT OF LASSA FEVER AT IRRUA SPECIALIST TEACHING HOSPITAL, NIGERIA - A PILOT STUDY

Cyril Oshomah Erameh
Irrua Specialist Teaching Hospital, Irrua, Nigeria

337

ENTEROBACTERIACEAE PRODUCING EXTENDED-SPECTRUM B-LACTAMASES (ESBLS) IN A SPECIALIZED CLINIC IN THE CITY OF MONTERÍA- CÓRDOBA-COLOMBIA

Linda M. Chams, William Guerrero, Laura V. Machado, Carlos J. Castro
Grupo de Investigaciones Microbiológicas y Biomédicas de Córdoba (GIMBIC)- Universidad de Córdoba, Monteria, Colombia

338

PREVALENCE OF RESISTANT METICILIN STAPHYLOCOCUS AUREUS (MRSA) PRESENT IN POLI-TRAUMA PATIENTS AT A SPECIALIZED CLINIC IN MONTERÍA- CÓRDOBA- COLOMBIA

Linda M. Chams, William Guerrero, Jorge A. Ponce, Carlos J. Castro
Grupo de Investigaciones Microbiológicas y Biomédicas de Córdoba (GIMBIC)- Universidad de Córdoba, Monteria, Colombia

339

ANTIBIOTICS IN THE MANAGEMENT OF UNCOMPLICATED SEVERE ACUTE MALNUTRITION IN BURKINA FASO: A RANDOMIZED TRIAL COMPARING AZITHROMYCIN TO AMOXICILLIN

Kieran S. O'Brien[1], Ali Sie[2], Clarisse Dah[3], Millogo Ourohire[3], Moussa Ouedraogo[3], Valentin Boudo[3], Ahmed M. Arzika[4], Elodie Lebas[1], Fanice Nyatigo[1], William W. Godwin[1], J. D. Kelly[1], Benjamin F. Arnold[1], Catherine E. Oldenburg[1]
[1]University of California, San Francisco, San Francisco, CA, United States, [2]Centre de Recherche en Santé de Nouna, Nouna, Burkina Faso, [3]Centre de Recherche en Sante de Nouna, Nouna, Burkina Faso, [4]Centre de Recherche et Interventions en Sante Publique, Niamey, Niger

340

DIFFERENCES IN THE EXTENT OF BREASTFEEDING BETWEEN HAITIAN CREOLE- AND SPANISH-SPEAKING HOUSEHOLDS IN THE DOMINICAN REPUBLIC

Isabella Alatorre, John D. McLennan
University of Calgary, Calgary, AB, Canada

341

DIFFERENCES IN EARLY INITIATION OF BREASTFEEDING BETWEEN CUBA AND THE DOMINICAN REPUBLIC

Donovan Seidel, John D. McLennan
University of Calgary, Calgary, AB, Canada

342

FREQUENCY OF TYPHOID CARRIER IN PATIENTS UNDERGOING CHOLECYSTECTOMY FOR GALL BLADDER DISEASES USING REAL TIME PCR

Sonia Qureshi, Maria Fletcher, Tabish Chawla, Farah Naz Qamar
Aga Khan University Hospital, Karachi, Pakistan

343

DEPRESSION AND QUALITY OF LIFE AMONGST FILARIAL LYMPHOEDEMA PATIENTS: DETERMINING DEMOGRAPHIC, SOCIO-ECONOMIC AND PHYSICAL RISK FACTORS, AND THE IMPACT OF ENHANCED SELF-CARE INTERVENTION

Carrie Barrett
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

344

TOWARDS THE DEVELOPMENT OF A CLINICAL MANAGEMENT DECISION TREE FOR DIAGNOSIS OF PATIENTS WITH ACUTE FEBRILE ILLNESS IN BANGLADESH: A PRELIMINARY ANALYSIS

Angella Sandra Namwase[1], Pritimoy Das[2], M Ziaur Rahman[2], Mahmudur Rahman[3], Cecilia Y. Kato[1], Daniel W. Martin[1], Mahabub Ul Anwar[1], Adam L. Cohen[1]
[1]Centers for Disease Control, Atlanta, GA, United States, [2]International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, [3]Independent Consultant, Dhaka, Bangladesh

345

IS EDUCATION ENOUGH? AN INTERVENTION TO IMPROVE SCREENING FOR CHAGAS DISEASE AT AN ACADEMIC SAFETY NET HOSPITAL IN THE US

Alyse Wheelock[1], Sukhmeet Sandhu[1], Catherine Bielick[1], Katherine Reifler[1], Maja Carrion[2], Katherine Janiszewski[3], David Hamer[4], Natasha Hochberg[5]
[1]Boston Medical Center, Boston, MA, United States, [2]Boston University College of Health and Rehabilitation Sciences: Sargent College, Boston, MA, United States, [3]Boston University School of Public Health, Boston, MA, United States, [4]Boston University School of Public Health and School of Medicine, Boston, MA, United States, [5]Boston University School of Medicine and Boston University School of Public Health, Boston, MA, United States

346

AN UNUSUALLY LATE CLINICAL PRESENTATION

Jordan Kit Mah, Anthony Lieu, Emma Holmes, Steve Vaughan
University of Calgary, CALGARY, AB, Canada

347

ENVIRONMENTAL ENTERIC DYSFUNCTION: HISTOPATHOLOGICAL & IMMUNOHISTOCHEMICAL ANALYSIS OF DUODENAL BIOPSIES FROM PAKISTANI MALNOURISHED CHILDREN

Zehra Jamil[1], Najeeha Iqbal[1], Kamran Sadiq[1], Junaid Iqbal[1], Sana Syed[2], Zubair Ahmad[1], Romana Idrees[1], Kumail Ahmed[1], Christopher A. Moskaluk[2], Donna M. Denno[3], Sean Moore[2], Syed Asad Ali[1]
[1]Aga Khan University, Karachi, Pakistan, [2]University of Virginia, CharlottesVille, VA, United States, [3]University of Washington, Seattle, WA, United States

348

AZITHROMYCIN FOR CHILD SURVIVAL IN NIGER: IMPLEMENTATION AND RESEARCH (AVENIR): AN ADAPTIVE CLUSTER-RANDOMIZED TRIAL TO DETERMINE THE OPTIMAL AGE GROUP FOR IMPLEMENTATION OF BIANNUAL ORAL AZITHROMYCIN DISTRIBUTION TO REDUCE CHILD MORTALITY IN NIGER

Emily Colby[1], Kieran S. O'Brien[1], Ahmed M. Arzika[2], Abdou Amza[3], Ramatou Maliki[2], Sani Ousmane[4], Boubacar Kadri[3], Beido Nassirou[3], Alio Karamba Mankara[4], Abdoul Naser Harouna[4], Elodie Lebas[1], Zijun Liu[1], Victoria Le[1], William Nguyen[1], Catherine Oldenburg[1], Travis C. Porco[1], Thuy Doan[1], Benjamin F. Arnold[1], Thomas M. Lietman[1]
[1]University of California San Francisco F.I. Proctor Foundation, San Francisco, CA, United States, [2]Centre de recherche et interventions en santé publique, Niamey, Niger, [3]Programme national de santé oculaire, Niamey, Niger, [4]Centre de Recherche Médicale et Sanitaire, Niamey, Niger

349

ACUTE FEBRILE ILLNESS IN EGYPT: ENHANCED SURVEILLANCE FOR ETIOLOGIES CAUSING THE SYNDROME

Rania Nada[1], Mahmoud El-Bendary[2], Mustafa Neamatallah[2], Ahmed El Shabrawi[2], Adel Mansour[1], Hanan El Mohammady[1], Isabelle Nakhla[1]
[1]U.S. Naval Medical Research Unit – No. 3, Cairo, Egypt, [2]Faculty of Medicine, Mansoura University, Mansoura, Egypt

Helminths – Nematodes – Filariasis (Cellular and Molecular Biology)

350

NON-INVASIVE DNA AMPLIFICATION AND SEX DETERMINATION OF CULTURED *BRUGIA MALAYI* LARVAE

Santiago Hernandez, Canhui Liu, Hassan Hassan, Michelle Michalski, Thomas R. Unnasch
University of South Florida, Tampa, FL, United States

(ACMCIP Abstract)

Helminths – Nematodes – Filariasis (Clinical)

351

DIAGNOSTIC CHALLENGES IN THE LYMPHATIC FILARIASIS POST-ELIMINATION ERA IN SRI LANKA: A CASE OF CONJUNCTIVITIS CAUSED BY *BRUGIA* SP. FEMALE ADULT

Lalindi Nirmitha De Silva[1], Sampath Ranaweera[2], Lalitha Senarath[3], Susiji Wickramasinghe[4], Channa Yahathugoda[1]
[1]Department of Parasitology, Faculty of Medicine, University of Ruhuna, Galle, Sri Lanka, [2]Base Hospital Tangalle, Tangalle, Sri Lanka, [3]Teaching Hospital Karapitiya, Galle, Sri Lanka, [4]Department of Parasitology, Faculty of Medicine, University of Peradeniya, Peradeniya, Sri Lanka

Helminths – Nematodes – Filariasis (Epidemiology

352

OPPORTUNISTIC MAPPING AND SURVEILLANCE FOR ONCHOCERCIASIS ELIMINATION PROGRAMS IN NIGERIA USING A MULTIPLEX BEAD ASSAY

Andrew Abbott[1], Uwem F. Ekpo[2], Michael A. Igbe[3], David I. Olatunji[4], Israel Nengi[4], Ndodo Nnaemeka[4], Chukwuma Anyaike[3], Nyior A. Iveren[3], Nse M. Akpan[3], Joel Akilah[3], Ryan E. Wiegand[1], Nishanth Parameswaran[1], Gretchen M. Cooley[1], Stacie Greby[5], Diana Martin[1], Paul T. Cantey[1]

[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Federal University of Agriculture, Abeokuta, Nigeria, [3]Federal Ministry of Health, Abuja, Nigeria, [4]Nigeria Centre for Disease Control, Abuja, Nigeria, [5]US Centers for Disease Control and Prevention, Abuja, Nigeria

353

POST-TREATMENT SURVEILLANCE FOR LYMPHATIC FILARIASIS IN HAITI: RESULTS FROM TRANSMISSION ASSESSMENT SURVEY (TAS-3) IN SAUT D'EAU AND LA TORTUE

Luccène Désir[1], Madsen Beau De Rochars[2], Brianna Poovey[1], Marc-Aurèle Telfort[3], Gregory S. Noland[1]

[1]The Carter Center, Atlanta, GA, United States, [2]University of Florida, Gainesville, FL, United States, [3]Ministère de la Santé Publique et de la Population, Port-au-Prince, Haiti

354

COVERAGE AND IMPACT OF A SINGLE DOSE OF IVERMECTIN, DEC AND ALBENDAZOLE FOR LYMPHATIC FILARIASIS: RESULTS FROM A COMMUNITY STUDY

Krishnamoorthy Kaliannagounder[1], Subramanian Swaminathan[1], Srividya Adinarayanan[1], Vijesh Sreedhar Kuttiat[1], Weil J. Gary[2], Jambulingam Purushothaman[1]

[1]Vector Control Research Centre (ICMR), Pondicherry, India, [2]Washington University, St. Louis, MO, United States

355

MONITORING THE IMPACT OF TWO ANNUAL ROUNDS OF MASS DRUG ADMINISTRATION USING A 3-DRUG REGIMEN ON LYMPHATIC FILARIASIS IN AMERICAN SAMOA

Tara A. Brant[1], Aifili Tufa[2], Fara Utu[2], Noelle Tavale[2], Lynette Suiaunoa-Scanlan[3], Ula Pele[3], June Vaifanua-Leo[2], Benjamin Sili[2], Keri Robinson[1], Emily A. Dodd[1], Ryan E. Wiegand[1], Janet Camacho[4], Emi Chutaro[4], Kimberly Y. Won[1], Motusa Tuileama Nua[2]

[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]American Samoa Department of Health, Pago Pago, American Samoa, [3]Pacific Island Health Officers' Association, Pago Pago, American Samoa, [4]Pacific Island Health Officers' Association, Honolulu, HI, United States

356

PROGRESS TOWARD ELIMINATION OF LYMPHATIC FILARIASIS IN CAMEROON FOLLOWING SUCCESSFUL TAS2 IN 41 HEALTH DISTRICTS OF THE EAST, FAR-NORTH, LITTORAL, SOUTH AND WEST REGIONS

Biholong Benjamin[1], Ebene Clarisse[1], Georges NKO'Ayissi[2], Julie Akame[3], **Patrick Mbia**[3], Carine Fokam[3], Ismael Teta[3], Michel Hendji Yoya[3], Benoit Dembele[4], Patricia Houck[5], Jennifer Magalong[6], Ernest Mensah[6], Yaobi Zhang[5], Steven D. Reid[5], Angela Weaver[5]

[1]Ministry of Public Health, PNLO, Yaounde, Cameroon, [2]Ministry of Public Health, NTD Coordination Unit, Yaounde, Cameroon, [3]Helen Keller International, Yaounde, Cameroon, [4]Helen Keller International, Regional Office for Africa, Dakar, Senegal, [5]Helen Keller International, New York, NY, United States, [6]Family Health International 360, Washington, DC, DC, United States

357

REPEAT PRE-TRANSMISSION ASSESSMENT SURVEY FOR LYMPHATIC FILARIASIS IN HOTSPOT DISTRICTS IN SIERRA LEONE

Ibrahim Kargbo-Labour[1], Mohamed S. Bah[2], Victoria Turay[2], Habib I. Kamara[2], Abdulai Conteh[1], Gandi Kallon[2], Alhassan Konneh[2], Abdulai Koroma[2], Unidiatu Kabia[2], Beah J. Lebby[2], Patricia Houck[3], Benoit Dembele[4], **Mustapha Sonnie**[2], Mary H. Hodges[2], Ernest Mensah[5], Achille Kabore[5], Yaobi Zhang[4], Angela Weaver[3]

[1]Neglected Tropical Disease Program, Ministry of Health and Sanitation, Freetown, Sierra Leone, [2]Helen Keller International, Freetown, Sierra Leone, [3]Helen Keller International, New York, NY, United States, [4]Helen Keller International, Regional Office for Africa, Dakar, Senegal, [5]Family Health International 360, Washington, DC, United States

358

ASSESSING ACCEPTABILITY OF MASS DRUG ADMINISTRATION FOR LYMPHATIC FILARIASIS AS PART OF ROUTINE MONITORING AND EVALUATION: FEASIBILITY AND OPERATIONAL IMPLICATIONS

Charles Thickstun[1], Krufinta Bun[2], Moses Laman[3], Benedict Mode[4], Makoto Sekihara[5], Daniel Dilliott[6], Afzaa Rajabali[6], William Pomat[3], Christopher L. King[2]

[1]University of Ottawa, Ottawa, ON, Canada, [2]Case Western Reserve University, Cleveland, OH, United States, [3]Papua New Guinea Institute of Medical Research, Goroka, Papua New Guinea, [4]Division of Health, East New Britain Provincial Administration, Kokopo, Papua New Guinea, [5]Japan International Cooperation Agency, Port Moresby, Papua New Guinea, [6]Bruyere Research Institute, Ottawa, ON, Canada

359

PROGRESS IN NATIONWIDE MAPPING OF ONCHOCERCIASIS ENDEMICITY IN ETHIOPIA USING SEROLOGICAL AND ENTOMOLOGICAL INDICATORS OF TRANSMISSION

Emily Griswold[1], Yewondwossen Bitew[2], Aderajew Mohammed[2], Fikre Seife[3], Firdaweke Bekele[2], Rory Post[4], Tom Unnasch[5], Moses Katabarwa[1], Frank Richards[1], Gregory Noland[1], Zerihun Tadesse[2]

[1]The Carter Center, Atlanta, GA, United States, [2]The Carter Center, Addis Ababa, Ethiopia, [3]Federal Ministry of Health, Addis Ababa, Ethiopia, [4]Liverpool John Moores University, Liverpool, United Kingdom, [5]University of South Florida, Tampa, FL, United States

HIV and Tropical Co-Infections

360

EPSTEIN BARR VIRUS CENTRAL NERVOUS SYSTEM INFECTION IN PATIENTS PRESENTING WITH SUSPECTED MENINGITIS IN BOTSWANA

Jayne Ellis[1], Margaret Mokomane[2], Madisa Mine[3], Charles Muthoga[4], Kwana Lechiile[4], Chris Williams[4], Tshepo Leeme[5], Mark Tenforde[4], Richard Hayes[1], Joseph Jarvis[1]

[1]London School Hygiene and Tropical Medicine, London, United Kingdom, [2]University of Botswana, Gabarone, Botswana, [3]Princess Marina Hospital, Gabarone, Botswana, [4]Botswana-Harvard AIDS Institute Partnership, Gabarone, Botswana, [5]Monash University, Melbourne, Australia

361

EPSTEIN-BARR VIRUS AND CYTOMEGALOVIRUS CENTRAL NERVOUS SYSTEM CO-INFECTIONS AND MORTALITY RISK IN PATIENTS WITH HIV-ASSOCIATED CRYPTOCOCCAL MENINGITIS

Jayne Ellis[1], Margaret Mokomane[2], Madisa Mine[3], Charles Muthoga[4], Kwana Lechiile[4], James Hepburn[1], Chris Williams[4], Tom Harrison[5], Tshepo Leeme[6], Mark Tenforde[4], Richard Hayes[1], Joseph Jarvis[1]

[1]London School Hygiene and Tropical Medicine, London, United Kingdom, [2]University of Botswana, Botswana, Botswana, [3]Princess Marina Hospital, Gabarone, Botswana, [4]Botswana-Harvard AIDS Institute Partnership, Gabarone, Botswana, [5]University of Exeter, Exeter, United Kingdom, [6]Monash University, Melbourne, Australia

362

LIBERIA ADHERENCE AND LOSS-TO-FOLLOW-UP IN HIV/AIDS STUDY: A RETROSPECTIVE COHORT OF ADOLESCENTS AND ADULTS (ALIAS) LIBERIA ADHERENCE AND LOSS-TO-FOLLOW-UP IN HIV/AIDS STUDY: A RETROSPECTIVE COHORT OF ADOLESCENTS AND ADULTS (ALIAS) LIBERIA ADHERENCE AND LOSS-TO-FOLLOW-UP IN HIV/AIDS STUDY: A RETROSPECTIVE COHORT OF ADOLESCENTS AND ADULTS (ALIAS)

Keith L. Gray[1], Jethro S. Zawolo[2], Murphy V. Kiazolu[1], Janjay M. Jones[1], Anna Konstantinova[3], Wahdae-mai Harmon-Gray[1]
[1]Ministry of Health, Monrovia, Liberia, [2]STAIP/Jhpiego, Monrovia, Liberia, [3]Evidence Action, Washington, DC, United States

363

PREGNANT WOMEN KNOWLEDGE ABOUT THE INTERVENTIONS RECEIVED AT THE ANTENATAL CLINIC IN RURAL AFRICA

Tacilta H. Nhampossa
Centro de Investigação em Saúde da Manhiça and Instituto Nacional de Saúde, Maputo, Mozambique

364

PREVALENCE OF CERVICAL DYSPLASIA BY VISUAL INSPECTION ACETIC ACID (VIA) IS INCREASED IN WOMEN WITH FEMALE GENITAL SCHISTOSOMIASIS; A CROSS-SECTIONAL STUDY IN ZAMBIA

Hannah Rafferty[1], Amy Sturt[1], Comfort Rutty Phiri[2], Emily Webb[1], Maina Mudenda[3], Joyce Mapani[3], Namakau Chola[2], Paul Corstjens[4], Govert Van Damm[5], Lisette Van Lieshout[5], Richard Hayes[1], Helen Ayles[1], Hansingo Isaiah[3], Amaya L. Bustinduy[1]
[1]London School of Hygiene &Tropical Medicine, London, United Kingdom, [2]Zambart, Lusaka, Zambia, [3]Livingstone Central Hospital, Livingstone, Zambia, [4]Leiden Medical Center, London, Netherlands, [5]Leiden Medical Center, Leiden, Netherlands

365

THE COST-EFFECTIVENESS OF A FAMILY-BASED ECONOMIC EMPOWERMENT INTERVENTION (SUUBI+ADHERENCE) IN IMPROVING ADHERENCE TO ANTIRETROVIRAL TREATMENT AND OUTCOMES IN ADOLESCENTS LIVING WITH HIV IN SOUTHERN UGANDA

Sooyoung Kim[1], Ariadna Capasso[1], Sicong Sun[2], Torsten B. Neilands[3], Christopher Damulira[4], Flavia Namuwonge[4], Gertrude Nakigozi[5], Ozge Sensoy Bahar[2], Proscovia Nabunya[2], Claude A. Mellins[6], Mary M. McKay[2], Fred M. Ssewamala[2], Yesim Tozan[1]
[1]New York University School of Global Public Health, New York, NY, United States, [2]Brown School, Washington University in Saint Louis, Saint Louis, WA, United States, [3]Center for AIDS Prevention Studies, School of Medicine, University of California, San Francisco, CA, United States, [4]International Center for Child Health and Development, Washington University in St. Louis, Uganda Field Office, Masaka, Uganda, [5]Rakai Health Sciences Program, Kalisizo, Uganda, [6]7 HIV Center for Clinical and Behavioral Studies, Department of Psychiatry, New York State Psychiatric Institute and Columbia University, New York, NY, United States

366

HIGH MORTALITY IN ADULT PATIENTS WITH HIV ADMITTED WITH FEVER TO HOSPITALS IN MALAWI, MOZAMBIQUE AND ZIMBABWE - RESULTS FROM THE FIEBRE STUDY

Ioana D Olaru[1], Marta Valente[2], Sara Ajanovic[2], Justina M Bramugy[3], Sham Lal[1], Mabvuto Chimenya[4], Edward W Green[5], Nicholas A Feasey[5], David Mabey[1], Quique Bassat[6], Katharina Kranzer[1], Heidi Hopkins[1]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]ISGlobal, Hospital Clínic - Universitat de Barcelona, Barcelona, Spain, Barcelona, Spain, [3]Centro de Investigação em Saúde de Manhiça (CISM), Maputo, Mozambique, [4]Malawi-Liverpool-Wellcome Trust Clinical Research Programme, Blantyre, Malawi, [5]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [6]ISGlobal, Hospital Clínic - Universitat de Barcelona, Barcelona, Spain, Madrid, Spain

367

CHANGES IN THYROID STATUS OF PEOPLE LIVING WITH HIV AFTER HAART ATTENDING ANTI-RETRO VIRAL THERAPY CENTER OF A TERTIARY CARE HOSPITAL OF BANGLADESH

Shrebash Paul, Fazle Rabbi Chowdhury, Md. Rafiqul Alam
Bangabandhu Sheikh Mujib Medical University, Dhaka, Bangladesh

368

ACCEPTABILITY AND PENETRATION OF A SUPERVISED AND PEER-LED HIV SELF-TESTING (HIVST) INTERVENTION AMONG UNIVERSITY STUDENTS IN EASTERN ZIMBABWE

Fadzai Naomi Mutseyekwa, **Paddington Tinashe Mundagowa**, Mandla Tirivavi, Tsitsi Murapa, Elizabeth Marian Chadambuka, Samantha Tozivepi, Waraidzo Mukuwapasi, Mazvita Machinga
Africa University, Mutare, Zimbabwe

369

INNATE-LIKE T CELL RESPONSES IN HIV EXPOSED UNINFECTED (HEU) MALAWIAN INFANTS

David Thomas Rach[1], Hao-Ting Hsu[2], Nginache Nampota[3], Godfrey Mvula[3], Franklin R. Toapanta[4], Marcelo B. Sztein[4], Miriam Laufer[4], Kirsten E. Lyke[4], Cristiana Cairo[2]
[1]Molecular Microbiology and Immunology Graduate Program, University of Maryland School of Medicine, Baltimore, MD, United States, [2]Institute for Human Virology, University of Maryland School of Medicine, Baltimore, MD, United States, [3]Blantyre Malaria Project, University of Malawi College of Medicine, Blantyre, Malawi, [4]Center for Vaccine Development and Global Health, University of Maryland School of Medicine, Baltimore, MD, United States

370

PREVALENCE, INCIDENCE AND PREDICTORS OF CHRONIC KIDNEY DISEASE IN PERSONS WITH HUMAN IMMUNODEFICIENCY VIRUS RECEIVING PROTEASE-INHIBITORS IN RURAL TANZANIA

Herry Mapesi[1], James Okuma[2], Fabian Franzeck[3], Herieth Ismael Wilson[1], Elizabeth Senkoro[1], Theonestina Byakuzana[1], Robert Ndege[1], Fiona Vanobberghen[2], Tracy Renée Glass[2], Manuel Battegay[3], Maja Weisser[3], Daniel Henry Paris[2]
[1]Ifakara Health Institute, Morogoro, United Republic of Tanzania, [2]Swiss Tropical and Public Health Institute, Basel, Switzerland, [3]Division of Infectious Diseases and Hospital Epidemiology, University Hospital Basel, Basel, Switzerland

371

A SYSTEMATIC REVIEW OF THE EPIDEMIOLOGY AND CLINICAL FEATURES OF HIV AND *TRYPANOSOMA CRUZI* (CHAGAS DISEASE) CO-INFECTION

Natalie Elkheir[1], Jessica Carter[2], Catherine Dominic[3], Pat Lok[4], Temitope Fisayo[5], Melina Michelen[6], Jaimie Wilson-Goldsmith[7], Michael Butler[8], Anushka Mehotra[9], Barbara de Barros[1], Amy Price[10], Nadia Ahmed[11], Peter Chiodini[12], David Moore[1]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]St George's University, London, United Kingdom, [3]Barts and the London School of Medicine, London, United Kingdom, [4]Anglia Ruskin Medical School, Cambridge, United Kingdom, [5]King's College London, London, United Kingdom, [6]International Severe Acute Respiratory and Emerging Infection Consortium, Oxford, United Kingdom, [7]Guy's and St Thomas' NHS Trust, London, United Kingdom, [8]Imperial College Healthcare NHS Trust, London, United Kingdom, [9]One Health Lewisham (GP Federation), London, United Kingdom, [10]London North West University Healthcare NHS Trust, London, United Kingdom, [11]Central and North West London NHS Foundation Trust, London, United Kingdom, [12]Hospital for Tropical Diseases, London, United Kingdom

372

EPIDEMIOLOGY OF TB/HIV CO-INFECTION IN THE GAMBIA, MARCH 2019 - FEBRUARY 2020

Madiba Jabbi
Farafenni General Hospital, Banjul, Gambia

373

CO-INFECTION OF DISSEMINATED HISTOPLASMOSIS AND MYCOBACTERIUM TUBERCULOSIS IN A PATIENT WITH AIDS: A CASE REPORT

Stefania Carmona[1], Rigoberto Samaniego[2], German Henostroza[1]
[1]University of Alabama at Birmingham Medical Center, Birmingham, AL, United States, [2]Hospital Santo Tomas, Panama City, Panama

Kinetoplastida – Cellular and Molecular Biology (Including Leishmania and Trypanosomes)

374

RECONSTITUTION OF CATALYTIC ACTIVITIES OF TWO ESSENTIAL LEISHMANIAL CYTOCHROME P450 ENZYMES REVEALS NOVEL AND DISTINCT BIOCHEMICAL ROLES IN THE ERGOSTEROL BIOSYNTHESIS

Yiru Jin, Mei Feng, Lijun Liu, Michael Z. Wang
University of Kansas, Lawrence, KS, United States

375

ANALYSIS OF RELEASED PEPTIDASES AND THEIR ROLE IN THE TRANSMISSION BIOLOGY OF AFRICAN TRYPANOSOMES

Mabel Deladem Tettey, Federico Rojas, Keith R. Matthews
School of Biological Sciences, Ashworth Laboratories, The University of Edinburgh, Edinburgh, United Kingdom

(ACMCIP Abstract)

376

HOMOLOGIES IDENTIFIED BETWEEN TRYPANOSOMA CRUZI ANTIGEN 36 AND THE TRIM FAMILY OF PROTEIN GENES

Martin A. Winkler[1], Alfred A. Pan[2]
[1]Biotech Advisor, LAWRENCE, KS, United States, [2]TNTC, Inc., Pleasant Hill, CA, United States

377

ENZYMATIC AND MOLECULAR CHARACTERIZATION OF ANTI-*LEISHMANIA* MOLECULES THAT TARGET THE *LEISHMANIA* EUKARYOTIC TRANSLATION INITIATION FACTOR 4A, LEIF

Yosser Zina Abdelkrim[1], Imen Bassoumi[1], Emna Harigua-Souiai[1], Josette Banroques[2], Khadija Essafi-Benkhadir[1], Mourad Barhoumi[1], N. Kyle Tanner[2], Ikram Guizani[1]
[1]Institut Pasteur de Tunis, Tunis, Tunisia, [2]Institut de Biologie Physico-Chimique, Paris, France

(ACMCIP Abstract)

378

DEEP SEQUENCING OF THE MINI-EXON GENE IMPROVES GENOTYPING OF MULTICLONAL *TRYPANOSOMA CRUZI* INFECTIONS ASSOCIATED WITH CONGENITAL CHAGAS DISEASE

Julie Thompson[1], Carine Truyens[2], Eric Dumonteil[1], Claudia Herrera[1]
[1]Tulane University School of Public Health & Tropical Medicine, New Orleans, LA, United States, [2]Université Libre de Bruxelles, Brussels, Belgium

(ACMCIP Abstract)

Kinetoplastida – Diagnosis and Treatment (Including Leishmania and Trypanosomes):

379

DEVELOPMENT OF QUANTITATIVE RAPID ISOTHERMAL AMPLIFICATION ASSAY FOR ABSOLUTE QUANTIFICATION OF *LEISHMANIA DONOVANI*

Md Anik Ashfaq Khan[1], Khaledul Faisal[1], Rajashree Chowdhury[1], Prakash Ghosh[1], Manfred Weidmann[2], Ahmed Abd El Wahed[3], Dinesh Mondal[1]
[1]International Center for Diarrheal Disease Research, Bangladesh, Dhaka, Bangladesh, [2]Brandenburg Medical School Fontane, Senftenberg, Germany, [3]University of Leipzig, Leipzig, Germany

380

MILTEFOSINE FAILURE AND SPONTANEOUS RESOLUTION OF CUTANEOUS *LEISHMANIASIS BRAZILIENSIS*

Sheridan M. Joseph[1], Timothy J. Whitman[2], Frederick Buckner[3], Anna L. Cogen[4]
[1]University of Washington School of Medicine, Seattle, WA, United States, [2]University of Vermont Larner College of Medicine, Burlington, VT, United States, [3]Division of Infectious Diseases, Department of Medicine, University of Washington, Seattle, WA, United States, [4]Division of Dermatology, Department of Medicine, University of Washington, Seattle, WA, United States

381

EVALUATION OF CHAGAS DISEASE TESTING AND MANAGEMENT PRACTICES IN A TEXAS SAFETY-NET HEALTHCARE SYSTEM

Jose I. Echeverri Alegre[1], Jesica Hayon[2], Roumen Iordanov[2], Caryn Bern[3], Jeffrey D. Whitman[4], Eva Clark[2]
[1]Department of Medicine, Baylor College of Medicine, Houston, TX, United States, [2]Department of Medicine, Section of Infectious Diseases, Baylor College of Medicine, Houston, TX, United States, [3]Department of Epidemiology and Biostatistics, University of California, San Francisco, San Francisco, CA, United States, [4]Department of Laboratory Medicine, University of California, San Francisco,, San Francisco, CA, United States

382

UTILITY OF SKIN BIOPSIES IN DIAGNOSIS AND PROGNOSIS OF CUTANEOUS LEISHMANIASIS

Hasna Riyal[1], Nilakshi Samaranayake[1], Priyani Amarathunga[2], Deepani Munidasa[3], Nadira Karunaweera[1]
[1]Department of Parasitology, Faculty of Medicine, University of Colombo, Colombo 08, Sri Lanka, [2]Department of Pathology, Faculty of Medicine, University of Colombo, Colombo 08, Sri Lanka, [3]Teaching Hospital, Anuradhapura, Sri Lanka

(ACMCIP Abstract)

383

INCREASED LEVELS OF CHEMOKINES AND CYTOKINES MEDIATORS OF EOSINOPHIL AND T CELL RECRUITMENT IN SUBJECTS WITH CHRONIC CHAGAS DISEASE WITH HYPERSENSITIVITY REACTIONS TO BENZNIDAZOLE

María Ailén Natale[1], Melisa Daiana Castro Eiro[1], Débora Seigelfischer[2], María Belén Caputo[1], Marisa Fernández[1], María Josefina Elias[1], Rodolfo Viotti[2], Bruno Lococo[2], María Cecilia Albareda[1], Eduardo Gaddi[3], Jeanette Balbaryski[3], Gonzalo Cesar[1], María Gabriela Álvarez[2], Susana Adriana Laucella[1]
[1]Instituto Nacional de Parasitología Dr. Mario Fatala Chaben, Buenos Aires, Argentina, [2]Hospital Interzonal General de Agudos Eva Peron, San Martin, Argentina, [3]Hospital General de Niños Pedro de Elizalde, Buenos Aires, Argentina

(ACMCIP Abstract)

Pneumonia, Respiratory Infections and Tuberculosis

384

PROFILE OF COVID-19 POSITIVE PATIENTS ADMITTED FROM MARCH TO JUNE 2020 AT THE SINO-CONGOLESE FRIENDSHIP HOSPITAL IN N'DJILI FROM KINSHASA, DEMOCRATIC REPUBLIC OF THE CONGO

Mwana-Yile Hassan[1], Giscard Kampanga[1], Henriquet Mathe[1], Erick Kamangu[2], Kahunu Mesia[3], Hippolyte Situakibanza[4]
[1]Sino-Congolese Friendship Hospital of N'djili, Kinshasa, Democratic Republic of the Congo, [2]Molecular Biology Department, Department of Basic Science, Faculty of Medicine, University of Kinshasa, Kinshasa, Democratic Republic of the Congo, [3]Department of Pharmacology and Therapeutics,Unit of Clinical Pharmacology and Pharmacovigilance, Faculties of Medicine and Pharmaceutical Sciences, University of Kinshasa, Kinshasa, Democratic Republic of the Congo, [4]Infectious and Parasitic Diseases, Departments of Internal Medicine and Tropical Medicine, Faculty of Medicine, Kinshasa, Democratic Republic of the Congo

385

IN VITRO ACTIVITY OF MYCOBACTERIOPHAGES AGAINST *MYCOBACTERIUM TUBERCULOSIS* BIOFILMS

Deus Kamya, Willy Ssengooba, Beatrice Achan, Jesca L. Nakavuma
Makerere University, Kampala, Uganda

386

EPIDEMIOLOGICAL ANALYSIS OF TUBERCULOSIS IN ADULTS IN OTTAWA, CANADA FROM 2009-2018

Scott G. Pharand, Shirley Sarfo-Mensah, Phoebe A. Ampaw, Anne E. McCarthy
Ottawa Hospital Research Institute, Ottawa, ON, Canada

387

COMPLETE GENOME SEQUENCE OF *BORDETELLA PERTUSSIS* STRAINS IN THE AMHARA REGIONAL STATE, ETHIOPIA

Solomon Taye
University of Gondar, Gondar, Ethiopia

388

SETTING UP A TUBERCULOSIS RESEARCH DATABASE IN ZIMBABWE THROUGH THE NATIONAL TUBERCULOSIS PROGRAM

Nokuthula Samantha Tozivepi[1], Collins Timire[2], Wietske Mushonga[3], Charles Sandy[2], Kudakwashe Collin Takarinda[2], Elton Mugomeri[3], Fadzai Naomi Mukora-Mutseyekwa[1]
[1]Africa University Clinical Research Centre, Mutare, Zimbabwe, [2]Ministry of Health and Child Care, National AIDS & TB Program, Harare, Zimbabwe, [3]Africa University Department of Health Sciences, Mutare, Zimbabwe

389

EFFECT OF INDOOR AIR QUALITY ON NEONATAL DEATH DUE TO PNEUMONIA: FINDINGS FROM BANGLADESH DEMOGRAPHIC AND HEALTH SURVEY DATA

Jaynal Abedin[1], Tania Jahir[2]
[1]Centre for Data Research and Analytics, Dhaka, Bangladesh, [2]icddr,b, Dhaka, Bangladesh

390

FACTORS ASSOCIATED WITH COMMUNITY ACQUIRED SEVERE PNEUMONIA AMONG UNDER FIVE CHILDREN IN DHAKA, BANGLADESH- A CASE CONTROL STUDY

Sabiha Nasrin[1], Marufa Sultana[2], Md. Tariqujjaman[1], Mohammod J. Chisti[1], Abu S. Faruque[1], Tahmeed Ahmed[1], George J. Fuchs[3], Niklaus Gyr[4]
[1]International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, [2]Deakin University, Australia, Australia, [3]University of Kentucky, Lexington, KY, United States, [4]University of Basel, Basel, Switzerland

391

WHICH IS BETTER TREATMENT OPTION IN SEVERE PNEUMONIA: INTRAVENOUS AMPICILLIN OR AMOXICILLIN? AN OPEN-LABEL, RANDOMIZED, CONTROLLED TRIAL IN BANGLADESH

Lubaba Shahrin
International Centre for Diarrheal Disease Research Bangladesh, Dhaka, Bangladesh

392

ASPIRATION PNEUMONIA REVIEW: CASE REPORTS FROM KENYA CHILD HEALTH AND MORTALITY PREVENTION SURVEILLANCE NETWORK (CHAMPS) PROGRAM

Victor Akelo[1], Dianna M. Blau[2], Joyce Were[3], Aggrey Igunza[3], Dickson Gethi[3], Cynthia G. Whitney[4], Janet Agaya[3], Richard Omore[3], Magdalene Kuria[5], Emily Rogena[6], Beth A. Tippett Barr[1], Dickens Onyango[5]
[1]U.S. Centers for Disease Control and Prevention-Kenya, Kisumu and Nairobi, Kenya, [2]U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]Kenya Medical Research Institute (KEMRI), Kisumu, Kenya, [4]Emory Global Health Institute, Emory University, Atlanta, GA, United States, [5]Kisumu County Health Department, Kisumu, Kenya, [6]Jomo Kenyatta University of Agriculture and Technology, Nairobi, Kenya

393

GENOMIC SURVEILLANCE OF SARS-COV-2 IN A PACIFIC MILITARY POPULATION

Rachael L. Downham, Timothy Horseman, Zakariae Bram, Lindsey O'Neal, Catherine Uyehara, Viseth Ngauy, Alexander Kayatani, Jonathan D'Ambrozio
Tripler Army Medical Center, Honolulu, HI, United States

Schistosomiasis and Other Trematodes – Diagnostics and Treatment

394

COMPARATIVE DIAGNOSTIC POTENTIAL OF SCHISTOSOMA MANSONI-DERIVED ANTIGENS FOR CHRONIC INTESTINAL SCHISTOSOMIASIS IN LOW ENDEMIC AREAS

Oyetunde T. Oyeyemi[1], Camila Corsini[2], Rafaella F.Q. Grenfell[2]
[1]University of Medical Sciences, Ondo, Nigeria, [2]Rene Rachou Institute, Oswaldo Cruz Foundation (Fiocruz), Belo Horizonte, Brazil

(ACMCIP Abstract)

395

NEW AVENUES FOR THE VISUAL DIAGNOSIS OF FEMALE GENITAL SCHISTOSOMIASIS

Solrun Soefteland[1], Motshedisi H. Sebitloane[2], Myra Taylor[3], Borghild B. Roald[4], Sigve Holmen[1], Hashini N. Galappaththi-Arachchige[1], Svein G. Gundersen[5], Eyrun F. Kjetland[3]
[1]Norwegian Center for Imported and Tropical Diseases, Department of Infectious Diseases Ullevaal, Oslo University Hospital, Oslo, Norway, [2]Discipline of Obstetrics and Gynecology, Nelson R Mandela School of Medicine, College of Health Sciences, University of KwaZulu-Natal, Durban, South Africa, [3]Discipline of Public Health Medicine, Nelson R Mandela School of Medicine, College of Health Sciences, University of KwaZulu-Natal, Durban, South Africa, [4]Center for Pediatric and Pregnancy Related Pathology, Department of Pathology, Oslo University Hospital, Oslo, Norway, [5]Institute for Global Development and Planning, University of Agder, Kristiansand, Norway

396

THE PRAZIQUANTEL IN PRESCHOOLERS (PIP) TRIAL: STUDY PROTOCOL FOR A PHASE II PK/PD DRIVEN RANDOMIZED CONTROLLED TRIAL OF PRAZIQUANTEL IN CHILDREN UNDER FOUR YEARS OF AGE

Emily Webb[1], Andrew Edielu[1], Wu Hannah[2], Narcis Kabatereine[3], Tukahebwa Edridah[3], Alfred Mubangizi[3], Moses Adriko[3], Alison Elliott[1], William Hope[4], Patrice Mawa[5], Jennifer Friedman[2], Amaya L. Bustinduy[1]
[1]London School of Hygiene &Tropical Medicine, London, United Kingdom, [2]Center for International Health Research, Lifespan Hospital, Providence, RI, United States, [3]Vector Control Division, Ministry of Health, Kampala, Uganda, [4]University of Liverpool, Liverpool, United Kingdom, [5]MRC unit, London, United Kingdom

397

MULTIPLE ANTIGEN BLOT ASSAY (MABA) AS AN ANTIBODY SCREENING TECHNIQUE FOR SCHISTOSOMIASIS MANSONI IN RESOURCE-LIMITED SETTINGS

Jorge Cardenas[1], Sandra Losada[2], Maria Elisa Campos[3], Gabriel Motoa[1], Cecilia Colmenares[2], Belkisyolé Alarcón de Noya[2], Oscar Noya[2]
[1]University of Miami Miller School of Medicine, Miami, FL, United States, [2]Institute of Tropical Medicine, Caracas, Bolivarian Republic of Venezuela, [3]Luis Razetti School of Medicine, Caracas, Bolivarian Republic of Venezuela

398

DEVELOPMENT OF A REAL-TIME PCR ASSAY FOR DETECTION OF SCHISTOSOMA JAPONICUM IN HUMAN STOOL

Sara Halili, Jessica R. Grant, Nils Pilotte, Steven A. Williams
Smith College, Northampton, MA, United States

399

STUDIES RELATED TO FIBROSIN, A CYTOKINE

Sadhana Prakash, **Sadhana Prakash**
Massachusetts Institute of Technology, Cambridge, MA, United States

Schistosomiasis and Other Trematodes – Immunology, Pathology, Cellular and Molecular Biology

400

THERAPEUTIC ACTIVITY OF A *SALMONELLA*-VECTORED *SCHISTOSOMA MANSONI* VACCINE IN A MOUSE MODEL OF CHRONIC INFECTION

Adam S. Hassan, Dilhan J. Perera, Brian J. Ward, Momar Ndao
Research Institute of the McGill University Health Centre, Montreal, QC, Canada

(ACMCIP Abstract)

401

MORPHOLOGICAL AND GENOMIC CHARACTERIZATION OF *PARAGONIMUS* FROM CAMEROON INDICATE A DISTINCT CLADE OF LUNG FLUKES

Lucia S. Di Maggio[1], Young-Jun Choi[1], Iya Sasse Ruth Nyaba[2], John Martin[1], Kerstin Fischer[1], Samuel Wanji[2], Makedonka Mitreva[1], Peter U. Fischer[1]
[1]Washington University in Saint Louis, Saint Louis, MO, United States, [2]University of Buea, Buea, Cameroon

402

SCHISTOSOMA MANSONI - NO LOWER GENITAL TRACT LESIONS. A STUDY IN CONSECUTIVE CASES WITHOUT *S. HAEMATOBIUM*

Huldah Sang[1], Pauline N. Mwinzi[1], Maurice R. Odiere[1], Isaac Onkanga[1], Fredrick Rawago[1], Pavitra Pillay[2], Eyrun F. Kjetland[3]
[1]Kenya Medical Research Institute, Kisumu, Kenya, [2]Durban University of Technology, Durban, South Africa, [3]University of KwaZulu-Natal, Durban, South Africa

403

HEPATIC FIBROSIS BIOMARKING BY PLASMA CYTOKINE PROFILING DURING HUMAN SCHISTOSOMIASIS

Donald Severin Kamdem[1], Erve Martial Kuemkon[2], Francis Konhawa[2], Leonel Meyo Kamguia[3], Gladys K. Tchanana[2], Frungwa Nche[4], Alim Oumarou[4], Rene Ghislain Essomba[2], Frank Brombacher[5], Justin Komguep Nono[3]
[1]University of Utah, Salt Lake City, UT, United States, [2]School of Health Sciences, Catholic University of Central Africa, Yaoundé, Cameroon, [3]Laboratory of Immunobiology of Helminth Infection, Ministry of Scientific Research and Innovation, Yaoundé, Cameroon, [4]Ministry of Public Health, Yaoundé, Cameroon, [5]International Centre for Genetic engineering and Biotechnology, University of Cape Town, Cape Town, South Africa

404

IDENTIFICATION OF NOVEL MODULATORS OF A SCHISTOSOME TRANSIENT RECEPTOR POTENTIAL ION CHANNEL ACTIVATED BY PRAZIQUANTEL

Evgeny G. Chulkov, **Jonathan S. Marchant**
Medical College of Wisconsin, Milwaukee, WI, United States

(ACMCIP Abstract)

TropStop - Career Chats I

WORRIED ABOUT CLIMATE CHANGE WITH YOUR RESEARCH? WE ARE TOO

Career Chats Room
Thursday, November 18
11 a.m. – Noon U.S. Eastern Time Zone

Limited to attendees pre-registered for this session.

Attend the Career Chats sessions to meet professionals in the tropical medicine field who will share their career stories and strategies to help you along your professional path, as well as discuss topical subjects in the field of global health.

Global climate change impacts all of our lives and much of our work, and the careers of young scientists and trainees will be most directly impacted by its effects. What are some of the operational and conceptual factors that early career researchers and practitioners should consider in order to do environmentally sustainable work? What role do funding agencies and other stakeholders play? This session will investigate accountability and responsibility in practicing sustainable research, and the extent to which the priority of sustainability may differ between stakeholders.

CHAIR

Hanna Ehrlich
Yale University, New Haven, CT, United States

Bronwyn MacInnis
Broad Institute, Cambridge, MA, United States

SPEAKERS

Jason R. Rohr
University of Notre Dame, Notre Dame, IN, United States

Leena Srivastava
The Energy and Resources Institute, School of Advanced Studies, New Delhi

Alison Leaf
University of Bristol, Bristol, United Kingdom

Irene Torres
Fundacion Octaedro, Quito Ecuador

Late-Breaker Abstract Session 15

Late-Breakers in Malaria

Meeting Room 9
Thursday, November 18
11 a.m. - 12:15 p.m. U.S. Eastern Time Zone

This session is specifically designed for brief presentations of new data obtained after the closing date for abstract submission. See the Meeting App or Late-Breaker Abstract Presentation Schedule booklet (available online) for the presentation schedule.

CHAIR

Carol H. Sibley
University of Washington, Seattle, WA, United States

Urszyla Krzych
WRAIR, Silver Spring, MD, United States

Plenary Session 16

PLENARY SESSION III: CDC: A DISEASE THREAT ANYWHERE IS A DISEASE THREAT EVERYWHERE

Grand Ballroom
Thursday, November 18
Noon - 12:30 p.m. U.S. Eastern Time Zone

CHAIR

Julie Jacobson
Bridges to Development, Seattle, WA, United States

CDC: A DISEASE THREAT ANYWHERE IS A DISEASE THREAT EVERYWHERE

Rochelle P. Walensky, MD, MPH
Director
Centers for Disease Control and Prevention
Atlanta, GA, United States

Rochelle P. Walensky, MD, MPH, is the 19th Director of the Centers for Disease Control and Prevention and the ninth Administrator of the Agency for Toxic Substances and Disease Registry. She is an influential scholar whose pioneering research has helped advance the national and global response to HIV/AIDS. Dr. Walensky is also a well-respected expert on the value of testing and treatment of deadly viruses. She served as Chief of the Division of Infectious Diseases at Massachusetts General Hospital from 2017-2020 and Professor of Medicine at Harvard Medical School from 2012-2020. She served on the frontline of the COVID-19 pandemic and conducted research on vaccine delivery and strategies to reach underserved communities.

Dr. Walensky is recognized internationally for her work to improve HIV screening and care in South Africa and nationally recognized for motivating health policy and informing clinical trial design and evaluation in a variety of settings. She is a past Chair of the Office of AIDS Research Advisory Council at the National Institutes of Health, Chair-elect of the HIV Medical Association, and previously served as an advisor to both the World Health Organization and the Joint United Nations Programme on HIV/AIDS. Originally from Maryland, Dr. Walensky received her Bachelor of Arts from Washington University in St. Louis, her Doctor of Medicine from the Johns Hopkins School of Medicine, and her Master's in Public Health from the Harvard School of Public Health.

Break

Thursday, November 18
12:30 p.m. – 12:45 p.m. U.S. Eastern Time Zone

Symposium 17

Compassion in Global Health and Tropical Medicine: Evidence, Challenges and Emerging Trends

Meeting Room 1
Thursday, November 18
12:45 p.m. - 2:30 p.m. U.S. Eastern Time Zone

Compassion is a core value in global health and a strong source of motivation and sustenance for many global health practitioners. Yet it is rarely discussed, studied, or intentionally nurtured in global health programs. A symposium on compassion at the 2011 ASTMH meeting confirmed the central role of compassion in global health and tropical medicine. In the decade since that symposium, 1) neuroscience research has enhanced our understanding about the neural pathways associated with compassion, and distinguished them from those associated with empathy; 2) randomized clinical trials have documented the effectiveness of compassion training; 3) the World Health Organization (WHO) has highlighted the crucial role of compassion for quality health services and universal health coverage; 4) national health systems (e.g., Ethiopia) have established compassion as a central pillar of health sector transformation; 5) the benefits of compassion in clinical medicine have been more thoroughly documented for patients, healthcare providers, and health systems (summarized in the book Compassionomics, by Trzeciak and Mazzarelli); 6) the COVID-19 pandemic has underscored the universal human need for compassion - as well as the consequences of its absence; 7) healthcare workers and public health officials have experienced unprecedented levels of moral distress and burnout associated with the pandemic; and 8) voices for 'decolonizing' global health have intensified. This symposium will provide an overview of these developments, highlighting their relevance for global health. It will feature presentations from four panelists on: 1) the neuroscientific advances and insights related to compassion; 2) a WHO perspective on the essential role of compassion in ensuring quality health services; 3) the growing movement for compassionate humanitarian and global health organizations, catalyzed by CHS Alliance; and 4) an analysis and critique of the role of compassion in global health reform and 'decolonization.' Harnessing the power of compassion, grounded in solidarity and respect, can facilitate the maturing and flourishing of global health.

CHAIR
David G. Addiss
Focus Area for Compassion and Ethics (FACE), Task Force for Global Health, Decatur, GA, United States

12:45 p.m.
INTRODUCTION

12:55 p.m.
NEUROSCIENCE AND COMPASSION: INSIGHTS FROM RECENT RESEARCH
Jennifer Mascaro
Emory University, Atlanta, GA, United States

1:15 p.m.
COMPASSION AND QUALITY HEALTH SERVICES
Shamsuzzoha B. Syed
World Health Organization, Geneva, Switzerland

1:35 p.m.
CULTIVATING CARING, COMPASSIONATE AID ORGANIZATIONS
Melissa Pitotti
CHS Alliance, Geneva, Switzerland

1:55 p.m.
COMPASSION, JUSTICE, AND GLOBAL HEALTH REFORM
Desmond T. Jumbam
Operation Smile, Accra, Ghana

Symposium 18

Clinical Group Symposium I (American Committee on Clinical Tropical Medicine and Travelers' Health - ACCTMTH): Marcolongo Lecture: Clinical Challenges in Leprosy: Past, Present and Future and Panel Discussion of Leprosy Elimination Strategies

Meeting Room 2
Thursday, November 18
12:45 p.m. - 2:30 p.m. U.S. Eastern Time Zone

Supported with funding from the International Association for Medical Assistance to Travellers (IAMAT)

This session features the Vincenzo Marcolongo Lecture, "Clinical Challenges in Leprosy: Past, Present and Future," followed by an expert panel discussion on current strategies in Leprosy elimination. The highlight of this session is the Marcolongo Lecture, which honors Dr. Vincenzo Marcolongo (1922–1988), a graduate of the medical school at the University of Rome and founder of IAMAT - the International Association for Medical Assistance to Travelers. Dr. Marcolongo did his postgraduate training at McGill University in Montreal and returned to Italy to obtain his doctorate in tropical medicine. His lifelong work was devoted to the medical needs of travelers. He founded IAMAT in 1960. IAMAT is a non-profit organization that focuses on and coordinates medical services for travelers. Through IAMAT and numerous publications, Dr. Marcolongo worked tirelessly to inform travelers of health risks and raise awareness of travelers' health. His foresight, compassion and generosity continue to serve as inspiration for IAMAT's work. To quote Dr. Vincenzo Marcolongo, "Distinguished physicians and respected medical institutions, with a sense of solidarity which makes them like one family, are now working in harmony to assist the traveler who may require medical assistance on his journey... The need for peace and understanding between the peoples of the world has never been as great as now. Peace can come only with understanding, and travel is an important means of acquiring it. It is, however, only through the full consciousness of 'The essence of the human' that we shall be able to open the difficult paths of international relationships. As a traveler you have an excellent opportunity to serve your country

and the world in creating ties of friendship. To you, therefore, we bring this message, a message sparked with beauty all its own: 'The search for the human'."

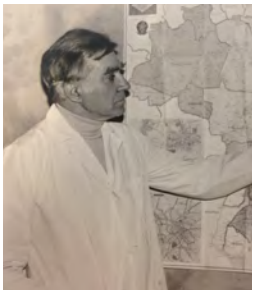
There is little evidence that the underlying epidemiology of leprosy, also known as Hansen's disease, has changed since the introduction of Multidrug Therapy (MDT). The unexpected failure of leprosy control programs using rifampicin-containing regimens to reduce transmission suggests that, in general, transmission must be occurring early in the course of the disease, before diagnosis and the initiation of treatment; perhaps even during the later stages of incubation. In order to understand the full clinical spectrum of leprosy, Dr. Pedro Legua, a clinician-educator with extensive experience in managing this complex disease has been invited to speak. Over the years, Dr. Legua has developed a systematic approach to recognizing leprosy early on based on its clinical presentation. In addition, the symposium will discuss the challenges for elimination in two of the countries with the highest burden of leprosy, India and Brazil.

CHAIR

German Henostroza
University of Alabama at Birmingham, Birimngham, AL, United States

12:45 p.m.
INTRODUCTION OF MARCOLONGO LECTURE

German Henostroza
University of Alabama at Birmingham, Birmingham, AL, United States



Vincenzo Marolongo

The Marcolongo Lecture honors Vincenzo Marcolongo (1922–1988), founder of IAMAT - International Association for Medical Assistance to Travellers. A graduate of the medical school at the University of Rome, Dr. Marcolongo did his postgraduate training at McGill University in Montreal and returned to Italy to obtain his doctorate in tropical medicine. Dr. Marcolongo made the medical needs of travelers his life's work. Of particular interest to him was malaria and preventing the unnecessary morbidity and mortality it causes among travelers. In an era of increasing international travel, he realized that there was a need for collaboration among medical practitioners around the world to help travelers. In 1960 he founded IAMAT, a non-profit organization that awards scholarships to doctors and nurses from countries where travel medicine is an emerging practice. Through IAMAT, Dr. Marcolongo worked tirelessly to inform travelers of health risks and raise awareness of travelers' health among travel industry professionals and medical practitioners worldwide. His foresight, compassion and generosity continue to serve as inspiration for IAMAT's work.

12:55 p.m.
VINCENZO MARCOLONGO LECTURE: CLINICAL CHALLENGES IN LEPROSY: PAST, PRESENT AND FUTURE

Pedro Legua, MD, MScCTM
Professor
Instituto de Medicina Tropical 'Alexander von Humboldt'
Universidad Peruana Cayetano Heredia
Lima, Peru

Dr. Legua attended medical school at UPCH and his residency in Infectious and Tropical Diseases at Hospital Cayetano Heredia (HCH), Lima, Peru. He received a Master of Sciences degree in Clinical Tropical Medicine at the London School of Hygiene & Tropical Medicine. He went to Manaus, Brazil for leprosy training and participated in a Leprosy Control Program in the Peruvian Amazon. Currently, at the Hospital Cayetano Heredia, he combines academic activities with clinical service. Dr. Legua has been on the faculty for the Gorgas Courses in Clinical Tropical Medicine since the beginning in 1996. He is also Adjunct Professor within the William C. Gorgas Center for Geographic Medicine, University of Alabama School of Medicine, Birmingham. He has trained Latin-American residents in the International Program on Infectious and Tropical Medicine, Universidad Peruana Cayetano Heredia, since 2016. Dr. Legua is a member of the Peruvian Academy of Medicine. He has been invited as professor for the Twelfth International Short Course in Clinical Tropical Medicine 2018, Department of Infectious Diseases, Christian Medical College, Vellore, India, and also for the Advanced Module: "Clinical Management of Tropical Diseases," Postgraduate Teaching Program of the Institute of Tropical Medicine and International Health, Charité – Universitätsmedizin Berlin, Germany.

1:40 p.m.
LEPROSY CHALLENGES AND STRATEGIES FOR ELIMINATION - BRAZIL

Sinesio Talhari
Nilton Liins University, Amazonas, Brazil

2:05 p.m.
LEPROSY CHALLENGES AND STRATEGIES FOR ELIMINATION - INDIA

Priya Joseph
Christian Medical College, Vellore, India

Scientific Session 19

Malaria: Epidemiology I - Surveillance Strategies

Meeting Room 3
Thursday, November 18
12:45 p.m. - 2:30 p.m. U.S. Eastern Time Zone

CHAIR

Melissa Conrad
University of California San Francisco, San Francisco, CA, United States

Christine Markwalter
Duke Global Health Institute, Durham, NC, United States

12:45 p.m. 405

CHARACTERIZING SPATIAL AND TEMPORAL CHANGES OF MALARIA TRANSMISSION FROM PREGNANT WOMEN AT ANTENATAL CARE VISITS

Arnau Pujol[1], Glória Matambisso[2], Sónia Maculuve[2], Pau Cisteró[1], Henriques Mbeve[2], Judice Miguel[2], Boaventura Cuna[2], Cardoso Melembe[2], Nelo Ndimande[2], Llorenç Quintó[1], Eusébio Macete[2], Alfredo Mayor[1], Beatriz Galatas[1], Humberto Munguambe[2], Helena Martí-Soler[1], Júlia Montaña[1], Lidia Nhamussua[2], Wilson Simone[2], Francisco Saúte[2], Caterina Guinovart[1], Pedro Aide[2]
[1]ISGlobal, Barcelona Institute for Global Health, Barcelona, Spain, [2]Centro de Investigação em Saúde de Manhiça (CISM), Maputo, Mozambique

12:55 p.m. 406

SCHOOL-AGED CHILDREN ARE THE MOST IMPORTANT CONTRIBUTORS TO THE HUMAN INFECTIOUS RESERVOIR FOR MALARIA IN AREAS OF HIGH AND LOW *P. FALCIPARUM* TRANSMISSION INTENSITY IN UGANDA

Melissa D. Conrad[1], Alex Musiime[2], John Rek[2], Chiara Andolina[3], Joseph Okoth[2], Ismael Onyige[2], Daniel Ayo[2], Joaniter I. Nankabirwa[2], Emmanuel Arinaitwe[2], Moses R. Kamya[2], Grant Dorsey[1], Chris Drakeley[4], Teun Bousema[3], Sarah Staedke[4]
[1]UCSF, San Francisco, CA, United States, [2]Infectious Diseases Research Collaboration, Kampala, Uganda, [3]Radboud University, Nijmegen, Netherlands, [4]London School of Hygiene & Tropical Medicine, London, United Kingdom

1:05 p.m. 407

SPATIAL AND TEMPORAL CLUSTERING OF MALARIA INCIDENCE AMONG CHILDREN AGED 5 TO 14 YEARS IN KOULIKORO, MALI

Mahamoudou Touré[1], Mathias Dolo[1], Abdoul Zamilou[1], Fousseyni Doucouré[1], Fousseyni Kané[1], Drissa Konaté[1], Ayouba Diarra[1], Hamady Coulibaly[1], Sophie Sarrassat[2], Immo Kleinschmidt[2], Jeffrey G. Shaffer[3], Seydou O. Doumbia[1]
[1]University of Sciences, Techniques and Technologies of Bamako, Bamako, Mali, [2]London School of Hygiene & Tropical Medicine, London, United Kingdom, [3]Tulane University, New Orleans, LA, United States

1:15 p.m. 408

MALARIA IMPORTATION INTO AN EPIDEMIC-PRONE SETTING IN ARID NORTHWEST KENYA

Christine F. Markwalter[1], Diana Menya[2], Amy Wesolowski[3], Joseph Kipkoech[4], Elizabeth Freedman[1], Kelsey M. Sumner[5], Lucy Abel[6], George Ambani[4], Hannah R. Meredith[1], Adrew Obala[4], Wendy P. O'Meara[1], Steve M. Taylor[1]
[1]Duke University, Durham, NC, United States, [2]Moi University School of Public Health, Eldoret, Kenya, [3]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [4]Moi University, Eldoret, Kenya, [5]University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [6]Moi Teaching and Referral Hospital, Eldoret, Kenya

1:25 p.m. 409

IMPACT OF 14-DAY PRIMAQUINE RADICAL CURE ON *PLASMODIUM VIVAX* RELAPSE RATES AMONG PUBLIC SECTOR PATIENTS IN CAMBODIA: AN INTERRUPTED TIME SERIES ANALYSIS

Lek Dysoley[1], Jillian Dunning[2], Yucheng Tsai[3], Evelyn Wong[4], Michelle Pahl[3], Julia Dunn[5], Siv Sovannaroth[1], Huy Rekol[1]
[1]National Center for Parasitology Entomology and Malaria Control, Phnom Penh, Cambodia, [2]Clinton Health Access Initiative, Boston, MA, United States, [3]Clinton Health Access Initiative, Phnom Penh, Cambodia, [4]Clinton Health Access Initiative, Yangon, Myanmar, [5]Clinton Health Access Initiative, Vientiane, Lao People's Democratic Republic

1:35 p.m. 410

DELETIONS OF *PLASMODIUM FALCIPARUM* PFHRP2 AND PFHRP3 GENES FROM PERSONS PRESENTING TO HEALTH FACILITIES IN THE DEMOCRATIC REPUBLIC OF THE CONGO, ETHIOPIA, KENYA, MADAGASCAR, AND RWANDA, 2016-2018

Jessica N. McCaffery[1], Eric Rogier[1], Douglas Nace[1], Samaly Souza Svigel[1], Camelia Herman[1], Ashenafi Assefa[2], Jimee Hwang[1], Simon Kariuki[3], Aaron Samuels[1], Arsene Ratsimbasoa[4], Milijaona Randrianarivelojosia[5], Aline Uwimana[6], Papy Mandoko Nkoli[7], Gauthier Mesia Kahunu[8], Venkatachalam Udhayakumar[1], Eric S. Halsey[1]
[1]Malaria Branch, Division of Parasitic Diseases and Malaria, Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Ethiopia Public Health Institute, Addis Ababa, Ethiopia, [3]Kenya Medical Research Institute, Nairobi, Kenya, [4]Madagascar National Malaria Control Program, Antananarivo, Madagascar, [5]Institut Pasteur de Madagascar, Antananarivo, Madagascar, [6]Malaria and Other Parasitic Division, Institute of HIV/AIDS, Disease Prevention & Control, Rwanda Biomedical Center, Kigali, Rwanda, [7]National Institute of Biomedical Research, Kinshasa, Democratic Republic of the Congo, [8]Department of Pharmacology & Therapeutics, Kinshasa, Democratic Republic of the Congo

1:45 p.m. 411

PLASMODIUM FALCIPARUM MALARIA SURVEILLANCE IN GUYANA USING WHOLE-GENOME AND MICROHAPLOTYPE ANALYSIS

Philipp Schwabl[1], Angela Early[2], Emily LaVerriere[1], Pablo Martinez de Salazar[1], Manuela Carrasquilla[1], Ruchit Panchal[2], Tim Straub[2], Meg Shieh[1], Zack Johnson[1], Aimee Taylor[1], Margaret Laws[1], Bronwyn MacInnis[2], Lise Musset[3], Jean Alexandre[4], Helen Imhoff[5], Horace Cox[5], Caroline Buckee[1], Daniel Neafsey[1]
[1]Harvard T.H. Chan School of Public Health, Boston, MA, United States, [2]Broad Institute of MIT and Harvard, Cambridge, MA, United States, [3]Institut Pasteur de la Guyane, Cayenne, French Guiana, [4]Pan American Health Organization, Georgetown, Guyana, [5]Ministry of Health Guyana, Georgetown, Guyana

Scientific Session 20

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Protozoans - Genetic and Genomic Approaches

Meeting Room 4
Thursday, November 18
12:45 p.m. - 2:30 p.m. U.S. Eastern Time Zone

Supported with funding from the Burroughs Wellcome Fund

CHAIR

David Serre
University of Maryland, Baltimore, MD, United States

Katelyn M. Vendrely
Eck Institute for Global Health, University of Notre Dame, Notre Dame, IN, United States

12:45 p.m. 1398

HYPERLOPIT ANALYSIS REVEALS *CRYPTOSPORIDIUM* SECRETORY ORGANELLES

Amandine Nicolle Germaine Guerin[1], Katherine Strelau[1], Konstantin Baryluk[2], Bethan Wallbank[2], Ross F. Waller[2], Boris Striepen[1]
[1]University of Pennsylvania, Philadelphia, PA, United States, [2]University of Cambridge, Cambridge, United Kingdom

12:55 p.m. 1399

METABOLIC COMPETITION BETWEEN PHOSPHO-CHOLINE SYNTHESIS AND HISTONE METHYLATION REGULATES SEXUAL COMMITMENT IN PLASMODIUM FALCIPARUM

Chantal Tashae Harris[1], Xinran Tong[1], Riward Campelo[1], Leen N. Vanheer[1], Inês M. Marreiros[2], Maria M. Mota[3], Kyu Y. Rhee[1], Björn F.c Kafsack[1], Björn F.c Kafsack[1]
[1]Weill Cornell Medicine, New York, NY, United States, [2]Instituto de Medicina Molecular, Falculdade de Medicina, Lisboa, Portugal, [3]Instituto de Medicina Molecular, Falculdade de Medicina, Portugal

1:05 p.m. 412

COMPREHENSIVE PAIRWISE COMPETITIVE GROWTH ASSAYS TO ASSESS THE FITNESS IMPACT OF INTERACTING CHLOROQUINE RESISTANCE LOCI

Katelyn M. Vendrely[1], Katrina A. Button-Simons[1], Xue Li[2], Sudhir Kumar[3], Haley Dahlhoff[1], Mackenzie A.C. Sievert[1], Lisa A. Checkley[1], Nelly Camargo[3], Meseret T. Haile[3], Spencer Y. Kennedy[3], Douglas A. Shoue[1], Ann Reyes[2], Marina McDew-White[2], Abeer Sayeed[2], François H. Nosten[4], Stefan H. Kappe[3], Ian H. Cheeseman[5], Ashley M. Vaughan[3], Timothy J.C. Anderson[2], Michael T. Ferdig[1]
[1]Eck Institute for Global Health, Department of Biological Sciences, University of Notre Dame, Notre Dame, IN, United States, [2]Disease Intervention and Prevention Program, Texas Biomedical Research Institute, San Antonio, TX, United States, [3]Center for Global Infectious Disease Research, Seattle Children's Research Institute, Seattle, WA, United States, [4]Shoklo Malaria Research Unit, Mahidol-Oxford Tropical Medicine Research Unit, Mahidol University, Mae Sot, Thailand, [5]Host Pathogen Interactions Program, Texas Biomedical Research Institute, San Antonio, TX, United States

(ACMCIP Abstract)

1:15 p.m. 413

ILLUMINATING THE BLACK BOX OF *PLASMODIUM FALCIPARUM* LIVER STAGE GENE EXPRESSION

Gigliola Zanghi[1], Hardik Patel[1], Nelly Camargo[1], Ian H. Cheeseman[2], Ashley M. Vaughan[1], Stefan H. Kappe[1]
[1]Seattle Children's, Seattle, WA, United States, [2]Texas Biomedical Research Institute, San Antonio, TX, United States

1:25 p.m. 414

LONG READ SINGLE CELL RNA SEQUENCING OF *PLASMODIUM VIVAX* REVEALS DIVERSITY IN TRANSCRIPT ISOFORMS

Brittany Hazzard[1], Juliana Sa[2], Sean Connelly[2], Angela Ellis[2], Tomas Wellems[2], David Serre[1]
[1]University of Maryland Baltimore, Baltimore, MD, United States, [2]NIH, Bethesda, MD, United States

1:35 p.m. 415

DRIVERS OF DIVERSIFICATION OF THE MULTICOPY VAR GENE FAMILY IN *PLASMODIUM FALCIPARUM*

Xu Zhang, Akshay Vishwanatha, Manish Goyal, Annie Leung, Yi Jing Liu, Ron Dzikowski, Kirk Deitsch, Laura Kirkman
Weill Cornell Medicine, New York, NY, United States

(ACMCIP Abstract)

1:45 p.m. 416

THE ROLE OF PFCORONIN IN THE REGULATION OF ACTIN DYNAMICS REQUIRED FOR CYTOSKELETON-LINKED CELLULAR PROCESSES IN *PLASMODIUM FALCIPARUM*

Imran Ullah[1], Sara H. Shin[1], Aabha I. Sharma[1], Selina Bopp[1], Sarah K. Volkman[1], Daniel L. Hartl[2], Dyann F. Wirth[1]
[1]Department of Immunology and Infectious Diseases, Harvard T.H. Chan School of Public Health, Boston, MA, United States, [2]Department of Organismic and Evolutionary Biology, Harvard University, Cambridge, MA, United States

Symposium 21

American Committee on Arthropod-Borne and Zoonotic Viruses (ACAV) Symposium I: Annual Business Meeting

Meeting Room 5
Thursday, November 18
12:45 p.m. - 2:30 p.m. U.S. Eastern Time Zone

The American Committee on Arthropod-Borne Viruses provides a forum for exchanging information among people interested in arbovirus research and research in diseases caused by high consequence viral pathogens. This session will include the ACAV business meeting, award presentations, research presentations by ACAV award recipients, and outbreak reports. These presenters will describe their research on arbovirology and emerging viral diseases.

CHAIR

Patricia Aguilar
University of Texas Medical Branch, Galveston, TX, United States

Rebecca Christofferson
Louisiana State University, Baton Rouge, LA, United States

12:45 p.m.
INTRODUCTION

12:55 p.m.
ACAV AWARDS AND ANNUAL BUSINESS MEETING

Patricia Aguilar
University of Texas Medical Branch, Galveston, TX, United States

1:45 p.m.

FROM ARBOVIRUSES TO JUSTICE: EFFORTS TO CREATE A SUSTAINABLE WORLD AND POPULACE USING AN ARBOVIRAL PERSPECTIVE

Desiree LaBeaud
Stanford University, Stanford, CA, United States

2 p.m.

OUTBREAK REPORTS

Rebecca Christofferson
Louisiana State University, Baton Rouge, LA, United States

2:05 p.m.

OUTBREAK REPORTS

Nikos Vasilakis
UTMB Health, Galveston, TX, United States

Scientific Session 22

Malaria: Vaccines

Meeting Room 6
Thursday, November 18
12:45 p.m. - 2:30 p.m. U.S. Eastern Time Zone

CHAIR

Moriya Tsuji
Columbia University Medical Center, New York, NY, United States

Sara Healy
NIH/NIAID, Bethesda, MD, United States

12:45 p.m. 417

EFFICACY OF THE RTS,S/AS01$_E$ MALARIA VACCINE ADMINISTERED ACCORDING TO DIFFERENT FRACTIONAL AND FULL DOSE REGIMENS UNDER CONDITIONS OF NATURAL EXPOSURE IN AFRICAN CHILDREN AGED 5-17 MONTHS: FIRST RESULTS FROM A PHASE 2B RANDOMIZED CONTROLLED TRIAL

Aaron Samuels[1], Daniel Ansong[2], Simon Kariuki[3], Samuel Adjei[2], Anne Bollaerts[4], Christian Ockenhouse[5], Nelli Westercamp[6], Cynthia Lee[5], Lode Schuerman[4], Dennis Bii[3], Lawrence Osei-Tutu[2], Martina Oneko[3], Marc Lievens[4], Anima Attobrah Sarfo[2], Cecilia Atieno[3], Danielle Morelle[4], Ashura Bakari[2], Tony Sang[3], Erik Jongert[4], Maame Fremah Koto-Mortty[2], Kephas Otieno[3], Francois Roman[4], Patrick Buabeng[2], Yaw Ntiamoah[2], Opokua Ofori-Anyinam[4], Tsiri Agbenyega[2], the RTS,S study group
[1]Malaria Branch, Division of Parasitic Diseases and Malaria, Center for Global Health, Centers for Disease Control and Prevention, Kisumu, Kenya, [2]Kwame Nkrumah University of Science & Technology/Agogo Presbyterian Hospital, Agogo, Asante Akyem, Ghana, [3]Centre for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya, [4]GSK, Wavre, Belgium, [5]PATH, Seattle, WA, United States, [6]Malaria Branch, Division of Parasitic Diseases and Malaria, Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States

12:55 p.m. 418

THE R21/MATRIX-M™ MALARIA VACCINE CANDIDATE: A PHASE III TRIAL

Mehreen S. Datoo[1], Hamtandi M. Natama[2], Fernando Ramos Lopez[1], Athanase Some[2], Ousmane Traore[2], Toussaint Rouamba[2], Rachel Roberts[1], Sophie Weston[1], Lisa Stockdale[1], Duncan Bellamy[1], Nicola Williams[3], Alison Lawrie[1], Hermann Sorgho[2], Mainga Hamaluba[4], Ally Olotu[5], Jean-Bosco Ouedraogo[6], Alassane Dicko[7], Brian Greenwood[8], Daniel Chandramohan[8], Philip Bejon[4], Matthew Cairns[8], Gregory Glenn[9], Jenny Reimer[10], Umesh Shaligram[11], Umesh Shaligram[11], Anand Lakhkar[11], Prasad Kulkarni[11], Katie J. Ewer[1], Halidou Tinto[2], Adrian V. Hill[1]
[1]Jenner Institute, University of Oxford, Oxford, United Kingdom, [2]Unité de Recherche Clinique de Nanoro, Institut de Recherche en Sciences de la Santé, Nanoro, Burkina Faso, [3]Department of Primary Care, University of Oxford, Oxford, United Kingdom, [4]KEMRI-Wellcome Trust Institute, Kilfi, Kenya, [5]Ifakara Health Institute, Bagamoyo, United Republic of Tanzania, [6]Institut des Sciences et Techniques (INSTech), Bobo-Dioulasso, Burkina Faso, [7]Malaria Research & Training Center, Department of Epidemiology of Parasitic Diseases, Faculty of Medicine, Pharmacy and Dentistry, University of Sciences Techniques and Technologies of Bamako, Bamako, Mali, [8]London School of Hygiene & Tropical Medicine, London, United Kingdom, [9]Novavax, Gaithersburg, MD, United States, [10]Novavax AB, Uppsala, Sweden, [11]Serum Institute of India Private Ltd, Pune, India

1:05 p.m. 419

CHARACTERIZATION OF MALARIA PFCSP MRNA-LNP INDUCED INHIBITORY ANTIBODIES

Justin Taylor[1], Xiaoyan Zou[2], Katherine Mallory[1], **Ishita Waghela**[1], Cosette Schneider[1], Sheetij Dutta[1], Norbert Pardi[3], Paulo J. Lin[4], Ying Tam[4], Drew Weissman[3], Evelina Angov[1]
[1]Walter Reed Army Insitute of Research, Silver Spring, MD, United States, [2]Naval Medical Research Center, Silver Spring, MD, United States, [3]University of Pennyslvannia, Philadelphia, PA, United States, [4]Acuitas Therapeutics, Vancouver, BC, Canada

1:15 p.m. 420

EVALUATION OF *PLASMODIUM VIVAX* ANTIGENS AS VACCINE CANDIDATE TO *PLASMODIUM* SPP.

Luna Barroco de Lacerda, Camila Barbosa, Cristopher Gomes, Guilherme Maia, Ricardo Gazzinelli, Caroline Furtado Junqueira
Oswaldo Cruz Foundation Ficocruz-minas, Belo Horizonte, Brazil

(ACMCIP Abstract)

1:25 p.m. 421

EFFICACY OF PFS230D1-EPA-AS01 VACCINE, A TRANSMISSION BLOCKING VACCINE AGAINST *PLASMODIUM FALCIPARUM*, ASSESSED WITH A DIRECT SKIN FEEDING USING ANOPHELES GAMBIA (COLUZZI) IN CHILDREN 9-18 YEARS OLD IN MALI

Issaka Sagara[1], Sara A. Healy[2], Abdoulaye Katile[1], Bourama Kamate[1], Jennifer Kwan[2], Bayaya Haidara[1], Mamady Kone[1], Jon Fintzi[2], Bruce Swihart[2], Amatigue Zeguime[1], Sidiki Perou[1], M'Bouye Doucoure[1], Alemush Imeru[2], Kelly Rausch[2], David L. Narum[2], Puthupparampil Scaria[2], Nicholas MacDonald[2], Daming Zhu[2], Daman Sylla[1], Amagana Dolo[1], Mahamadou S. Sissoko[1], Sekou F. Traore[1], Jen C. Hume[2], Mamadou B. Coulibaly[1], Patrick E. Duffy[2]
[1]Mali, Bamako-Mali, Mali, [2]National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

1:35 p.m. 422

PFSPZ VACCINE IMMUNIZATION IN WOMEN OF CHILDBEARING POTENTIAL AND IMPACT ON MALARIA DURING SUBSEQUENT PREGNANCIES: A TWO YEAR STUDY

Sara A. Healy[1], Halimatou Diawara[2], Djibrilla Issiaka[2], Aye Diallo Sousa[1], Seydou Traore[2], Ibrahim Soumbounou[2], Mahamoudou Samassekou[2], Oumar Dicko[2], Oumar Attaher[2], Almahamoudou Mahamar[2], Amagana Dolo[2], Balla Diarra[2], Amatigue Zegiume[2], Souleymane Traore[2], L.W. Preston Church[3], Natasha KC[3], Tooba Murshedkar[3], B. Kim Lee Sim[3], Peter Billingsley[3], Irfan Zaidi[1], Robert Morrison[1], Blair Wylie[4], Michal Fried[1], Zonghui Hu[5], Thomas L. Richie[3], Alassane Dicko[2], Patrick E. Duffy[1]

[1]NIH/NIAID/LMIV, Bethesda, MD, United States, [2]Malaria Research & Training Center, Faculty of Medicine, Pharmacy and Dentistry, University of Bamako, Bamako, Mali, [3]Sanaria, Inc, Rockville, MD, United States, [4]Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA, United States, [5]NIH/NIAD/BRB, Bethesda, MD, United States

1:45 p.m. 423

GLYCOLIPID-ADJUVANTED RADIATION-ATTENUATED SPOROZOITES IMPROVES THE EFFICACY OF A HETEROLOGOUS PRIME-AND-TRAP MALARIA VACCINE

Felicia N. Watson[1], Anya C. Kalata[1], Melanie J. Shears[1], Sumana Chakravarty[2], Betty K. Sim[2], Stephen L. Hoffman[2], Moriya Tsuji[3], Sean C. Murphy[1]

[1]University of Washington, Seattle, WA, United States, [2]Sanaria Inc., Rockville, MD, United States, [3]Columbia University, New York, NY, United States

Symposium 23

American Committee of Medical Entomology (ACME) Symposium I

Meeting Room 7
Thursday, November 18
12:45 p.m. - 2:30 p.m. U.S. Eastern Time Zone

This symposium provides a forum for exchange of information among people interested in research on arthropod vectors of disease. This session features a short ACME business meeting followed by presentation of the 2021 SC Johnson (SCJ) Innovation and/or International Research Leaders Award. This serves in part to highlight the next generation of medical entomologists. The session moves to the presentation of the Hoogstraal Medal and a plenary lecture by the recipient. The symposium culminates with a social/networking session.

CHAIR

Gabriel Hamer
Texas A&M University, College Station, TX, United States

Douglas Norris
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

12:45 p.m.
INTRODUCTION

12:55 p.m.
ACME ANNUAL BUSINESS MEETING AND AWARDS

Gabriel Hamer
Texas A&M University, College Station, TX, United States

1:15 p.m.
SPOTTED FEVER GROUP RICKETTSIOSES IN EL SALVADOR

Kyndall Dye-Braumuller
University of South Carolina, Columbia, SC, United States

1:20 p.m.
RED MEAT ALLERGY AND THE LONE STAR TICK (A. AMERICANUM)

Paulina Maldonado-Ruiz
Kansas State University, Manhattan, KS, United States

1:25 p.m.
SEROLOGICAL BIOMARKER AS EPIDEMIOLOGICAL TOOL FOR THE ASSESSMENT OF HUMAN EXPOSURE TO AEDES ALBOPICTUS

Sara Buezo Montero
Public Health and Infectious Diseases, Sapienza Univeristy of Rome, Rome, Italy

1:30 p.m.
INTRODUCTION TO HOOGSTRAAL MEDAL AWARDEE

Lyric Bartholomay
University of Wisconsin-Madison, Madison, WI, United States

1:40 p.m.
HARRY HOOGSTRAAL MEDAL PRESENTATION AND PLENARY LECTURE

Bruce Christensen
University of Wisconsin-Madison, Madison, WI, United States

2:05 p.m.
CONCLUSION AND PASSING OF GAVEL

Gabriel Hamer
Texas A&M University, College Station, TX, United States

Scientific Session 24

Global Health: Global Health Security

Meeting Room 8
Thursday, November 18
12:45 p.m. - 2:30 p.m. U.S. Eastern Time Zone

CHAIR

Yibayiri Osee Sanogo
Centers for Disease Control and Prevention, Atlanta, GA, United States

Miguel Reina Ortiz
University of South Florida, Tampa, FL, United States

12:45 p.m.

424

POST-MORTEM SURVEILLANCE FOR EBOLA VIRUS USING ORAQUICK® EBOLA RAPID DIAGNOSTIC TESTS, EASTERN DEMOCRATIC REPUBLIC OF THE CONGO, 2019-2020

Yibayiri Osee Sanogo[1], Daniel Mukadi-Bamuleka[2], Junior Bulabula-Penge[2], Maria E E. Morales-Betoulle[1], Patrice Fillon[3], Amy Whitesell[1], Mary J. Choi[1], Gnakub Norbert Soke[1], Silga Eloi[4], Michel Kasereka-Tosalisana[5], John Kombe[6], Mathias Mossoko[7], Jean-Paul Kapitula[8], Joseph Kambale-Makundi[9], Jean Marie NTAMPERA[10], Antoine NKUBA[2], Nelson Kambale-Sivihwaa[2], Fabrice Mambu-Mbika[11], Francois Edidi-Atania[12], Placide Mbala-Kingebeni[2], Mehtab Khan[13], Hubert Dedegbe[14], Emmanuel Saint Juste[15], Patrick Woodruff[16], Anja de Weggheleire[17], Raymond Pallawo[10], Abou Salam Gueyeg[10], James L. Dawson[1], Marie Reynolds,[1], John Neatherlin[1], Michael Beach[1], Athalia Christie[1], Peter N. Fonjungo[1], Reinhard Kaiser[1], Germain Bukassa Kazadi[18], Anaïs Legand[19], Pierre B.h. Formenty[19], Mark Perkins[19], Amanda MacGurn[1], Alison Todres[1], John Lee[20], Trevor Shoemaker[1], Stuart T. Nichol[1], Jean-Jacques Muyembe-Tamfum[2], John D. Klena[1], Joel M. Montgomery[1], Steve Ahuka-Mundeke[2]
[1]US Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Institut National de Recherche Biomédicale, Kinshasa, Democratic Republic of the Congo, [3]iMMAP, Switzerland, Switzerland, [4]STOP Ebola, Ouagadougou, Burkina Faso, [5]Ministère de la Santé, Beni, Democratic Republic of the Congo, [6]Ministère de la Santé, Kinshasa, Republic of the Congo, [7]Ministère de la Santé, Kinshasa, Democratic Republic of the Congo, [8]Protection Civile, Beni, Democratic Republic of the Congo, [9]Protection Civile, Butembo, Democratic Republic of the Congo, [10]World Health Organization AFRO, Brazzaville, Republic of the Congo, [11]Institut National de Recherche Biomédicale, Kinshasa, Côte D'Ivoire, [12]Institut National de Recherche Biomédicale, KInshasa, Democratic Republic of the Congo, [13]iMMAP, Amman, Jordan, [14]International Federation of the Red Cross, Goma, Democratic Republic of the Congo, [15]International Federation of the Red Cross, Coordination Ebola, Goma, Democratic Republic of the Congo, [16]iFamily Health International 360 (FHI360), Beni, Democratic Republic of the Congo, [17]Institute of Tropical Medicine, Antwerp, Belgium, [18]Rumph and Associates, Contractor, Atlanta, GA, United States, [19]World Health Organization, Geneva, Switzerland, [20]mBiomedical Advanced Research and Development Authority (BARDA), Atlanta, GA, United States

12:55 p.m.

425

TYPHINET: AN ONLINE DASHBOARD FOR GENOMIC SURVEILLANCE OF SALMONELLA TYPHI

Zoe Anne Dyson[1], Louise Cerdeira[2], Marie Chattaway[3], François-Xavier Weil[4], Deborah Williamson[5], Silvia Argimón[6], David Aanensen[7], Stephen Baker[8], Kathryn Holt[1]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [3]Public Health England, London, United Kingdom, [4]Institut Pasteur, Paris, France, [5]The University of Melbourne, Melbourne, Australia, [6]Centre for Genomic Pathogen Surveillance, Hinxton, United Kingdom, [7]University of Oxford, Oxford, United Kingdom, [8]University of Cambridge, Cambridge, United Kingdom

1:05 p.m.

426

DISSECTING GENETIC DETERMINANTS OF HETEROGENEITY IN PATHOGEN-INDUCED CYTOKINE RESPONSES: COMPARISON OF EUROPEAN AND AFRICAN-BASED COHORT STUDIES

Collins K. Boahen[1], Godfrey S. Temba[1], Vesla I. Kullaya[2], Vasiliki Matzaraki[1], Leo A. Joosten[1], Gibson Kibiki[3], Blandina T. Mmbaga[3], Andre van Ven[1], Quirijn de Mast[1], Mihai G. Netea[1], Vinod Kumar[1]
[1]Department of Internal Medicine and Radboud Center for Infectious Diseases (RCI), Radboud University Medical Center, NIJMEGEN, Netherlands, [2]Department of Medical Biochemistry and Molecular Biology, Kilimanjaro Christian Medical University College, (KCMUCo), Moshi, United Republic of Tanzania, [3]Kilimanjaro Clinical Research Institute, Kilimanjaro Christian Medical Center, Moshi, United Republic of Tanzania

1:15 p.m.

427

THE ROLE OF MULTIDIMENSIONAL POVERTY IN ANTIBIOTIC MISUSE IN EAST AFRICA: A MIXED-METHODS STUDY

Dominique L. Green[1], Sarah Huque[1], Mary Abed Al Ahad[1], Mike Kesby[1], Stephen E. Mshana[2], Benon B. Asiimwe[3], John Kiiru[4], Stella Neema[3], Joseph R. Mwanga[2], Annette Aduda[4], Wilber Sabiiti[1], Derek J. Sloan[1], Katherine Keenan[1], Matthew T. Holden[1]
[1]University of St Andrews, St Andrews, United Kingdom, [2]Catholic University of Health and Allied Sciences, Mwanza, United Republic of Tanzania, [3]Makerere University, Kampala, Uganda, [4]Centre for Microbiology Research, Kenya Medical Research Institute, Nairobi, Kenya

1:25 p.m.

428

COMPLEX TREATMENT-SEEKING FOR SYMPTOMS OF URINARY TRACT INFECTION IN EAST AFRICA AND LINKS TO ANTIBIOTIC MISUSE: A MIXED-METHODS STUDY

Mary Abed Al Ahad[1], Sarah Huque[1], Dominique L. Green[1], Mike Kesby[1], Stephen E. Mshana[2], Benon B. Asiimwe[3], John Kiiru[4], Stella Neema[3], Joseph R. Mwanga[2], Annette Aduda[4], Wilber Sabiiti[1], Derek J. Sloan[1], Katherine Keenan[1], Matthew T. Holden[1]
[1]University of St Andrews, St Andrews, United Kingdom, [2]Catholic University of Health and Allied Sciences, Mwanza, United Republic of Tanzania, [3]Makerere University, Kampala, Uganda, [4]Centre for Microbiology Research, Kenya Medical Research Institute, Nairobi, Kenya

1:35 p.m.

429

ENHANCED PARTICIPATION OF ROHINGYA REFUGEES INCREASES IMMUNIZATION COVERAGE IN A CAMP-BASED POPULATION IN COX'S BAZAAR, BANGLADESH

Anam Ali[1], Rumana Akter[2], Mohammad Ariful Islam[2], Arifuzzaman –[2], Nyo Yamonn[3], Tom Traill[3], Adam Richards[4]
[1]Community Partners International, Cox's Bazar, Bangladesh, [2]Green Hill / Community Partners International, Cox's Bazar, Bangladesh, [3]Community Partners International, Yangon, Myanmar, [4]George Washington University Schol of Public Health, Washington, DC, United States

1:45 p.m.

430

IMPACT OF THE INTRODUCTION OF PCV7OR 13 ON ANTIMICROBIAL RESISTANCE IN INVASIVE PNEUMOCOCCAL DISEASE IN WESTERN REGION OF THE GAMBIA

Ebrima M. Jammeh
Bundung Maternal and Child Health Hospital, Banjul, Gambia

Symposium 25

Beyond Mucosal Immunity: The Multifunctional Role of IgA in Health and Disease

Meeting Room 9
Thursday, November 18
12:45 p.m. - 2:30 p.m. U.S. Eastern Time Zone

IgA is the most abundantly produced antibody isotype in the human body. Most discussions about the role of IgA in human health and disease are restricted to its role in neutralizing pathogens at mucosal surfaces. However, IgA has been shown to play a complex and multifunction role in regulating human health at a variety of anatomical locations and against a wide range of pathogens. This symposium will highlight some of the non-canonical functions of IgA - such as facilitating antibody-dependent cell cytotoxicity - as well as the role IgA plays in immune responses to non-mucosal pathogens such as dengue virus and *Plasmodium falciparum.* To start the session, the first presentation will provide an overview of the role of systemic IgA on regulating the severity of sepsis, highlighting the anti-inflammatory properties of systemic IgA. The next speaker will describe the contribution of IgA to *Plasmodium falciparum* specific humoral immunity, followed by a presentation on the role of IgA during dengue virus infection and the role IgA plays in regulating viral pathogenesis and protective immunity. Finally, the last speaker will highlight ability of IgA to facilitate antibody-dependent cell cytotoxicity and other cell-dependent effector functions. Collectively, these talks will provide a synergistic overview of the multifunction role that IgA can play in regulating inflammation, infection, and human health.

CHAIR
Adam Waickman
SUNY Upstate Medical University, Syracuse, NY, United States

Jeffrey Currier
WRAIR, Silver Spring, MD, United States

12:45 p.m.
INTRODUCTION

12:55 p.m.
THE IMPACT OF SYSTEMIC IGA ON THE SEVERITY OF SEPSIS
Joel Wilmore
SUNY Upstate Medical University, Syracuse, NY, United States

1:20 p.m.
HUMAN IGA RESPONSES TO *PLASMODIUM FALCIPARUM*
Andrea Berry
University of Maryland School of Medicine, Baltimore, MD, United States

1:45 p.m.
ASSESSING THE IMPACT OF DENGUE VIRUS SPECIFIC IGA ON VIRAL PATHOGENESIS AND IMMUNITY
Adam Waickman
SUNY Upstate Medical University, Syracuse, NY, United States

2:10 p.m.
FC-MEDIATED EFFECTOR FUNCTIONS OF IGA DURING VIRAL INFECTIONS
Matthew Miller
McMaster University, Hamilton, ON, Canada

Scientific Session 26

Filariasis – Epidemiology and Control

Meeting Room 10
Thursday, November 18
12:45 p.m. - 2:30 p.m. U.S. Eastern Time Zone

CHAIR
Krufinta Bun
Case Western Reserve University, Cleveland, OH, United States

Alison Krentel
Bruyere Research Institute, ON, Canada

12:45 p.m. 431

FRONTLINE HEALTH WORKER AND COMMUNITY HEALTH VOLUNTEER EXPERIENCES WITH DELIVERY OF MASS DRUG ADMINISTRATION USING TRIPLE DRUG THERAPY FOR LYMPHATIC FILARIASIS IN PAPUA NEW GUINEA: A MIXED METHOD STUDY
Alison Krentel[1], Krufinta Bun[2], Daniel Dilliott[3], Afzaa Rajabali[3], Moses Laman[4], Benedict Mode[5], Makoto Sekihara[6], Charles Thickstun[1], William Pomat[4], Christopher L. King[2]
[1]University of Ottawa, Ottawa, ON, Canada, [2]Case Western Reserve University, Cleveland, OH, United States, [3]Bruyere Research Institute, Ottawa, ON, Canada, [4]Papua New Guinea Institute of Medical Research, Goroka, Papua New Guinea, [5]Division of Health, East New Britain Provincial Administration, Kokopo, Papua New Guinea, [6]Japan International Cooperation Agency, Port Moresby, Papua New Guinea

12:55 p.m. 432

POST-TREATMENT SURVEILLANCE FOR ONCHOCERCIASIS IN PLATEAU AND NASARAWA, NIGERIA: EVIDENCE FOR ELIMINATION OF TRANSMISSION
Abel Eigege[1], Barminas Kahansim[1], Kenrick Nwodu[1], Yohana Sambo[1], John Umaru[1], Bulus Mancha[1], Solomon Adelamo[1], Jonathan Kadimbo[2], Jacob Danboyi[3], Hayward Mafuyai[4], Nse Akpan[5], Joel Akilah[5], Michael Igbe[5], Lindsay Rakers[6], Emily Griswold[6], Thomas R. Unnasch[7], Bertram E. Nwoke[8], Emmanuel S. Miri[1], Gregory S. Noland[6], Frank O. Richards[6]
[1]The Carter Center, Nigeria, Jos, Plateau State, Nigeria, [2]Plateau State Ministry of Health, Jos, Nigeria, [3]Nasarawa State Ministry of Health, Lafia, Nigeria, [4]University of Jos, Jos, Nigeria, [5]Federal Ministry of Health, Abuja, Nigeria, [6]The Carter Center, Atlanta, GA, United States, [7]University of South Florida, Tampa, FL, United States, [8]Imo State University, Owerri, Nigeria

1:05 p.m. 433

ONCHOCERCIASIS ELIMINATION STATUS IN FIVE CARTER CENTER-SUPPORTED STATES IN SOUTHERN NIGERIA: MEASURING PROGRESS TOWARDS ONCHOCERCIASIS ELIMINATION IN NIGERIA
Emmanuel Emukah[1], Abel Eigege[1], Cephas Ityonzughul[1], Adamu Sallau[1], Lindsay Rakers[2], Barminas Kahansim[1], Andrew Obasi[1], Chidi Njoku[1], Bertram E. Nwoke[3], Emmanuel S. Miri[1], Emily Griswold[2], Chukwuma Anyaike[4], Michael Igbe[4], Gregory S. Noland[2], Frank O. Richards[2]
[1]The Carter Center, Nigeria, Jos, Plateau State, Nigeria, [2]The Carter Center, Atlanta, GA, United States, [3]Imo State University, Owerri, Nigeria, [4]Federal Ministry of Health, Abuja, Nigeria

1:15 p.m.

434

THE IMPACT OF MASS DRUG ADMINISTRATION WITH A TRIPLE DRUG REGIMEN (IVERMECTIN, DIETHYLCARBAMAZINE AND ALBENDAZOLE) ON LYMPHATIC FILARIASIS IN PAPUA NEW GUINEA AND IMPLICATIONS FOR POST-MDA SURVEILLANCE

Krufinta Bun[1], Moses Laman[2], Melinda Susapu[3], Makoto Sekihara[4], Emanuele Giorgi[5], Peter J. Diggle[5], Michael Payne[1], Daniel Tisch[1], Catherine Bjerum[1], Benedict Mode[6], Leanne Robinson[7], Gary Weil[8], Christopher L. King[1]

[1]Case Western Reserve University, Cleveland, OH, United States, [2]Papua New Guinea Institute of Medical Research, Madang, Papua New Guinea, [3]Papua New Guinea Department of Health, Port Moresby, Papua New Guinea, [4]Japan International Cooperation Agency, Tokyo, Japan, [5]Lancaster University, Lancaster, United Kingdom, [6]East New Britain Provincial Health Department, Kokopo, Papua New Guinea, [7]Burnet Institute, Melbourne, Australia, [8]Washington University, St Louis, MO, United States

1:25 p.m.

435

THE IMPACT IF ANNUAL VS SEMIANNUAL MASS DRUG ADMINISTRATION WITH ALBENDAZOLE AND IVERMECTIN ON HELMINTH INFECTIONS IN HARPER DISTRICT, LIBERIA

Obiora A. Eneanya[1], Lincoln Gankpala[2], Charles W. Goss[1], Gary J. Weil[1], Fatorma K. Bolay[2], Peter U. Fischer[1]

[1]Washington University School of Medicine, St. Louis, MO, United States, [2]National Public Health Institute of Liberia, Charlesville, Liberia

1:35 p.m.

436

RAPID SOCIAL SCIENCE ASSESSMENT IN LYMPHATIC FILARIASIS HOTSPOTS IN SIERRA LEONE

Luisa Enria[1], Angus F. Tengbeh[2], Ekundayo Karim[3], James King[3], Umu H. Jalloh[4], Gandhi Kallon[4], Alhassan Konneh[2], Victoria Turay[4], Habib I. Kamara[4], **Mustapha Sonnie**[4], Mary H. Hodges[4], Patricia Houck[5], Benoit Dembele[6], Kisito Ogoussan[7], Yaobi Zhang[6], Steven D. Reid[5], Angela Weaver[5]

[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]Queen Margaret University, Edinburgh, United Kingdom, [3]Neglected Tropical Disease Program, Ministry of Health and Sanitation, Freetown, Sierra Leone, [4]Helen Keller International, Freetown, Sierra Leone, [5]Helen Keller International, New York, NY, United States, [6]Helen Keller International, Regional Office for Africa, Dakar, Senegal, [7]Family Health International 360, Washington DC, MD, United States

1:45 p.m.

437

POST-TREATMENT SURVEILLANCE FOR LYMPHATIC FILARIASIS IN THE DOMINICAN REPUBLIC

Manuel Gonzales[1], Luccène Désir[2], Gregory S. Noland[2]

[1]Centro de Control de Enfermedades Tropicales, Ministerio de Salud Pública, Santo Domingo, Dominican Republic, [2]The Carter Center, Atlanta, GA, United States

Symposium 27

Expanding the Use of Radical Cure to Patients with Uncomplicated Malaria Due to Any Plasmodia Species

Meeting Room 11

Thursday, November 18

12:45 p.m. - 2:30 p.m. U.S. Eastern Time Zone

Plasmodium vivax is more difficult to eliminate than *P. falciparum*, since it forms dormant liver stages (hypnozoites) that can reactivate weeks to months after an initial infection causing recurrent symptomatic illnesses (relapses). The risk and frequency of relapse varies considerably with geographical location and different populations. Frequent, recurrent *P. vivax* parasitaemia results in a cumulative risk of anemia, associated with direct and indirect morbidity, as well as ongoing transmission of the parasite. The radical cure of vivax malaria refers to a combination of drugs to kill both the blood and liver stages of the parasite. Primaquine (PQ), an 8-aminoquinoline, is currently the only widely available drug that can kill *P. vivax* liver stages and prevent relapse. The widespread use of PQ is limited by the risk of severe haemolysis and gastrointestinal tolerance. To improve its tolerability, the total dose of PQ is usually spread over 14-days, but when it is unsupervised adherence to this prolonged regimen is poor. The timely elimination of vivax malaria will also require widespread access to radical cure to all patients harboring hypnozoites. Currently radical cure of malaria is restricted to patients presenting with *P. vivax* or P. ovale, the only human malaria species that form hypnozoites. However, a recent systematic review and individual patient data meta-analysis highlight a high risk of *P. vivax* parasitaemia in patients recently treated for *P. falciparum* malaria, likely due to reactivation of occult hypnozoites in patients residing in co-endemic areas. These findings raise the prospect of an important paradigm shift in which radical cure could be offered to all patients with uncomplicated malaria. This symposium sites within the theme of "expanding drug-based interventions for malaria" and will explore the safety and effectiveness of expanding the use of radical cure from current practice (just in patients presenting with *P. vivax* or P. ovale) to all patients presenting with uncomplicated malaria. Combining a review of the literature and meta-analysis, the results of a recently completed and unpublished clinical trial and two modelling studies to explore the potential utility of universal radical cure in different endemic environments. The selected talks will present as yet unpublished data, leaving sufficient time for a dynamic discussion on the public health relevance and significance of the findings.

CHAIR

Ric N. Price
Centre for Tropical Medicine and Global Health, University of Oxford, Oxford, United Kingdom

Kamala Thriemer
Menzies School of Health Research, Darwin, NT, Australia

12:45 p.m.
INTRODUCTION

12:55 p.m.
THE RISKS OF *P. VIVAX* AFTER *P. FALCIPARUM* – A SYSTEMATIC REVIEW OF THE LITERATURE AND METANALYSIS

Robert Commons
Menzies School of Health Research, Darwin, NT, Australia

1:15 p.m.
PRIMAQUINE RADICAL CURE FOR THE TREATMENT OF FALCIPARUM AND VIVAX MALARIA IN PAPUA, INDONESIA – THE TRIPI STUDY

Jeanne Rini Poespoprodjo
Timika Malaria Research Programme, Papuan Health and Community Development Foundation, Timika, Indonesia

1:35 p.m.
MULTISPECIES TRANSMISSION MODEL TO EXPLORE POTENTIAL BENEFITS OF A POLICY OF UNIVERSAL RADICAL CURE FOR MALARIA

James Walker
The School of Mathematics and Statistics, Melbourne, Australia

1:55 p.m.
THE COST EFFECTIVENESS OF A UNIVERSAL POLICY OF PRIMAQUINE RADICAL CURE

Angela Devine
The University of Melbourne, Melbourne, Australia

TropStop - Career Chats II

MOVING INTERNATIONALLY FOR GLOBAL HEALTH TRAINING: CHALLENGES AND REWARDS

Career Chats Room
Thursday, November 18
1:30 p.m. - 2:30 p.m. U.S. Eastern Time Zone

Limited to attendees pre-registered for this session.

Attend the Career Chats sessions to meet professionals in the tropical medicine field who will share their career stories and strategies to help you along your professional path, as well as discuss topical subjects in the field of global health.

Are you considering moving to a new location to train in global health research? You aren't alone! Many of our members have moved across national borders for their careers, even many times. This session will include speakers that have left their home country for graduate school, postdocs, or other training opportunities, and have made decisions about whether to stay abroad or return home. We will discuss how moves affect career networks, job opportunities, and personal lives. The session will also investigate the impacts of moving (particularly from the Global North to the Global South, and vice versa) on global health equity.

CHAIR

Hanna Ehrlich
Yale University, New Haven, CT, United States

Bronwyn MacInnis
Broad Institute, Cambridge, MA, United States

SPEAKERS

Krutika Kuppalli
World Health Organization, Geneva, Switzerland

Amy Bei
Yale School of Public Health, New Haven, CT, United States

Deus Ishengoma
Tanga Centre, National Institute for Medical Research, Tanga, United Republic of Tanzania

Break

Thursday, November 18
2:30 p.m. – 3 p.m. U.S. Eastern Time Zone

Symposium 28

Early Experience and Next Steps in the Evaluation of the Attractive Targeted Sugar Bait for Malaria Control in Kenya, Mali and Zambia

Meeting Room 1
Thursday, November 18
3 p.m. - 4:45 p.m. U.S. Eastern Time Zone

Malaria prevention tools currently deployed at scale have been highly effective in reducing malaria. However, in areas of high transmission, these are insufficient to completely interrupt transmission. This symposium reviews research and development of a new vector control tool, the attractive targeted sugar bait (ATSB). The ATSB targets the sugar feeding behavior of adult anopheline mosquitoes by attracting sugar seeking mosquitoes to a bait station where they ingest a sugar meal laced with a lethal toxicant. Early ATSB field trials in southern Mali during 2015-2018 with a prototype bait station yielded favorable results including high rates of target vector feeding and good safety. These results have led to development of a research program aimed at providing evidence for a WHO policy recommendation to open a new malaria vector control product class and for WHO prequalification of the ATSB. In addition to southern Mali, the research program is operating in two settings that differ from the Mali site in malaria transmission levels and epidemiology, settlement patterns, vegetation and vector bionomics. These sites are in western Kenya and western Zambia. This symposium provides an overview of the research and development undertaken with teams in Mali, Kenya, Zambia, and Liverpool together with the manufacturer and with contributions from global experts in vector biology, mathematical modeling, insecticide resistance, malaria epidemiology, and biodiversity. To date, initial work has included further ATSB product development, and collaborative efforts to develop appropriate assays and indicators to understand how the product works and its impact across settings. The project team designed a Phase III community randomized controlled trial that will launch in Mali, Kenya, and Zambia by mid-2022. In this symposium, research teams from each site will present findings from pre-trial entomological validation studies. This includes results from community deployment of attractive sugar baits in Kenya and

Zambia in 2021 to confirm that local malaria vectors feed from the bait stations. Initial community engagement strategies and social science research findings that will guide subsequent engagement for the large-scale ATSB field trials will be reviewed. The upcoming large-scale trials were targeted for implementation in moderately high malaria transmission settings. To generate supplemental data on the potential impact of the ATSB in a low-transmission setting, an entomological field study was completed in northern Mali in late 2019. The Mali team will present results from this low-endemicity field trial. Key challenges, lessons learned, and next steps for the ATSB research program will be discussed.

CHAIR

Mathias Mondy
Innovative Vector Control Consortium (IVCC), Liverpool, United Kingdom

Busiku Hamainza
National Malaria Elimination Centre, Zambia, Lusaka, Zambia

3 p.m.
INTRODUCTION

3:10 p.m.
RESEARCH AND DEVELOPMENT TOWARDS POLICY AND PREQUALIFICATION FOR A PROMISING NEW MALARIA VECTOR CONTROL PRODUCT CLASS

Helen Jamet
Bill & Melinda Gates Foundation, Seattle, WA, United States

3:35 p.m.
ENTOMOLOGICAL VALIDATION RESULTS FROM KENYA AND ZAMBIA ASB FIELD TRIALS

Eric Ochomo
Kenya Medical Research Institute, Kisumu, Kenya

4 p.m.
SOCIAL SCIENCE FINDINGS AND INITIAL LESSONS LEARNED FOR EFFECTIVE COMMUNITY ENGAGEMENT

Kafula Silumbe
PATH, Lusaka, Zambia

4:25 p.m.
ENTOMOLOGICAL FINDINGS FROM AN ATSB TRIAL IN A LOW-ENDEMICITY SETTING IN MALI

Mohamed Traore
University of Science and Technology of Bamako, Bamako, Mali

Symposium 29

Clinical Group Symposium II (American Committee on Clinical Tropical Medicine and Travelers' Health - CCTMTH): Dermatological Manifestations of Neglected Tropical Diseases

Meeting Room 2
Thursday, November 18
3 p.m. - 4:45 p.m. U.S. Eastern Time Zone

The skin of a patient is the most visible structure of the body that is the first to be encountered during the course of a medical examination. Diseases affecting skin are noticeable by the patient and those around them, and as such can have a significant impact on personal and social well-being. Many diseases of humans are associated with changes to the presentation of skin, ranging from symptoms such as pruritus, to visible characteristics like colour, texture, location, and/or appearance. The major neglected tropical diseases (NTDs) frequently produce recognizable changes in the skin, which may contribute to stigma, discrimination and feelings of isolation experienced by patients affected by these diseases. Indeed, cutaneous presentations of disease are often the first signs that will manifest and that a patient may notice, even before changes in internal organs or other systems occur. This symposium aims to review the approach to patients with dermatological manifestations of NTDs, as well as examine typical presentations in specific geographic areas around the world.

CHAIR

German Henostroza
University of Alabama, Birmingham, AL, United States

Aisha Khatib
University of Toronto, Toronto, ON, Canada

3 p.m.
INTRODUCTION

3:10 p.m.
CLINICAL APPROACH TO THE PATIENT WITH SKIN MANIFESTATIONS IN RESOURCE LIMITED SETTINGS

Carolina Talhari
Universidade do Estado do Amazonas, Manaus, Brazil

3:40 p.m.
DERMATOLOGICAL MANIFESTATIONS OF NTD'S IN THE AMERICA'S

Francisco Bravo
Insituto de Medicina Tropical Alexander Von Humboldt, Universidad Peruana Cayetnao Heredia, Lima, Peru

4:10 p.m.
DERMATOLOGICAL MANIFESTATIONS OF NTD'S IN ASIA AND AFRICA

Mary Thomas
University of Toronto, Toronto, Canada

4:40 p.m.
ACCTMTH ANNUAL BUSINESS MEETING

German Henostroza
University of Alabama, Birmingham, AL, United States

Scientific Session 30

Malaria: Epidemiology II - Improving Access

Meeting Room 3
Thursday, November 18
3 p.m. - 4:45 p.m. U.S. Eastern Time Zone

CHAIR

Ruth Ashton
Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States

S. Patrick Kachur
Columbia University Mailman School of Public Health, New York, NY, United States

3 p.m. 438

MALARIA DOES NOT RESPECT NATIONAL BORDERS: TACKLING MALARIA ON THE BRAZIL-GUYANA-VENEZUELA BORDERS, THE BIGGEST CHALLENGE IN THE AMERICAS REGION

Horace Cox[1], Erika Wetzler[2], Paola Marchesini[3], Sara Canavati[2], Jorge Moreno[4], Maria Villegas[5], Leopoldo Villegas[6]
[1]Vector Control Service (VCS), Ministry of Health Guyana, Georgetown, Guyana, [2]World Vision, Washington DC, DC, United States, [3]Ministry of Health, Brasilia, Brazil, [4]Centro de Investigacion de Campo Francesco Vitanza, Tumeremo, Bolivar, Bolivarian Republic of Venezuela, [5]Global Development One, Silver Spring, MD, United States, [6]ASOCIS, Tumeremo, Bolivar, Bolivarian Republic of Venezuela

3:10 p.m. 439

BURDEN OF MALARIA IN PREGNANCY AMONG ADOLESCENT GIRLS FROM FIVE SUB-SAHARAN AFRICAN COUNTRIES: A META-ANALYSIS OF INDIVIDUAL-PARTICIPANT DATA

Clara Pons-Duran[1], Ghyslain Mombo-Ngoma[2], Eusebio Macete[3], Meghna Desai[4], Mwaka A. Kakolwa[5], Rella M. Zoleko[2], Smaïla Ouédragou[6], Valérie Briand[7], Anifa Valá[3], Abdunoor M. Kabanywanyi[5], Achille Massougbodji[8], Esperança Sevene[3], Michel Cot[9], John J. Aponte[1], Alfredo Mayor[1], Laurence Slutsker[10], Michael Ramharter[11], Clara Menéndez[1], Raquel González[1]
[1]Barcelona Institute for Global Health (ISGlobal), Barcelona, Spain, [2]Centre de Recherches Médicales de Lambaréné (CERMEL), Lambaréné, Gabon, [3]Manhiça Health Research Center (CISM), Manhiça, Mozambique, [4]U.S. Centers for Disease Control and Prevention, Kenya and Atlanta, Atlanta, GA, United States, [5]Ifakara Health Institute (IHI), Ifakara, United Republic of Tanzania, [6]Département de santé publique, Unité de formation en sciences de la santé, Université Joseph Ki-Zerbo, Ouagadougou, Burkina Faso, [7]Institut de Recherche pour le Déveoppement (IRD), Inserm, Université de Bordeaux, Bordeaux, France, [8]Faculté de Sciences de la Santé, Université d'Abomey-Calavi, Cotonou, Benin, [9]Université de Paris, MERIT, Institut de Recherche pour le Développment (IRD), París, France, [10]PATH, Malaria and NTDs, Seattle, WA, United States, [11]Department of Tropical Medicine, Bernhard Nocht Institute for Tropical Medicine & Dept. of Medicine University Medical Center Hamburg-Eppendorf, Hamburg, Germany

3:20 p.m. 440

IMPACT OF PROACTIVE COMMUNITY CASE MANAGEMENT ON COMMUNITY MALARIA PREVALENCE IN BANKASS, MALI

Julie Thwing[1], Saibou Doumbia[2], Mahamadou Sylla[2], Idrissa Kamara[2], Mahamadou Sogoba[2], Caroline Whidden[2], Emily Treleaven[3], Ari Johnson[2], Kassoum Kayentao[2]
[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]MUSO, Bamako, Mali, [3]Institute for Social Research, University of Michigan, Ann Arbor, MI, United States

3:30 p.m. 441

INCREASING COVERAGE OF COMMUNITY CASE MANAGEMENT OF MALARIA IS ASSOCIATED WITH REDUCTION IN SEVERE MALARIA AND MALARIA INPATIENT DEATHS IN ZAMBIA

Ruth A. Ashton[1], Busiku Hamainza[2], Steven Bwalya[2], Christopher Lungu[3], Marie-Reine I. Rutagwera[3], Travis Porter[1], Michael Hainsworth[4], Sarah M. Burnett[4], Hannah Slater[5], Thomas P. Eisele[1], John M. Miller[3]
[1]Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States, [2]National Malaria Elimination Centre, Zambia Ministry of Health, Lusaka, Zambia, [3]PATH MACEPA, Lusaka, Zambia, [4]PATH MACEPA, Washington, DC, United States, [5]PATH MACEPA, Seattle, WA, United States

3:40 p.m. 442

GEOGRAPHICAL ACCESS TO HEALTH FACILITIES AND SEVERE MALARIA AMONG MALARIA POSITIVE CHILDREN IN RURAL AREAS: ANALYSIS OF HOUSEHOLD SURVEYS FROM 18 COUNTRIES IN SUB-SAHARAN AFRICA

Cameron Taylor[1], Joanna Lowell[2], Livia Montana[1], Jean de Dieu Bizimana[2], Yazoume Ye[3]
[1]The DHS Program-ICF, Rockville, MD, United States, [2]The DHS Program-Vysnova Partners, Landover, MD, United States, [3]PMI Measure Malaria-ICF, Rockville, MD, United States

3:50 p.m. 443

RECTAL ARTESUNATE ADMINISTRATION IS ASSOCIATED WITH LOWER REFERRAL COMPLETION OF CHILDREN WITH SUSPECTED SEVERE MALARIA IN NIGERIA AND THE DEMOCRATIC REPUBLIC OF THE CONGO

Nina Brunner[1], Giulia Delvento[1], Tristan Lee[1], Phyllis Awor[2], Prosciova Athieno[2], Joseph Kimera[2], Antoinette Tshefu[3], Jean Okitawutshu[3], Jean-Claude Kalenga[3], Elizabeth Omoluabi[4], Kazeem Ayodeji[4], Charles Okon[4], Ocheche Yusuf[4], Mughi Adamu[4], Theodoor Visser[5], Harriet Napier[5], Valentina Buj[6], Mark Lambiris[1], Aita Signorell[1], Christian Burri[1], Christian Lengeler[1], Manuel Hetzel[1]
[1]Swiss Tropical and Public Health Institute, Basel, Switzerland, [2]Makerere University School of Public Health, Kampala, Uganda, [3]Kinshasa School of Public Health, Kinshasa, Democratic Republic of the Congo, [4]Akena Associates, Abuja, Nigeria, [5]Clinton Health Access Initiative, Boston, MA, United States, [6]UNICEF, New York, NY, United States

4 p.m. 444

THE RELATIONSHIP BETWEEN SEVERE MALARIA PHENOTYPES AND AGE AND ESTIMATES OF BURDEN ACROSS SUB-SAHARAN AFRICA.

Andria Mousa[1], Joseph D. Challenger[1], Jamie Griffin[2], Azra C. Ghani[1], Aubrey J. Cunnington[3], Abdullah Al-Taiar[4], Nicholas M. Anstey[5], Cyril Badaut[6], Bridget E. Barber[5], Quique Bassat[7], Dibyadyuti Datta[8], Chris Drakeley[9], Victor R. Gordeuk[10], Matthew J. Grigg[5], Pierre Hugo[11], Chandy C. John[8], Alfredo Mayor[7], Florence Migot-Nabias[12], Robert O. Opoka[13], Geoffrey Pasvol[14], Claire P. Rees[15], Hugh Reyburn[9], Eleanor M. Riley[9], Binal N. Shah[10], Antonio Sitoe[16], Philip E. Thuma[17], Stefan A. Unger[18], Firmine Viwami[19], Michael Walther[20], Christopher J. Whitty[9], Timothy William[21], Lucy C. Okell[1]
[1]MRC Centre for Global Infectious Disease Analysis, Department of Infectious Disease Epidemiology, London, United Kingdom, [2]School of Mathematical Sciences, Queen Mary University of London, London, United Kingdom, [3]Section of Paediatric Infectious Disease, Department of Infectious Disease, Imperial College London, London, United Kingdom, [4]School of Community & Environmental Health, College of Health Sciences, Old Dominion University, Norfolk, VA, United States, [5]Global Health Division, Menzies School of Health Research and Charles Darwin University, Darwin, Northern Territory, Australia, [6]Unité de Biothérapie Infectieuse et Immunité, Institut de Recherche Biomédicale des Armées, Brétigny-sur-Orge, France, [7]ISGlobal, Hospital Clínic, Universitat de Barcelona, Barcelona, Spain, [8]Ryan White Center for Pediatric Infectious Disease and Global Health, Department of Pediatrics, Indiana University School of Medicine, Indianapolis, IN, United States, [9]Faculty of Infectious and Tropical Diseases, London School of Hygiene & Tropical Medicine, London, United Kingdom, [10]Sickle Cell Center, Department of Medicine, University of Illinois at Chicago, Chicago, IL, United States, [11]Medicines for Malaria Ventures, Geneva, Switzerland, [12]Université de Paris, MERIT, IRD, Paris, France, [13]Department of Paediatrics and Child Health, Makerere University School of Medicine, Kampala, Uganda, [14]Imperial College London, Department of Life Sciences, London, United Kingdom, [15]Centre for Global Public Health, Institute of Population Health Sciences, Barts & The London School of Medicine & Dentistry, London, United Kingdom, [16]Centro de Investigação em Saúde de Manhiça (CISM), Maputo, Mozambique, [17]Macha Research Trust, Choma, Zambia, [18]Department of Child Life and Health, University of Edinburgh, Edinburgh, United Kingdom, [19]Institut de Recherche Clinique du Bénin (IRCB), Cotonou, Benin, [20]Medical Research Council Unit, Fajara, The Gambia at the London School of Hygiene & Tropical Medicine, Fajara, Gambia, [21]Infectious Diseases Society Sabah-Menzies School of Health Research Clinical Research Unit, Sabah, Malaysia

Symposium 31

Role of Persisters in Host-Parasite Interactions and Drug Treatment Failure

Meeting Room 4
Thursday, November 18
3 p.m. - 4:45 p.m. U.S. Eastern Time Zone

Some eukaryotic parasites can enter a state of dormancy or quiescence that enables them to avoid host responses or other stressors, and these low metabolic states may also provide temporary resistance to drugs and other cytotoxic agents. Among the parasitic protozoa there are several growth-arrested or slow-dividing forms that result in persistent infections. These quiescent forms, also known as persisters, have decreased susceptibility to killing by drugs and other stressors, making them among the most difficult chemotherapeutic targets. Recent data and new model systems have begun to reveal the true nature of the persister stages of some of the most important parasitic protozoan diseases of mankind; these include malaria, Chagas Disease, and toxoplasmosis. This symposium will highlight new advances in understanding the mysterious "dormant" state, discuss what is unknown about persisters, and propose novel approaches for uncovering the biology of these elusive forms. Presenters will review recent data that demonstrates stochastic formation of dormant amastigotes of Trypanosoma cruzi and how these forms cause resistance to benznidazole and other trypanocidal compounds. Intriguingly, a better understanding of the biology of dormant amastigotes led to novel dosing regimens that overcome these persistent infections. Next, the symposium will explore the mechanisms that link quiescence of Toxoplasma gondii bradyzoites to the cell cycle machinery, focusing on the specifics of the checkpoint regulation during transition to dormancy and recrudescence. Relapsing malaria is caused by activation of hypnozoites, the dormant liver stages of *Plasmodium vivax*. These persistent forms are among the most elusive targets for drugs and only recently have new technologies and model systems been developed to dissect their unique biology. The presentations will review the exciting recent advances in this field and highlight not only what we now know, but also the many unknowns that can be revealed with the new model systems. Finally, drug resistance in *P. falciparum* is among the most important obstacles for treatment and control of malaria. Mechanisms of resistance to antimalarial drugs are well studied and include mutations in active sites or transporters as well as copy number variants that advantage the parasite to overcome the toxic effects of drugs. Less well understood is the enhanced tolerance to drugs, especially artemisinin derivatives, due to quiescent ring stages and drug-induced dormant ring stages. This symposium will review the existing data that demonstrate a role of dormancy in drug tolerance, clearly outline the differences in quiescence and dormancy of ring stages, and provide new insights into the importance of these persisters for new drug discovery and development.

CHAIR

Dennis E. Kyle
University of Georgia, Athens, GA, United States

John T. Pesce
National Institutes of Health, Bethesda, MD, United States

3 p.m.
INTRODUCTION

3:10 p.m.
DORMANT AMASTIGOTES OF TRYPANOSOMA CRUZI AND DRUG TREATMENT FAILURE
Rick L. Tarleton
University of Georgia, Athens, GA, United States

3:35 p.m.
CELL CYCLE CONTROL OF TOXOPLASMA BRADYZOITE DEVELOPMENT
Elena S. Suvorova
University of South Florida, Tampa, FL, United States

4 p.m.
INSIGHTS INTO THE BIOLOGY OF *P. VIVAX* HYPNOZOITES DRIVES NEW DRUG DISCOVERY APPROACHES
Erika L. Flannery
Novartis Institute for Tropical Diseases, Emeryville, CA, United States

4:25 p.m.
DECONVOLUTING QUIESCENCE AND ARTEMISININ-INDUCED DORMANCY AS DRUG TOLERANCE MECHANISMS IN *P. FALCIPARUM*
Dennis E. Kyle
University of Georgia, Athens, GA, United States

Symposium 32

American Committee on Arthropod-Borne and Zoonotic Viruses (ACAV) Symposium II: Viral Surveillance During the COVID-19 Pandemic

Meeting Room 5
Thursday, November 18
3 p.m. - 4:45 p.m. U.S. Eastern Time Zone

The COVID-19 pandemic has led to the worldwide disruption of critical scientific and public health efforts, including surveillance of arboviruses and zoonotic viruses. This event aims to bring together accomplished scientists engaged in viral surveillance for a discussion of the challenges and opportunities that have emerged during the pandemic. Special focus areas include: Arboviruses, COVID-19, and other zoonotic viruses.

CHAIR

Izabela Mauricio de Rezende
Stanford University, Stanford, CA, United States

Livia Sacchetto
Faculdade de Medicina de São José do Rio Preto (FAMERP), Sao Paulo, Brazil

3 p.m.
INTRODUCTION

3:10 p.m.
THE LINK BETWEEN PREVENTION OF VECTOR-BORNE DISEASE AND COVID: A ONE HEALTH PERSPECTIVE
Laura Kramer
Wadsworth Center, NYSDOH;SUNY, Albany, NY, United States

3:30 p.m.
SURVEILLANCE FOR ZOONOTIC VIRUS DISCOVERY
Peter Daszak
EcoHealth Alliance, New York, NY, United States

3:50 p.m.
CONSTANT VIGILANCE! SURVEILLANCE OF EMERGING VIRUSES IN THE AMERICAS
Kathryn Hanley
New Mexico State University, Las Cruces, NM, United States

4:10 p.m.
COVID IMPACTS ON ARBOVIRAL SURVEILLANCE IN THE U.S. AND WEST AFRICA
Scott C. Weaver
University of Texas Medical Branch, Galveston, TX, United States

Symposium 33

Towards a Next-Generation Malaria Vaccine Portfolio: Innovations in Malaria Vaccine Development

Meeting Room 6
Thursday, November 18
3 p.m. - 4:45 p.m. U.S. Eastern Time Zone

The World Health Organization (WHO) estimates that since the year 2000, 1.5 billion malaria cases and 7.6 million deaths have been averted thanks to the malaria control and elimination efforts. Nevertheless, progress has stalled in recent years, especially in the countries that bear the heaviest burden. Research and development of new tools is one of the highest priorities that the malaria community should address, including the need to develop improved malaria vaccines. The favorable review of the pre-erythrocytic *Plasmodium falciparum* candidate RTS,S vaccine in 2015 by the European Medicines Agency (EMA) marked a milestone in the malaria vaccine development arena, fostering the development and testing of other malaria-vaccine concepts, such as whole sporozoite vaccines, blood-stage vaccines, or transmission-blocking vaccines. Notably, the last two decades have also seen some promising *Plasmodium vivax* candidates, as well as novel strategies and platforms for malaria vaccine design. In 2020, the COVID-19 pandemic emerged as an additional global challenge, but the global vaccine development efforts to respond to the pandemic can also be an opportunity for the malaria community to learn and build upon. This symposium will bring together the perspectives of four researchers representing the key challenges for malaria vaccines, from the bench to the field to discuss the latest innovations in malaria vaccine development and how to move towards an enriched malaria vaccine portfolio. The presentations discuss some of the latest advances which will lead to a final conversation to explore how the malaria community can leverage the COVID-19 vaccine development efforts and take advantage of the lessons learned.

CHAIR
Regina Rabinovich
MESA Alliance, Barcelona Institute for Global Health (ISGlobal), Barcelona, Spain
Halidou Tinto
Institute of Research in Health Sciences (IRSS) - Clinical Research Unit of Nanoro (CRUN), Bobo Dioulasso, Burkina Faso

3 p.m.
INTRODUCTION

3:10 p.m.
WHOLE-PARASITE SPOROZOITE VACCINES
B. Kim Lee Sim
Sanaria Inc., Rockville, United States

3:25 p.m.
NEXT GENERATION BLOOD-STAGE MALARIA VACCINE CANDIDATES - SCIENCE TO PRODUCT DEVELOPMENT
Simon J. Draper
University of Oxford, Oxford, United Kingdom

3:40 p.m.
RETICULOCYTE-DERIVED EXOSOMES AS A NEW ANTIGEN DISCOVERY AND VACCINE PLATFORM AGAINST *PLASMODIUM VIVAX* MALARIA
Hernando A. del Portillo
Barcelona Institute for Global Health (ISGlobal)/Germans Trias I Pujol Research Institute (IGTP), Barcelona, Spain

3:55 p.m.
LESSONS FROM THE COVID-19 PANDEMIC FOR MALARIA VACCINES
Ashley Birkett
PATH Center for Vaccine Innovation and Access, Bethesda, MD, United States

Symposium 34

American Committee of Medical Entomology (ACME) Symposium II: Fresh Voices in Neglected Vector-Borne Diseases

Meeting Room 7
Thursday, November 18
3 p.m. - 4:45 p.m. U.S. Eastern Time Zone

The field of medical entomology has risen to face the challenges of the global spread and emergence of new vector-borne diseases. Major vector-borne diseases such as malaria and emerging pathogens such as Zika virus remain a focal points on the public health landscape as they impact millions of people globally. Advances continue to be more quietly made in understanding and combating the array of neglected vector-borne diseases that include Chagas disease, leishmaniasis, tick-borne relapsing fever, African trypanosomiasis and re-emerging arboviruses such as La Crosse encephalitis virus. The aim of this symposium is to highlight research, findings and new voices in vector-borne disease systems that are less often in the spotlight.

CHAIR

Douglas Norris
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

Mary Gebhardt
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

3 p.m.
INTRODUCTION

3:10 p.m.
BIONOMICS OF THE NEGLECTED TRIATOMINE VECTORS OF CHAGAS DISEASE IN THE UNITED STATES

Sarah Hamer
Texas A&M University, College Station, TX, United States

3:25 p.m.
COMPLEXITIES OF PARASITE-MICROBIOTA-SAND FLY INTERACTIONS IN NEW WORLD LEISHMANIA TRANSMISSION

Nágila Secundino
FIOCRUZ-MG, Belo Horizonte, Brazil

3:40 p.m.
MATING STIMULI CAUSE DRAMATIC CHANGES IN THE FEMALE TSETSE FLY (GLOSSINA MORSITANS) REPRODUCTIVE TRACT AT THE LEVELS OF GENE EXPRESSION, BIOCHEMISTRY AND MORPHOLOGY

Geoffrey M. Attardo
University of California, Davis, Davis, CA, United States

3:55 p.m.
TRIATOMINE MICROBIOME-TRYPANOSOME-ENVIRONMENT ASSOCIATIONS ACROSS MULTIPLE SCALES: IMPLICATIONS FOR CHAGAS DISEASE TRANSMISSION

Kaylee Arnold
University of Georgia, Athens, GA, United States

4:10 p.m.
THE NEGLECTED STORY OF LA CROSSE VIRUS IN APPALACHIA AND HOW COMMUNITY-DRIVEN SURVEILLANCE IS ENHANCING ITS AWARENESS TO FIND SOLUTIONS

Becky Trout-Fryxell
University of Tennessee, Knoxville, TN

4:25 p.m.
GENETIC DIVERSITY AND DISTRIBUTION OF TICK- BORNE RELEASING FEVER SPIROCHETE

Job Lopez
National School of Tropical Medicine at Baylor College of Medicine, Houston, TX

Symposium 35

Community Delivery of Intermittent Preventive Treatment (IPTp): How It Contributes to the Goal of Improved Maternal and Newborn Health Outcomes

Meeting Room 8
Thursday, November 18
3 p.m. - 4:45 p.m. U.S. Eastern Time Zone

This symposium shares implementation experiences, evidence, and recommendations from four countries: Democratic Republic of Congo, Madagascar, Mozambique and Nigeria. The presenters will describe the catalytic change driven by community-based distribution of quality-assured sulfadoxine-pyrimethamine (C-IPTp) in each of the four countries. This includes presentation of research findings and routine monitoring data as well as each country's contextual realities of implementing C-IPTp from community to district to national levels, and importantly the implications for the introduction and expansion of C-IPTp, will be shared. The critical components of C-IPTp will be described along with the role of routine monitoring data in monitoring implementation and uptake. The value of household surveys to measure the impact of community-based malaria prevention will be showcased through presentation of baseline and midline survey results. Additionally, anthropological research findings on drivers and barriers to the acceptability, delivery and uptake of C-IPT will be presented. Four presentations will be followed by a discussion moderated by the session co-chairs with closing statements from a World Health Organization's Global Malaria Programme representative.

CHAIR

Elaine Roman
Jhpiego, Baltimore, MD, United States

Silvia Schwarte
World Health Organization, Geneva, Switzerland

3 p.m.
INTRODUCTION

3:10 p.m.
AN INNOVATIVE COMMUNITY-BASED APPROACH TO INCREASE THE COVERAGE OF INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANCY IN FOUR MODERATE TO HIGH MALARIA TRANSMISSION COUNTRIES

Odete Cossa
Jhpiego, Maputo, Mozambique

3:30 p.m.
ENGAGING MINISTRIES OF HEALTH STAFF AND NATIONAL HEALTH MANAGEMENT INFORMATION SYSTEMS TO DRIVE PROGRAMMATIC AND TECHNICAL QUALITY WHILE SETTING THE STAGE FOR SUSTAINABILITY AND SCALE UP

Herbert Onuoha
Jhpiego, Abakaliki, Nigeria

3:50 p.m.
AN ANTHROPOLOGICAL APPROACH TO ASSESS BARRIERS AND FACILITATORS TO A COMMUNITY-BASED DISTRIBUTION OF IPTP: COMMONALITIES AND VARIATIONS ACROSS FOUR SSA COUNTRIES

Ogonna Nwankwo
University of Calabar, Calabar, Nigeria

4:10 p.m.
RESULTS FROM HOUSEHOLD SURVEYS IN FOUR SSA COUNTRIES TO MEASURE THE EFFECTS OF COMMUNITY-BASED PREVENTION OF MALARIA ON IPTP UPTAKE AND ANC ATTENDANCE

Clara Menendez
Barcelona Institute for Global Health (ISGlobal), Barcelona, Spain

Scientific Session 36

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Parasite Immunology - New Approaches

Meeting Room 9
Thursday, November 18
3 p.m. - 4:45 p.m. U.S. Eastern Time Zone

Supported with funding from the Burroughs Wellcome Fund

CHAIR
Lisa Gibbs
University of Utah, Salt Lake City, UT, United States

Laura Kirkman
Weill Cornell Medical College, New York, NY, United States

3 p.m. **449**

MATERNAL SCHISTOSOMIASIS REDUCES HUMORAL IMMUNITY OF OFFSPRING VIA DYSFUNCTIONAL B CELL PROGENITOR MATURATION AND RECEPTOR EDITING

Lisa C. Gibbs, Juan Marcos Oviedo, Keke Fairfax
University of Utah, Salt Lake City, UT, United States

(ACMCIP Abstract)

3:10 p.m. **1401**

TUFT CELL-DERIVED ACETYLCHOLINE REGULATES EPITHELIAL FLUID SECRETION DURING HOMEOSTASIS AND TYPE 2 IMMUNITY

Tyler Billipp, Jakob Von Moltke
Department of Immunology, University of Washington, Seattle, WA, United States

3:20 p.m. **445**

EARLY TRANSCRIPTIONAL PROFILES INDUCED BY LMCEN-/- PARASITES IN *EX VIVO* INFECTION OF HUMAN MACROPHAGES

Sreenivas Gannavaram[1], Charles Thomas[1], Sydney Fenstermaker[1], Abhay Satoskar[2], Hira L. Nakhasi[1]
[1]US FDA, Silver Spring, MD, United States, [2]Ohio State University, Columbus, OH, United States

(ACMCIP Abstract)

3:30 p.m. **446**

INFLAMMATORY MONOCYTES HAVE A PROMINENT ROLE IN LEISHMANIA DONOVANI DISSEMINATION AFTER SKIN INFECTION IN MALNOURISHED MICE

Ashanti Concepcion Uscanga-Palomeque, E. Yaneth Osorio, Grace E. Patterson, Sara M. Dann, Bruno L. Travi, Peter C. Melby
University of Texas Medical Branch, Galveston, TX, United States

(ACMCIP Abstract)

3:40 p.m. **447**

IDENTIFICATION OF KLRC1+ VD2 GD T CELLS AS A CORRELATE OF PROTECTION IN PFSPZ VACCINATION USING A NOVEL PLATFORM FOR THE TRANSCRIPTOMICS META-ANALYSIS

Irfan Zaidi[1], Robert L. Morrison[1], Sara A. Healy[1], Judith Epstein[1], Mahamadou S. Sissoko[2], Solomon Conteh[1], B. Kim Lee Sim[3], Thomas L. Richie[4], Stephen L. Hoffman[4], Patrick E. Duffy[1]
[1]National Institutes of Health, Bethesda, MD, United States, [2]Malaria Research and Training Center, Mali-NIAID ICER, University of Sciences, Techniques and Technologies of Bamako, Bamako, Mali, [3]Protein Potential LLC, Rockville, MD, United States, [4]Sanaria Inc., Rockville, MD, United States

3:50 p.m. **448**

AFUCOSYLATED *PLASMODIUM FALCIPARUM*-SPECIFIC IGG IS INDUCED BY INFECTION BUT NOT BY SUBUNIT VACCINATION

Mads D. Larsen[1], Mary Lopez-Perez[2], Emmanuel K. Dickson[3], Paulina Ampomah[4], Nicaise Tuikue Ndam[5], Jan Nouta[6], Carolien A. Koeleman[6], Agnes L. Ederveen[6], Benjamin Mordmüller[7], Ali Salanti[2], Morten A. Nielsen[2], Achille Massougbodji[8], C. Ellen van der Schoot[1], Michael F. Ofori[3], Manfred Wuehrer[6], Lars Hviid[2], Gestur Vidarsson[1]
[1]University of Amsterdam, Amsterdam, Netherlands, [2]University of Copenhagen, Copenhagen, Denmark, [3]University of Ghana, Accra, Ghana, [4]University of Cape Coast, Cape Coast, Ghana, [5]University of Paris, Paris, France, [6]University of Leiden, Leiden, Netherlands, [7]Radboud University Medical Center, Nijmegen, Netherlands, [8]University of Abomey-Calavi, Cotonou, Benin

(ACMCIP Abstract)

Symposium 37

The Neglected Intersection between Tropical Medicine and Sexual and Reproductive Health: A Path Towards Equity, Integration and Sustainability

Meeting Room 10
Thursday, November 18
3 p.m. - 4:45 p.m. U.S. Eastern Time Zone

Tropical diseases that have a pronounced or unique impact on women's health face a similar challenge. Disease-orientated programs are frequently relatively vertical within the health system and have few is any natural interfaces with sexual and reproductive health programs outside of their impact on affected women. The consequences of lack of integration are especially harmful to women and girls, as gender norms, roles, and anatomy increase vulnerability to certain neglected tropical diseases (NTDs), affecting them disproportionally. In addition, this population frequently often have limited access to health care and there is little to no cross-learning between programs in how to overcome these challenges. This session invites you to: expand your approach from disease-oriented interventions to woman-centered health provision. By including NTDs interventions within sexual and reproductive health, antenatal care, maternal and child health, and family and community health policies, programs, and services, we can strengthen public health response and universal access to healthcare. The goal is to enable a discussion of NTDs interventions at different levels of the health systems through the sustainable integration on current thinking sexual and reproductive health and rights and NTD programming. To achieve that, this session

will focus specifically on female genital schistosomiasis and STH deworming, congenital Chagas, Zika, and malaria infection during pregnancy. This will allow us to share challenges, lessons learned and derive new approaches to improve comprehensive health services to women that include tropical diseases. This will ultimately help the participants to problem solve across sectors to serve the women and girls and their families living at risk of tropical diseases.

CHAIR

Julie Jacobson
Bridges to Development, Seattle, WA, United States

Mekdes Daba
Center For International Reproductive Health Training (CIRHT), Addis Ababa, Ethiopia

3 p.m.
INTRODUCTION
Julie Jacobson
Bridges to Development, Seattle, WA, United States

3:20 p.m.
CONGENITAL CHAGAS: BOOSTING PARTNERSHIPS BEYOND THE HEALTH SECTOR
Mariela Canepa
Mundo Sano Foundation, Buenos Aires, Argentina

3:35 p.m.
FEMALE GENITAL SCHISTOSOMIASIS AND STH DEWORMING
Pamela Sabina Mbabazi
World Health Organization, Geneva, Switzerland

3:50 p.m.
MALARIA IN PREGNANCY
Julie Gutman
Malaria Branch, CDC, Atlanta, GA, United States

4:05 p.m.
THE 'UNUSUAL SUSPECTS' - INNOVATIVE CROSS-SECTORAL PARTNERSHIPS FOR FGS INTEGRATION
Felicia Wong
Frontline Aids, Hove, United Kingdom

Symposium 38

Pandemics in the Anthropocene: A Multidisciplinary Approach to Global Health Research in the Context of Climate Change

Meeting Room 11
Thursday, November 18
3 p.m. - 4:45 p.m. U.S. Eastern Time Zone

2020 saw the emergence of COVID-19 and a preponderance of extreme weather events. Both of these non-human forces produced distinctly human crises affecting the economy, society, and of course, public health. Further, while neither pathogens nor global climate change respect borders, politics and governance have shaped the causes and consequences of COVID-19 and climate catastrophe. At the same time, scholars anticipate that both crises exacerbate racial and economic inequality within and between states. While global pandemics and global climate change may resemble each other in effect, to what extent are they related, and in what ways? How do power relations between different actors determine the costs of global pandemics and climate change? What can public health learn from other academic approaches to these issues, and how might these perspectives impact our work as researchers, practitioners, and communicators? This panel will bring social scientists and humanities scholars in conversation with public health researchers to consider the causal, conceptual, and historical linkages between pathogens and climate change in our contemporary moment.

CHAIR

Hanna Ehrlich
School of Public Health, Yale University, New Haven, CT, United States

A. Desiree LaBeaud
Stanford University, Stanford, CA, United States

3 p.m.
INTRODUCTION

3:10 p.m.
FROM PLEISTOCENE CHIMPS TO ANTHROPOCENE BATS: A LONG-TERM HISTORY OF HUMAN PANDEMIC POTENTIAL
J. R. McNeill
Department of History, Georgetown University, Washington DC, DC, United States

3:30 p.m.
WET MARKETS AND COVID-19 PANDEMIC RESPONSE: UNDERSTANDING POLICY NARRATIVES AND POWER IN THE ANTHROPOCENE
Kevin Bardosh
Center for One Health Research, University of Washington, Seattle, WA, United States

3:50 p.m.
PANDEMICS AND CLIMATE EXTREMES EVENTS: SOME LESSONS FROM LOCAL GOVERNMENTS IN THE GLOBAL SOUTH
Mercy Borbor-Cordova
Department of Environmental Control, Guayaquil, Ecuador

4:10 p.m.
GLOBAL PUBLIC HEALTH AND ENVIRONMENTAL SUSTAINABILITY IN AN ERA OF CRISIS: INSIGHTS FROM CRITICAL GEOGRAPHIES
Gwendolyn Blue
University of Calgary, Calgary, Canada

Break

Thursday, November 18
4:45 p.m. – 5:15 p.m. U.S. Eastern Time Zone

Symposium 39

Developing a Multi-Perspective Approach to Vector Control Decision-Making

Meeting Room 1
Thursday, November 18
5:15 p.m. - 7 p.m. U.S. Eastern Time Zone

While large-scale population coverage with insecticide-treated nets (ITNs) and/or indoor residual spraying (IRS) is currently understood to be the most cost-effective approach to malaria vector control, many programs see value in moving towards more tailored and targeted plans, recognizing that one-size-fits-all approaches are harder to sustain and can complicate sub-national stratification designed to maximize impact and return on investment. Additionally, the increased costs of new vector control tools such as dual-active ingredient ITNs and new formulations of IRS insecticides are barriers for programs in many malaria-endemic countries. There is also a need to complement activities targeting other aspects of the transmission cycle including seasonal malaria chemoprevention, vaccines, and housing improvements. More consideration is needed to develop frameworks that allow for nuanced decisions and locally tailored approaches to vector control and its position within the wider control and elimination efforts. This symposium will examine three key components of a dynamic framework for vector control decision-making: guidance, impact, and market factors. The first presenter will discuss current World Health organization (WHO) guidelines, including the recommendations and the need to adapt these to the context-specific malaria control strategy. The second presenter will examine the potential impacts of layering vector-control interventions and discuss what additional data are needed for mathematical modelling to help prioritize the components of targeted and tailored intervention packages. Impact will be explored across the dynamics of human-vector interactions, ITN active ingredients, insecticide resistance in key vector populations, IRS timing and malaria seasonality, malaria transmission intensities, community acceptance and willingness, and co-deployment of more than one type of intervention. The third presenter will share the key drivers of vector control costs, how programs often react to these drivers, and how markets can be improved. The fourth presenter will provide an example on how the Ghana National Malaria Control Program approaches these issues when making decisions for vector control. A panel discussion at the conclusion will allow for the presenters and others to continue exploring ideas on how to develop a multi-perspective approach to decisions on vector control.

CHAIR

Abraham Mnzava
African Leaders Malaria Alliance, Arusha, United Republic of Tanzania

Molly Robertson
PATH, Seattle, WA, United States

5:15 p.m.
INTRODUCTION

5:25 p.m.
WHO GUIDANCE AND ITS APPLICATION TO NATIONAL STRATEGIC PLANNING AND PRIORITIZATION PROCESSES
Jan Kolaczinski
World Health Organization, Geneva, Switzerland

5:40 p.m.
THE IMPACT OF VECTOR CONTROL INTERVENTION MIXES AND ADDITIONAL USEFUL DATA
Ellie Sherrard-Smith
Imperial College London, London, United Kingdom

5:55 p.m.
VECTOR CONTROL MARKET TRENDS AND DRIVERS OF COST-EFFECTIVENESS
Andrew Saibu
IVCC, Liverpool, United Kingdom

6:10 p.m.
DECISION-MAKING FOR VECTOR CONTROL INTERVENTIONS IN GHANA
Keziah Malm
National Malaria Control Program, Ghana Health Service, Accra, Ghana

Symposium 40

American Committee on Arthropod-Borne and Zoonotic Viruses (ACAV) Trainee Panel Discussion: Transitioning to Independence

Meeting Room 2
Thursday, November 18
5:15 p.m. - 7 p.m. U.S. Eastern Time Zone

As trainees prepare for independent careers, this event aims to bring together accomplished scientists from diverse career fields, career stages, and backgrounds. The session will feature an engaging discussion on the challenges and skills that make for failures and successes in transitioning to independence in research, industry, the clinic, and more. Special focus areas include: applying for K awards and establishing a research program; what hiring committees look for in applicants; equity in public health research/community-based initiatives; infectious disease medicine in the military; and succeeding in the pharmaceutical industry. This session will also feature an open discussion between panelists and audience members, allowing trainees the opportunity to voice their own questions and concerns regarding their journey to independent scientist.

CHAIR

Megan Vogt
Virginia Tech, Blacksburg, VA, United States

Mary Beth Gadarowski
San Antonio Military Medical Center, San Antonio, TX, United States

5:15 p.m.
INTRODUCTION

5:25 p.m.
TRANSITIONING TO INDEPENDENCE.

Maria Elena Bottazzi
Baylor College of Medicine, Houston, TX, United States

Florian Douam
Boston University National Emerging Infectious Diseases Laboratory, Boston, MA, United States

Heather Yun
Brooke Army Medical Center, Houston, TX, United States

Tina Lupone
SUNY Upstate Medical University, Albany, NY, United States

Symposium 41

Clinical Tropical Medicine Debates: Malaria and Diarrhea

Meeting Room 4
Thursday, November 18
5:15 p.m. - 7 p.m. U.S. Eastern Time Zone

There are more than one approach to many clinical issues in Tropical Medicine. This symposium will explore the use of Mefloquine for malaria prophylaxis and the use of antibiotics for self-treatment of traveler's diarrhea in a debate style format. Presenters will articulate a pro or con position around each issue followed by a panel discussion of the merits of each argument.

CHAIR

Kyle Petersen
Uniformed Services University, Bethesda, MD, United States

Lin H. Chen
Mount Auburn Hospital, Cambridge, MA, United States

5:15 p.m.
INTRODUCTION

5:25 p.m.
ANTIBIOTICS FOR TRAVELER'S DIARRHEA: PRO

Mark S. Riddle
University of Nevada, Reno School of Medicine, Reno, NV, United States

5:40 p.m.
ANTIBIOTIC SELF TREATMENT FOR DIARRHEA: CON

Alison Helfrich
Walter Reed National Military Medical Center, Bethesda, MD, United States

5:55 p.m.
MEFLOQUINE FOR MALARIA CHEMOPROPHYLAXIS: PRO

Gregory J. Martin
Bureau of Medical Services, US Dept of State, Washington, DC, United States

6:10 p.m.
MEFLOQUINE FOR MALARIA CHEMOPROPHYLAXIS: CON

Thomas Weitzel
Clínica Alemana, Universidad del Desarrollo, Santiago, Chile

6:25 p.m.
PANEL MODERATOR

John W. Sanders
Wake Forest University School of Medicine, Winston-Salem, NC, United States

Symposium 42

Washington, DC: Where Science Advocacy, Policy and Social Media Meet (or crash)

Meeting Room 5
Thursday, November 18
5:15 p.m. - 7 p.m. U.S. Eastern Time Zone

The COVID-19 pandemic has brought research and development to the attention of the public and policymakers like never before. Some of this has been helpful and some not. When the pandemic drops to a lower headline in the news, will we repeat another "boom and bust" cycle of support for science and global health? We can avoid this negative cycle only if more in the research community get engaged, especially at this moment. In these politically charged and fiscally challenging times, scientists must take steps to help those outside their research circles better understand what they do and why. This means the public, the media and policymakers. The overwhelming majority of decision-makers are not scientists or health professionals. As a result, they look at the issues through lenses very different from someone with years, perhaps decades of science training and experience. As a whole, the research community is late (and reluctant) in thinking and acting like constituents, but with the future of the U.S. scientific enterprise hanging in the balance of major US policy proposals under consideration, this is the moment to include engagement in your role as a scientist. How do you convey the value of your work to those who play a role in increasing or cutting support for the work you do every day? Not sure how to do this or what to say? In this session hear the top things you need to know about U.S. government funding for the issues that ASTMH cares so deeply about. Find out who the key actors are and how to better convey the value of lasting investments in global health R&D. Learn how to use social media platforms like Twitter to inform others about the value of tropical medicine and global health overall, including your own efforts. Learn how to connect with policymakers, and your family and friends who likely don't really know what you do (ahem, who's responsibility is this one with family and friends). Offering more data and using a science vocabulary is a surefire way to hasten the end of any conversation. Listen to the experienced perspectives from the ASTMH CEO, the Society's Washington, DC-based R&D advocacy coalition - GHTC, ASTMH's public relations firm and the Society's President.

CHAIR

Karen Goraleski
American Society of Tropical Medicine and Hygiene, Arlington, VA, United States

5:15 p.m.
INTRODUCTION

5:20 p.m.
ADVOCATING FOR R&D FUNDING - EMBRACE YOUR EXPERTISE AND MAKE THIS MOMENT MATTER
Emily Conron
Global Health Technologies Coalition, Washington, DC, United States

5:40 p.m.
RULE #1: AVOID SCIENCE SPEAK, RULE #2: BE AN ACTIVE LISTENER
Karen Goraleski
American Society of Tropical Medicine and Hygiene, Arlington, VA, United States

6 p.m.
USING SOCIAL MEDIA STRATEGICALLY AND EFFECTIVELY
Gideon Hertz
Burness, Bethesda, MD, United States

6:20 p.m.
IF WE DON'T SPEAK FOR OURSELVES, OTHERS WILL
Julie Jacobson
Bridges to Development, Seattle, WA, United States

Symposium 43

Clinical Development of Malaria Transmission Blocking Vaccines: Which Road Do We Take?

Meeting Room 6
Thursday, November 18
5:15 p.m. - 7 p.m. U.S. Eastern Time Zone

Transmission-blocking vaccines (TBV) prevent community spread of malaria by targeting mosquito sexual stage parasites, a life-cycle bottleneck, and will be used in elimination programs. TBV rely on herd immunity to reduce mosquito infections and thereby new infections in both vaccine recipients and non-recipients, but do not provide protection once an individual receives an infectious mosquito bite, and this complicates clinical development. Due to variability between individuals hosts, communities, and malaria transmission seasons, conducting a cluster randomized trial becomes challenging and expensive. Use of smaller, controlled human malaria infection studies with community-based modeling relying on surrogate measures and epidemiological data may be a more efficient tool to streamline TBV evaluation. In addition, it may not be feasible to measure TBV effect size directly in the laboratory in humans for a TBV in the same way it is typically done for pre-erythrocytic vaccines as it would require the infection of a large number of volunteers. To overcome this, malaria researchers have instead used intermediate measures to quantify the ability of TBV candidates to reduce and/or block transmission using assays such as standard membrane feeding assays (SMFA), direct membrane feeding assays (DMFA), or direct skin feeding assays (DSF). This symposium will debate these two key challenges in TBV assessments: clinical trial designs and efficacy endpoint assessments. The symposium will debate on how we should evaluate the impact of TBV will be provided by Dr. Katile (field studies including all age groups) and Dr. Collins and Dr. Challenger (PfCHMI + modelling), how TBV success should be measured with be presented by Dr. Miura (SMFA), Dr. Yerbanga (DMFA), and Dr. Hume (DSF). Each presenter will present his/her case followed by a rebuttal per speaker and discussion moderated by the organizer and co-chair with a final audience vote on the two topics.

CHAIR
Issaka Sagara
University of Sciences Techniques and Technologies, Bamako, Mali
Sara A. Healy
National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

5:15 p.m.
INTRODUCTION

5:25 p.m.
TBV EFFICACY TRIALS: FIELD STUDIES VERSUS CHMI?
Abdoulaye Katile
University of Sciences, Techniques, and Technologies, Bamako, Mali

5:40 p.m.
TBV EFFICACY TRIALS: FIELD STUDIES VERSUS CHMI?
Katharine Collins
Radboud University Medical Centre, Nijmegen, Netherlands

5:50 p.m.
TBV EFFICACY TRIALS: FIELD STUDIES VERSUS CHMI?
Joseph Challenger
Imperial College, London, United Kingdom

6 p.m.
TBV ENDPOINTS: STANDARD MEMBRANE FEEDING ASSAY (SMFA) VERSUS DIRECT MEMBRANE FEEDING ASSAY (DMFA) VERSUS DIRECT SKIN FEEDING (DSF)
Kazutoyo Miura
Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

6:15 p.m.
TBV ENDPOINTS: STANDARD MEMBRANE FEEDING ASSAY (SMFA) VERSUS DIRECT MEMBRANE FEEDING ASSAY (DMFA) VERSUS DIRECT SKIN FEEDING (DSF)
Rakiswendé S. Yerbanga
University of Ouagadougou, Ouagadougou, Burkina Faso

6:25 p.m.
TBV ENDPOINTS: STANDARD MEMBRANE FEEDING ASSAY (SMFA) VERSUS DIRECT MEMBRANE FEEDING ASSAY (DMFA) VERSUS DIRECT SKIN FEEDING (DSF)
Jennifer Hume
NIH/NIAID/LMIV, Bethesda, MD, United States

Symposium 44

Key Interventions, Transformation and Long-Term Recovery: Exploring South Africa's Response to the COVID-19 Pandemic

Meeting Room 7
Thursday, November 18
5:15 p.m. - 7 p.m. U.S. Eastern Time Zone

On March 5, 2020, South Africa recorded its first case of imported COVID-19. Since then, cases in South Africa have increased exponentially with significant community transmission. A multisectoral approach to containing and mitigating the spread of SARS-CoV-2 was instituted. A National COVID-19 Command Council was established to take government-wide decisions. An adapted WHO COVID-19 strategy for containing and mitigating the spread of the virus was implemented by the National Department of Health. The strategy included the creation of national and provincial Incident Management Teams which comprised of a variety of workstreams. Within this symposium South Africa's response to the COVID-19 pandemic will be discussed, by exploring the challenges experienced, lessons learned and identifying the best practices for future preparedness. During the session, an overview of the South African response will be provided; this will include a description of the pandemic's trajectory, key interventions such as community screening and contact tracing, modelling to support decision-making, and highlighting the importance of local context through an assessment of challenges experienced and lessons learned. Lastly, insights into establishing the 'new normal' through health system recovery and transformation will be presented. The importance of the proposed session is to document and share the South African COVID-19 lessons learned and challenges experienced. The purpose of the symposium is to take an opportunity to reflect on the public health response to COVID-19 in South Africa, more specifically, to identify best practices to establish a resilient health system to withstand future pandemics. The key objectives of the presentations are to provide an in-depth discussion of the contact tracing and community screening interventions, to investigate the interventions deployed in response to the epidemic trajectory and modelling thereof, and to consider the transformation and recovery of the health system. The symposium will be structured according to the four-talk format and will be chaired by Prof Silal. The first talk on governance and policies will be presented by Dr Moonasar and will be followed by a talk on epidemiological trends and modelling, presented by Prof Silal and Ms Leonard, this talk will highlight lessons learned from interventions that were implemented during the response; the third talk will be presented by Ms Madikizela and Dr Modisenyane and will cover community-based interventions, namely community screening and contact tracing; the last talk, by Dr Pillay will cover insights on the transformation, long-term recovery and future readiness of the health system.

CHAIR

Sheetal P. Silal
University of Cape Town, Cape Town, South Africa

Patrick Moonasar
National Department of Health, Pretoria, South Africa

5:15 p.m.
INTRODUCTION

5:25 p.m.
COVID-19 COMMUNITY BASED INTERVENTIONS: COMMUNITY SCREENING AND TESTING

Lindiwe Madikizela
National Department of Health, Pretoria, South Africa

5:50 p.m.
COVID-19 COMMUNITY BASED INTERVENTIONS: CONTACT TRACING

Moeketsi Modisenyane
National Department of Health, Pretoria, South Africa

6:15 p.m.
INVESTIGATING THE INTERVENTIONS DEPLOYED IN RESPONSE TO THE COVID-19 EPIDEMIC TRAJECTORY IN SOUTH AFRICA

Elizabeth Leonard
Clinton Health Access Initiative, Pretoria, South Africa

6:40 p.m.
COVID-19: RECOVERY AND TRANSFORMATION OF THE SOUTH AFRICAN HEALTHCARE SYSTEM

Yogan Pillay
Clinton Health Access Initiative, Pretoria, South Africa

Symposium 45

The Long and Winding Road: Data Gathering, Documentation and Advocacy as Trachoma and LF Programs Near Elimination

Meeting Room 10
Thursday, November 18
5:15 p.m. - 7 p.m. U.S. Eastern Time Zone

The dossiers that countries submit to the World Health Organization to be validated as having eliminated trachoma and lymphatic filariasis as public health problems represent the culmination of the physical and metaphorical roads taken to reach this goal. Although these diseases have clear epidemiological targets for validation, the path to reach them is not as straightforward. One of the "lessons learned" from national programs who have submitted their dossiers is that it is never too early to start, primarily due to the enormous amount of data that must be collated to summarize years of work. However, there are additional factors to be considered. First, the length of time to reach targets and the amount of documentation to show that targets have been met should not be underestimated. When taking the example of the morbidity target for trachoma, countries may either elect to use trachoma survey results or utilize programmatic data from case finding. Mali is using a combination

of these data and will discuss the painstaking process of field work and documentation. Second, national programs often do not have full funding at any one time to focus on all aspects of disease elimination. For example, while mass drug administration is generally well-funded, the same is not always the case for morbidity management. In such cases, it may be useful for a program to take a step back by conducting a situation analysis and use the information to advocate for support where gaps exist and ensure sustainable service availability. The AIM Initiative will discuss technical assistance it has provided to multiple neglected tropical programs to do just that. Third, while it is not necessary to have fully mapped endemic countries for LF and trachoma to be validated, it is necessary to describe methods used to determine endemicity or non-endemicity. Some countries may not have robust documentation of why diseases are unlikely to be endemic in certain parts of the country. Cameroon will describe a process to systematically gather information for districts previously unmapped for trachoma to provide this documentation. Finally, Togo's LF program will put all the pieces together and describe its process to assemble and re-examine its data as it developed and submitted its LF dossier.

CHAIR

Stephanie L. Palmer
FHI 360, Washington, DC, United States

Molly Brady
RTI International, Washington, DC, United States

5:15 p.m.
INTRODUCTION

5:25 p.m.
RATISSAGE TO DOCUMENT ACHIEVEMENT OF TT ELIMINATION TARGET

Lamine Traore
Programme Nationale de Sante Oculaire, Bamako, Mali

5:50 p.m.
CONDUCTING SITUATION ANALYSES TO DEVELOP STRATEGIC PLANS TO ACHIEVE MMDP ELIMINATION TARGETS

Melissa Edmiston
American Leprosy Missions, Greenville, SC, United States

6:15 p.m.
CONDUCTING TRACHOMA DESK REVIEWS IN PREVIOUSLY UNMAPPED DISTRICTS IN THE CONTEXT OF A MATURE PROGRAM

Emillienne Epée
Faculty of Medicine and Biomedical Sciences, University of Yaoundé I, Yaoundé, Cameroon

6:40 p.m.
PULLING TOGETHER DECADES OF WORK IN TOGO'S DOSSIER FOR THE ELIMINATION OF LYMPHATIC FILARIASIS

Monique Dorkenoo
Ministry of Health, Togo and University of Togo, Lome, Togo

Sponsored Symposium

"Shot in the Arm" Film and Discussion

Grand Ballroom
Thursday, November 18
7 p.m. - 8:45 p.m. U.S. Eastern Time Zone

SPONSORED BY BAYER CROP SCIENCE

See page 51 for information.

Friday, November 19

ASTMH Information Desk

Lobby
Friday, November 19
8 a.m. - 7:45 p.m. U.S. Eastern Time Zone

Exhibit Hall

Visit the Exhibit Hall to view the schedule for each exhibit booth and connect with our exhibitors and learn about their products and services

Press Room

The ASTMH media team is available for assistance at the following:

- Bridget DeSimone, **bdesimone@burness.com**
  tel: +1 202-468-0766
- Preeti Singh **psingh@burness.com**
  tel: +1 703-862-2515
- Anna Chen, **achen@burness.com**
  tel: +1 215-262-7670

Review research highlights and more:

https://astmhpressroom.wordpress.com/annual-meeting-2021/

Special Session

Moving Back Home: Finding and Funding the Dream

Virtual Meeting Platform
Friday, November 19
8 a.m. - 9:15 a.m. U.S. Eastern Time Zone

CHAIR

Abiola Fasina
University of Pennsylvania, Philadelphia, PA, United States

Johanna Daily
Albert Einstein College of Medicine, Bronx, NY, United States

Sara S. Khilji
Oregon Health & Sciences University, Salem, OR, United States

The ASTMH membership includes some of the best and brightest young global health professionals worldwide, representing a pipeline of the next generation of clinicians, scientists, and program managers to solve global challenges. Many are originally from low- and middle-income countries (LMIC) and aim to move back to their countries of origin or other locations in need of their specialized skills after completing training in high income countries. Originally developed in 2017 to address the specific professional development needs of this cohort, the "Moving Back Home" series has proved highly popular and impactful, growing in attendance each year. This year, we hope to put participants in the room with funders and future employers to get concrete advice about planning a strategic move to an LMIC setting. Our program this year will bring in leaders from institutions who benefit from this pipeline to provide their own insights and guidance in building a career in global health.

Plenary Session 46

Plenary Session IV: Is a Pandemic Treaty the Path to Global Health Security

Grand Ballroom
Friday, November 19
8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

The World Health Organization (WHO) International Health Regulations (IHR) are designed to prevent the international spread of infectious diseases while avoiding interference with international traffic and trade. Through this process, countries report diseases of regional or global significance to the WHO, presumably allowing the world to react to contain their spread. For particularly dangerous events, the WHO Director General can declare a Public Health Emergency of International Concern, signaling a major epidemic or pandemic, such as the present COVID-19 pandemic and the 2013-16 Ebola virus epidemic in West Africa. While IHR seeks to set standards designed to keep the world safe, many question its efficacy. In particular, IHR lacks a mechanism for enforcement when countries elect, presumably due to political or economic sensitivities, to not to report events. Furthermore, absent or late reporting—real or perceived—tends to fuel political tensions, as seen regarding the timing and origins of COVID-19. Concerns of the shortcomings of IHR has prompted some WHO member states to call for a "pandemic treaty" with binding consequences for failure to report. Proposed measures to give IHR "teeth" have been proposed in the recent Lancet Public Health publication, "A global public health convention for the 21st century". In this symposium, a panel of international experts will discuss the IHR, its present advantages and disadvantages, and the prospect of a pandemic treaty to keep the world safe from epidemics and pandemics.

CHAIR

Daniel G. Bausch
FIND, Geneva, Switzerland

MODERATOR

Daniel G. Bausch
FIND, Geneva, Switzerland

Break

Friday, November 19
9:45 a.m. – 10:15 a.m. U.S. Eastern Time Zone

Symposium 47

Ending the Neglect of Female Genital Schistosomiasis through a Holistic and Integrated Approach: Introducing the FAST Package

Meeting Room 1
Friday, November 19
10:15 a.m. - Noon U.S. Eastern Time Zone

Female genital schistosomiasis (FGS) is an important sexual and reproductive health issue affecting up to an estimated 56 million women and girls living in Sub-Saharan Africa. Left unaddressed, women and girls infected with FGS face health care providers who are unaware of their condition, stigma from the sexual and reproductive health sequelae of FGS and continued morbidity over time. Presently in many countries, FGS remains an unknown condition across the health system and even in affected communities. Efforts to prevent new infections through mass drug administration (MDA) of Praziquantel may not provide information on the prevention of FGS, missing opportunities to galvanize communities for participation in the MDA and increase coverage. One of the key challenges addressing FGS is the lack of training for health care providers and the difficulty of introducing quality training for such a specific clinical issue across the different levels of health care providers who may provide services to affected woman and girls. In response to these challenges, the female genital schistosomiasis (FGS) Accelerated Scale Together (FAST) package or the FAST package provides a holistic approach to FGS covering the life course of a woman and addresses the issue of FGS at the individual, community and health system levels. The FAST package combines proven interventions that have been shown independently to improve detection and clinical outcomes for FGS as well as to support and enhance the prevention of new infections through mass drug administration (MDA). The FAST Package brings together new global partnerships to address FGS through collaboration, training and community awareness to ensure that new cases are prevented, diagnosis and treatment are available, and communities are aware about the risks and impact of FGS in their communities. One component is the development of a set of core clinical competencies that have been developed and included in an online training program to expand the reach of clinical training. Second, increasing FGS awareness at the community level requires a gender-based approach and can encourage participation in the routine MDA activities. Finally, in order to address FGS in a sustainable manner, existing mechanisms in NTD, HPV and HIV/AIDS programs must be leveraged for support and action. Pilot national committees established in Ghana and Madagascar are committed to ensuring the integration of FGS into and across existing programs and sectors. Their efforts will help to sustain and scale up the FAST Package approach within each country.

CHAIR

Alison Krentel
School of Epidemiology and Public Health, University of Ottawa, Ottawa, ON, Canada

Amadou Garba Djirmay
World Health Organization, Geneva, Switzerland

10:15 a.m.
INTRODUCTION

10:25 a.m.
INTRODUCING THE FAST PACKAGE: A NOVEL PARTNERSHIP TO ADDRESS FGS
Alison Krentel
School of Epidemiology and Public Health, University of Ottawa, Ottawa, ON, United Kingdom

10:40 a.m.
WOMEN'S EXPERIENCES WITH FGS USING PHOTOVOICE
Margaret Gyapong
University of Health and Allied Sciences, Ho, Ghana

11 a.m.
USING AN INNOVATIVE ONLINE PLATFORM TO EXPAND THE REACH OF CLINICAL TRAINING FOR HEALTH PROVIDERS
Julie Jacobson
Bridges to Development, Seattle, WA, United States

11:20 a.m.
ENSURING SUSTAINABILITY OF ACTION THROUGH NATIONAL FGS COMMITTEES
Joseph Kwadwo Opare
Ghana Health Service, Accra, Ghana

Scientific Session 48

Kinetoplastida: Epidemiology and Diagnosis

Meeting Room 2
Friday, November 19
10:15 a.m. - Noon U.S. Eastern Time Zone

CHAIR

Natalie Bowman
University of North Carolina, Chapel Hill, NC, United States

Eva Iniguez
National Institute of Health, Rockville, MD, United States

10:15 a.m. **450**

ESTIMATING TIMELINES TO ELIMINATION OF TRANSMISSION FOR SLEEPING SICKNESS AND MEASUREMENT OF THIS GOAL IN THE PRESENCE OF POSSIBLE CRYPTIC HUMAN AND ANIMAL RESERVOIRS
Maryam Aliee[1], Ron E. Crump[1], Ching-I Huang[1], Simon E. Spencer[1], Chansy Shampa[2], Matt J. Keeling[1], Erick Mwamba Miaka[2], Kat S. Rock[1]
[1]Zeeman Institute: SBIDER, Warwick University, Coventry, United Kingdom, [2]Programme National de Lutte contre la Trypanosomiase Humaine Africaine, Kinshasa, Democratic Republic of the Congo

10:25 a.m. 451

COST EFFECTIVENESS OF A COMMUNITY-BASED STRATEGY FOR THE DIAGNOSIS AND FOLLOW-UP OF TREATMENT IN PATIENTS WITH CUTANEOUS LEISHMANIASIS IN COLOMBIA

David E. Rebellón-Sánchez[1], Cesar Augusto Guevara-Cuellar[2], Elizabeth Parody-Rúa[3], Jimena Jojoa[4], Ruth Mabel Castillo[4], Maria del Mar Castro[4], Nancy G. Saravia[4], Alexandra Cossio[4]

[1]Centro Internacional de Entrenamiento e Investigaciones Médicas, Cali, Colombia, [2]Universidad Icesi, Cali, Colombia, [3]Universidad Icesi, Facultad de Ciencias Naturales, Centro de Estudios en Protección Social y Economía de la Salud (PROESA), Cali, Colombia, [4]Centro Internacional de Entrenamiento e Investigaciones Médicas, Universidad Icesi, Cali, Colombia

10:35 a.m. 452

MATHEMATICAL MODELLING OF SLEEPING SICKNESS IN NORTHERN UGANDA

Ron E. Crump[1], Ching-I Huang[1], Marina Antillon[2], Paul R. Bessell[3], Richard Selby[4], Albert Mugenyi[5], Paul E. Brown[1], Andrew Hope[4], Michelle Stanton[4], Joshua Longbottom[4], Simon E. Spencer[1], Joseph Ndung'u[6], Steve J. Torr[4], Charles Wamboga[5], Kat S. Rock[1]

[1]The University of Warwick, Coventry, United Kingdom, [2]Swiss Tropical and Public Health Institute, Basel, Switzerland, [3]Epi Interventions Ltd, Edinburgh, United Kingdom, [4]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [5]National sleeping sickness control programme, Kampala, Uganda, [6]Foundation for Innovative New Diagnostics, Geneva, Switzerland

10:45 a.m. 453

ENVIRONMENTAL AND CLIMATIC DETERMINANTS OF LEISHMANIASIS RISK IN SRI LANKA: HISTORICAL VERSUS CONTEMPORARY CLIMATIC FACTORS AND LOCALIZED SEASONALITY

Guofa Zhou[1], Nadira D. Karunaweera[2]

[1]University of California at Irvine, Irvine, CA, United States, [2]University of Colombo, Colombo, Sri Lanka

10:55 a.m. 454

DEEP LEARNING APPROACHES FOR CUTANEOUS LEISHMANIASES DIAGNOSIS BASED ON SKIN LESION IMAGES

Emna Harigua-Souiai[1], Mohamed Ould Maouloud[2], Ines Tej Abdeljaoued[3], Maaoui Hariga[4], Mourad Mokni[5], Ikram Guizani[2]

[1]Artificial Intelligence for Health Development (AI4HD) ; Laboratory of Molecular Epidemiology and Experimental Pathology – LR16IPT04, Institut Pasteur de Tunis, Université de Tunis El Manar, Tunis, Tunisia, [2]Laboratory of Molecular Epidemiology and Experimental Pathology – LR16IPT04, Institut Pasteur de Tunis, Université de Tunis El Manar, Tunis, Tunisia, [3]Laboratory of Bioinformatics, Mathematics and Statistics – LR16IPT09, Institut Pasteur de Tunis, Université de Tunis El Manar, Tunis, Tunisia, [4]Artificial Intelligence for Health Development (AI4HD), immeuble Tamayouz B1.1, Centre Urbain Nord, Tunis, Tunisia, [5]Department of Dermatology – LR18SP01, Hopital La Rabta, Tunis, Tunisia

11:05 a.m. 455

ONE-YEAR EFFICACY OF BENZNIDAZOLE OR NIFURTIMOX AMONG ASYMPTOMATIC TRYPANOSOMA CRUZI SEROPOSITIVE IN COLOMBIA: A PLACEBO-CONTROLLED RANDOMIZED TRIAL

Juan C. Villar[1], Eliana Váquiro-Herrera[2], Skarlet M. Vásquez[3], Víctor M. Herrera[3], Mario J. Olivera[4], Juan D. Ramirez[5], Adelina R. Riarte[6]

[1]Universidad Autónoma de Bucaramanga and Fundación Cardioinfantil - Instituto de Cardiología, Bogotá, Colombia, [2]Fundación Cardioinfantil - Instituto de Cardiología, Bogotá, Colombia, [3]Universidad Autónoma de Bucaramanga, Bucaramanga, Colombia, [4]Instituto Nacional de Salud, Bogotá, Colombia, [5]Universidad del Rosario, Bogotá, Colombia, [6]Instituto Nacional de Parasitología "Mario Fatala Chabén", Buenos Aires, Argentina

11:15 a.m. 456

IN HOUSE ENZYME LINKED IMMUNOSORBENT ASSAY (ELISA) AS A SENSITIVE DIAGNOSTIC TOOL OF CUTANEOUS LEISHMANIASIS CAUSED BY LEISHMANIA DONOVANI

H.S.B. Piyasiri[1], T.N. Samaranayake[1], N.H. Silva[1], N. Manamperi[2], N.D. Karunaweera[1]

[1]Department of Parasitology, Faculty of Medicine, University of Colombo, Colombo, Sri Lanka, [2]Department of Parasitology, Faculty of Medicine, University of Kelaniya, Kelaniya, Sri Lanka

(ACMCIP Abstract)

Scientific Session 49

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Protozoans - Molecular and Cellular Biology

Meeting Room 3

Friday, November 19

10:15 a.m. - Noon U.S. Eastern Time Zone

SUPPORTED WITH FUNDING FROM THE BURROUGHS WELLCOME FUND

CHAIR

Michael Ferdig
University of Notre Dame, Notre Dame, IN, United States

Charisse Flerida A. Pasaje
Massachusetts Institute of Technology, Cambridge, MA, United States

10:15 a.m. 1402

A KINASE THAT COORDINATES NUCLEAR ABSCISSION IN THE MALARIA PARASITE PLASMODIUM FALCIPARUM

Benjamin Scott Liffner, S. Absalon
Indiana University School of Medicine, Indianapolis, IN, United States

10:25 a.m. 1403

IDENTIFICATION OF NEW RHOPTRY SECRETION FACTORS IN TOXOPLASMA USING THE CILIATE TETRAHYMENA

Daniela Sparvoli[1], Jason Delabre[1], Justine Heckendorn[1], Lev M. Tsypin[2], Diana Penarete-Vargas[1], Marjorie Maynadier[1], Marta Mendonça Cova[1], Aaron P. Turkewitz[2], Maryse Lebrun[1]

[1]Université de Montpellier, Montpellier, France, [2]University of Chicago, Chicago, IL, United States

10:35 a.m. 1404

ACTIN ORGANIZATION AND DYNAMICS IN MOTILE TOXOPLASMA GONDII PARASITES

Christina Hueschen[1], Li-av Segev Zarko[1], Jian-Hua Chen[2], Mark LeGros[3], Carolyn Larabell[3], John Boothroyd[1], Rob Phillips[4], Alexander R. Dunn[1]
[1]Stanford University, Palo Alto, CA, United States, [2]University of California San Francisco, Palo Alto, CA, United States, [3]University of California San Francisco, San Francisco, CA, United States, [4]California Institute of Technology, Pasadena, CA, United States

10:45 a.m. 457

FUNCTIONAL GENETICS TO CHARACTERIZE THE *PLASMODIUM FALCIPARUM* ACETYL-COA SYNTHETASE AND DISCOVER TARGET-SPECIFIC INHIBITORS

Charisse Flerida A. Pasaje[1], Robert L. Summers[2], Amanda K. Lukens[2], Manu Vanaerschot[3], James Murithi[3], Thomas Hollin[4], Steven Abel[4], Madeline R. Ruth[5], Sabine Ottilie[5], Cyrille Botté[6], Elizabeth A. Winzeler[5], Karine Le Roch[4], David A. Fidock[3], Dyann F. Wirth[2], Jacquin C. Niles[1]
[1]Massachusetts Institute of Technology, Cambridge, MA, United States, [2]Harvard T.H. Chan School of Public Health, Boston, MA, United States, [3]Columbia University Irving Medical Center, New York, New York, NY, United States, [4]University of California, Riverside, Riverside, CA, United States, [5]University of California, San Diego, San Diego, CA, United States, [6]Institute for Advanced Biosciences, Université Grenoble Alpes, Grenoble, France

(ACMCIP Abstract)

10:55 a.m. 458

GETTING IN SHAPE: A NEW PROTEIN COMPLEX REQUIRED FOR MALARIA BLOOD-STAGE PARASITE FORMATION

James Blauwkamp, Sabrina Absalon
Indiana University School of Medicine, Indianapolis, IN, United States

(ACMCIP Abstract)

11:05 a.m. 459

GENETIC ABLATION OF SEX-SPECIFIC TRANSCRIPTION FACTORS INCRYPTOSPORIDIUM: DISSECTING THE REGULATORY PATHWAYS OF SEXUAL DEVELOPMENT AND REPRODUCTION

Katelyn A. Walzer, Jayesh Tandel, Jessica H. Byerly, Jodi A. Gullicksrud, Elise Krespan, Daniel P. Beiting, Boris Striepen
University of Pennsylvania, Philadelphia, PA, United States

(ACMCIP Abstract)

11:15 a.m. 460

PLASMODIUM FALCIPARUM UTILIZES TWO CRITICAL BUT DISTINCT MEMBRANE FUSOGENS FOR GAMETE FERTILIZATION

Sudhir Kumar[1], Clari Valansi[2], Meseret T. Haile[1], Xiaohui Li[2], Biley A. Abatiyow[1], Amanda S. Leeb[1], Nelly M. Camargo[1], Ashley M. Vaughan[1], Benjamin Podbilewicz[2], Stefan H. Kappe[1]
[1]Seattle Children's Research Institute, Seattle, WA, United States, [2]Israel Institute of Technology, Haifa, Israel

Scientific Session 50

Global Health: Maternal, Newborn and Child Health

Meeting Room 4
Friday, November 19,
10:15 a.m. – Noon U.S. Eastern Time Zone

CHAIR

Haleluya Leulseged
College of Health and Medical Sciences, Haramaya University, Harar, Ethiopia

Michael Wimberly
University of Oklahoma, Norman, OK, United States

10:15 a.m. 461

CAUSES OF STILLBIRTHS IN SUB-SAHARAN AFRICA AND SOUTH ASIA FINDINGS FROM THE CHAMPS STUDY

Afruna Rahman[1], Kyu Han Lee[2], Md. Atique Iqbal Chowdhury[1], Shams El Arifeen[1], Adama Mamby Keita[3], Samba Sow[3], Milagritos D Tapia[4], Ashka Mehta[4], Karen Kotloff[4], Shabir Madhi[5], Sana Mahtab[5], Portia Mutevedzi[5], Bukiwe Nana Thwala[5], Ikechukwu Ogbuanu[6], Solomon Samura[7], Erick Kaluma[7], Christopher Mugah[8], Solomon Sava[9], Elizabeth Oele[9], Richard Omore[10], Aggrey K. Igunza[8], Inacio Mandomando[11], Quique Bassat[12], Sara Ajanovic[13], Rosauro Varo[14], Antonio Sitoe[13], Nega Assefa[15], Anthony Scott[16], Lola Madrid[17], Melisachew Mulatu[18], Fikremelekot Temesgen[19], Cynthia Whitney[20], Cynthia Whitney[20], Dianna M. Blau[21], Robert F. Breiman[20], Robert F. Breiman[20], Betsy Dewey[20], Lucy Liu[20], Emily Gurley[22]
[1]icddr,b, Dhaka, Bangladesh, [2]Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [3]Centre pour le Développement des Vaccins (CVD-Mali), Ministère de la Santé, Bamako, Mali, [4]Center for Vaccine Development and Global Health, University of Maryland School of Medicine, Baltimore, MD, United States, [5]MRC Vaccines and Infectious Diseases Analytics (VIDA) Research Unit, Johannesburg, South Africa, [6]Crown Agents, Freetown, Sierra Leone, [7]World Hope International, Makeni, Sierra Leone, [8]Kenya Medical Research Institute (KEMRI), Kisumu, Kenya, [9]Kisumu County of Department of Health, Kisumu, Kenya, [10]Kenya Medical Research Institute, Center for Global Health Research (KEMRI-CGHR), Kisumu, Kenya, [11]Centro de Investigação em Saúde de Manhiça [CISM], Maputo, Mozambique; Instituto Nacional de Saúde [INS], Maputo, Mozambique, [12]ISGlobal - Hospital Clínic, Unversitat de Barcelona, Barcelona, Spain; Centro de Investigação em Saúde de Manhiça [CISM], Maputo, Mozambique; Institutó Catalana de Recerca I Estudis Avançats [ICREA], Barcelona, Spain; Pediatrics Department, Ho, Maputo, Mozambique, [13]ISGlobal - Hospital Clínic, Unversitat de Barcelona, Barcelona, Spain, [14]ISGlobal - Hospital Clínic, Unversitat de Barcelona, Barcelona, Spain; Centro de Investigação em Saúde de Manhiça [CISM], Maputo, Mozambique, [15]College of Health and Medical Sciences, Haramaya University, Harar, Ethiopia, [16]Department of Infectious Disease Epidemiology, London School of Hygiene & Tropical Medicine, London, United Kingdom, [17]College of Health and Medical Sciences, Haramaya University, Harar, Ethiopia; Department of Infectious Disease Epidemiology, London School of Hygiene & Tropical Medicine, London, United Kingdom, [18]Ayder Specialized Comprehensive Hospital, Mekelle University, Mekele, Ethiopia, [19]Addis Ababa University, Addis Ababa, Ethiopia, [20]Emory Global Health Institute, Emory University, Atlanta, GA, United States, [21]Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States, [22]icddr,b, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

10:25 a.m. 462

ETIOLOGY OF DEATH AMONG INFANTS AND CHILDREN ENROLLED THROUGH THE MULTISITE CHILD HEALTH AND MORTALITY PREVENTION SURVEILLANCE (CHAMPS) NETWORK

Quique Bassat[1], Ikechukwu Ogbuanu[2], Samba Sow[3], Adama Mamby Keita[3], Milagritos Tapia[4], Ashka Mehta[4], Karen Kotloff[4], Afruna Rahman[5], Kazi Munisul Islam[5], Muntasir Alam[5], Shams El Arifeen[5], Emily Gurley[6], Shabir Madhi[7], Portia Mutevedzi[7], Sana Mahtab[7], Bukiwe Nana Thwala[7], Vicky Baillie[8], Beth A. Tippett Barr[9], Dickens Onyango[10], Victor Akelo[9], Emily Rogena[11], Peter Onyango[12], Inacio Mandomando[13], Sara Ajanovic[1], Rosauro Varo[1], Antonio Sitoe[14], Nega Assefa[15], J. Anthony G. Scott[16], Lola Madrid[16], Tseyon Tesfaye[17], Yadeta Dessie[17], Robert F. Breiman[18], Cynthia G. Whitney[18], DIanna M. Blau[19]

[1]ISGlobal, Barcelona, Spain, [2]Crown Agents, Freetown, Sierra Leone, [3]Centre pour le Développement des Vaccins (CVD-Mali), Bamako, Mali, [4]Center for Vaccine Development and Global Health, University of Maryland School of Medicine, Baltimore, MD, United States, [5]International Center for Diarrhoeal Diseases Research (icddr,b), Dhaka, Bangladesh, [6]Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [7]MRC Vaccines and Infectious Diseases Analytics (VIDA) Research Unit, Johannesburg, South Africa, [8]MRC Vaccines and Infectious Diseases Analytics (VIDA) Research Unit,, Johannesburg, South Africa, [9]US Centers for Disease Control and Prevention–Kenya, Kisumu, Kenya, [10]Kisumu County Department of Health, Kisumu, Kenya, [11]Jomo Kenyatta University Of Agriculture And Technology, Juja, Kenya, [12]Kenya Medical Research Institute (KEMRI), Kisumu, Kenya, [13]Centro de Investigação em Saúde de Manhiça [CISM, Maputo, Mozambique, [14]Centro de Investigação em Saúde de Manhiça [CISM], Maputo, Mozambique, [15]ISGlobal College of Health and Medical Sciences, Haramaya University, Harar, Ethiopia, [16]London School of Hygiene & Tropical Medicine, London, United Kingdom, [17]College of Health and Medical Sciences, Haramaya University, Harar, Ethiopia, [18]Emory University, Atlanta, GA, United States, [19]Centers for Disease Control and Prevention, Atlanta, GA, United States

10:35 a.m. 463

COST-BENEFIT ANALYSIS OF FOUR-PANEL RAPID SCREENING IN ANTENATAL CARE IN THREE COUNTRIES IN SUB-SAHARAN AFRICA

Donald S. Shepard[1], Katharine R. Rowlands[1], Maria Kulchyckyj[1], Robert K. Basaza[2], Emmanuel D. Otieno[3], Simon K. Kariuki[4], Sabine F. Musange[5]

[1]Brandeis University, Waltham, MA, United States, [2]Uganda Christian University, Mukono, Uganda, [3]Bugema University, Kampala, Uganda, [4]Kenya Medical Research Institute, Kisian, Kenya, [5]National University of Rwanda School of Public Health, Kigali, Rwanda

10:45 a.m. 464

DISTANCE MATTERS: BARRIERS TO ANTENATAL CARE AND SAFE CHILDBIRTH IN A MIGRANT POPULATION ON THE THAILAND-MYANMAR BORDER FROM 2007-2015, A PREGNANCY COHORT STUDY

Eric Steinbrook[1], Myo Chit Min[2], Ladda Kajeechiwa[2], Jacher Wiladphaingern[2], Moo Kho Paw[2], MuPawJay Pimanpanarak[2], Woranit Hiranloetthanyakit[2], Aung Myat Min[2], Nay Win Tun[2], Mary Ellen Gilder[2], François Nosten[2], Rose McGready[2], Daniel M. Parker[2]

[1]University of Michigan Medical School, Ann Arbor, MI, United States, [2]Shoklo Malaria Research Unit, Mae Sot, Thailand

10:55 a.m. 465

TWIN PREGNANCIES: HIGH RISK OF PERINATAL DEATH, PRETERM BIRTHS, AND MATERNAL COMPLICATIONS IN RURAL BANGLADESH

Kyu Han Lee[1], Shahana Parveen[2], Mohammad Z. Hossain[2], Atique I. Chowdhury[2], Solveig A. Cunningham[3], Dianna Blau[4], Qazi S. Rahman[2], Kazi M. Islam[2], Sanwarul Bari[2], Shams E. Arifeen[2], Emily S. Gurley[1]

[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]icddr,b, Dhaka, Bangladesh, [3]Emory University, Atlanta, GA, United States, [4]Centers for Disease Control and Prevention, Atlanta, GA, United States

11:05 a.m. 466

HIGH BURDEN OF NEURAL TUBE DEFECTS IN EASTERN HARAGHE, ETHIOPIA: INITIAL FINDINGS FROM CHILD HEALTH AND MORTALITY PREVENTION SURVEILLANCE

Haleluya Leulseged[1], Tseyon Tesfaye[1], Tadesse Dufera[1], Tadesse Gure[1], Addisu Alemu[1], Yunus Edris[1], Nega Assefa[1], Lola Madrid[2]

[1]College of Health and Medical Sciences, Haramaya University, Harar, Ethiopia, [2]London School of Hygiene & Tropical Medicine, London, United Kingdom

11:15 a.m. 467

SUSTAINABLE PALM WEEVIL FARMING TO ADDRESS FOOD INSECURITY AND INCOME GENERATION AT MATERNITY WAITING HOMES IN LIBERIA: A PROOF OF CONCEPT PROJECT EVALUATION

Jacob Paarechuga Anankware[1], Joseph E. Perosky[2], Alphonso Kofa[3]

[1]University of Energy and Natural Resources, Sunyani, Ghana, [2]Spectrum Health, Department of Obstetrics and Gynecology, Michigan State University College of Human Medicine, East Lansing, MI, United States, [3]Bong County Health Team, Bong County, Liberia

Scientific Session 51

SARS-CoV-2

Meeting Room 5
Friday, November 19
10:15 a.m. - Noon U.S. Eastern Time Zone

CHAIR

Mary Petrone
Yale School of Public Health, New Haven, CT, United States

Sofia A. Casares
Naval Medical Research Center, Silver Spring, MD, United States

10:15 a.m. 468

HUMAN-IMMUNE-SYSTEM HUMANIZED DRAGA MICE AS SURROGATE *IN VIVO* HUMAN MODEL FOR COVID-19 RESEARCH AND GENERATION OF THERAPEUTIC HUMAN MONOCLONAL ANTIBODIES

Sofia A. Casares[1], Ahmad Karim[1], Teodor Brumeanu[2], Pooja Vir[2], Kathleen Pratt[2], Kevin Chung[2], Swagata Kar[3]

[1]Naval Medical Research Center, Silver Spring, MD, United States, [2]Uniformed Services University of Health Sciences, Bethesda, MD, United States, [3]BioQual Inc, Rockville, MD, United States

10:25 a.m. 469

THE SARS-COV-2 SPIKE GLYCOPROTEIN INDUCES EPITHELIAL AND ENDOTHELIAL BARRIER DYSFUNCTION AND VASCULAR LEAK INDEPENDENTLY OF ACE2

Francielle T. Gomes de Sousa[1], Scott B. Biering[1], Trishna Patel[1], Sophie Blanc[1], Dustin Glasner[2], Nicholas Lo[1], Marcus Wong[1], Victoria Ortega[3], Charles Chiu[2], Hector Aguilar[3], John Pak[4], Robert Beatty[1], Eva Harris[1]

[1]Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, [2]Department of Laboratory Medicine, University of California, San Francisco, San Francisco, CA, United States, [3]Department of Microbiology and Immunology, College of Veterinary Medicine, Cornell University, Ithaca, NY, United States, [4]Chan Zuckerberg Biohub, San Francisco, CA, United States

10:35 a.m. 470

GENOME-WIDE, BIDIRECTIONAL CRISPR SCREENS IDENTIFY MUCINS AS CRITICAL MODULATORS OF SARS-COV-2 INFECTION

Scott B. Biering[1], Sylvia Sarnik[2], Eleanor Wang[2], Varun Sathyan[2], Xammy Nguyenla[1], James Zengel[3], Erik Van Dis[1], Livia Yamashiro[1], Jinyoung Kim[4], Douglas Fox[1], Jan Carette[3], Sarah Stanley[1], Silvana Konermann[5], Eva Harris[1], Patrick Hsu[2]
[1]Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, [2]Department of Bioengineering, College of Engineering, University of California, Berkeley, Berkeley, CA, United States, [3]Department of Microbiology and Immunology, School of Medicine, Stanford University, Stanford, CA, United States, [4]Division of Biochemistry, Biophysics and Structural Biology, Department of Molecular and Cell Biology, University of California, Berkeley, Berkeley, CA, United States, [5]Department of Biochemistry, School of Medicine, Stanford University, Stanford, CA, United States

10:45 a.m. 471

COMPARATIVE PHYLODYNAMICS OF SARS-COV-2 VARIANTS IN THE NORTHEAST UNITED STATES

Mary Petrone[1], Mallery Breban[1], Isabel Ott[1], Tara Alpert[1], Rebecca Earnest[1], Annie Watkins[1], Jessica Rothman[1], Chaney Kalinich[1], Anderson Brito[1], Steven Murphy[2], Caleb Neal[2], Marie Landry[3], Kaya Bilguvar[4], Curt Scharfe[4], Mark Adams[5], Joseph Fauver[1], Chantal Vogels[1], Nathan Grubaugh[1]
[1]Yale School of Public Health, New Haven, CT, United States, [2]Murphy Medical Associates, Greenwich, CT, United States, [3]Yale School of Medicine, New Haven, CT, United States, [4]Yale Center for Genome Analysis, New Haven, CT, United States, [5]Jackson Laboratories, Farmington, CT, United States

10:55 a.m. 472

COMPREHENSIVE MUTAGENESIS OF SARS-COV-2 S PROTEIN TO MAP ANTIBODY EPITOPES AND IDENTIFY RESIDES ESSENTIAL FOR FUNCTION

Edgar Davidson[1], Ariadna Grinyo[1], Mallorie E. Fouch[1], Jazmean K. Williams[1], Christopher N. Selverian[1], Zhiqiang An[2], James E. Crowe[3], Benjamin J. Doranz[1]
[1]Integral Molecular, Inc., Philadelphia, PA, United States, [2]Texas Therapeutics Institute, University of Texas Health Science Center, Houston, TX, United States, [3]Vanderbilt Vaccine Center, Vanderbilt University, Nashville, TN, United States

11:05 a.m. 473

ORACOV, AN ORAL, SELF-ADMINISTERED, ROOM TEMPERATURE STABLE, TRIPLE ANTIGEN SARS-COV-2 VACCINE AND AN APPROACH TO VACCINES AGAINST OTHER EMERGING INFECTIOUS DISEASES

B. Kim Lee Sim[1], Ehud Inbar[2], Tint T. Wai[1], Sumana Chakravarty[2], Minglin Li[1], Lixin Gao[1], Henry Huang[2], Natasha KC[1], Eric R. James[2], Stephen L. Hoffman[2]
[1]Protein Potential, LLC., Rockville, MD, United States, [2]Sanaria Inc., Rockville, MD, United States

11:15 a.m. 474

EPIDEMICS OF CHIKUNGUNYA, ZIKA, AND COVID-19 IN NICARAGUAN COHORT STUDIES REVEAL BIAS IN CASE-BASED MAPPING

Fausto A. Bustos Carrillo[1], Brenda Lopez Mercado[2], Jairo Monterrey[2], Damaris Collado[2], Tatiana Miranda[2], Sergio Ojeda[2], Nery Sanchez[2], Miguel Plazaola[2], Harold Suazo Laguna[2], Douglas Elizondo[2], Sonia Arguello[2], Saira Saborio[2], Anna Gajewski[2], Hannah Maier[3], Krista Latta[3], Bradley Carlson[3], Josefina Coloma[1], Leah Katzelnick[1], Hugh Sturrock[4], Angel Balmaseda[2], Guillermina Kuan[5], Aubree Gordon[3], Eva Harris[1]
[1]Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, [2]Sustainable Sciences Institute, Managua, Nicaragua, [3]Department of Epidemiology, School of Public Health, University of Michigan, Ann Arbor, Ann Arbor, MI, United States, [4]Locational, Poole, United Kingdom, [5]Centro de Salud Socrates Flores Vivas, Ministry of Health, Managua, Nicaragua

Symposium 52

Trials of Malaria Vaccines in Pregnant Women

Meeting Room 6
Friday, November 19
10:15 a.m. – Noon U.S. Eastern Time Zone

Pregnant women are highly susceptible to *Plasmodium falciparum* malaria, leading to substantial maternal, perinatal, and infant mortality; as many as 50,000 maternal deaths and 200,000 stillbirths have been attributed to malaria in pregnancy in Africa annually. While malaria vaccine development in general has made significant progress, no trials of malaria vaccines have been conducted in pregnant women. However, substantial progress has been made in the field of maternal immunization for other infectious diseases in recent years, and the evolving regulatory and ethical environment all support a new emphasis on testing malaria vaccines that offer direct benefits to pregnant women. While pregnancy malaria-specific vaccines can target antigens such as VAR2CSA that are expressed by the parasites that sequester in the human placenta, any protective malaria vaccine might be considered for an indication during pregnancy, depending on its safety profile. Testing malaria vaccines in pregnant women has special requirements. After initial safety and immunogenicity studies of malaria vaccines in non-pregnant adult volunteers, efficacy trials involving pregnant women will be conducted in malaria-endemic and often resource-poor environments where sufficiently high malaria incidence will allow vaccine efficacy to be measured. Such trials will need to meet all international standards to ensure the safety of mother and offspring, under oversight of appropriate ethical and regulatory bodies. Baseline information on maternal and fetal outcomes at the study site are needed as a context for evaluating vaccine safety during a trial in pregnant women. This symposium will report on recent progress in the effort to develop and test malaria vaccines for pregnant women, with the first maternal immunization trials scheduled to start in Mali in the coming year.

CHAIR

Patrick E. Duffy
Laboratory of Malaria Immunology and Vaccinology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

Alassane Dicko
University of Science Techniques and Technologies, Bamako, MS, Mali

10:15 a.m.
INTRODUCTION

10:25 a.m.
PROTECTING PREGNANT WOMEN THROUGH PARTICIPATION IN VACCINE TRIALS
Blair J. Wylie
Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA, United States

10:50 a.m.
PREGNANCY REGISTRY: PREPARING A SITE FOR VACCINE TRIALS IN PREGNANT WOMEN
Michal Fried
Laboratory of Malaria Immunology and Vaccinology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

11:15 a.m.
TRIALS OF PFSPZ VACCINE IN PREGNANT WOMEN
Halimatou Diawara
University of Science Techniques and Technologies, Bamako, Mali

11:40 a.m.
PROGRESS WITH TESTING AND DESIGN OF VAR2CSA VACCINES
Morten Nielsen
University of Copenhagen, Copenhagen, Denmark

Symposium 53

Lesbian, Gay, Bisexual, Transgender, Intersex and Queer (LGBTIQ) Health in Low- and Middle-Income Countries and Displaced Populations: The Struggle for Global Health Equity

Meeting Room 7
Friday, November 19
10:15 a.m. – Noon U.S. Eastern Time Zone

The WHO's constitution, and many other international human rights treaties, consistently state the "highest attainable standard of health" as a fundamental human right. Yet, the lesbian, gay, bisexual, transgender, intersex, and queer (LGBTIQ) community continues to face inequities in access to health around the world. These health inequities are rendered largely invisible by an underrepresentation and systemic exclusion of LGBTIQ issues in global health forums, and especially LGBTIQ health in low- and middle-income countries (LMIC). Exclusion from the right to health on the basis of sexual orientation and/or gender identity significantly contributes to the global burden of disease: LGBTIQ individuals carry a disproportionate burden of HIV and other STIs, and increased rates of depression, substance abuse, and suicidal ideation. In high disease burden settings, such as most LMICs, marginalization and criminalization of LGBTIQ populations results in serious health and human rights disparities. In addition to persecution and violence in their countries of origin, many LGBTIQ refugees and asylum seekers experience further harm and human rights abuse throughout the displacement cycle. LGBTIQ communities face unique barriers to healthcare including denial of care or substandard care due to stigma and discrimination; avoidance of health services for fear of harassment, breach of confidentiality, forced procedures, criminalization, and/or violence; and inadequate understanding or respect for specific healthcare needs of LGBTIQ individuals. Rights for LGBTIQ populations are often least available in regions with the least resources, and therefore the burden of stigma, violence, and disease is higher in these areas. Research, advocacy, and engagement of scientists and policy makers are necessary to address and reduce health disparities for this vulnerable population. This symposium will highlight a neglected facet of global health equity and its impact on public health. Specifically, speakers will address unique barriers and facilitators of care for transgender people, specific health considerations for LGBTIQ people in displacement, and the effect of criminalizing same-sex conduct on access to rights, including the fundamental right to health.

CHAIR
Andrea M. Weckman
University of Toronto, Toronto, ON, Canada
David M. Vu
Stanford University, Palo Alto, CA, United States

10:15 a.m. - 10:20 a.m.
INTRODUCTION

10:25 a.m.
BARRIERS AND FACILITATORS OF CARE FOR TRANSGENDER WOMEN IN SOUTH AFRICA
Tonia Poteat
University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

10:50 a.m.
INVISIBLE PERSONS OF CONCERN: HEALTH CONSIDERATIONS FOR LGBTIQ+ PERSONS IN DISPLACEMENT
Gabriel Schirvar
International Organization for Migration (IOM), Washington, DC, United States

11:15 a.m.
USING LEGAL AID TO ENHANCE ACCESS TO HEALTH FOR LGBT PERSONS IN KENYA
Eric M. Gitari
Harvard University, Cambridge, MA, United States

11:40 a.m.
MODERATED DISCUSSION
David M. Vu
Stanford University, Palo Alto, CA, United States

Scientific Session 54

Arthropods: Other Arthropods

Meeting Room 8
Friday, November 19
10:15 a.m. - Noon U.S. Eastern Time Zone

CHAIR

Geoffrey M. Attardo
University of California, Davis, Davis, CA, United States

Adriana Troyo
University of Costa Rica, San Jose, Costa Rica

10:15 a.m. 475

CAPPABLE-SEQ REVEALS PROLIFIC NON-CANONICAL TRANSCRIPTION START SITES IN WOLBACHIA STRAINS WMELPOP-CLA AND WALBB UNDER STRESS CONDITIONS

Youseuf Suliman[1], Zhiru Li[2], Amit Sinha[2], Philip D. Dyer[1], Catherine S. Hartley[1], Laurence Ettwiller[2], Alistair C. Darby[1], Clotilde K. Carlow[2], **Benjamin L. Makepeace**[1]
[1]University of Liverpool, Liverpool, United Kingdom, [2]New England Biolabs, Ipswich, MA, United States

10:25 a.m. 476

MATING STIMULI CAUSE DRAMATIC CHANGES IN THE FEMALE TSETSE FLY (GLOSSINA MORSITANS) REPRODUCTIVE TRACT AT THE LEVELS OF GENE EXPRESSION, BIOCHEMISTRY AND MORPHOLOGY

Geoffrey M. Attardo[1], Irene Rossi[2], Davide Carraretto[2], Francesca Scolari[2], Ludvik Gomulski[2], Serap Aksoy[3], Anna Malacrida[2]
[1]University of California, Davis, Davis, CA, United States, [2]University of Pavia, Pavia, Italy, [3]Yale University, New Haven, CT, United States

10:35 a.m. 477

B-TRIKETONES, A NEXT GENERATION SCABICIDE?

Nirupama Abeysekara Nammunige[1], Kylie Agnew-Francis[2], Deepani D. Fernando[1], Sara Taylor[1], Hieng Lu[1], Craig Williams[2], Robin Gasser[3], Katja Fischer[1]
[1]Queensland Institute of Medical Research Berghofer, Herston, Australia, [2]University of Queensland, Queensland, Australia, [3]University of Melbourne, Melbourne, Australia

10:45 a.m. 478

ABAMETAPIR - A POTENTIAL SINGLE DOSE SCABICIDE WITH OVICIDAL ACTIVITY.

Gangi R. Samarawickrama[1], Deepani D. Fernando[1], Hieng C. Lu[1], Sara Taylor[1], Gunter Hartel[2], Robin B. Gasser[3], Vern M. Bowels[4], Katja Fischer[1]
[1]QIMR Berghofer Medical Research Institute, Brisbane, Australia, [2]Statistics Unit, QIMR Berghofer Medical Research Institute, Brisbane, Australia, [3]Faculty of Veterinary Science and Agricultural Sciences, The University of Melbourne, Melbourne, Australia, [4]Centre for Animal Biotechnology, The University of Melbourne, Melbourne, Australia

10:55 a.m. 479

COMPARTMENTALIZATION AND EFFECT OF TRYPANOSOMA CRUZI INFECTION ON THE GUT MICROBIOTA OF TRIATOMA DIMIDIATA

Juan Carlos Cambronero-Heinrichs[1], Johan Alvarado-Ocampo[1], Keilor Rojas-Jimenez[1], Diego Rojas-Gätjens[2], Max Chavarria[2], Randall Loaiza[2], Monica Baizan[2], Olger Calderon-Arguedas[1], Adriana Troyo-Rodriguez[1]
[1]University of Costa Rica, San Jose, Costa Rica, [2]CENIBiot, San Jose, Costa Rica

11:05 a.m. 480

EVALUATION OF ENDEMIC AND EPIDEMIC STRAINS OF VESICULAR STOMATITIS VIRUS INFECTION IN CULICOIDES SONORENSISMIDGES

Paula Rozo-Lopez[1], Steve Pauszek[2], Luiz L. Rodriguez[2], Yoonseong Park[1], Barbara S. Drolet[3]
[1]Kansas State University, Manhattan, KS, United States, [2]United States Department of Agriculture, Orient Point, NY, United States, [3]United States Department of Agriculture, Manhattan, KS, United States

11:15 a.m. 481

EMERGING ENTOMOLOGICAL EVIDENCE OF INCREASED CUTANEOUS LEISHMANIASIS BURDEN IN SRI LANKA

R.W.C. Kalpani Kumarasiri[1], S.A.S.C. Senanayaka[2], D. Sunil Shantha[2], B.G.D.N.K. De Silva[3], N. D. Karunaweera[2]
[1]Postgraduate Institute of Medicine, University of Colombo, Colombo, Sri Lanka, [2]Department of Parasitology, Faculty of Medicine, University of Colombo, Sri Lanka, Colombo, Sri Lanka, [3]Department of Zoology, Faculty of Applied Sciences, University of Sri Jayawardanapura, Sri Lanka, Colombo, Sri Lanka

Late-Breaker Abstract Session 55

Late-Breakers in Clinical and Applied Sciences

Meeting Room 9
Friday, November 19
10:15 a.m. - 11:30 a.m. U.S. Eastern Time Zone

This session is specifically designed for brief presentations of new data obtained after the closing date for abstract submission. See the Meeting App or Late-Breaker Abstract Presentation Schedule booklet (available online) for the presentation schedule.

CHAIR

Miguel Cabada
University of Texas Medical Branch, Galveston, TX, United States

Jason D. Maguire
Pfizer, White Plains, NY, United States

Scientific Session 56

Filariasis – Clinical and Immunology

Meeting Room 10
Friday, November 19
10:15 a.m. – Noon U.S. Eastern Time Zone

CHAIR

Sasisekhar Bennuru
National Institutes of Health, Bethesda, MD, United States

Louise A. Kelly-Hope
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

10:15 a.m. **482**

INFRARED THERMAL IMAGING AS A NOVEL NON-INVASIVE POINT-OF-CARE TOOL TO ASSESS FILARIAL LYMPHOEDEMA AND THE IMPACT OF SELF-CARE INTERVENTIONS IN ENDEMIC AREAS OF BANGLADESH, ETHIOPIA, AND MALAWI

Louise A. Kelly-Hope[1], John Chiphwanya[2], Fikre Hailekiros[3], Mohammad Jahirul Karim[4], ASM Sultan Mahmood[4], Abdullah Al Kawsar[4], Abul Khair[4], Mossie Tamiru[5], Fikre Seife[5], Dorothy E. Matipula[2], Limbikani Chaponda[2], Carrie Barrett[1], Hannah Betts[1], Janet Douglass[1], Armelle Forrer[1], Mark J. Taylor[1]
[1]Centre for Neglected Tropical Diseases, Department of Tropical Disease Biology, Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [2]Ministry of Health, Lilongwe, Malawi, [3]National Podoconiosis Action Network, Addis Ababa, Ethiopia, [4]Ministry of Health and Family Welfare, Dhaka, Bangladesh, [5]Federal Ministry of Health, Addis Ababa, Ethiopia

10:25 a.m. **483**

POPULATION PHARMACOKINETICS OF IVERMECTIN IN LYMPHATIC FILARIASIS PATIENTS AND HEALTHY INDIVIDUALS

Abdullah M. Alshehri[1], Yashpal S. Chhonker[1], Veenu Bala[1], Constant Edi[2], Catherine M. Bjerum[3], Benjamin G. Koudou[4], Christopher L. King[3], Daryl J. Murry[1]
[1]Dept of Pharmacy Practice and Science, University of Nebraska Medical Center, Omaha, NE, United States, [2]Centre Suisse de Recherche Scientifique en Côte d'Ivoire, Abidjan, Côte D'Ivoire, [3]Center for Global Health and Diseases, Case Western Reserve University School of Medicine, Cleveland, OH, United States, [4]Université Nangui Abrogoua, Abidjan, Côte D'Ivoire

10:35 a.m. **484**

ILC2 CELLS MEDIATE RESISTANCE TO LITOMOSOIDES SIGMODONTIS INFECTION

Julia J. Reichwald, Anna Lena Neumann, Frederic Risch, Johanna F. Scheunemann, Alexandra Ehrens, Wiebke Strutz, Beatrix Schumak, Achim Hoerauf, **Marc P. Hübner**
University Hospital Bonn, Bonn, Germany

(ACMCIP Abstract)

10:45 a.m. **485**

ADJUVANTED RECOMBINANT FUSION PROTEIN VACCINE INDUCES DURABLE AND PROTECTIVE IMMUNITY TO LARVAL ONCHOCERCA VOLVULUS IN MICE

Nathan M. Ryan[1], Jessica A. Hess[1], Darrick Carter[2], Sean A. Gray[2], Erica J. Robertson[1], Nikolai Petrovsky[3], Bin Zhan[4], Maria Elena Bottazzi[4], Benjamin L. Makepeace[5], Sarah Lustigman[6], David Abraham[1]
[1]Thomas Jefferson University, Philadelphia, PA, United States, [2]PAI Life Sciences Inc., Seattle, WA, United States, [3]Vaxine Pty Ltd, Flinders University, Adelaide, Australia, [4]Baylor College of Medicine & Texas Children's Hospital Center for Vaccine Development, Houston, TX, United States, [5]University of Liverpool, Liverpool, United Kingdom, [6]New York Blood Center, New York, NY, United States

(ACMCIP Abstract)

10:55 a.m. **486**

IMMUNIZATION WITH CO-ADMINISTERED ONCHOCERCA VOLVULUS103 AND RAL-2 VACCINE ANTIGENS REDUCES INFECTION IN A NATURAL BOVINE ONCHOCERCA OCHENGI INFECTION MODEL

Lisa Luu[1], John Graham-Brown[1], Bin Zhan[2], Ndode Herman Okah-Nnane[3], Nicolas Bayang Houli[4], Bernard Viban Tangwa[3], Rene Ayiseh[5], Glory MBah[3], Maria Elena Bottazzi[2], David Abraham[6], Germanus Soh Bah[3], Vincent Tanya[3], Sara Lustigman[7], Benjamin Makepeace[1]
[1]Institute of Infection Biology, Veterinary and Ecological Sciences, Liverpool, United Kingdom, [2]Baylor College of Medicine, Houston, TX, United States, [3]L'Institut de Recherche Agricole Pour le Développement, Yaounde, Cameroon, [4]3L'Institut de Recherche Agricole Pour le Développeme, Yaounde, Cameroon, [5]University of Buea, Buea, Cameroon, [6]Thomas Jefferson University, Philadelphia, PA, United States, [7]New York Blood Center, New York, NY, United States

(ACMCIP Abstract)

11:05 a.m. **487**

A PROMISING NEW SEROLOGIC TEST FOR EVALUATING THE SUCCESS OF ELIMINATION PROGRAMS FOR BANCROFTIAN FILARIASIS

Sarah E. Greene[1], Kurt Curtis[1], Christopher King[2], Peter Fischer[1], Gary Weil[1]
[1]Washington University in St Louis, Saint Louis, MO, United States, [2]Case Western Reserve University, Cleveland, OH, United States

(ACMCIP Abstract)

11:15 a.m. **488**

POTENTIAL USE OF ANTIBODIES TO PROVIDE AN EARLIER INDICATION OF LYMPHATIC FILARIASIS RESURGENCE IN POST-MASS DRUG ADMINISTRATION SURVEILLANCE, AMERICAN SAMOA

Angela M. Cadavid Restrepo[1], Katherine Gass[2], Kimberly Y. Won[3], Keri Robinson[3], Meru Sheel[4], Saipale Fuimaono[5], Patricia M. Graves[6], Colleen L. Lau[1]
[1]School of Public Health, Faculty of Medicine, The University of Queensland, Brisbane, QLD, Australia, [2]Neglected Tropical Diseases Support Center, Task Force for Global Heath, Decatur, GA, United States, [3]Centers for Disease Control and Prevention, Division of Parasitic Diseases and Malaria, Atlanta, GA, United States, [4]Research School of Population Health, College of Health and Medicine, The Australian National University, Canberra, ACT, Australia, [5]American Samoa Department of Health, Pago Pago, American Samoa, [6]College of Public Health, Medical and Veterinary Sciences, James Cook University, Cairns, QLD, Australia

Symposium 57

Alan J. Magill Malaria Eradication Symposium: Keeping Malaria Eliminations on Track: The Successes and Challenges on the Pathway to Eradication

Meeting Room 11
Friday, November 19
10:15 a.m. – Noon U.S. Eastern Time Zone

Supported with funding from The Bill & Melinda Gates Foundation

This annual symposium honors the life and work of ASTMH Past President Alan Magill, who at the time of his untimely death in 2015 was promoting the bold goal of global malaria eradication in his role as the Malaria Director at the Bill & Melinda Gates Foundation. The symposium brings leaders in the malaria field together to summarize the challenges and advances in areas of relevance to the malaria elimination and eradication effort. This year the symposium will focus on how malaria elimination programs are making progress toward the objective of eradication by sharing the successes to date as well as the strategies employed to achieve those goals. The panel will also discuss the challenges which may hamper elimination progress (to include the ongoing COVID-19 pandemic), and how to translate these into opportunities and regain the momentum.

CHAIR

Michele Spring
Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand

Philip Welkhoff
Bill & Melinda Gates Foundation, Seattle, WA, United States

10:15 a.m.
WELCOME
Julie Jacobson
Bridges to Development, Seattle, WA, United States

10:30 a.m.
MALARIA ELIMINATION IN THE AMERICAS: PROGRESS, STATUS AND CHALLENGES
María Eugenia Grillet
Central University of Venezuela, Caracas, Bolivarian Republic of Venezuela

10:50 a.m.
KEEPING MALARIA ELIMINATIONS ON TRACK: THE SUCCESSES AND CHALLENGES ON THE PATHWAY TO ERADICATION
Rajesh Panjabi
President's Malaria Initiative, Washington, DC, United States

11:10 a.m.
PERSEVERING THROUGH PANDEMICS AND RE-IMAGINING THE PATH THAT WILL GET US TO ZERO
Corine Karema
Infectious Diseases Prevention and Control, Quality and Equity Healthcare, Kigali, Rwanda

11:30 a.m.
SPEAKER
Pedro Alonso
World Health Organization, Geneva, Switzerland

Poster Session 58

Poster Session B
Virtual Meeting Platform - Poster Hall
Friday, **November** 19
Noon - 1:30 p.m. U.S. Eastern Time Zone

Poster Session B Directory

Global Health - Information/Communication/Technologies Solutions in Global Health including Modeling: 489-501
Global Health – Other: 502-512
Global Health - Security/Emerging Infection Preparedness, Surveillance and Response(s): 513-531
Arthropods/Entomology – Other: 532-545
Mosquitoes - Insecticide Resistance and Control: 546-556
Mosquitoes - Vector Biology-Epidemiology: 557-571
Flaviviridae – Dengue: 572-584
Flaviviridae – Other: 585-598
Flaviviridae - West Nile: 599-601
Viruses – Other: 602-618
Malaria – Diagnosis: 619-632
Malaria - Drug Development - Clinical Trials: 633-642
Malaria - Drug Development - Preclinical Studies: 643-644
Malaria – Epidemiology: 645- 666
Malaria - Genetics/Genomics: 667-677
Malaria – Immunology: 678-687
Malaria – Modeling: 688-699
Malaria – Operational: 700-717
Malaria – Prevention: 718-729
Malaria - Strategies for Elimination: 730-739
Malaria - Vector Control: 740-757
Cestodes - Echinococcosis/Hydatid disease: 758-761
Cestodes - Taeniasis and Cysticercosis: 762-772
Clinical Tropical Medicine: 773-787
Integrated Control Measures for Neglected Tropical Diseases (NTDs): 788-798
One Health: Interface Of Human Health/Animal Diseases: 799-807
Pneumonia, Respiratory Infections and Tuberculosis: 808-817
Protozoa - Ameba/Giardia: 818
Protozoa - Other Protozoa: 819-822
Water, Sanitation, Hygiene and Environmental Health: 823-837

Global Health - Information/ Communication/Technologies Solutions in Global Health including Modeling

489

DETECTION OF CLINICALLY RELEVANT CHANGES IN COUGH PATTERNS USING ARTIFICIAL INTELLIGENCE

Juan Carlos Gabaldon[1], Joe Brew[2], Dominique Dore[3], Nita Umashankar[4], Juliane Chaccour[1], Virginia Orrillo[5], Lai Y. Tsang[6], Alejandro Fernandez-Montero[1], Isabel Blavia[5], Javier Bartolomé[7], Simon Grandjean Lapierre[8], Carlos Chaccour[9]
[1]Clinica Universidad de Navarra, Pamplona, Spain, [2]Hyfe Inc, Wilmington, DE, United States, [3]Centre de Recherche du Centre Hospitalier de l'Université de Montreal, Montreal, QC, Canada, [4]San Diego State University, San Diego, CA, United States, [5]Universidad de Navarra, Pamplona, Spain, [6]Stony Brook University, Stony Brook, NY, United States, [7]Servicio Navarro de Salud- Osasunbidea, Zizur Mayor, Spain, [8]Université de Montréal, Montréal, QC, Canada, [9]Instituto de Salud Global de Barcelona, Barcelona, Spain

490

DEVELOPMENT AND EVALUATION OF MOTOMEDS: A PEDIATRIC TELEMEDICINE AND MEDICATION DELIVERY SERVICE FOR RESOURCE-LIMITED SETTINGS

Molly Klarman[1], Youseline Cajusma[1], Lerby Exantus[2], Katelyn E. Flaherty[1], Valery Madsen Beau de Rochars[1], Torben K. Becker[1], Chantale Baril[2], Eric J. Nelson[1]
[1]University of Florida, Gainesville, FL, United States, [2]Faculté de Médecine et de Pharmacie - Université d'Etat d'Haïti, Port au Prince, Haiti

491

IS E-LEARNING EFFECTIVE AT IMPROVING KNOWLEDGE OF MALARIA AMONG HEALTH WORKERS COMPARED TO TRADITIONAL TRAINING? RESULTS FROM A PRAGMATIC ASSESSMENT IN ANGOLA, 2020-2021

Jose Franco Martins[1], **Benjamin Nieto-Andrade**[2], Rukaaka Mugizi[2], Sarah M. Labuda[3], Joana L. Do Rosario[4], Admilde Jose[2], Derson Andrade[5], Pedro Beirao[5], Elisa Miguel[1], Christopher Lourenco[6], Anya Fedorova[2]
[1]National Malaria Control Program / Angola, Luanda, Angola, [2]Population Services International / Angola, Luanda, Angola, [3]President's Malaria Initiative, Centers for Disease Control and Prevention/Angola, Luanda, Angola, [4]President's Malaria Initiative, United States Agency for International Development/Angola, Luanda, Angola, [5]Appy People, Luanda, Angola, [6]Population Services International / Washington, Washington, DC, United States

492

IMPACTS OF MASS NUTRITIONAL SUPPLEMENTATION ON DYNAMICS OF MEASLES: A SIMULATION STUDY

Navideh Noori[1], Laura A. Skrip[2], Assaf P. Oron[1], Benjamin M. Althouse[1], Indi Trehan[3], Kevin P. Phelan[4]
[1]Institute for Disease Modeling, Global Health, Bill & Melinda Gates Foundation, Seattle, WA, United States, [2]University of Liberia, Monrovia, Liberia, [3]University of Washington, Seattle, WA, United States, [4]Alliance for International Medical Action, Paris, France

493

IMPACT OF VACCINATION AND NON-PHARMACEUTICAL INTERVENTIONS ON SARS-COV-2 DYNAMICS IN SWITZERLAND

Andrew J. Shattock, **Epke A. Le Rutte**, Robert P. Dünner, Swapnoleena Sen, Sherrie L. Kelly, Nakul Chitnis, Melissa A. Penny
Swiss Tropical and Public Health Institute, Basel, Switzerland

494

COVID-19 TREATMENTS SOLD ONLINE WITHOUT PRESCRIPTION REQUIREMENTS - A GLOBAL CONCERN

Sachiko Ozawa, Joanna Billings, Catherine Sun, Sushan Yu, Benjamin Penley
University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

495

EFFECTIVENESS OF SOCIAL MEDIA-BASED INTERVENTIONS FOR HEALTH BEHAVIOR CHANGE IN LOW- AND MIDDLE-INCOME COUNTRIES: A SYSTEMATIC REVIEW

Jessie Seiler[1], Tanya Libby[1], Emahlea Jackson[1], Jairam Lingappa[1], Sohail Agha[2], W. Douglas Evans[3]
[1]University of Washington, Seattle, WA, United States, [2]Bill & Melinda Gates Foundation, Seattle, WA, United States, [3]The George Washington University, Washington, DC, DC, United States

496

SUPPLY CHAIN DATA-TO-ACTION FOR IMPROVED MALARIA COMMODITY AVAILABILITY IN LAO PDR

Soutthongkham Sitthideth[1], Rose Martersteck[2], Manisai Khounsombat[1], Phengdavanh Inthavongtham[3], Lauren Theis[2], Phonephet Butphomvihane[4], Garrett Young[2], Chanthalone Khamkong[1], Viengxay Vanisaveth[1]
[1]Center for Malaria, Parasitology and Entomology (CMPE), Vientiane, Lao People's Democratic Republic, [2]Clinton Health Access Initiative (CHAI), Vientiane, Lao People's Democratic Republic, [3]Regional Artemisinin-resistance Initiative 3 Elimination (RAI3E), Vientiane, Lao People's Democratic Republic, [4]World Health Organization (WHO), Vientiane, Lao People's Democratic Republic

497

DIGITALLY ENABLED CLINICAL TRIALS IS SUB SAHARAN AFRICA READY TO GO

Eric Ipyn Nebie[1], Jürg Utzinger[2], Christian Burri[2]
[1]National Institute of Public Health/Centre de Recherche en Sante de Nouna, Nouna, Burkina Faso, [2]Swiss TPH, University of Basel, Basel, Switzerland

498

COMPARING THE ROI OF TECHNOLOGIES FOR DETECTING POOR QUALITY AMOXICILLIN: A KENYA CASE STUDY

Colleen R. Higgins, Betty Kobia, Sachiko Ozawa
University of North Carolina Chapel Hill, Chapel Hill, NC, United States

499

EXCESSIVE SEEPAGE DURING MITS PROCEDURE: AN EXPLORATIVE STUDY TO IDENTIFY THE UNDERLYING CAUSES

Rajib Biswas[1], Mohammad Zahid Hossain[1], Kazi Munisul Islam[1], Mohammad Sabbir Ahmed[1], Sanwarul Bari[1], Shams El Arifeen[1], Emily S. Gurley[2]
[1]International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, [2]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

500

MACHINE LEARNING-BASED PREDICTION OF CLINICAL OUTCOMES FOR CHILDREN USING LINKED ELECTRONIC HEALTH RECORDS IN MANHIÇA DISTRICT, MOZAMBIQUE

Sham Lal[1], Marta Valente[2], Oliver Baerenbold[1], Justina Bramugy[3], Sara Ajanovic[2], Teodimiro Matsena[3], Chrissy H. Roberts[1], Quique Bassat[2]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]ISGlobal, Hospital Clínic - Universitat de Barcelona, Barcelona, Spain, [3]Centro de Investigação em Saúde de Manhiça (CISM), Maputo, Mozambique

501

KAP COVID CASE STUDY: MASKS, BELIEFS, AND VACCINE ACCEPTANCE - GLOBAL DISSEMINATION OF COVID BEHAVIORS

Jeni Stolow[1], Stella Babalola[2], Dean Eckles[3], Tamer Farag[4], Nina Gobat[5], Susan Krenn[6], Avichal Mahajan[7], Elizabeth Serlemitsos[6], Marla Shaivitz[6], Dominick Shattuck[6]
[1]Temple University, Philadelphia, PA, United States, [2]Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States, [3]Massachusetts Institute of Technology Sloan School of Management, Cambridge, MA, United States, [4]Facebook, Menlo Park, CA, United States, [5]University of Oxford, Oxford, United Kingdom, [6]John Hopkins Center for Communications Programming, Baltimore, MD, United States, [7]World Health Organization, Geneva, Switzerland

Global Health – Other

502

A PROCESS OF SETTING UP TUBERCULOSIS RESEARCH PRIORITIES AT A NATIONAL SCALE IN ZIMBABWE THROUGH THE NATIONAL TUBERCULOSIS PROGRAM

Nokuthula Samantha Tozivepi[1], Collins Timire[2], Wietske Mushonga[3], Charles Sandy[2], Kudakwashe Collin Takarinda[2], Elton Mugomeri[3], Fadzai Naomi Mukora-Mutseyekwa[1]
[1]Africa University Clinical Research Centre, Mutare, Zimbabwe, [2]Ministry of Health and Child Care, National AIDS & TB Program, Harare, Zimbabwe, [3]Africa University Department of Health Sciences, Mutare, Zimbabwe

503

MAJOR DEPRESSIVE DISORDER SCREENING AMONG LATIN AMERICAN IMMIGRANTS AND REFUGEES IN FLORIDA DURING COVID-19

Norman L. Beatty[1], Rodrigo Alcala[2], Nelson A. Luque[2], Laura M. Velez[2], Paola A. Trejo[2], Austin P. White[2], Maria C. Carrasquilla[2], Nicole G. Bender[3], Kaci D. McCoy[3], Joshua Latner[4], Omkar Betageri[4], Jessica Portillo[4], Jonathan G. Harrell[5], Colin J. Forsyth[6], Rhoel R. Dinglasan[3]
[1]University of Florida College of Medicine, Department of Medicine, Division of Infectious Diseases and Global Medicine, Gainesville, FL, United States, [2]University of Florida College of Medicine, Gainesville, FL, United States, [3]University of Florida Emerging Pathogens Institute, Gainesville, FL, United States, [4]University of Florida College of Medicine, Department of Medicine, Gainesville, FL, United States, [5]University of Florida College of Medicine, Department of Community Health & Family Medicine, Gainesville, FL, United States, [6]Drugs for Neglected Diseases Initiative, New York City, NY, United States

504

THE ASSOCIATION THAT GENDER ROLES HAVE WITH HEALTH SEEKING BEHAVIOR FOR WOMEN IN KENYA, TANZANIA, AND UGANDA

Gloria N. Nabbosa[1], Sandra D. Lane[2], Brittany L. Kmush[1]
[1]Syracuse University, Syracuse, NY, United States, [2]Laura J. & L. Douglas Meredith Professor of Public Health & Anthropology Research Professor Obstetrics & Gynecology Upstate Medical University, Syracuse, NY, United States

505

ANTIBIOTIC ENTANGLEMENTS. HEALTH, LABOUR AND EVERYDAY LIFE IN AN URBAN INFORMAL SETTLEMENT IN KAMPALA, UGANDA

Christine Nabirye[1], Laurie Denyer-Willis Denyer-Willis[2], Susan Nayiga[1], Miriam Kayendeke[1], Sarah G. Staedke[3], Clare I. Chandler[3]
[1]Infectious Diseases Research Collaboration, Kampala, Uganda, [2]University of Edinburgh, Edinburgh, United Kingdom, [3]London School of Hygiene & Tropical Medicine, London, United Kingdom, London, United Kingdom

506

PRELIMINARY FINDINGS FROM A POINT PREVALENCE SURVEY OF ANTIMICROBIAL USE AT THREE RURAL DISTRICT HOSPITALS IN RWANDA

Sandra Urusaro[1], Carol Mugabo[1], Mariella Munyuzangabo[1], Marthe Yankurije[1], Alphonse Nshimiryo[1], Saidath Gato[1], Regis F. Uwizeye[1], Christian Mpazimpaka[1], Cyprien Shyirambere[1], Emmanuel Kayitare[2], Jean de Dieu Gatete[1], Grace Umutesi[3], **Fredrick Kateera**[1]

[1]Partners In Health, Kigali, Rwanda, [2]Butaro District Hospital, Ministry of Health, Burera, Rwanda, [3]University of Washington, Seattle, WA, United States

507

PRENATAL ALCOHOL USE KNOWLEDGE AND OUTCOMES IN LEYTE, THE PHILIPPINES

Spencer C. Darveau[1], Alice M. Huang[1], Matthew N. Neale[1], Marianne J. Sagliba[2], Amabelle J. Moreno[2], Maria Paz G. Urbina[2], Veronica Tallo[3], Emily A. McDonald[4], Mario A. Jiz[3], Jennifer F. Friedman[5]

[1]The Warren Alpert Medical School of Brown University, Providence, RI, United States, [2]Research Institute for Tropical Medicine - Palo Satellite Laboratory, Palo, Leyte, Philippines, [3]Research Institute for Tropical Medicine, Manila, Philippines, [4]Center for International Health Research at Rhode Island Hospital, Providence, RI, United States, [5]Department of Pediatrics, The Warren Alpert Medical School of Brown University, Providence, RI, United States

508

EXPERIENCE OF THAI RESIDENTS DURING THE FIRST WAVE OF THE COVID-19 PANDEMIC: A QUALITATIVE STUDY

Bhensri Naemiratch[1], Tassawan Poomchaichote[1], Supanat Ruangkajorn[1], Anne Osterrieder[2], Mira Leonie Schneiders[2], Wirichada Pan-ngum[3], **Phaik Yeong Cheah**[1]

[1]Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand, [2]University of Oxford, Oxford, United Kingdom, [3]Mahidol University, Bangkok, Thailand

509

EFFECTS OF CORONAVIRUS PANDEMIC ON HEALTH SEEKING BEHAVIORS OF YOUNG ADULTS IN UGANDA

Judith Nalukwago[1], Bolanle Olapeju[1], Pallen Mugabe[1], Anna Passaniti[1], Isaac Musoke[1], Musa Kimbowa[1], Brian Asiimwe[1], Emmanuel Kayongo[1], Ruth Musekura[1], Lyndsey Mitchum[1], Arzum Ciloglu[1], Leanne Wolfe[1], Glory Mkandawire[1], Richard Kabanda[2], Joel Kisubi[3], Frank Kaharuza[4], Sheila Nyakwezi[4], Douglas Storey[1]

[1]Johns Hopkins Center for Communication Programs, Baltimore, MD, United States, [2]Ministry of Health, Uganda, Kampala, Uganda, [3]US President's Malaria Initiative, United States Agency for International Development (USAID), Uganda, Kampala, Uganda, [4]United States Agency for International Development Uganda, Kampala, Uganda

510

KNOWLEDGE, ATTITUDE AND PRACTICE OF COMMUNITY-ORIENTED RESOURCE PERSONS (CORPS) ON COVID 19 IN NIGER AND KEBBI STATES, NIGERIA: A RAPID ASSESSMENT

Emmanuel I. Taribo

Malaria Consortium, Minna, Nigeria

511

HANDS-ONLY CPR TRAINING PROGRAM OF SECONDARY SCHOOL STUDENTS IN IBADAN, NIGERIA: PILOTING COMBINATION VIRTUAL AND IN-PERSON LEARNING

Bolanle Akinyele[1], Oluwaseyi Bolorunduro[2], Olufunso Odunukan[3], **William R. Brieger**[1]

[1]The Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]Revolving Hearts Foundation, Atlanta, GA, United States, [3]Revolving Hearts Foundation, Atlamta, GA, United States

512

MAKING THE CONNECTIONS: ORGANIZATIONAL NETWORK MAPPING TO SUPPORT IMPLEMENTATION OF AN EVIDENCE-BASED CONTROL INTERVENTION FOR CYSTICERCOSIS IN NORTHERN PERU

Angela G. Spencer[1], Lisset Dumet Poma[1], Ruth Atto[2], Vanessa Cruz[2], Percy Vilchez[2], Brenda Beltran[1], Javier Bustos[2], Hector H. Garcia[3], Sarah Gimbel[4], Patricia J. Garcia[5], Seth E. O'Neal[6]

[1]School of Public Health, Oregon Health & Science University - Portland State University, Portland, OR, United States, [2]Center for Global Health Tumbes, Universidad Peruana Cayetano Heredia, Lima, Peru, [3]Center for Global Health - Tumbes and Department of Microbiology, Universidad Peruana Cayetano Heredia, and Cysticercosis Unit, Instituto Nacional de Ciencias Neurologicas, Lima, Peru, [4]Department of Global Health, University of Washington, Seattle, WA, USA and Department of Child, Family & Population Health Nursing, University of Washington, Seattle, WA, United States, [5]School of Public Health, Universidad Peruana Cayetano Heredia, Lima, Peru, [6]School of Public Health, Oregon Health & Science University - Portland State University, Portland, OR, USA and Center for Global Health Tumbes, Universidad Peruana Cayetano Heredia, Lima, Perú, Portland, OR, United States

513

TRENDS IN MORTALITY AND PERCEIVED CAUSE OF DEATH IN KERSA HEALTH AND DEMOGRAPHIC SURVEILLANCE SYSTEM, 2008-2019, EASTERN ETHIOPIA

Nega A. Kassa[1], Gezahegn Mengesha[1], Merga Dheresa[1], Solveig A. Cunningham[2]

[1]Haramaya University, Harar, Ethiopia, [2]Emory Global Health Institute, Emory University, Atlanta, GA, United States

514

NEW CONFIRMED EBOLA OUTBREAK IN NORD KIVU, DEMOCRATIC REPUBLIC OF CONGO, FEBRUARY 2021

Eddy Kinganda Lusamaki[1], Catherine B. Pratt[2], Daniel B. Mukadi[3], Adrienne Aziza Amuri[1], Shannon Whitmer[4], Emmanuel Lofiko Lokilo[1], Jean-Claude Cigolo Makangara[1], Francisca Muyembe Mawete[1], Osee Yibayiri[4], Michael Wiley[2], Placide Mbala Kingebeni[1], John Klena[4], Steve AHUKA MUNDEKE[1], Joel Montgomery[4], Jean Jacques Tamfum Muyembe[1], Stuart Nichol[4]

[1]Institut National de Recherche Biomédicale, Kinshasa, Democratic Republic of the Congo, [2]University of Nebraska Medical Center, Omaha, NE, United States, [3]Institut National de Recherche Biomédicale, Goma, Democratic Republic of the Congo, [4]Viral Special Pathogens Branch, Centers for Diseases Control and Prevention, Atlanta, GA, United States

515

CAUSE-SPECIFIC UNDER-FIVE MORTALITY IN SUB-SAHARAN AFRICA AND SOUTH ASIA: ADJUSTMENT FOR SELECTIVE NON-RESPONSE BIAS IN THE CHAMPS NETWORK

Kartavya J. Vyas[1], Cynthia G. Whitney[1], Dianna M. Blau[2], Robert H. Lyles[3], Solveig A. Cunningham[1], Robert F. Breiman[3], Betsy C. Dewey[1], Shams El Arifeen[4], Emily S. Gurley[5], Atique Iqbal Chowdhury[4], Qazi S. Rahman[4], Kyu Han Lee[5], J. Anthony G. Scott[6], Nega Assefa[7], Lola Madrid[7], Merga Dheresa[7], Zerihun Girma[7], Beth A. Tippett Barr[8], Victor Akelo[8], David Obor[9], Dickson Gethi[9], Samba Sow[10], Karen L. Kotloff[11], Milagritos D. Tapia[11], Uma U. Onwuchekwa[10], Ashka Mehta[11], Inacio M. Mandomando[12], Quique Bassat[12], Ariel Nhacolo[12], Chafurdin Sacoor[12], Ikechukwu Ogbuanu[13], Erick Kaluma[13], Ellen Jones[13], Shabir A. Madhi[14], Portia Mutevedzi[14], Sana Mahtab[14], Nellie Myburgh[14]

[1]Emory Global Health Institute, Atlanta, GA, United States, [2]Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]Emory University Rollins School of Public Health, Atlanta, GA, United States, [4]International Center for Diarrhoeal Diseases Research, Dhaka, Bangladesh, [5]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [6]London School of Hygiene & Tropical Medicine, London, United Kingdom, [7]Haramaya University, Harar, Ethiopia, [8]Centers for Disease Control and Prevention, Kisumu, Kenya, [9]Kenya Medical Research Institute, Kisumu, Kenya, [10]Ministère de la Santé, Bamako, Mali, [11]University of Maryland School of Medicine, Baltimore, MD, United States, [12]Centro de Investigação em Saúde de Manhiça, Maputo, Mozambique, [13]Crown Agents, Freetown, Sierra Leone, [14]Vaccine and Infectious Diseases Analytics, Johannesburg, South Africa

516

YEAST-LIKE FUNGI ASSOCIATED WITH CHILD DEATH AND ILLNESS IN BANGLADESH: FINDINGS FROM CHILD HEALTH AND MORTALITY PREVENTION SURVEILLANCE STUDY

Shafina Jahan[1], M Ishrat Jahan[1], Mustafizur Rahman[1], Afruna Rahman[1], Sanwarul Bari[1], Kyu Han Lee[2], Emily S. Gurley[2], Shams El Arifeen[1], Muntasir Alam[1]
[1]icddr,b, Dhaka, Bangladesh, [2]Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

517

COVID-19 SURVEILLANCE IN THE SOUTHERN PROVINCE OF SRI LANKA

W. M. D. G. B. Wijayaratne[1], S. Gunasena[1], A. de S. Nagahawatte[1], N. P. Weerasinghe[1], L. G. Tillekeratne[2], B. Nicholson[3], C. Woods[2], N. Danthanarayana[4], D. T. Mahaliyanage[1], S. S. Wickramasinghe[1], H. H. P. M. J. Thabrew[1], D. L. B. Piyasiri[4], D. Priyanthi[5], R. Lewkebandara[6], H. A. Ubeysekara[4], C. K. Bodinayake[1], I. V. Devasiri[1], T. S. D. Amarasena[1]
[1]University of Ruhuna, Sri Lanka, Galle, Sri Lanka, [2]Duke University, Durham, NC, United States, [3]VA Medical Center, Durham, NC, United States, [4]Teaching Hospital Karapitiya, Galle, Sri Lanka, [5]District General Hospital, Matara, Sri Lanka, [6]District General Hospital, Hambantota, Sri Lanka

518

PHYSICAL ACCESSIBILITY TO COVID-19 RELATED HEALTH SERVICES ANALYSIS IN BANGLADESH

Richard J. Maude[1], Afrida Asad[1], Izay Pantanilla[2], Md Nurullah[1], Obaidur Rahman[1], Sazid Ibna Zaman[1], Steeve Ebener[2]
[1]Mahidol-Oxford Tropical Medicine Research Unit, Bangkok, Thailand, [2]Health GeoLab Collaborative, Manila, Philippines

519

DETECTION OF SARS-COV-2 CASES IN A PHILIPPINE MILITARY HOSPITAL

Paula Corazon Diones[1], John Mark Velasco[2], Valderama Maria Theresa[1], Susie Leonardia[1], Vicente Vila II[3], Chermane Ugalino[3], Ruzzelle Mae Paras[3], Stefan Fernandez[2], Anthony Jones[2], Fatima Claire Navarro[3], Henry Tabinas Jr.[3], Maria Theresa Alera[4]
[1]Philippines-AFRIMS Virology Research Unit, Quezon City, Philippines, [2]Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, [3]Victoriano Luna Medical Center, Quezon City, Philippines, [4]Philippines-AFRIMS Virology Research Unit, Cebu City, Philippines

520

IMPACT OF THE COVID-19 PANDEMIC AND ASSOCIATED RESTRICTIONS DURING THE FIRST WAVE ON MATERNAL AND CHILD HEALTHCARE PROVIDED AT FACILITIES IN RURAL BALIAKANDI, BANGLADESH

Kazi Munisul Islam[1], Mohammad Zahid Hossain[1], Mohammad Sabbir Ahmed[1], S A M Safiur Rahman[1], Fahamida N. Zebin[1], Sanwarul Bari[1], Shams El Arifeen[1], Emily S. Gurley[2]
[1]International Center for Diarrhoeal Dsease Research Bangladesh, Dhaka, Bangladesh, [2]John Hopkins University, USA, Baltimore, MD, United States

521

USING EMERGENCY OPERATIONS CENTERS TO SUPPORT THE COVID-19 RESPONSE: CREATION OF AN ONLINE RESOURCE FOR SELF-DIRECTED TRAINING AND TECHNICAL ASSISTANCE

Claire J. Standley, James A. Banaski, Brenna Means, Ileana Vélez Alvarado, Ryan Remmel
Georgetown University, Washington, DC, United States

522

A NOVEL APPROACH TO PUBLIC HEALTH PREPAREDNESS FOR SARS-COV-2: A STATE WIDE REPRESENTATIVE SAMPLING

Lidia Gual Gonzalez[1], Virginie Daguise[2], Windsor Westbrook Sherrill[3], Alain H. Litwin[4], Mufaro Kanyangarara[1], Mary K. Lynn[1], Jeffrey Korte[5], Connor H. Ross[2], Melissa S. Nolan[1]
[1]University of South Carolina, Columbia, SC, United States, [2]South Carolina Department of Health and Environmental Control, Columbia, SC, United States, [3]Clemson University, Clemson, SC, United States, [4]Prisma Health, Greenville, SC, United States, [5]Medical University of South Carolina, Charleston, SC, United States

523

LESSONS LEARNED : OCCUPATIONAL HEALTH SUPPORT TO GLOBAL PROJECTS FOR SAFETY AND BUSINESS CONTINUITY DURING COVID-19 PANDEMIC

Kees de Rooij[1], Susan Ngunjiri[2]
[1]ExxonMobil, Centraal Kantoor Benelux, Breda, Netherlands, [2]ExxonMobil, Houston, TX, United States

524

SEROPREVALENCE OF SARS-COV-2 AMONG MEDICAL UNDERGRADUATES IN A STATE UNIVERSITY OF SRI LANKA

N. P. Weerasinghe[1], S. Gunasena[1], W. M. D. G. B. Wijayaratne[1], A. de S. Nagahawatte[1], L. G. Tillekeratne[2], B. Nicholson[3], S. S. Wickramasinghe[1], H. M. M. Herath[1], C. Woods[2], M. D. Pathirana[1], D. Mahaliyanage[1], H. A. Ubeysekara[4], H. H. P. M. J. Thabrew[1], R. Handunnetti[1], C. K. Bodinayake[1], I. V. Devasiri[1], T. S. D. Amarasena[1]
[1]Faculty of Medicine, University of Ruhuna, Sri Lanka, Galle, Sri Lanka, [2]Duke University, Durham, NC, United States, [3]VA Medical Center, Durham, NC, United States, [4]Teaching Hospital Karapitiya, Galle, Sri Lanka

525

RAPID IDENTIFICATION OF INFECTIOUS AGENTS IN HUMAN PLASMA WITH LASER-BASED DIAGNOSTICS

Carolyn Fisher[1], Rosalie Multari[2], David Cremers[2], Ann Nelson[2], Robert Duncan[1]
[1]FDA Center for Biologics Evaluation and Research, Silver Spring, MD, United States, [2]Creative LIBS Solutions LLC, Bernalillo, NM, United States

526

DEPLOYMENT OF A REMOTE FIELD SEQUENCING LABORATORY IN NORD KIVU : A PREPAREDNESS STRATEGY FOR BETTER MANAGEMENT OF FUTURE OUTBREAKS IN THE DEMOCRATIC REPUBLIC OF CONGO

Jean Claude C. Makangara[1], Adrienne A. Amuri[1], Eddy L. Kinganda[1], Emmanuel L. Lokilo[1], Francisca M. Muyembe[1], Shannon Whitmer[2], John Klena[2], Christopher Mores[3], Yibayiri O. Sanogo[2], Joel M. Montgomery[2], Catherine Pratt[4], Michael Wiley[4], Nichol T. Stuart[2], Bill & Melinda Gates Foundation[5], Daniel B. Mukadi[1], Placide K. Mbala[1], Steve Ahuka-Mundeke[1], Jean Jacques T. Muyembe[1]
[1]National Institute for Biomedical Research, INRB, KINSHASA, Democratic Republic of the Congo, [2]Viral Special Pathogens Branch, Centers for Diseases Control and Prevention, Atlanta, GA, United States, [3]Georges Washington University, Washington, WA, United States, [4]University of Nebraska Medical Center, Omaha, NE, United States, [5]Bill & Melinda Gate Foundation, Seattle, WA, United States

527

FINANCIAL ANALYSIS TO INFORM PROGRAMMATIC DECISION MAKING AND DOMESTIC RESOURCE MOBILIZATION FOR NTDS

Justin Tine[1], Marie Sy[2], Margot Feroleto[2]
[1]FHI 360, Accra, Ghana, [2]Deloitte Consulting, Arlington, VA, United States

528

INTRODUCING A SPATIAL SYNDROMIC SURVEILLANCE APPROACH TO IDENTIFY EMERGENT CLUSTERS OF COVID 19

Andrew Curtis, Jayakrishnan Ajayakumar, Jacqueline Curtis
Case Western Reserve University, Cleveland, OH, United States

529

BUILDING CAPACITY ON INFECTION, PREVENTION AND CONTROL (IPC) IN HEALTHCARE SETTINGS DURING THE COVID-19 PANDEMIC IN BANGLADESH

Mst. Farhana Akter, Jebun Nessa Rahman, Amany Ayub
Management Sciences for Health, Dhaka, Bangladesh

530

A CONTINUOUS, SCALABLE SEROSURVEILLANCE PLATFORM TO MONITOR EXPOSURE TO PATHOGENS AND IDENTIFY HEALTH DISPARITIES USING ELECTRONIC HEALTH RECORDS

Isobel Routledge, Adrienne Epstein, Saki Takahashi, Owen Janson, Jill Hakim, Elias Duarte, Keirstine Turcios, Joanna Vinden, Jesus Rangel, Marcelina Coh, Lee Besana, Wai-Kit Ho, Ching-Ying Oon, Chui Mei Ong, Cassandra Yun, Kara Lynch, Alan H. Wu, Wesley Wu, Edward Thornborrow, William Karlon, John Pak, Michael Peluso, Timothy Henrich, Jessica Briggs, Bryan Greenhouse, Isabel Rodriguez-Barranquer
University of California San Francisco, San Francisco, CA, United States

531

EPIDEMIOLOGY OF INFLUENZA IN GHANA: 2011-2019

Terrel Sanders[1], Ivy Asante[1], Anne Fox[1], Eric Behene[1], Naiki Attram[1], Shirley Nimo-Paintsil[1], Andrew Letizia[1], Chaselynn Watters[1], William Ampofo[2]
[1]NAMRU-3, Marion, SC, United States, [2]NMIMR, Marion, SC, United States

Arthropods/Entomology – Other:

532

A SYSTEMATIC LITERATURE REVIEW AND META-ANALYSIS OF THE SEROPREVALENCE AND SPATIAL DISTRIBUTION OF MEDICALLY IMPORTANT TICK-BORNE DISEASES (TBDS) IN EAST AFRICA (1901-2020)

Fatima Jaradat[1], Arisa Kano[1], Alexander Potter[2], David B. Pecor[2], Michael von Fricken[1], Dawn Zimmerman[3], Katherine Mertes[4], Yvonne-Marie Linton[2]
[1]George Mason University, Fairfax, VA, United States, [2]Walter Reed Biosystematics Unit (WRBU), Smithsonian Institution Museum Support Center, Suitland, MD, United States, [3]Global Health Program, Smithsonian's National Zoological Park and Conservation Biology Institute, Washington, DC, United States, [4]Conservation Ecology Center, Smithsonian's National Zoological Park and Conservation Biology Institute, Front Royal, VA, United States

533

DOCUMENTING TICK AND TICK-BORNE DISEASE DISTRIBUTIONS IN EAST AFRICA THROUGH ADVANCED SYSTEMATIC LITERATURE SEARCHES

Mary F. Kearney[1], Michael von Fricken[2], David B. Pecor[3], Alexander Potter[3], Alec G. Richardson[3], Graham Matulis[4], Stephanie Mitchell[5], Rachel N. Wofford[4], Fatima Jaradat[4], Arisa Kano[4], Dawn Zimmerman[6], Katherine Mertes[7], James Hassell[8], Yvonee-Marie Linton[3]
[1]University of Michigan School of Public Health, Ann Arbor, MI, United States, [2]George Mason University, College of Health and Human Services, Fairfax, VA; Global Health Program, Smithsonian's National Zoological Park and Conservation Biology Institute, Washington DC, USA, Washington, DC, United States, [3]Walter Reed Biosystematics Unit (WRBU), Smithsonian Institution Museum Support Center, Suitland, MD, USA; Department of Entomology, Walter Reed Army Institute of Research, Silver Spring, MD USA; Smithsonian Institution–National Museum of Natural History, Washington, DC, United States, [4]George Mason University, College of Health and Human Services, Fairfax, VA, United States, [5]Center for Species Survival, Smithsonian National Zoological Park & Conservation Bio Institute, Washington, DC; The Univ of California Berkeley, School of Public Health, Berkley, CA; Dept of Epidemiology of Microbial Disease, Yale School of Public Health, New Haven, MI, United States, [6]Global Health Program, Smithsonian's National Zoological Park and Conservation Biology Institute, Washington, DC, USA; Center for Species Survival (Nutrition Program), Smithsonian's National Zoological Park and Conservation Biology Institute, Washington, DC, United States, [7]Global Health Program, Smithsonian's National Zoological Park and Conservation Biology Institute, Washington, DC, United States, [8]Global Health Program, Smithsonian's National Zoological Park and Conservation Biology Institute, Washington, DC, USA; Center for Species Survival (Nutrition Program), Smithsonian's National Zoological Park and Conservation Biology Institute, Washington, DC, United States

534

TICKS AND TICK-BORNE DISEASE THREATS OF KENYA

Mary F. Kearney[1], Michael von Fricken[2], Graham Matulis[3], David B. Pecor[4], Alexander Potter[4], Alec G. Richardson[4], Maureen Kamau[5], Dawn Zimmerman[6], James Hassell[6], Yvonee-Marie Linton[4]
[1]University of Michigan School of Public Health, Ann Arbor, MI, United States, [2]George Mason University, College of Health and Human Services, Fairfax, VA; Global Health Program, Smithsonian's National Zoological Park and Conservation Biology Institute, Washington DC, USA, Washington, DC, United States, [3]George Mason University, College of Health and Human Services, Fairfax, VA, United States, [4]Walter Reed Biosystematics Unit (WRBU), Smithsonian Institution Museum Support Center, Suitland, MD, USA; Department of Entomology, Walter Reed Army Institute of Research, Silver Spring, MD USA; Smithsonian Institution–National Museum of Natural History, Washington, DC, United States, [5]Mpala Research Center, Laikipia, Kenya, [6]Global Health Program, Smithsonian's National Zoological Park and Conservation Biology Institute, Washington, DC, USA; Center for Species Survival (Nutrition Program), Smithsonian's National Zoological Park and Conservation Biology Institute, Washington, DC, United States

535

FIRST RECORD OF THE GENUS CULICOIDES (DIPTERA: CERATOPOGONIDAE) IN CHIHUAHUA, NORTHWEST MEXICO: A STUDY OF DNA BARCODE, HUMAN-LANDING RATE, ARBOVIRUS DETECTION, AND PUBLIC HEALTH IMPORTANCE OF *CULICOIDES FURENS*

Javier A. Garza-Hernandez[1], Stephanie V. Laredo-Tiscareño[2], Carlos A. Rodríguez-Alarcón[1], Jaime R. Adame-Gallegos[3], Rodolfo González- Peña[3], Ezequiel Rubio-Tabarez[1], Bradley J. Blitvich[2]
[1]Universidad Autonoma de Ciudad Juarez, Cd. Juarez, Mexico, [2]Iowa State University, Ames, IA, United States, [3]Universidad Autonoma de Chihuahua, Chihuahua, Mexico

536

SPOTLIGHT REPORT: TICK VECTOR THREATS OF DJIBOUTI

Graham Matulis[1], Mary F. Kearney[2], David B. Pecor[3], Alexander Potter[3], Alec G. Richardson[3], Michael von Fricken[1], Dawn Zimmerman[4], Yvonne-Marie Linton[3]
[1]George Mason University, Fairfax, VA, United States, [2]University of Michigan, Ann Arbor, MI, United States, [3]Walter Reed Biosystematics Unit, Suitland, MD, United States, [4]Smithsonian's National Zoological Park and Conservation Biology Institute, Washington, DC, United States

537

GENETIC DIVERSITY AND POPULATION STRUCTURE OF *PHLEBOTOMUS ARGENTIPES*, THE VECTOR OF LEISHMANIASIS IN SRI LANKA

Dulani Ruwanika Pathirage[1], Thilini Chathurika Weeraratne[2], S H P Parakrama Karunaratne[2], Nadira D. Karunaweera[1]
[1]Faculty of Medicine , Colombo, Colombo 08, Sri Lanka, [2]Faculty of Science, University of Peradeniya, Peradeniya, Sri Lanka

538

QUANTUM CASCADE LASERS FOR MOSQUITO SURVEILLANCE

Mauro Pazmino Betancourth[1], Francesco Baldini[1], David Childs[2]
[1]University of Glasgow, Glasgow, United Kingdom, [2]Vector Photonics, Glasgow, United Kingdom

539

CULTURE-DEPENDENT AND -INDEPENDENT METAGENOMIC ASSEMBLIES FROM MALAYSIAN *CTENOCEPHALIDES* SPP. FLEAS UNCOVER NEW COMPLETE GENOMES FOR *BARTONELLA CLARRIDGEIAE*, *RICKETTSIA ASEMBONENSIS* AND MULTIPLE CLADES OF *WOLBACHIA*

Alexandra Beliavskaia[1], Jing Jing Khoo[2], Kim-Kee Tan[2], Amit Sinha[3], Shih-Keng Loong[2], Clotilde K. Carlow[3], Lesley Bell-Sakyi[1], Sazaly Abubakar[2], Alistair C. Darby[1], **Benjamin L. Makepeace**[1]
[1]University of Liverpool, Liverpool, United Kingdom, [2]University of Malaya, Kuala Lumpur, Malaysia, [3]New England Biolabs, Ipswich, MA, United States

540

ALERTACHIRIMACHA: SHIFTING COMMUNIY-BASED VECTOR SURVEILLANCE TO SOCIAL MEDIA DURING COVID-19

Laura D. Tamayo[1], Valerie Paz-Soldan[2], Carlos Condori-Pino[1], Ricardo Castillo-Neyra[3], Michael Z. Levy[3]
[1]Zoonotic Disease Research Lab (LIEZ), One Health Unit, School of Public Health and Administration, Universidad Peruana Cayetano Heredia, Arequipa, Peru, [2]Department of Global Community Health and Behavioral Sciences, Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States, [3]Department of Biostatistics, Epidemiology and Informatics, Perelman School of Medicine at University of Pennsylvania, Philadelphia, PA, United States

541

RESULTS: SYSTEMATIC LITERATURE SEARCH TARGETING TICK AND TICK-BORNE DISEASES IN FIVE COUNTRIES IN EAST AFRICA

Rachel Wofford[1], Mary Kearney[2], Graham Matulis[1], Stephanie Mitchell[3], Fatima Jaradat[1], Arisa Kano[1], David Pecor[4], Alexander Potter[4], Alec Richardson[4], Dawn Zimmerman[3], Katherine Mertes[5], James Hassel[3], Yvonne-Marie Linton[4], Michael von Fricken[1]
[1]George Mason University, Fairfax, VA, United States, [2]University of Michigan, Ann Arbor, MI, United States, [3]Smithsonian's National Zoological Park and Conservation Biology Institute, Washington, DC, United States, [4]Walter Reed Biosystematics Unit (WRBU), Suitland, MD, United States, [5]Smithsonian's National Zoological Park and Conservation Biology Institute, Front Royal, VA, United States

542

THE FIRST PROSPECTION FOR VECTOR BREEDING SITES OF ONCHOCERCIASIS IN LIBERIA: IDENTIFYING PRODUCTIVE SITES OF SIMULIUM DAMNOSUM S.L. SPECIES IN 2018

Sonnie Ziama Gbewo[1], Daniel Boakye[2], Isaac Gbewo[3]
[1]Ministry of Health, Paynesville, Liberia, [2]Noguchi Memorial Institute for Medical Research, Legon, Ghana, [3]WASH Commission, Monrovia, Liberia

543

EVALUATING THE EFFECTS OF BREEDING WATER BACTERIA ON THE LIFE HISTORY OF MALE *AEDES AEGYPTI* MOSQUITOES

Brendan J. Kelly, Sarah M. Short
The Ohio State University, Columbus, OH, United States

544

VECTORS TAKING FLIGHT; THE INFLUENCE OF INVASIVE TICK SPECIES, BIRD MIGRATION AND CLIMATE CHANGE ON SOUTH CAROLINA'S COASTAL ZONES

Connor Ross[1], Kyndall Dye-Braumuller[1], Chris Evans[2], Melissa S. Nolan[1]
[1]University of South Carolina, Columbia, SC, United States, [2]South Carolina Department of Health and Environmental Control, Columbia, SC, United States

545

GRADIENT OF ONCHOCERCIASIS ENTOMOLOGIC INDICES FROM RIVERSIDES TO THE CENTRE OF TWO FIRST LINE COMMUNITIES IN THE MBAM VALLEY: IMPLICATION FOR OPTIMAL VECTOR CONTROL USING TRAPS

André Domche[1], Hugues Clotaire Nana Djeunga[2], Philippe Bienvenu Nwane[2], Sébastien Pion[3], Guy-Roger Njitchouang[2], Flobert Njiokou[4], Joseph Kamgno[2]
[1]Centre for Research on Filaria, Yaoundé, Cameroon, [2]Centre for Research on Filariasis and other Tropical Diseases, Yaoundé, Cameroon, [3]Institut de Recherche pour le Développement, Montpellier, France, [4]Parasitology and Ecology Laboratory, Department of Animal Biology and Physiology, Faculty of Science, University of Yaoundé 1, Yaoundé, Cameroon

Mosquitoes - Insecticide Resistance and Control

546

FIRST REPORT OF N1575Y MUTATION IN PYRETHROID RESISTANT ANOPHELES GAMBIAE S.L. IN NIGERIA

Tolulope Amos Oyeniyi
Nigerian Institute of Medical Research, Lagos, Nigeria

547

PRE-INTERVENTION CHARACTERISTICS OF THE MOSQUITO SPECIES IN BENIN IN PREPARATION FOR A CLUSTER RANDOMIZED CONTROLLED TRIAL ASSESSING THE EFFICACY OF DUAL ACTIVE-INGREDIENT LONG-LASTING INSECTICIDAL NETS FOR CONTROLLING INSECTICIDE-RESISTANT MALARIA VECTORS

Boulais Yovogan[1], **Arthur Sovi**[2], Gil G. Padonou[1], Constantin J. Adoha[1], Manfred Accrombessi[2], Louisa A. Messenger[2], Jackie Cook[3], Corine Ngufor[2], Natacha Protopopoff[2], Martin C. Akogbéto[2]
[1]Centre de Recherche Entomologique de Cotonou, Cotonou, Benin, [2]Faculty of Infectious and Tropical Diseases, Disease Control Department, London School of Hygiene & Tropical Medicine, London, United Kingdom, [3]Medical Research Council (MRC) Tropical International Statistics and Epidemiology Group, London School of Hygiene & Tropical Medicine, London, United Kingdom

548

PERSONAL PROTECTION WITH PBO-PYRETHROID SYNERGIST TREATED NETS AFTER TWO YEARS OF HOUSEHOLD USE AGAINST PYRETHROID-RESISTANT *ANOPHELES* IN TANZANIA

Jackline L. Martin
NIMR Mwanza, Mwanza, United Republic of Tanzania

549

RESISTANCE TO PYRETHROID INSECTICIDES IN *AN. GAMBIAE S.S* AND *AN. ARABIENSIS* IN UGANDA

Henry D. Mawejje[1], Brian Leetakubuulidde[1], Francis Nyagabakye[1], Lilian N. Kayondo[1], Adrienne Epstein[2], Moses Kamya[1], Jo Lines[3], Grant Dorsey[2], Martin Donnelly[4], Sarah Staedke[3]
[1]Infectious Diseases Research Collaboration, Kampala, Uganda, [2]University of California, San Francisco, California, San Francisco, CA, United States, [3]London School of Hygiene & Tropical Medicine, London, United Kingdom, [4]Liverpool School of Tropical Medicine, Liverpool, United Kingdom

550

INTERACTION BETWEEN INSECTICIDE RESISTANCE ASSOCIATED MARKERS AND MALARIA TRANSMISSION PATTERNS IN *ANOPHELES GAMBIAE* S. L. POPULATION AROUND BOUAKÉ, CÔTE D'IVOIRE.

Rosine Z. Wolie[1], Alphonsine A. Koffi[1], Ludovic P. Ahoua Alou[1], Eleanore D. Sternberg[2], Oulo N'Nan-Alla[3], Amal Dahounto[1], Michael K. Kanh[3], Soromane Camara[1], Welbeck A. Oumbouke[4], Innocent Z. Tia[1], Prof Simon-Pierre A. Nguetta[3], Prof Matthew B. Thomas[5], Raphael K. NGuessan[6]
[1]Institut Pierre Richet, Bouaké, Côte D'Ivoire, [2]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [3]Université Félix Houphouët-Boigny, Abidjan, Côte D'Ivoire, [4]Innovative Vector Control Consortium, Liverpool, United Kingdom, [5]The Pennsylvania State University, University Park, PA, Pennsylvania, PA, United States, [6]London School of Hygiene & Tropical Medicine, Bouaké, Côte D'Ivoire

551

"TRICK OR TREAT": DEVELOPMENT OF A FIELD-FRIENDLY IVERMECTIN BIO-EFFICACY ASSAY BY EXPLOITING SWITCHING MECHANISMS IN MOSQUITO FEEDING

Jonathan K. Karisa[1], **Kelly M. Ominde**[1], Yvonne Kamau[1], Martha N. Muturi[1], Caroline Kiuru[2], Carlos Chaccour[2], Marta Maia[1]
[1]Kenya Medical Research Institute-Wellcome Trust Research Programme, Kilifi, Kenya, [2]ISGlobal, Hospital Clinic - Universitat de Barcelona, Barcelona, Spain

552

SEASONAL ABUNDANCE AND INSECTICIDE RESISTANCE STATUS OF*AEDES* MOSQUITOES IN GHANA

Christopher Mfum Owusu-Asenso[1], Julius A. Mingle[1], David Weetman[2], Yaw A. Afrane[1]
[1]University of Ghana, Accra, Ghana, [2]Liverpool School of Tropical Medicine, Liverpool, United Kingdom

553

MAKING THE CASE FOR METHOD VALIDATION IN VECTOR CONTROL

Natalie Lissenden, Rosemary Susan Lees, Angus Spiers
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

554

ANALYSIS OF METABOLIC RESISTANCE AGAINST INSECTICIDES IN CULEX QUINQUEFASCIATUS IN HOUSTON, TEXAS

Xinyue Huang[1], Kendra Dagg[2], Chris Fredregill[2], Michel Slotman[1]
[1]TAMU, College Station, TX, United States, [2]Harris County Public Health, Houston, TX, United States

555

YEAST RNAI-BASED ATTRACTIVE TARGETED SUGAR BAITS FOR CONTROL OF ANOPHELES MOSQUITOES

Keshava Mysore, Longhua Sun, Limb K. Hapairai, Joseph B. Roethele, Ping Li, Molly Duman-Scheel
Indiana University School of Medicine, South Bend, IN, United States

556

FIGHT THE BITE: APPLYING REMOTE SENSING TECHNOLOGIES TO DETECT MOSQUITO BREEDING HABITATS OF IMPORTANCE

Sarah M. Gunter[1], Abiodun Oluyomi[1], Huixuan Li[2], Chris Fredregill[3], Jerry Helfand[1], Melissa Nolan[2]
[1]Baylor college of Medicine, Houston, TX, United States, [2]University of South Carolina, Columbia, SC, United States, [3]Harris County Public Health, Houston, TX, United States

Mosquitoes - Vector Biology-Epidemiology

557

ANOPHELES PRODUCTIVITY OF AQUATIC HABITATS CREATED THROUGH ARTISANAL CAPTURE FISHING ON MAGETA ISLAND IN WESTERN KENYA

Millicent Sifuna
The University of Nairobi, Nairobi, Kenya

558

UPWARDLY MOBILE: MICROCLIMATE AND THE VERTICAL STRATIFICATION OF POTENTIAL VECTORS OF MOSQUITO-BORNE VIRUSES IN A CENTRAL AMAZONIAN FOREST BORDERING MANAUS, BRAZIL

Adam Hendy[1], Danielle Valério[2], Nelson Ferreira Fé[2], Eduardo Hernandez-Acosta[3], Claudia Mendonça[2], Eloane Andrade[2], Igor Pedrosa[4], Edson Rodrigues Costa[4], Bárbara Aparecida Chaves[2], Vera Margarete Scarpassa[5], Marcelo Gordo[4], Michaela Buenemann[3], Marcus Vinícius Guimarães de Lacerda[2], Kathryn A. Hanley[3], Nikos Vasilakis[1]
[1]University of Texas Medical Branch, Galveston, TX, United States, [2]Fundação de Medicina Tropical Doutor Heitor Vieira Dourado, Manaus, Brazil, [3]New Mexico State University, Las Cruces, NM, United States, [4]Universidade Federal do Amazonas, Manaus, Brazil, [5]Instituto Nacional de Pesquisas da Amazônia, Manaus, Brazil

559

A DIVERSE GROUP OF ANOPHELINES FORAGE INDOORS AND OUTDOORS BEFORE 22:00 IN A HOLOENDEMIC SETTING IN NCHELENGE DISTRICT, ZAMBIA

Mary E. Gebhardt[1], David Mbewe[2], Francis Kapasa Mulenga[2], James Sichivula Lupiya[3], Rachel S. Krizek[1], Jack T. Dorman[4], Mbanga Muleba[2], Mike Chaponda[2], William J. Moss[1], Jennifer C. Stevenson[5], Giovanna Carpi[4], Douglas E. Norris[1]
[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]Tropical Diseases Research Centre, Ndola, Zambia, [3]Tropical Disease Research Centre, Ndola, Zambia, [4]Purdue University, West Lafayette, IN, United States, [5]Macha Research Trust, Choma, Zambia

560

COMPARISON OF *AEDES AEGYPTI* AND *ANOPHELES DIRUS* FEEDING SUCCESS AND PREFERENCE USING AN *IN VITRO* BLOOD-FEEDING SYSTEM

Siriporn Phasomkusolsil
Armed Forces Research Institute of Medical Sciences (AFRIMS), Bangkok, Thailand

561

SEASONALITY AND ABUNDANCE OF *ANOPHELES STEPHENSI* IN DJIBOUTI

Alia Zayed[1], Reham Tageldin[1], James f. Harwood[2]
[1]US Naval Medical Research Unit 3, Cairo, Egypt, [2]US Naval Medical Research Unit 3, Sigonella, Italy

562

MATING COMPETITIVENESS IS REDUCED IN *ANOPHELES GAMBIAE* MALES MARKED WITH RHODAMINE B IN LABORATORY TRIALS

Ilsse A. Ortega Eguia[1], Katelyn Cavender[1], Keri Oxendine Harp[1], **Priscila Bascunan**[1], Mark Q. Benedict[1], Ellen M. Dotson[2]
[1]CDC Foundation, Atlanta, GA, United States, [2]Centers for disease control and prevention (CDC), Atlanta, GA, United States

563

AN ECOLOGICAL NICHE MODEL TO PREDICT THE GEOGRAPHIC DISTRIBUTION OF THE YELLOW FEVER AND MAYARO VIRUS VECTOR, *HAEMAGOGUS JANTHINOMYS*, IN SOUTH AMERICA

Michael Celone[1], David Pecor[2], Alexander Potter[2], Alec Richardson[2], James Dunford[1], Simon Pollett[1]
[1]Uniformed Services University of the Health Sciences, Bethesda, MD, United States, [2]Walter Reed Army Institute of Research, Silver Spring, MD, United States

564

EFFECTS OF LARVAL EXPOSURE TO SUBLETHAL DOSES OF IVERMECTIN ON ADULT FITNESS AND SUSCEPTIBILITY TO IVERMECTIN IN *ANOPHELES GAMBIAE*

Caroline Kiuru[1], Kelly Ominde[2], Martha Muturi[2], Carlos Chaccour[1], Marta Maia[2]
[1]Barcelona Institute for Global Health (ISGlobal), Barcelona, Spain, [2]KEMRI Wellcome Trust Research Programme, Kilifi, Kenya

565

BITING BEHAVIOR OF *ANOPHELES* MOSQUITOES IN ZANZIBAR: IMPLICATIONS FOR THE MALARIA ELIMINATION PROGRAMME

Khamis Ameir Haji[1], Bilali Kabula[2], Bakari Khatib[1], Juma Mcha[1], Huba Ali[1], Abdullah Ali[1], Faiza Abbas[1], Chonge Kitojo[3], Erik Reaves[4], Naomi Serbantez[3], Adeline Chan[5], Abdul-wahid Al-mafazy[2], Humphrey Mkali[6], Joseph Joseph[2], Shabbir Lalji[2], Ssanyu Nyinondi[2], Richard Reithinger[7], Erin Eckert[7]
[1]Ministry of Health Zanzibar, Zanzibar, United Republic of Tanzania, [2]USAID-Okoa Maisha Dhibiti Malaria Project, RTI International, Dar es Salaam, Tanzania; 3US President's Malaria Initiative, USAID, Dar es Salaam, United Republic of Tanzania, [3]US President's Malaria Initiative, USAID, Dar es Salaam, United Republic of Tanzania, [4]4Centers for Disease Control and Prevention and President's Malaria Initiative, CDC, Atlanta, GA, United States, [5]; 4Centers for Disease Control and Prevention and President's Malaria Initiative, CDC, Atlanta, GA, United States, [6]2USAID-Okoa Maisha Dhibiti Malaria Project, RTI International, Dar es Salaam, United Republic of Tanzania, [7]RTI International, Washington, DC,, WA, United States

566

BLOOD-MEAL SOURCES OF MALARIA VECTORS FOUND IN ENDEMIC AREAS OF ZIMBABWE

Charmaine C. Matimba
Africa University, Mutare, Zimbabwe

567

MALARIA VECTOR ECOLOGY ON THE LIHIR GROUP OF ISLANDS, PAPUA NEW GUINEA, WITH A FOCUS ON THE IMPACT OF A LARGE-SCALE MINING OPERATION

Michelle Katusele[1], Elias Omera[1], Peter Kaman[1], Absalom Dau[1], Esther Jamea[1], Muker Sakur[1], Lemen Kilepak[1], Siub Yabu[1], Barbara Baro[2], Pere Millat[2], Russel Supit[3], William Pomat[4], Quique Bassat[2], Quique Bassat[5], Quique Bassat[6], Quique Bassat[7], Stephan Karl[1], Stephan Karl[8]
[1]Papua New Guinea Institute of Medical Research, Madang, Papua New Guinea, [2]ISGlobal, Hospital Clínic - Universitat de Barcelona, Barcelona, Spain, [3]Lihir Malaria Elimination Programme, Londolovit, Papua New Guinea, [4]Papua New Guinea Institute of Medical Research, Goroka, Papua New Guinea, [5]Centro de Investigação em Saúde de Manhiça, Barcelona, Spain, [6]ICREA, Barcelona, Spain, [7]Hospital Sant Joan de Déu, Universitat de Barcelona, Esplugues, Barcelona, Spain, [8]Australian Institute of Tropical Health and Medicine, James Cook University, Cairns, Australia

568

SUSTAINING EFFICIENT MALARIA VECTOR CONTROL WHILE ACCOUNTING FOR BREEDING SITE STAGES: A PREDICTIVE MODELLING APPROACH

Toheeb Babatunde Ibrahim[1], Martin Eichner[2], Kristan A. Schneider[1]
[1]Hochschule Mittweida University of Applied Sciences, Mittweida, Germany, [2]University of Tuebingen, Tuebingen, Germany

569

HABITAT MICROBIOTA SHAPES HETEROGENEITY IN MOSQUITO POP DYNAMICS IN THE FIELD

Serena Y. Zhao[1], John Hausbeck[2], Kerri Coon[1]
[1]University of Wisconsin-Madison, Madison, WI, United States, [2]Public Health Madison and Dane County, Madison, WI, United States

570

SPATIOTEMPORAL DYNAMICS OF *CULEX* SPECIES ON AN URBAN TO RURAL GRADIENT IN GREATER WASHINGTON DC

Arielle Arsenault-Benoit, Megan Fritz
University of Maryland, College Park, MD, United States

(ACMCIP Abstract)

571

INNOVATIVE METHODS AND SOFTWARE FOR THE ANALYSIS OF MOLECULAR XENOMONITORING SURVEYS AND OTHER POOL-TESTED DATA

Angus McLure[1], Ben O'Neill[1], Helen Mayfield[2], Colleen Lau[2], Brady McPherson[3]
[1]Australian National University, Canberra, Australia, [2]University of Queensland, Brisbane, Australia, [3]Australian Defence Force Malaria and Infectious Disease Institute, Brisbane, Australia

Flaviviridae – Dengue

572

COMPLEMENT-FIXING ANTIBODIES ARE PRODUCED IN RESPONSE TO A TETRAVALENT DENGUE VACCINE

Eduardo J. M. Nascimento, Brooke Norwood, Eloi Kpamegan, Allan Parker, Isamu Tsuji, David Dominguez, Hansi J. Dean
Takeda Vaccines, Brookline, MA, United States

573

VALIDATION OF A MICRONEUTRALIZATION TEST TO QUANTIFY DENGUE VIRUS NEUTRALIZING ANTIBODIES AFTER VACCINATION WITH THE TAK-003 TETRAVALENT DENGUE VACCINE CANDIDATE

Tim Powell[1], Jasdeep Nanra[2], Kelley Moss[1], Tina Green[3], Brent Seaton[4], Hansi Dean[1], Eric Shaw[1]
[1]Takeda Vaccines, Cambridge, MA, United States, [2]Affinivax, Cambridge, MA, United States, [3]PPD, Wayne, PA, United States, [4]Q2 Solutions, San Juan Capistrano, CA, United States

574

ADRENAL DYSFUNCTION IN PATIENTS WITH DENGUE: A HOSPITAL BASED STUDY FROM JODHPUR, INDIA

Prakrati Yadav, Bharat Kumar, Ravindra Kumar Gayaprasad Shukla, Maya Gopalakrishnan, Mahendra Kumar Garg
All India Institute Of Medical Sciences, Jodhpur, Jodhpur, India

575

AEDES-BORNE VIRUS IMMUNE PROFILES IN A PEDIATRIC POPULATION IN MERIDA, YUCATAN, MEXICO: A BASELINE SEROLOGIC ANALYSIS OF THE TIRS TRIAL

James Thomas Earnest[1], Henry Puerta-Guardo[2], Oscar D. Kirstein[1], Gloria A. Barrera[2], Azael Che-Mendoza[2], Pablo Manrique-Saide[2], Hector Gomez-Dantes[3], Norma Pavia-Ruz[2], Salha Villanueva-Jorge[4], Pilar Granja-Perez[4], Guadalupe Ayora-Talavera[2], Matthew C. Collins[1], Gonzalo Vazquez-Prokopec[1]
[1]Emory University, Atlanta, GA, United States, [2]Universidad Autonoma de Yucatan, Merida, Mexico, [3]National Institute of Public Health, Cuernavaca, Mexico, [4]Secretaria de Salud de Yucatan, Merida, Mexico

576

VIRAL PARKINSONISM: AN UNDERDIAGNOSED NEUROLOGICAL COMPLICATION OF DENGUE VIRUS INFECTION

Hannah K. Hopkins[1], Elizabeth Traverse[1], Vedana Vaidhyanathan[2], Kelli L. Barr[1]
[1]University of South Florida, Tampa, FL, United States, [2]Baylor University, Waco, TX, United States

577

THE RESURGENCE OF DENGUE VIRUS AFTER THE ZIKA EPIDEMIC IN BRAZIL

Anderson F. Brito[1], Lais C. Machado[2], Márcio J. Siconelli[3], Rachel J. Oidtman[4], Joseph R. Fauver[1], Rafael F. Franca[2], T. Alex Perkins[4], Benedito A. Fonseca[3], Gabriel L. Wallau[2], Nathan D. Grubaugh[1]
[1]Yale University, New Haven, CT, United States, [2]Fiocruz, Recife, PE, Brazil, [3]University of São Paulo, Ribeirão Preto, SP, Brazil, [4]University of Notre Dame, Notre Dame, IN, United States

578

GLYCOSYLATION ON PREMATURE AND ENVELOPE PROTEIN DETERMINE DENGUE VIRUS MATURATION

Stephanie Dong, Longping V. Tse, Ralph S. Baric
University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

579

DENGUE SEROTYPE 4 -2 ENVELOPE DOMAIN CHIMERIC VIRUSES: DESIGN, RECOVERY, AND ANTIBODY MAPPING

Deanna R. Zhu, Ellen Young, Jennifer Munt, Rita Meganck, Victor Tse, Aravinda de Silva, Ralph Baric
UNC Chapel Hill School of Public Health, Chapel Hill, NC, United States

580

MAJORITY OF PEDIATRIC DENGUE VIRUS INFECTIONS IN KENYA DO NOT MEET 2009 WHO CRITERIA FOR DENGUE DIAGNOSIS

Aslam Khan[1], Bryson Ndenga[2], Francis Mutuku[3], Charles Ronga[2], Laura Mwambingu[2], Victoria Okuta[2], Zainab Jembe[4], Priscilla Maina[4], Philip Chebii[4], Desiree LaBeaud[1]
[1]Department of Pediatrics, Division of Infectious Diseases, Stanford University, Stanford, CA, United States, [2]Centre for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya, [3]Department of Environment and Health Sciences, Technical University of Mombasa, Mombasa, Kenya, [4]Vector borne Disease control Unit, Msambweni County Referral hospital, Msambweni, Kenya

581

TISSUE SPECIFICITY OF FLAVIVIRUS NS1 BINDING AND NS1-INDUCED ENDOTHELIAL PERMEABILITY IS MEDIATED BY DISTINCT PROTEIN DOMAINS

Nicholas T. Lo, Scott B. Biering, Nicole Tin, Eva Harris
Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States

582

SAFETY, TOLERABILITY AND PHARMACOKINETICS OF A NOVEL PAN-SEROTYPE DENGUE ANTIVIRAL SMALL MOLECULE IN A PHASE 1, DOUBLE-BLIND, RANDOMIZED, DOSE-ESCALATION STUDY

Oliver Ackaert[1], Frédéric Vanhoutte[2], Nathalie Verpoorten[3], Annemie Buelens[1], Sophie Lachau-Durand[4], Lieve Lammens[4], Marnix Van Loock[3], Guillermo Herrera-Taracena[5]
[1]Janssen Quantitative Sciences, Janssen Pharmaceutica NV, Beerse, Belgium, [2]SGS Clinical Pharmacology Unit, Antwerp, Belgium, [3]Janssen Global Public Health, Janssen Pharmaceutica NV, Beerse, Belgium, [4]Janssen Discovery Sciences, Janssen Pharmaceutica NV, Beerse, Belgium, [5]Janssen Global Public Health, Janssen Research & Development, Horsham, PA, United States

583

ASSOCIATION BETWEEN MAGNITUDE OF ANTI-DENGUE VIRUS ANTIBODY AVIDITY AND PROTECTION AGAINST SYMPTOMATIC DENGUE VIRUS INFECTION

Isamu Tsuji[1], David Dominguez[1], Magelda Montoya[2], Jonathan Hernandez[1], Josefina Coloma[2], Guillermina Kuan[3], Angel Balmaseda[3], Ralph Braun[1], Eva Harris[2], Hansi Dean[1]
[1]Vaccines Business Unit, Takeda Pharmaceutical Inc, Cambridge, MA, United States, [2]Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, [3]Sustainable Sciences Institute, Managua, Nicaragua

584

DETECTION OF SPATIO-TEMPORAL HETEROGENEITY OF DENGUE IN COLOMBO CITY, SRI LANKA : AN ASSESSMENT OF URBAN RISK FACTORS AND DRIVERS USING POINT PROCESS SPATIAL MODELLING

Nayantara Wijayanandana[1], Jorge Cano[1], Ruwan Wijayamuni[2], Hasitha Tissera[3], Christian Bottomley[1], Neal Alexander[1], Henrik Salje[4]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]Public Health Department, Colombo Municipal Council, Colombo, United Kingdom, [3]Ministry of Health, Colombo, Sri Lanka, [4]Cambridge University, Cambridge, United Kingdom

Flaviviridae – Other

585

ARBOVIRUS SURVEILLANCE AND JAPANESE ENCEPHALITIS VIRUS GENOTYPE IV ISOLATION FROM *CULEX VISHNUI* MOSQUITOES COLLECTED ON BALI ISLAND, INDONESIA

Astri Nur Faizah[1], Daisuke Kobayashi[2], Maekawa Yoshihide[2], Michael Amoa-Bosompem[3], Shifa Fauziyah[4], Kris Cahyo Mulyatno[4], Sri Subekti[4], Etik Ainun Rohmah[4], Maria Inge Lusida[4], Yasuko Mori[5], Kozue Miura[1], Kazuhiro Hirayama[1], Haruhiko Isawa[2], Kyoko Sawabe[2]
[1]The University of Tokyo, Tokyo, Japan, [2]National Institute of Infectious Diseases, Tokyo, Japan, [3]Kyushu University, Kyushu, Japan, [4]Airlangga University, Surabaya, Indonesia, [5]Kobe University, Kobe, Japan

586

URINE AS A POSSIBLE RESOURCE FOR YELLOW FEVER DIAGNOSIS

Izabela M. Rezende[1], Leonardo S. Pereira[2], Aslam Khan[1], Gabriela Fernanda G. Oliveira[2], Thais Alkifeles[2], Andreza P. Gonçalves[3], Pedro A. Alves[3], Olindo A. Martins-Filho[4], Andréa Teixeira-Carvalho[4], A. Desiree LaBeaud[1], Betânia P. Drumond[2]
[1]Department of Pediatrics, Division of Infectious Disease, Stanford University School of Medicine, Stanford, CA, United States, [2]Laboratório de Vírus, Microbiology Department, Biological Sciences Institute, Federal University of Minas Gerais, Belo Horizonte, Brazil, [3]Imunologia de Doenças Virais, René Rachou Institute, Oswaldo Cruz Foundation / FIOCRUZ MG, Belo Horizonte, Brazil, [4]Grupo Integrado de Pesquisas em Biomarcadores, René Rachou Institute, Oswaldo Cruz Foundation /FIOCRUZ MG, Belo Horizonte, Brazil

587

NON-CONSERVATIVE MUTATIONS AT THE HIGHLY CONSERVED ALA54 RESIDUE OF YELLOW FEVER VIRUS ENVELOPE PROTEIN MODULATES THE YIELD OF INFECTIOUS VIRUSES IN CELL CULTURE

Bailey E. Maloney[1], Danielle R. Saunders[1], Ashley N. Bilyeu[1], Alan D. Barrett[2], Stephen Higgs[1], Dana L. Vanlandingham[1], Yan-Jang S. Huang[1]
[1]Kansas State University, Manhattan, KS, United States, [2]University of Texas Medical Branch, Galveston, TX, United States

588

SUBSTITUTIONS OF CONSERVED HYDROPHOBIC AMINO ACIDS IN THE ENVELOPE PROTEIN DOMAIN I AND DOMAIN II HINGE REGION IMPAIR THE REPLICATION OF YELLOW FEVER VIRUS IN CELL CULTURE

Danielle R. Saunders[1], Bailey E. Maloney[1], Ashley N. Bilyeu[1], Stephen Higgs[1], Alan D. Barrett[2], Dana L. Vanlandingham[1], Yan-Jang S. Huang[1]
[1]Biosecurity Research Institute and Department of Diagnostic Medicine/Pathobiology, College of Veterinary Medicine, Kansas State University, Manhattan, KS, United States, [2]Sealy Institute for Vaccine Sciences and Department of Pathology, University of Texas Medical Branch, Galveston, TX, United States

589

REEMERGENCE OF POWASSAN VIRUS LINEAGE 1 IN NEW YORK STATE

Rachel E. Lange[1], Kiet Ngo[2], Joseph G. Maffei[2], Cheri A. Koetzner[2], Alan P. Dupuis II[2], Laura D. Kramer[2], Alexander T. Ciota[2]
[1]SUNY University at Albany School of Public Health, Albany, NY, United States, [2]The Arbovirus Laboratory, Wadsworth Center, New York State Department of Health, Albany, NY, United States

590

PREVALENCE OF SELECTED INFECTIONS IN PREGNANT WOMEN AND LIVEBORN INFANTS IN THE ZIKA EN EMBARAZADAS Y NIÑOS (ZEN) PROSPECTIVE COHORT IN COLOMBIA

Angelica Rico[1], Laura Divens Zambrano[2], Maritza Gonzalez[1], **Ayzsa F. Tannis**[3], Mónica Benavides[4], Jessica N. Ricaldi Camahuali[5], Helena Rodriguez[1], Suzanne Newton[6], Marcela Daza[4], Jennifer D. Thomas[5], Jacqueline Acosta[4], Panagiotis Maniatis[2], Jonathan Daniels[7], Veronica Burkel[8], Elizabeth Ailes[6], Diana Valencia[6], Van T. Tong[6], Suzanne M. Gilboa[6], Denise J. Jamieson[9], Marcela Mercado[1], Julie Villanueva[5], Martha L. Ospina[1], Margaret Honein[6]
[1]National Institute of Health, Bogota, Colombia, [2]National Center for Immunization and Respiratory Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]Oak Ridge Institution for Science and Research, Oak Ridge, TN, United States, [4]Research Division, Vysnova Partners, Bethesda, MD, United States, [5]National Center for Emerging and Zoonotic Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States, [6]National Center on Birth Defects and Developmental Disabilities, Centers for Disease Control and Prevention, Atlanta, GA, United States, [7]Center for Preparedness and Response, Centers for Disease Control and Prevention, Atlanta, GA, United States, [8]Eagle Medical Services, LLC, San Antonio, TX, United States, [9]Emory University School of Medicine, Department of Gynecology & Obstetrics,, Atlanta, GA, United States

591

IMPACT OF MOSQUITO SALIVA IN THE PATHOGENESIS OF JAPANESE ENCEPHALITIS VIRUS

So Lee Park[1], Yan-Jang Huang[1], Amy C. Lyons[1], Victoria B. Ayers[1], Susan M. Hettenbach[1], David S. McVey[2], Leela E. Noronha[3], Kenneth R. Burton[4], Wei-Wen Hsu[5], Stephen Higgs[1], Dana L. Vanlandingham[1]
[1]Biosecurity Research Institute, Kansas State University, Manhattan, KS, United States, [2]School of Veterinary Medicine and Biomedical Sciences, University of Nebraska-Lincoln, Lincoln, NE, United States, [3]Arthropod-Borne Animal Diseases Research Unit, Center for Grain and Animal Health Research, Agricultural Research Service, United States Department of Agriculture, Manhattan, KS, United States, [4]National Agricultural Biosecurity Center, Kansas State University, Manhattan, KS, United States, [5]Department of Statistics, College of Arts and Sciences, Kansas State University, Manhattan, KS, United States

592

HUMAN NEURON INFECTION WITH ZIKA VIRUS AND HYBRID IGG4 ANTIBODY RESPONSE TO *AEDES AEGYPTI* SALIVARY PROTEINS

Shanice L'Nae Harris[1], Berlin Londono-Renteria[2]
[1]Kansas State University College of Veterinary Medicine, Manhattan, KS, United States, [2]Kansas State University College of Agriculture, Department of Entomology, Manhattan, KS, United States

593

MEASUREMENT OF ZIKA VIRUS-SPECIFIC ANTIBODIES USING A MICROSPHERE-BASED COMPETITIVE IMMUNOASSAY

Erick Perez-Guzman, Mayuri Sharma, Ralph Braun
Takeda Vaccines, Inc., Cambridge, MA, United States

594

IMPORTATION OF STAMARIL VACCINE PREVENTED A YELLOW FEVER VACCINE SHORTAGE IN THE UNITED STATES, 2017-2021

Wayne Hachey[1], Gurpreet Kaur[1], Joanna Korejwo[2], Andrey Rojas[3], **Riyadh Muhammad**[1]
[1]Sanofi Pasteur, Swiftwater, PA, United States, [2]Sanofi Pasteur, Lyon, France, [3]Sanofi Pasteur, Bogota, Colombia

595

EVALUATION AND APPLICATION OF NOVEL SEROLOGIC TOOLS FOR ASSESSING ZIKA VIRUS SPECIFIC IMMUNITY FOR SURVEILLANCE AND TRANSLATIONAL RESEARCH

Teresa C. Smith[1], Daniel O. Espinoza[2], Yerun Zhu[2], Sylvia Becker-Dreps[3], Natalie M. Bowman[4], Srilatha Edupuganti[2], Alfonso J. Rodriguez-Morales[5], Jaime A. Cardona-Ospina[5], Filemon Bucardo[6], Aravinda M. de Silva[7], Matthew H. Collins[2]
[1]Rollins School of Public Health, Emory University, Atlanta, GA, United States, [2]The Hope Clinic of the Emory Vaccine Center, Division of Infectious Diseases, Emory University, Decatur, GA, United States, [3]Department of Family Medicine and Epidemiology, School of Medicine, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [4]Division of Infectious Diseases, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [5]Facultad de Medicina, Fundación Universitaria Autónoma de Las Américas, Pereira, Risaralda, Colombia, [6]Department of Microbiology, Faculty of Medical Science, National Autonomous University of Nicaragua, León (UNAN-León), León, Nicaragua, [7]Department of Microbiology and Immunology, School of Medicine, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

596

TRANSFER AND DECAY OF MATERNAL ZIKA EDIII ANTIBODIES IN A BIRTH COHORT FROM NICARAGUA

Omar Zepeda[1], Daniel Espinoza[2], Evelin Martinez[1], Sylvia Becker-Dreps[3], Elizabeth Stringer[4], Matthew H. Collins[2], Filemon Bucardo[1]

[1]Department of Microbiology, Faculty of Medical Science, National Autonomous University of Nicaragua, León UNAN-León, León, Nicaragua, [2]Hope Clinic of the Emory Vaccine Center, Division of Infectious Diseases, Department of Medicine, School of Medicine, Emory University, Decatur, GA, United States, [3]Department of Family Medicine and Epidemiology, School of Medicine, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [4]Department of Obstetrics and Gynecology, School of Medicine, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

597

CHARACTERIZING THE IMMUNE RESPONSE TO ZIKA VIRUS USING EPITOPE MAPPING, REPORTER VIRUS PARTICLES, AND ANTI-ZIKV ANTIBODIES

Edgar Davidson[1], J. Charles Whitbeck[1], Anu Thomas[1], J. Tabb Sullivan[1], Ariadna Grinyo[1], Lewis J. Stafford[1], Ross Chambers[1], Aravinda M. de Silva[2], James E. Crowe[3], Benjamin J. Doranz[1]

[1]Integral Molecular, Inc., Philadelphia, PA, United States, [2]Department of Microbiology and Immunology, University of North Carolina, Chapel Hill, NC, United States, [3]Vanderbilt Vaccine Center, Vanderbilt University, Nashville, TN, United States

598

ZIKA VIRUS EFFECTS ON CREB3L1 NEUROPROTECTION

Joaris Soto-Hernández

Ponce Research Institute-Ponce Health Sciences University, Ponce, Puerto Rico, PR, United States

Flaviviridae - West Nile:

599

UNIQUE INTERACTIONS BETWEEN VIRAL GENOTYPE AND MOSQUITO POPULATION DETERMINE REGIONAL VARIABILITY IN THE EFFECT OF INCREASED TEMPERATURE ON VECTORIAL CAPACITY OF *CX. PIPIENS* FOR WEST NILE VIRUS

Rachel L. Fay[1], Elyse M. Banker[2], Sean M. Bialosuknia[2], Kiet A. Ngo[2], Jessica L. Stout[2], Laura D. Kramer[2], Alexander T. Ciota[2]

[1]School of Public Health, University at Albany, Albany, NY, United States, [2]Wadsworth Center, New York State Department of Health, Albany, NY, United States

600

FLAVIVIRUS SEROPREVALENCE AND CONTINUOUS TRANSMISSION OF WEST NILE VIRUS AMONG FEMALE SEX WORKERS IN SENEGAL BETWEEN 1991 AND 1999

Samantha Gabrielle Morgan[1], Wen-Yang Tsai[1], Szu-Chia Hsieh[1], Donald J. Hamel[2], Phyllis Kanki[2], Wei-Kung Wang[1]

[1]Department of Tropical Medicine, Medical Microbiology and Pharmacology, John A. Burns School of Medicine, University of Hawaii at Manoa, Honolulu, HI, United States, [2]Department of Immunology and Infectious Diseases, Harvard T.H. Chan School of Public Health, Boston, MA, United States

601

EXPERIMENTAL FITNESS EVALUATION OF THE MAIN WEST NILE VIRUS GENOTYPES IN THE UNITED STATES USING REVERSE GENETICS

Chantal Vogels[1], Joseph Fauver[1], Anderson Brito[1], Cole Jensen[1], Nicholas Huston[2], James Weger-Lucarelli[3], Ryan Smith[4], Marc Suchard[5], Nathaniel Matteson[6], Karthik Gangavarapu[6], Kristian Andersen[6], Rohit Sharma[7], Doug Brackney[7], Philip Armstrong[7], Nathan Grubaugh[1]

[1]Yale School of Public Health, New Haven, CT, United States, [2]Yale University, New Haven, CT, United States, [3]Virginia Polytechnic Institute and State University, Blacksburg, VA, United States, [4]Iowa State University, Ames, IA, United States, [5]University of California, Los Angeles, CA, United States, [6]The Scripps Research Institute, La Jolla, CA, United States, [7]The Connecticut Agricultural Experiment Station, New Haven, CT, United States

Viruses – Other

602

FORECASTING MUTATIONS OF CONCERN: A SURVEY OF SARS-COV-2 INTRA-HOST VIRAL DIVERSITY ACROSS THE NCBI SEQUENCE READ ARCHIVE (SRA) DATA

Matthew A. Conte[1], Ashley Thommana[2], Irina Maljkovic Berry[1]

[1]Walter Reed Army Institute of Research, Silver Spring, MD, United States, [2]Montgomery Blair High School, Silver Spring, MD, United States

603

VALIDATION OF MACHINE LEARNING MODELS FOR OUTCOME PREDICTION IN LASSA FEVER PATIENTS USING THE LARGEST RETROSPECTIVE CLINICAL DATASET AVAILABLE TO DATE

Kelsey M. Butler[1], Christopher Iruolagbe[2], Kelly Iraoyah[2], Mercy Dic-Ijiewere[2], Alexander Okonkwo[2], Mojeed Rafiu[2], Peter Akhideno[2], Cyril Erameh[2], Ephraim Ogbaini[3], Bridget Chak[4], Ikponmwosa Odia[3], Sylvanus Okogbenin[5], Meike Pahlman[6], Beate Becker-Ziaja[6], Danny Asogun[3], Christian Happi[7], George Akpede[8], Stephan Günther[6], Pardis Sabeti[9], Peter Okokhere[2], Andres Colubri[1]

[1]University of Massachusetts Medical School, Worcester, MA, United States, [2]Department of Medicine, Irrua Specialist Teaching Hospital, Irrua, Nigeria, [3]Institute of Lassa fever Research and Control, Irrua Specialist Teaching Hospital, Irrua, Nigeria, [4]Broad Institute of MIT and Harvard, Cambridge, MA, United States, [5]Department of Obstetrics and Gynaecology, Irrua Specialist Teaching Hospital, Irrua, Nigeria, [6]Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany, [7]Department of Biological Sciences, Redeemer's University, Ede, Nigeria, [8]Department of Paediatrics, Irrua Specialist Teaching Hospital, Irrua, Nigeria, [9]Harvard University, Department of Organismic and Evolutionary Biology, Cambridge, MA, United States

604

GETTING READY FOR THE NEXT EBOLA OUTBREAK - A PREPAREDNESS TOOL TO PREDICT THE EFFECTS OF CONTACT TRACING, CASE ISOLATION, AND SAFE BURIAL CEREMONIES

Aliou Bouba[1], Henri Christian Obama[2], Kristina Barbara Helle[3], Kristan Alexander Schneider[2]

[1]AIMS-Cameroon, Limbe, Cameroon, [2]Hochschule Mittweida University of applied sciences, Mittweida, Germany, [3]Merseburg University of Applied Sciences, Merseburg, Germany

605

IMMUNOLOGICAL EVALUATION AND COMPARISON OF DIFFERENT CACHE VALLEY VIRUS VACCINE CANDIDATES

Victoria B. Ayers[1], Yan-Jang S. Huang[1], Alain Kohl[2], James I. Dunlop[2], So Lee Park[1], Stephen Higgs[3], Dana L. Vanlandingham[1]

[1]Department of Diagnostic Medicine and Pathobiology, College of Veterinary Medicine, Kansas State University, Manhattan, KS, United States, [2]MRC-University of Glasgow Centre for Virus Research, Glasgow G12 8QQ, United Kingdom, [3]Biosecurity Research Institute, Kansas State University, Manhattan, KS, United States

606

ENSEMBLE MACHINE LEARNING METHOD AS A HIGH ACCURACY APPROACH TO COVID-19 SIMULATION

Dmytro Chumachenko[1], Ievgen Meniailov[1], Megan W. Howard[2], Kseniia Bazilevych[1], Lyubov Makhota[3], Tetyana Chumachenko[4]
[1]National Aerospace University Kharkiv Aviation Institute, Kharkiv, Ukraine, [2]Battelle, Columbus, OH, United States, [3]Kharkiv Regional Laboratory Center of the Ministry of Health of Ukraine, Kharkiv, Ukraine, [4]Kharkiv National Medical University, Kharkiv, Ukraine

607

COVID-19 SEROSURVEYS IN MASSACHUSETTS: CALL FOR ACTION

Raquel A. Binder[1], Catherine S. Forconi[1], Gavin F. Fujimori[1], Amanda Higgins[1], Virginia Mangolds[1], Thomas Nixon[1], Leandro DeSouza Silva[1], Priya Saikumar Lakshmi[1], Quishi Tang[1], Boaz Odwar[1], Stephanie Fischinger[2], Caroline Atyeo[2], Lisa Cavacini[3], John Haran[1], Galit Alter[4], Ann M. Moormann[1]
[1]UMass Medical School, Worcester, MA, United States, [2]Ragon Institute of MGH, MIT, and Harvard , Cambridge, MA, United States, [3]MassBiologics at UMass Medical School, Worcester, MA, United States, [4]Ragon Institute of MGH, MIT, and Harvard, Cambridge, MA, United States

608

UTILIZATION OF A PRIMER-TEMPLATE MISMATCH APPROACH FOR PCR-BASED IDENTIFICATION OF TWO CRITICAL SPIKE MUTATIONS IN THE SARS-COV-2 VARIANT B.1.1.7

Qiuying Cheng, Ivy Hurwitz, Alexandra V. Yingling, Amber Castillo, Douglas J. Perkins
Center for Global Health, Department of Internal Medicine, University of New Mexico Health Sciences Center, Albuquerque, NM, United States

609

IDENTIFICATION OF SARS-COV-2 RNA IN STILLBIRTHS AND NEONATAL DEATH CASES IN BANGLADESH

Mustafizur Rahman[1], Muntasir Alam[1], M Ishrat Jahan[1], Afruna Rahman[1], Kyu Han Lee[2], Shafina Jahan[1], Sanwarul Bari[1], Emily S. Gurley[2], Shams El Arifeen[1]
[1]icddr,b, Dhaka, Bangladesh, [2]Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

610

THE PRESENTATION OF INFLUENZA AND CLINICAL SEVERITY IN KAMPHAENG PHET HOSPITAL, THAILAND

Darunee Buddhari[1], Kanyarat Phutthasophit[1], Sopon Iamsirithaworn[2], Pornsopit Nuansalee[3], Krotchakorn Surangkamaneesin[3], Chonticha Klungthong[1], Aaron R. Farmer[1], Anthony R. Jones[1], Stefan Fernandez[1]
[1]Department of Virology, USAMD-AFRIMS, Bangkok, Thailand, [2]Department of Disease Control, Ministry of Public Health, Nonthaburi, Thailand, [3]Kamphaeng Phet provincial hospital, Kamphaeng Phet, Thailand

611

CHARACTERIZING THE HUMORAL RESPONSE OF A RECOMBINANT SUBUNIT EBOLA VIRUS VACCINE IN NON-HUMAN PRIMATES

Aquena Ball, Teri Wong, Chih-Yun Lai, Albert To, Axel Lehrer
University of Hawaii at Manoa, Honolulu, HI, United States

612

RESOURCE CONSTRAINTS IN AN EPIDEMIC: A GOAL PROGRAMMING AND MATHEMATICAL MODELLING FRAMEWORK FOR OPTIMAL RESOURCE SHIFTING IN SOUTH AFRICA

Saadiyah Mayet, Ian Durbach, Sheetal Silal
University of Cape Town, Cape Town, South Africa

613

PREDOMINANCE OF SARS-COV-2 B.1.1.7 AND B.1.351 VARIANTS IN METRO MANILA, PHILIPPINES

John Mark S. Velasco[1], Ma. Theresa Valderama[2], Paula Corazon Diones[2], Susie Leonardia[2], Chonticha Klungthong[1], Khajohn Joonlasak[1], Wudtichai Manasatienkij[1], Piyawan Chinnawirotpisan[1], Angkana Huang[1], Anthony Jones[1], Stefan Fernandez[1]
[1]USAMD-AFRIMS, Bangkok, Thailand, [2]USAMD-AFRIMS, Manila, Philippines

614

PROFILING OF EPITOPE-SPECIFIC ANTIBODY RESPONSES AND BIOMARKER DISCOVERY IN VIRAL AND PARASITE INFECTIONS UTILIZING HIGH-DENSITY PEPTIDE ARRAYS

Kirsten Heiss[1], Tatjana Schwarz[2], Benjamin Meyer[3], Thomas Jaenisch[4], Felix F. Loeffler[5], Victor M. Corman[6], Christian Drosten[7], Renate Sekul[1], Volker Stadler[1]
[1]PEPperPRINT GmbH, Heidelberg, Germany, [2]Institute of Virology, Charité Universitätsmedizin Berlin, Corporate Member of Freie Universität Berlin, Humboldt-Universität zu Berlin, and Berlin Institute of Health, Berlin, Germany, [3]Centre for Vaccinology, Department of Pathology and Immunology, University of Geneva, Geneva, Switzerland, [4]Heidelberg Institute of Global Health (HIGH), Heidelberg University Hospital, Heidelberg, Germany; Center for Global Health, Colorado School of Public Health, University of Colorado, Aurora, CO, United States, [5]Max Planck Institute of Colloids and Interfaces, Department of Biomolecular Systems, Potsdam, Germany, [6]Institute of Virology, Charité Universitätsmedizin Berlin, German Centre for Infection Research, Associated Partner CharitéCorporate Member of Freie Universität Berlin, Humboldt-Universität zu Berlin, and Berlin Institute of Health;, Berlin, Germany, [7]Institute of Virology, Charité Universitätsmedizin Berlin, German Centre for Infection Research, Associated Partner CharitéCorporate Member of Freie Universität Berlin, Humboldt-Universität zu Berlin, and Berlin Institute of Health;, Berlin, Germany, Berlin, Germany

615

GENOMIC SURVEILLANCE OF HUMAN CORONAVIRUSES SARS-COV-2 AND 229E AT THE UNIVERSITY OF MARYLAND CAMPUS

Irina Maljkovic Berry[1], Filbert Hong[2], Hye Kyung Chung[1], Sheldon Tai[2], Marcus Chibucos[1], Jennifer German[2], Christian Fung[1], Oluwasanmi Adenaiye[2], Yu Yang[1], Jianyu Lai[3], Jun Hang[1], Barbara Albert[2], Donald K. Milton[2]
[1]Walter Reed Army Institute of Research, Silver Spring, MD, United States, [2]University of Maryland School of Public Health, Institute of Applied Environmental Health, College Park, MD, United States, [3]University of Maryland School of Public Health, Department of Epidemiology and Biostatics, College Park, MD, United States

616

IMPACT OF THE COVID19 PANDEMIC ON THE INCIDENCE OF DENGUE IN PERU

Virgilio E. Failoc-Rojas[1], Rubi Plasencia-Dueñas[2], Jorge G. Cordova-Hernandez[1]
[1]Universidad Peruana Cayetano Heredia, Lima, Peru, [2]Universidad Nacional Pedro Ruiz Gallo, Lambayeque, Peru

617

EVALUATION OF FTA CARDS FOR THE PRESERVATION OF YELLOW FEVER VIRAL RNA FOR ENHANCED MOLECULAR DIAGNOSTICS

Emily Davis, Jason Velez, Brandy Russel, Amy Lambert, Aaron Brault, Holly Hughes
Centers for Disease Control and Prevention, Fort Collins, CO, United States

618

HEMOGLOBINOPATHIES AND MEROZOITE SURFACE PROTEIN-2 GENE POLYMORPHISMS ARE NOT ASSOCIATED WITH ACQUISITION OF EPSTEIN BARR VIRUS IN CHILDREN BELOW 3 YEARS OF AGE IN WESTERN KENYA

Perez Kola[1], Shehu Awandu[1], Elly O. Munde[2], Samuel B. Anyona[3], Evans Raballah[4], Asito S. Amolo[5], Sidney Ogolla[6], Caroline Ndege[7], Clinton Onyango[7], Douglas J. Perkins[8], Collins Ouma[9]

[1]Department of Biomedical Sciences, School of Health Sciences, Jaramogi Oginga Odinga University of Science and Technology, Bondo, Kenya, [2]Department of Clinical Medicine, School of Health Science, Kirinyaga University, Kerugoya, Kenya, [3]Department of Medical Biochemistry, School of Medicine, Maseno University, Maseno, Kenya, [4]Department of Medical Laboratory Sciences, School of Public Health Biomedical Sciences and Technology, Masinde Muliro University of Science and Technology, Kakamega, Kenya, [5]Department of Biological Sciences School of Biological, Physical, Mathematics and Actuarial Sciences, Jaramogi Oginga Odinga University of Science and Technology, Bondo, Kenya, [6]CASE Western University, Kenya, Kenya Medical Research Institute, Kisumu, Kenya, [7]University of New Mexico-Kenya Global Health Programs, Kisumu and Siaya, Kenya, [8]Center for Global Health, University of New Mexico, Albuquerque, NM, United States, [9]Department of Biomedical Sciences and Technology, School of Public Health and Community Development, Maseno University, Maseno, Kenya

Malaria – Diagnosis

619

DIAGNOSIS OF MALARIA IN CAMEROON: THERE IS ALSO A NEED FOR ADDRESSING NON-FALCIPARUM MALARIA!

Loick Pradel Kojom Foko[1], Francine Dorgelesse Kouemo Motse[2], Lugarde Kamgain Mawabo[3], Veena Pande[4], Vineeta Singh[1]

[1]ICMR-National Institute of Malaria Research, New Delhi, India, [2]Department of Medical Laboratory Sciences, Faculty of Health Sciences, University of Buea, Buea, Cameroon, [3]Laboratoire Sainte Thérèse, Douala, Cameroon, [4]Department of Biotechnology, Faculty of Sciences, Kumaun University, Bhimtal, India

620

HIGH PREVALENCE OF SUBMICROSCOPIC MALARIA INFECTION IN PEOPLE LIVING WITH HIV/AIDS ON ART AND COTRIMOXAZOLE PROPHYLAXIS IN FAKO DIVISION, SOUTH WEST REGION OF CAMEROON

Kwenti Emmanuel Tebit, Fru G. Mbah-Mbole, Ntasin V. Nyuybini, Mbigha G. Ghogomu

University of Buea, Buea, Cameroon

(ACMCIP Abstract)

621

DETECTION OF MALARIA AS A MAJOR CAUSE OF ACUTE FEBRILE ILLNESS: FINDINGS FROM AN ACUTE FEBRILE ILLNESS SURVEILLANCE ACTIVITY IN TWO URBAN HEALTH FACILITIES IN LIBERIA

Madeline R. Farron[1], Elijah Paa Edu-Quansah[2], Amanda Balish[1], G. Burgess Gbelee Jr[3], Terrence Lo[1], Daniel W. Martin[1], Gulu Gwesa[4], Denise Roth Allen[4], Maame P. Amo-Addae[2], Ashaba Davis[5], John B. Dogba[3], Fahn M. Taweh[3], Lekilay Tehmeh[6], Thelma V. Nelson[7], Diabe Dore[8], Williamatta S. Williams-Gibson[9], Michael Aidoo[1], Darwin J. Operario[10], Jie Liu[10], Eric Houpt[10], Adam L. Cohen[1], Marta A. Guerra[1], Mamadou O. Diallo[4], Desmond Williams[4]

[1]US Centers for Disease Control & Prevention, Atlanta, GA, United States, [2]African Field Epidemiology Network, Monrovia, Liberia, [3]National Public Health Reference Laboratory of Liberia, Charlesville, Liberia, [4]US Centers for Disease Control & Prevention, Monrovia, Liberia, [5]African Field Epidemiology Network, Kampala, Uganda, [6]Ministry of Health of Liberia, Monrovia, Liberia, [7]National Public Health Institute of Liberia, Monrovia, Liberia, [8]Star of the Sea Health Centre, Monrovia, Liberia, [9]Redemption Hospital, Monrovia, Liberia, [10]University of Virginia, Charlottesville, VA, United States

622

MORPHOLOGY-BASED AUTOMATED MICROSCOPY MALARIA TEST TO OVERCOME THE LIMITATION OF HRP2 RDT IN THE REGION OF A HIGH PREVALENCE OF HRP2 DELETION IN ETHIOPIA, GONDAR

Hyemi Park[1], Lise Carlier[1], Wossenseged Lemma[2], Hans-Peter Beck[1], Cristian Koepfli[3], Dongyoung Lee[1]

[1]Noul, Yongin-si, Republic of Korea, [2]Gondar University, Gondar, Ethiopia, [3]University of Notre Dame, Notre Dame, IN, United States

623

CASE REPORT - IDENTIFICATION OF *PLASMODIUM VIVAX* INFECTION IN RWANDA

Jessica N. McCaffery[1], Douglas Nace[1], Aline Uwimana[2], Naomi Lucchi[1], Eric S. Halsey[1], Eric Rogier[1]

[1]Malaria Branch, Division of Parasitic Diseases and Malaria, Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Malaria and Other Parasitic Diseases Division, Rwanda Biomedical Center, Kigali, Rwanda

624

PRELIMINARY VALIDATION OF A NOVEL POINT-OF-CARE HAEMOZOIN ASSAY (GAZELLE™) FOR RAPID DETECTION OF *PLASMODIUM KNOWLESI* MALARIA IN SABAH, EAST MALAYSIA

Angelica F. Tan[1], Priyaleela Thota[2], Sitti Saimah B. Sakam[3], Timothy William[4], Bridget E. Barber[5], Giri S. Rajahram[3], Nicholas M. Anstey[1], Anne Rocheleau[2], David Bell[2], Matthew J. Grigg[1]

[1]Menzies School of Health Research, Global Tropical Health Division, Casuarina, Australia, [2]Hemex Health, Portland, OR, United States, [3]Infectious Diseases Society Kota Kinabalu, Sabah, Malaysia, [4]Clinical Research Centre, Queen Elizabeth Hospital, Ministry of Health, Sabah, Malaysia, [5]Menzies School of Health Research, Charles Darwin University, Casuarina, Australia

625

DELETIONS IN *HRP2* GENE IN *PLASMODIUM FALCIPARUM* ISOLATES IN BENIN

Sébastien Dechavanne[1], Yannelle Dossou[2], Jeannine Hotchihoue[2], Bertin Vianou[2], Darius Sossou[2], Boris Enock Zinsou[2], Aurax Fernando[2], Romuald Akoho[2], Achille Massougbodji[2], Nadine Fievet[1], Gilles Cottrell[1], Celia Dechavanne[1]

[1]UMR261 MERIT, IRD, Cotonou, Benin, [2]Centre d'Etude et de Recherche sur le Paludisme Associé à la Grossesse et à l'Enfance (CERPAGE), Faculté des Sciences de la Santé (FSS), Cotonou, Benin

626

DELETIONS OF THE *PFHRP2* AND *PFHRP3* GENES IN A HIGH PERCENTAGE OF *PLASMODIUM FALCIPARUM* INFECTIONS: DJIBOUTI CITY, DECEMBER 2019 TO MARCH 2020

Eric Rogier[1], Jessica McCaffery[1], Mohamed Ali[2], Camelia Herman[1], Doug Nace[1], Sophie Jones[1], Ira Goldman[1], Michael Aidoo[1], Ghasem Zamani[3], Venkatachalam Udhayakumar Udhayakumar[1], Jane Cunningham[4]

[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Hôpital Général Peltier, Djibouti City, Djibouti, [3]World Health Organization, Djibouti City, Djibouti, [4]World Health Organization, Geneva, Switzerland

627

VALIDATION STUDY OF A NEW POINT-OF-CARE HEMOZOIN BASED MALARIA DIAGNOSTIC DEVICE GAZELLE™ IN INDIA

Anil Kumar Verma[1], Priyaleela Thota[2], Madhav Patel[1], Digvijay shah[1], Shweta Srivas[1], Praveen K. Bharti[1]

[1]National Institute of Research in Tribal Health, Jabalpur, India, [2]Hemex Health, Portland, OR, United States

628

IMPROVING THE COMPETENCE OF MALARIA MICROSCOPISTS THROUGH BASIC MALARIA DIAGNOSTIC REFRESHER TRAINING, MADAGASCAR, 2019-2021

Oméga Raobela[1], Rénion Saye[2], Pharath Lim[2], Sandy M. Ralisata[1], Daouda Ndiaye[3], Lennie B. Kyomuhangi[2], Julie Buekens[2], Jocelyn Razafindrakoto[4], Catherine Dentinger[5], Laurent Kapesa[4], Stéphane M. Rabearimanana[6], Ralinoro Fanomezantsoa[6], Tovonahary A. Rakotomanga[6], Yves Marie Bernard[2], Jehan Ahmed[2], Arsène C. Ratsimbasoa[7]

[1]PMI Impact Malaria, Antananarivo, Madagascar, [2]PMI Impact Malaria, Washington, DC, United States, [3]Department of Parasitology and Mycology, Cheikh Anta Diop University, Dakar, Senegal, [4]US President's Malaria Initiative, Antananarivo, Madagascar, [5]Centers for Disease Control and Prevention, Atlanta, GA, United States, [6]National Malaria Control Program, Antananarivo, Madagascar, [7]Faculty of Science, University of Antananarivo, Antananarivo, Madagascar

629

SERIOUS HAEMOLYSIS DURING PRIMAQUINE RADICAL CURE TREATMENT OF *PLASMODIUM VIVAX* MALARIA: A SYSTEMATIC REVIEW AND DESCRIPTIVE ANALYSIS

Daniel Yilma[1], Emily Groves[2], Rob Commons[2], Nick Douglas[2], Kamala Ley-Thriemer[2], Wuelton M. Monteiro[3], Jose Diego Brito-Sousa[3], Cindy Chu[4], Marcus V.G. Lacerda[5], Ric Price[2]

[1]Jimma University, Jimma, Ethiopia, [2]Menzies School of Health Research, Darwin, Australia, [3]Universidade do Estado do Amazonas, Manaus, Brazil, [4]Shoklo Malaria Research Unit, Mae Sot, Thailand, [5]Fundação de Medicina Tropical Dr. Heitor Vieira Dourado, Manaus, Brazil

630

OPTIMIZATION OF OTSS+TO IMPROVE MALARIA DIAGNOSTIC SERVICE DELIVERY IN SIERRA LEONE

Fay Chalobah[1], Rogers Dena[2], Doris Harding[3], Zikan Koroma[3], Emmanuel Yamo[2], Julie Buekens[2], Keith Esch[2], Lennie Kyomuhangi[2], Kwabena Larbi[1], Temitayo Labor[1], Ramlat Jose[4], Anitta Kamara[5]

[1]PMI Impact Malaria, Freetown, Sierra Leone, [2]PMI Impact Malaria, Washington, DC, United States, [3]Directorate of Laboratory Diagnosis, Freetown, Sierra Leone, [4]President's Malaria Initiative, Freetown, Sierra Leone, [5]Sierra Leone National Malaria Control Program, Freetown, Sierra Leone

631

DETECTION OF NUCLEIC ACIDS EXTRACTED FROM RAPID DIAGNOSTIC TESTS REVEALS A SIGNIFICANT PROPORTION OF FALSE POSITIVE TEST RESULTS ASSOCIATED WITH RECENT MALARIA TREATMENT

Salome Hosch[1], Charlene Yoboue[1], Olivier Tresor[2], Etienne Guirou[1], Jean-Pierre Dangy[1], Maxmilian Mpina[3], Elizabeth Nyakarungu[3], Koranan Bloechliger[1], Carlos A. Guerra[2], Wonder P. Phiri[2], Mitoha Ondo'o Ayekaba[4], Guillermo A. Garcia[2], Marcel Tanner[1], Claudia Daubenberger[1], Tobias Schindler[1]

[1]Swiss Tropical and Public Health Institute, Basel, Switzerland, [2]Medical Care Development International, Malabo, Equatorial Guinea, [3]Ifakara Health Institute, Bagamoyo, United Republic of Tanzania, [4]Ministry of Health and Social Welfare, Malabo, Equatorial Guinea

632

REINFORCING MICROSCOPY SKILLS DURING MALARIA DIAGNOSIS REFRESHER TRAININGS TO IMPROVE THE QUALITY OF MALARIA DIAGNOSIS IN THE DEMOCRATIC REPUBLIC OF CONGO (DRC)

Ange Landela[1], Seraphine Kutumbakana Kimwesa[1], Anselme Manyong Kapit[1], Lennie Kyomuhangi[2], Julie Buekens[2], Jordan M. Smith[2], Nicole Carbone[3], Dieudonne Mumba Ngoyi[4], Godefroid Tshiswaka Bondo[5], Eric Mukomena Sompwe[6], Renion Saye[7]

[1]PMI Impact Malaria, MCDI, Kinshasa, Democratic Republic of the Congo, [2]PMI Impact Malaria, MCDI, Silver Spring, MD, United States, [3]PMI Impact Malaria, PSI, Washington, DC, United States, [4]Institut National de Recherche Biomedicale, Kinshasa, Democratic Republic of the Congo, [5]USAID, Kinshasa, Democratic Republic of the Congo, [6]National Malaria Control Program, MOH, Kinshasa, Democratic Republic of the Congo, [7]PMI Impact Malaria, MCDI, Bamako, Mali

Malaria – Drug Development – Clinical Trials

633

A PHASE IB CLINICAL TRIAL OF BLOOD STAGE MALARIA INFECTION AFTER DIRECT VENOUS INOCULATION OF *PLASMODIUM FALCIPARUM* SPOROZOITES (*PF*SPZ-DVI) FOR EVALUATING NEW ANTIMALARIAL DRUGS

Mohamed Farouk Chughlay[1], **Stephan Chalon**[1], Myriam El Gaaloul[1], Nathalie Gobeau[1], Joerg J. Moehrle[1], Pieter-Jan Berghmans[2], Katrin Van Leuven[2], Michael W. Marx[3], Anna Rosanas-Urgell[4], Julia Flynn[1], Emilie Escoffier[1], Daniel I. Juncàs[2], Bastiaan Jansen[2], Venelin Mitov[5], Anne Kümmel[5], Jean-Pierre van Geertruyden van Geertruyden[6], Karen I. Barnes[7]

[1]Medicines for Malaria Venture, Geneva, Switzerland, [2]SGS Life Sciences, Antwerp, Belgium, [3]ICON Clinical Research GmbH, Langen, Germany, [4]Institute of Tropical Medicine, Antwerp, Belgium, [5]IntiQuan GmbH, Basel, Switzerland, [6]University of Antwerp, Global Health Institute, Antwerp, Belgium, [7]University of Cape Town, Division of Clinical Pharmacology, Department of Medicine, Cape Town, South Africa

634

COMPARISON OF DIFFERENT GENOTYPING TECHNIQUES TO DIFFERENTIATE *PLASMODIUM FALCIPARUM* RECRUDESCENCE FROM NEW INFECTIONS IN ANTIMALARIAL DRUG EFFICACY STUDIES

Annina Schnoz[1], Liliana K. Rutaihwa[1], Maura Concu[1], Carla Beuret[1], Salomé Hosch[1], Maria Gruenberg[1], Anita Lerch[2], **Christian Nsanzabana**[1]

[1]Swiss Tropical and Public Health Institute, Basel, Switzerland, [2]University of Notre Dame, Notre Dame, IN, United States

635

MALARIA DURING PREGNANCY: EFFECTS OF IPTP WITH DP, DPAZ AND SP ON MATERNAL IMMUNE ACTIVATION AND *PLASMODIUM FALCIPARUM* CLEARANCE

Amaya Ortega[1], Feiko ter Kuile[2], Mwayi Madanitsa[3], Victor Mwapasa[4], Kenneth Maleta[4], Kamija Phiri[4], Stephen Rogerson[1]

[1]Department of Infectious Diseases,The Peter Doherty Institute for Infection and Immunity, Melbourne, Australia, [2]Kenya Medical Research Institute, Centre for Global Health Research, Kisumu, Kenya, [3]College of Medicine, University of Malawi Department of Community Health, Blantyre, Malawi, [4]University of Malawi, College of Medicine, Blantyre, Malawi

636

MALARIA POSITIVITY FOLLOWING A SINGLE ORAL DOSE OF AZITHROMYCIN AMONG CHILDREN IN BURKINA FASO: A RANDOMIZED CONTROLLED TRIAL

Jessica Brogdon[1], Clarisse Dah[2], Ali Sié[2], Mamadou Bountogo[2], Boubacar Coulibaly[2], Idrissa Kouanda[2], Mamadou Ouattara[2], Guillaume Compaoré[2], Eric Nebie[2], Mariam Seynou[2], Elodie Lebas[1], Fanice Nyatigo[1], Benjamin F. Arnold[1], Thomas M. Lietman[1], Catherine E. Oldenburg[1]

[1]University of California, San Francisco FI Proctor Foundation, San Francisco, CA, United States, [2]Centre de Recherche en Santé de Nouna, Nouna, Burkina Faso

637

A DIVERSE GLOBAL FUNGAL LIBRARY FOR DRUG DISCOVERY

Guodong Niu[1], Thirunavukkarasu Annamalai[1], Xiaohong Wang[1], Sheng Li[2], Stephen Munga[3], Guomin Niu[4], Yuk-Ching Tse-Dinh[1], Jun Li[1]

[1]Florida International University, Miami, FL, United States, [2]City University of New York, New York, NY, United States, [3]Kenya Medical Research Institute, Kisumu, Kenya, [4]Southern Medical University Affiliated Nanhai Hospital, Foshan, China

(ACMCIP Abstract)

638

POST-TREATMENT TRANSAMINASE ELEVATIONS IN MALARIA VOLUNTEER INFECTION STUDIES: DETERMINING WHAT IS CONSIDERED SIGNIFICANT

Anand A. Odedra[1], Lachlan Webb[2], Louise Marquart[2], Laurence J. Britton[3], Stephan Chalons[4], Bridget E. Barber[2], David G. Lalloo[1], James S. McCarthy[5]

[1]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [2]Queensland Institute of Medical Research Berghofer, Brisbane, Australia, [3]Princess Alexandra Hospital, Brisbane, Australia, [4]Medicines for Malaria Venture, Geneva, Switzerland, [5]The Peter Doherty Institute for Infection and Immunity, Melbourne, Australia

639

FIRST-IN-HUMAN EVALUATION OF A *P. FALCIPARUM* TRANSMISSION-BLOCKING MONOCLONAL ANTIBODY

Saskia C. van der Boor[1], Merel J. Smit[1], Stijn W. van Beek[2], Jordache Ramjith[1], Peter Pickkers[3], Yimin Wu[4], Emily Locke[4], Kazutoyo Miura[5], Robert W. Sauerwein[1], Rob ter Heine[2], Teun Bousema[1], Christian F. Ockenhouse[4], Matthijs M. Jore[1], Matthew B. McCall[1]

[1]Medical Microbiology, Radboud University Medical Center, Nijmegen, Netherlands, [2]Clinical Pharmacology, Radboud University Medical Center, Nijmegen, Netherlands, [3]Intensive Care, Radboud University Medical Center, Nijmegen, Netherlands, [4]PATH's Center for Vaccine Innovation and Access, Seattle, WA, United States, [5]Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institute of Health, Bethesda, MD, United States

640

IMMUNIZATION OF WOMEN OF CHILDBEARING POTENTIAL WITH PFSPZ VACCINE PRIOR TO PREGNANCY IN OUÉLESSÉBOUGOU, MALI: SAFETY DURING SUBSEQUENT PREGNANCY, POSTPARTUM AND INFANCY PERIODS

Djibrilla Issiaka[1], Halimatou Diawara[1], Sara Healy[2], Aye Sousa Diallo[2]

[1]Malaria Research & Training Center, Faculty of Medicine, Pharmacy and Dentistry, University of Bamak, Bamako, Mali, [2]Laboratory of Malaria Immunology and Vaccinology, NIAID/NIH, Washington, DC, United States, Bamako, Mali

641

EXTENDED DURATION ARTEMETHER-LUMEFANTRINE FOR THE TREATMENT OF *PLASMODIUM FALCIPARUM* MALARIA IN HIV-UNINFECTED CHILDREN IN UGANDA: A RANDOMIZED PK/PD CLINICAL TRIAL

Richard Kajubi[1], Meghan Whalen[2], Francis Orukan[1], Justin Goodwin[3], McKenzie Colt[3], McKenzie Colt[3], Kacey Richards[3], Martina Wade[3], Moses Were[1], Florence Marzan[2], Liusheng Huang[2], Norah Mwebaza[1], Francesca Aweeka[2], **Sunil Parikh**[3]

[1]Infectious Diseases Research Collaboration, Kampala, Uganda, [2]University of California - San Francisco, San Francisco, CA, United States, [3]Yale School of Public Health, New Haven, CT, United States

642

AN ADAPTIVE, RANDOMIZED, ACTIVE-CONTROLLED, OPEN-LABEL, SEQUENTIAL COHORT, MULTICENTER STUDY TO EVALUATE THE EFFICACY, SAFETY, TOLERABILITY, AND PHARMACOKINETICS OF INTRAVENOUS CIPARGAMIN (KAE609) IN ADULT AND PEDIATRIC PARTICIPANTS WITH SEVERE *PLASMODIUM FALCIPARUM* MALARIA (KARISMA - KAE609'S ROLE IN SEVERE MALARIA)

PAMAFRICA KAE609 Consortium PAMAFRICA KAE609 Consortium

Novartis Pharma AG, MMV, University of Tubingen, Basel, Geneva, Tubingen, Switzerland

Malaria – Drug Development – Preclinical Studies

643

MECHANISM OF ACTION STUDIES OF PHENOTYPIC WHOLE CELL-ACTIVE ANTIMALARIAL LEADS; IDENTIFYING NOVEL TARGETS FOR THE TREATMENT OF MALARIA

Constance Mawunyo Korkor[1], Kathryn Witch[1], David Fidock[2], Timothy Egan[1], Kelly Chibale[1]

[1]University of Cape Town, Cape Town, South Africa, [2]Columbia University, New York, NY, United States

644

NOVEL MULTIPLE-STAGE ACTIVE ANTIMALARIAL TAMBJAMINES

Papireddy Kancharla[1], Yuexin Li[2], Brandon Pybus[3], Alison Roth[3], Mara Kreishman-Deitrick[3], Chad Black[3], Qigui Li[3], Christina Nolan[3], Jason Sousa[3], Jane Kelly[2], Kevin Reynolds[1]

[1]Portland State University, Portland, OR, United States, [2]Portland VA Medical Center, Portland, OR, United States, [3]Walter Reed Army Institute of Research, Silver Spring, MD, United States

Malaria – Epidemiology

645

MEASUREMENT OF OOCYST AND SPOROZOITE INFECTION RATES IN *AN. GAMBIAE S.L.* UNDER NATURAL CONDITIONS IN BANCOUMANA, MALI

Daman Sylla[1], Adama Sacko[1], Jen C. Hume[2], Abdrahamane Fofana[1], Heather Goodman[2], Boubacar Coulibaly[1], Makan Camara[1], Moussa Diallo[1], Salifou M. Kone[1], Gaoussou Fofana[1], Sekou Goita[1], Moridie Sidibe[1], Sale Sidibe[1], Yacouba Dembele[1], Yacouba Diarra[1], Chata Doumbia[1], Boubacar Tembely[1], Amadou Sekou Traore[1], Issaka Sagara[1], Patrick E. Duffy[2], Mamadou B. Coulibaly[1]

[1]USTTB, Bamako, Mali, [2]LMIV/NIAID/NIH, Bethesda, MD, United States

646

ANEMIA AND MALARIA INCIDENCE BETWEEN 2007-2018 IN UNSTABLE MALARIA TRANSMISSION SETTING OF WESTERN KENYA

Shehu S. Awandu[1], Lindsey B. Turnbull[2], Caitlin Bond[2], George Ayodo[1], Chandy C. John[2]
[1]Jaramogi Oginga Odinga University of Science and Technology, Bondo, Kenya, [2]Indiana University, Indianapolis, IN, United States

647

RISK FACTORS FOR BORDER MALARIA IN A LOW TRANSMISSION SETTING: A CASE-CONTROL STUDY IN JAZAN, SAUDI ARABIA

Shaymaa A. Abdalal[1], Joseph Keating[1], Hassan M. Ozayr[2], Hussan A. Alkhayri[2]
[1]Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States, [2]Center of Vector Born disease , Public Health Department Ministry of Health, Jazan, Saudi Arabia

648

POPULATION SIZE ESTIMATION OF SEASONAL FOREST GOING POPULATIONS IN CHAMPASAK PROVINCE, SOUTHERN LAO PDR

Francois Rerolle[1], Gerald Jacobson[1], Paul Wesson[1], Emily Dantzer[1], Bouasy Hongvanthong[2], Jennifer Smith[1], John Marshall[3], Hugh Sturrock[1], Adam Bennett[1]
[1]UCSF, San Francisco, CA, United States, [2]CMPE, Vientiane, Lao People's Democratic Republic, [3]UC Berkeley, Berkeley, CA, United States

649

THE IMPACT OF THE COVID19 PANDEMIC ON CARE SEEKING AND IMPLICATIONS FOR THE PROCESS OF CERTIFYING MALARIA ELIMINATION IN CABO VERDE

Adilson De PINA[1], Amanda Tiffany[2], Gillian Stresman[3]
[1]National Malaria Program, Ministry of Health, Praia, Cape Verde, [2]Global Malaria Programme, World Health Organization, Geneve, Switzerland, [3]London School of Hygiene & Tropical Medicine, London, United Kingdom

650

PREDICTORS OF HUMAN-TO-MOSQUITO *PLASMODIUM FALCIPARUM* TRANSMISSION IN A HIGH TRANSMISSION AREA OF WESTERN KENYA

Erica E. Zeno[1], Kelsey M. Sumner[1], Elizabeth Freedman[2], Lucy Abel[3], Andrew Obala[4], Judith Mangeni[5], Brian W. Pence[1], Amy Wesolowski[6], Wendy Prudhomme-O'Meara[7], Steve M. Taylor[2]
[1]Department of Epidemiology, Gillings School of Global Public Health, University of North Carolina, Chapel Hill, NC, United States, [2]Division of Infectious Diseases, School of Medicine, Duke University, Durham, NC, United States, [3]Academic Model Providing Access to Healthcare, Moi Teaching and Referral Hospital, Eldoret, Kenya, [4]School of Medicine, College of Health Sciences, Moi University, Eldoret, Kenya, [5]School of Public Health, College of Health Sciences, Moi University, Eldoret, Kenya, [6]Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [7]Duke Global Health Institute, Durham, NC, United States

651

DECLINES IN MODERATE AND SEVERE ANEMIA DURING A LONGITUDINAL STUDY IN HIGH MALARIA TRANSMISSION REGIONS OF KINSHASA, DEMOCRATIC REPUBLIC OF THE CONGO

Rachel Sendor[1], Kristin Banek[1], Melchior Kashamuka Mwandagalirwa[2], Nono Mvuama[2], Joseph A. Bala[2], Marthe Nkalani[2], Georges Kihuma[2], Joseph Atibu[2], Thwai Kyaw[1], Varun Goel[1], Jeffrey Bailey[3], Jonathan J. Juliano[1], Michael Emch[1], Margaret Carrel[4], Antoinette Tshefu[2], Jonathan Parr[1]
[1]University of North Carolina Chapel Hill, Chapel Hill, NC, United States, [2]Kinshasa School of Public Health, Kinshasa, Democratic Republic of the Congo, [3]Brown University, Providence, RI, United States, [4]University of Iowa, Iowa City, IA, United States

652

INFECTIVITY OF CLINICAL AND ASYMPTOMATIC MALARIA CASES TO *ANOPHELES FARAUTI S. S.*MOSQUITOES IN PAPUA NEW GUINEA

Lincoln Timinao[1], Rebecca Vinit[1], Esther W. Jamea[1], Elma Nate[1], Henson Dima[1], Clemencia Ibam[1], Thomas R. Burkot[2], Louis Schofield[2], Moses Laman[1], Ivo Mueller[3], Leanne Robinson[4], Stephan Karl[2]
[1]Papua New Guinea Institute of Medical Research, Madang, Papua New Guinea, [2]Australian Institute of Tropical Health and Medicine, Cairns, Australia, [3]Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia, [4]Burnet Institute, Melbourne, Australia

653

MALARIA SURVEILLANCE AND RESISTANCE PATTERNS IN THE ENDEMIC BORDER REGIONS OF THAILAND, 2019-2021 MALARIA SURVEILLANCE AND RESISTANCE PATTERNS IN THE ENDEMIC BORDER REGIONS OF THAILAND, 2019-2021

Michele Spring[1], Krisada Jongsakul[1], Worachet Kuntawunginn[1], Siriporn Sornsakrin[1], Phimpan Pisutsan[1], Nithinart Chaitaveep[2], Preeyaporn Suida[3], Lertsethtakarn Paphavee[1], Nonlawat Boonyalai[1], Kingkan Pidtana[1], Piyaporn Sai-ngam[1], Kirakarn Kirativanich[1], Montri Arsanok[1], Chaiyaporn Chaisatit[1], Parat Boonyarangka[1], Saowaluk Wongarunkochakorn[1], Mark Fukuda[1], Nicholas Martin[1], John S. Griesenbeck[1], Shannon Takala-Harrison[4], Brian Vesely[1], Mariusz Wojnarski[1], Mariusz Wojnarski[1], Sutchana Tabprasit[2], Chatree Raseebut[5], Danai Jaerakul[5], Chokchai Khuanpichit[3], Prayut Sudathip[6], Norman Waters[1]
[1]Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, [2]Royal Thai Army-Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, [3]Royal Thai Army, Yala, Thailand, [4]University of Maryland-Baltimore, Baltimore, MD, United States, [5]Thai Ministry of Public Health, Ubon Ratchathani, Thailand, [6]Thai Ministry of Public Health, Bangkok, Thailand

654

BURDEN, DETECTABILITY AND CLINICAL IMPACT OF *PLASMODIUM FALCIPARUM* INFECTION ON PREGNANT MOZAMBICAN WOMEN IN TRANSITIONING EPIDEMIOLOGIES

Glória Graça Matambisso[1], Sonia Maculuve[1], Pau Cistero[2], Henriques Mbeve[1], Gizela Bambo[1], Judice Miguel[1], Helena Buetas[2], Ianthe Jong[2], Ramón Díaz-Regañón[2], Boaventura Cuna[1], Cardoso Melembe[1], Nelo Ndimande[1], Gemma Porras[2], Haily Chen[2], Llorenç Quintó[2], Eusébio Macete[1], Alfredo Mayor[2]
[1]Manhiça Health Research Center (CISM), Manhica District, Mozambique, [2]Barcelona Institute for Global Health (ISGlobal), Barcelona, Spain

655

IDENTIFYING MALARIA ASSOCIATED RISK FACTORS AMONG ADOLESCENTS LIVING IN AREAS WITH RESIDUAL MALARIA TRANSMISSION IN SENEGAL: A CASE CONTROL STUDY

Fassiatou Tairou[1], Abdoulaye Diallo[2], Ousmane Sy[1], Aminatou Kone[3], Isaac Akhenaton Manga[1], Souleye Lelo[1], Cheikh Binetou Fall[1], Khadim Sylla[1], Doudou Sow[1], Magatte Ndiaye[1], Babacar Faye[1], Roger C K Tine[1]
[1]University Cheikh Anta Diop of Dakar, Dakar, Senegal, [2]Ministry of Health and Social Action, Dakar, Senegal, [3]Malaria Research and Training Center, University of Bamako, Mali, Bamako, Mali

656

MALARIA DEATHS EVOLUTION FROM 2015 TO 2019 IN THE DEMOCRATIC REPUBLIC OF CONGO (DRC)

Hyacinthe Kaseya Ilunga[1], Eric Mukomena Sompwe[1], Xavier Mwema[1], Meschac Mutombo[1], Packy Mbayo[1], Johanna Karemere Nzigire[2]
[1]DRC National Malaria Control Progam, Kinshasa, Democratic Republic of the Congo, [2]U.S. President's Malaria Initiative Measure Malaria/ICF, Chapel Hill, NC, United States

657

BOTTLENECKS TO INTERVENTION SCALE UP: SUPPLY AND DEMAND SIDE PERSPECTIVES FROM A LARGE, COMMUNITY-BASED TRIAL OF MALARIA TESTING IN WESTERN KENYA

Joseph Kipkoech[1], Lucy Abel[1], Edna Sang[2], George Ambani[1], Erick Nalianya[1], Jane Namae[1], Diana Menya[1], Josephine Malinga[3], Wendy Prudhomme-O'Meara[3]
[1]Academic Model Providing Access to Healthcare, Eldoret, Kenya, [2]Duke Global Health Institute, Eldoret, Kenya, [3]Duke Global Health Institute, Durham, NC, United States

658

HIGH-RESOLUTION SUB-DISTRICT STRATIFICATION OF MALARIA RISK IN ZANZIBAR

Shabbir Lalji[1], Donal Bisanzio[2], Humphrey Mkali[1], Abdul-wahid Al-mafazy[1], Joseph Joseph[1], Ssanyu Nyinondi[1], Faiza Abbas[3], Mohamed Ali[3], Wahida Hassan[3], Chonge Kitojo[4], Naomi Serbantez[4], Erik Reaves[5], Mike McKay[2], Jeremiah Ngondi[2], Richard Reithinger[2], Erin Eckert[2]
[1]RTI International, Dar es Salaam, United Republic of Tanzania, [2]RTI International, Washington, DC, United States, [3]Zanzibar Malaria Elimination Programme, Zanzibar, United Republic of Tanzania, [4]US President's Malaria Initiative, United States Agency for International Development, Dar es Salaam, United Republic of Tanzania, [5]US President's Malaria Initiative, US Centers for Disease Control and Prevention, Dar es Salaam, United Republic of Tanzania

659

SYMPTOMATIC MALARIA IS ASSOCIATED WITH REDUCED RISK OF REINFECTION WITH *PLASMODIUM FALCIPARUM* PARASITES HARBORING HOMOLOGOUS CIRCUMSPOROZOITE PROTEIN EPITOPES

Jens E. Petersen[1], Kelsey Sumner[2], Elizabeth Freedman[1], Judith N. Mangeni[3], Lucy Abel[4], Andrew A. Obala[3], Wendy Prudhomme-O'Meara1[1], Steve M. Taylor[1]
[1]Duke University, Durham, NC, United States, [2]University of North Carolina, Chapel Hill, NC, United States, [3]Moi University, Eldoret, Kenya, [4]Moi Teaching and Referral Hospital, Eldoret, Kenya

660

IMPACT OF PROACTIVE COMMUNITY CASE MANAGEMENT ON MALARIA AND ANEMIA PREVALENCE AMONG PREGNANT WOMEN IN BANKASS, MALI

Kassoum Kayentao[1], Saibou Doumbia[1], Jane Yang[1], Caroline Whidden[1], Emily Treleaven[2], Julie Thwing[3], Ari Johnson[1]
[1]MUSO, Bamako, Mali, [2]Institute for Social Research, University of Michigan, Ann Arbor, MI, United States, [3]Centers for Disease Control and Prevention, Atlanta, GA, United States

661

PEDIATRIC MALARIA DETERMINANTS AND RISK MAPPING WITHOUT CLINICAL DATA IN SUSSUNDENGA MUNICIPALITY, MOZAMBIQUE

João Luis Ferrão[1], Dominique Earland[2], Roberto Mendes[3], Kelly M. Searle[2]
[1]Instituto Superior de Ciencias e Educacao a Distancia, Beira, Mozambique, [2]University of Minnesota, Mineapolis, MN, United States, [3]Universidade Catolica de Mocambique, Beira, Mozambique

662

EXPLORING DISCREPANCIES BETWEEN MALARIA TEST POSITIVITY RATES FROM AUTOMATED READERS AND ROUTINE SURVEILLANCE DATA IN THE DEMOCRATIC REPUBLIC OF CONGO

Michael Humes
USAID - PMI, Washington, DC, United States

663

SPATIO-TEMPORAL DYNAMICS OF MALARIA IN ZANZIBAR

Donal Bisanzio[1], Shabbir Lalji[2], Humphrey R. Mkali[2], Abdul-wahid Al-mafazy[2], Joseph J. Joseph[2], Ssanyu S. Nyinondi[2], Faiza B. Abbas[3], Mohamed H. Ali[3], Wahida S. Hassan[3], Chonge Kitojo[4], Naomi Serbantez[4], Mike McKay[1], Erin Eckert[1], Jeremiah Ngondi[1], Richard Reithinger[1]
[1]RTI International, Washington, DC, United States, [2]RTI International, Dar es Salaam, United Republic of Tanzania, [3]Zanzibar Malaria Elimination Programme, Ministry of Health, Zanzibar, United Republic of Tanzania, Zanzibar, United Republic of Tanzania, [4]US President's Malaria Initiative, United States Agency for International Development, Dar es Salaam, United Republic of Tanzania

664

COMPREHENSIVE ASSESSMENT OF HETEROGENEITY OF MALARIA PREVALENCE AMONG CHILDREN UNDER FIVE YEARS IN THREE MALARIA ENDEMIC SUB-REGIONS OF UGANDA

Anthony Nuwa[1], Geofrey Beinomugisha[1], Geofrey Magumba[1], David Salandini[1], Flavia Mpanga[2], Francis Abwaimo[1], Musa Odongo[1], Maureen Amutuhaire[1], Robinah Lukwago[3], Fred Kagwire[2], Shirah Karungi[1], James Tibenderana[4]
[1]Malaria Consortium Uganda, Kampala, Uganda, [2]Unicef, Uganda, Kampala, Uganda, [3]Foreign, Commonwealth & Development Office, Uganda, Kampala, Uganda, [4]Malaria Consortium Uganda, London, United Kingdom

665

MULTIPLE ARTEMISININ-BASED COMBINATION THERAPIES REMAIN EFFECTIVE FOR *PLASMODIUM FALCIPARUM* MALARIA IN MALI: A SYSTEMATIC REVIEW AND META-ANALYSIS

Fatoumata O. Maiga[1], Mamadou Wele[1], Sounkou Toure[1], Makan Keita[1], Cheick Oumar Tangara[1], Randi R. Refeld[2], Oumar Thiero[1], Kassoum Kayentao[1], Mahamadou Diakite[1], Antoine Dara[1], Jian Li[2], Mahamoudou Toure[1], Issaka Sagara[1], Abdoulaye Djimdé[1], Frances J. Mather[2], Seydou O. Doumbia[1], Jeffrey G. Shaffer[2]
[1]University of Sciences, Techniques and Technologies of Bamako, Bamako, Mali, [2]Tulane University, New Orleans, LA, United States

666

IMPACTS OF SEVERE CYCLONES ON MALARIA RISK ALONG THE MOZAMBIQUE AND ZIMBABWE BORDER

Kelly M. Searle[1], Dominique Earland[1], Anísio Novela[2], Albino Bibe[3], João L. Ferrão[4]
[1]University of Minnesota, Minneapolis, MN, United States, [2]Direccao Distrital de Saúde de Sussundenga, Manica, Sussundenga, Mozambique, [3]Escola Secondária de Sussundenga, Sussundenga, Mozambique, [4]Instituto Superior de Ciências de Educação, Beira, Mozambique

Malaria – Genetics/Genomics

667

BULK SEGREGANT APPROACHES TO FINDING DRUG RESISTANCE LOCI IN *PLASMODIUM FALCIPARUM*

Katelyn M. Vendrely[1], Katrina A. Button-Simons[1], Xue Li[2], Sudhir Kumar[3], Lisa A. Checkley[1], Haley Dahlhoff[1], Marina McDew-White[4], Nelly Camargo[3], Ann Reyes[2], Meseret T. Haile[3], Spencer Y. Kennedy[3], Douglas A. Shoue[1], Abeer Sayeed[2], François H. Nosten[5], Stefan H. Kappe[3], Ian H. Cheeseman[6], Ashley M. Vaughan[3], Timothy J.C. Anderson[2], Michael T. Ferdig[1]

[1]Eck Institute for Global Health, Department of Biological Sciences, University of Notre Dame, Notre Dame, IN, United States, [2]Disease Intervention and Prevention Program, Texas Biomedical Research Institute, San Antonio, TX, United States, [3]Center for Global Infectious Disease Research, Seattle Children's Research Institute, Seattle, WA, United States, [4]Disease Intervention and Prevention Program, Texas Biomedical Research Institute, San Antonio, IN, United States, [5]Shoklo Malaria Research Unit, Mahidol-Oxford Tropical Medicine Research Unit, Mahidol University, Mae Sot, Thailand, [6]Host Pathogen Interactions Program, Texas Biomedical Research Institute, San Antonio, TX, United States

(ACMCIP Abstract)

668

WHOLE GENOME ANALYSIS OF 4 KENYAN *PLASMODIUM FALCIPARUM* STRAINS AS A PROOF OF CONCEPT OF DOWNSELECTION FOR CONTROLLED HUMAN MALARIA INFECTION (CHMI)

Elgin Akin[1], Janette Moch[1], Saba Alemayehu[1], Ben Andagalu[2], Edwin Kamau[3], Alexander Pichugin[1]

[1]Walter Reed Army Institute of Research, Silver Spring, MD, United States, [2]United States Army Medical Research Directorate - Africa/Kenya, Nairobi, Kenya, [3]University of California Los Angeles Health, Los Angeles, CA, United States

(ACMCIP Abstract)

669

DEVELOPMENT AND EVALUATION OF NEW MULTIPLEXED AMPLICON SEQUENCING ASSAYS FOR *PLASMODIUM FALCIPARUM* MOLECULAR SURVEILLANCE

Emily LaVerriere[1], Philipp Schwabl[1], Manuela Carrasquilla[1], Aimee Taylor[1], Angela Early[2], Ruchit Panchal[2], Timothy Straub[2], Meg Shieh[1], Zachary Johnson[1], Bronwyn MacInnis[2], Daniel Neafsey[1]

[1]Harvard T.H. Chan School of Public Health, Boston, MA, United States, [2]Broad Institute of MIT and Harvard, Cambridge, MA, United States

670

TRACKING *PLASMODIUM VIVAX* THROUGH THE GREATER MEKONG SUBREGION USING GENOMES

Awtum M. Brashear[1], Yubing Hu[2], Yuling Li[3], Yan Zhao[2], Yaming Cao[2], Liwang Cui[1]

[1]University of South Florida, Tampa, FL, United States, [2]China Medical University, Shenyang, Liaoning, China, [3]The First Affiliated Hospital of Dalian Medical University, Dalian, Liaoning, China

671

PARASITE DETERMINANTS OF DISEASE SEVERITY FROM INFECTION WITH *PLASMODIUM FALCIPARUM*

Benjamin H. McMahon[1], Qiuying Cheng[2], Ivy Hurwitz[3], Evans Raballah[4], Samuel Anyona[5], Kristen M. Wilding[1], Collins Ouma[6], Kristan Schneider[7], Ananias Escalante[8], Douglas J. Perkins[3]

[1]Los Alamos National Laboratory, Los Alamos, NM, United States, [2]Center for Global Heakth, Department of Internal Medicine, University of New Mexico Health Sciences Center, Albuquerque, NM, United States, [3]Center for Global Health, Department of Internal Medicine, University of New Mexico Health Sciences Center, Albuquerque, NM, United States, [4]Department of Medical laboratory Sciences, School of Health Sciences, Masinde Muliro University of Science and Technology, Kakamega, Kenya, [5]Department of Medical Biochemistry, School of Medicine, Maseno, Kenya, [6]Department of Biomedical Sciences and Technology, School of Public Health and Community Development, Maseno University, Maseno, Kenya, [7]Department of MNI, University of Applied Sciences Mittweida, Mittweida, Germany, [8]Department of Biology and Institute for Genomics and Evolutionary Medicine, Temple University, Philadelphia, PA, United States

672

FREQUENCY AND EVOLUTION OF HISTIDINE-RICH PROTEIN 2 AND 3 DELETION AMONG GLOBAL *PLASMODIUM FALCIPARUM* STRAINS

Thomas C. Stabler[1], Ankit Dwivedi[2], Biraj Shrestha[3], Sudhaunshu Joshi[3], Tobias Schindler[1], Guillermo A. García[4], Claudia Daubenberger[1], Joana C. Silva[5]

[1]Swiss Tropical and Public Health Institute; University of Basel, Basel, Switzerland, [2]Institute for Genomic Sciences, University of Maryland School of Medicine, Baltimore, MD, United States, [3]Malaria Research Program, Center for Vaccine Development and Global Health, University of Maryland Baltimore, Baltimore, MD, United States, [4]Medical Care Development International, Silver Spring, MD, United States, [5]Institute for Genomic Sciences, University of Maryland School of Medicine; Department of Microbiology and Immunology, University of Maryland School of Medicine, Baltimore, MD, United States

673

PLASMODIUM FALCIPARUM POPULATION STRUCTURE IN SOUTHWESTERN AFRICA, BASED ON NEWLY GENERATED GENOME-WIDE SEQUENCE DATA

Wilson Tavares[1], Ankit Dwivedi[2], Fernanda Dias[3], Ana P. Arez[1], Joana C. Silva[2]

[1]Instituto de Higiene e Medicina Tropical, Universidade NOVA de Lisboa, Lisboa, Portugal, [2]Institute for Genome Sciences, University of Maryland School of Medicine, Maryland, MD, United States, [3]Hospital Américo Boavida, Luanda, Angola

674

USING BULK SEGREGANT ANALYSIS TO PROBE THE NUTRITIONAL REQUIREMENTS OF *PLASMODIUM FALCIPARUM* BLOOD STAGE GROWTH

Sudhir Kumar[1], Xue Li[2], Marina McDew-White[2], Ann Reyes[2], Abeer Sayeed[2], Meseret T. Haile[1], Spencer Y. Kennedy[1], Nelly M. Camargo[1], Lisa A. Checkley[3], Katelyn M. Vendrely[3], Katrina A. Button-Simons[3], Ian H. H. Cheeseman[2], Stefan H. Kappe[1], François Nosten[4], Michael T. Ferdig[3], Ashley M. Vaughan[1], Tim J. Anderson[2]

[1]Seattle Children's Research Institute, Seattle, WA, United States, [2]Texas Biomedical Research Institute, San Antonio, TX, United States, [3]Department of Biological Sciences, University of Notre Dame, Notre Dame, IN, United States, [4]Shoklo Malaria Research Unit, Mahidol-Oxford Tropical Medicine Research Unit, Faculty of Tropical Medicine, Mahidol University, Mae Sot, Thailand

675

COMPLEXITY OF INFECTION ESTIMATION WITH ALLELE FREQUENCIES

Aris Paschalidis[1], Oliver J. Watson[2], Robert J. Verity[2], Jeffrey A. Bailey[1]

[1]Brown University, Providence, RI, United States, [2]Imperial College London, London, United Kingdom

676

NEXT-GENERATION-SEQUENCING-BASED ANALYSIS OF THE POLYMORPHISM OF MALARIA GENES IN AN ENDOGENOUS POPULATION OF PALAWAN ISLAND

Gnamian Nouveau Kanzin Alain, Taeko Naruse, Mahamoud Sama Cherif, Eleonor Avenido-Cervantes, Peterson Gitonga Mathenge, Chisato Narahara, Mario Jiz, Awet Teklemichael, Shusaku Mizukami, Kenji Hirayama

Institute of Tropical Medicine, Nagasaki University, Nagasaki, Japan

677

ELUCIDATING GENETIC DIVERSITY IN MALARIA DRUG RESISTANCE GENES IN AFRICA FOR THEIR IMPACT ON DRUG DEPLOYMENT AND TO MODEL EFFICACIOUS DRUGS

Rita A. Boateng[1], Anita Ghansah[2], Nigel Dolling[3], James Myers-Hansen[1]
[1]student, Noguchi Memorial Institute for Medical Research, Ghana, [2]Redearcher, Noguchi Memorial Institute for Medical Research, Ghana, [3]Student, Noguchi Memorial Institute for Medical Research, Ghana

Malaria – Immunology:

678

AGE-RELATED DIFFERENCES IN MONOCYTE DNA METHYLATION AND IMMUNE FUNCTION IN HEALTHY ADULTS AND CHILDREN LIVING IN AN AREA WITH INTENSE MALARIA TRANSMISSION

Katherine R. Dobbs[1], Paula Embury[1], Emmily Koech[2], Sidney Ogolla[2], Stephen Munga[2], James W. Kazura[1], Arlene E. Dent[1]
[1]Case Western Reserve University, Cleveland, OH, United States, [2]Kenya Medical Research Institute, Kisumu, Kenya

679

DISSECTING ANTIBODY MEDIATED FUNCTIONAL RESPONSES ASSOCIATED WITH PROTECTIVE IMMUNITY IN MALARIA INFECTED INDIVIDUALS USING A RAPID, WHOLE BLOOD FLOW CYTOMETRY ASSAY

Dilini Rathnayake[1], Elizabeth H. Aitken[1], Agersew A. Mengist[1], Holger Unger[2], Maria Ome-Kaius[3], Stephen J. Rogerson[1]
[1]Department of Infectious Diseases, The Peter Doherty Institute of Infection & Immunity, University of Melbourne, Victoria 3010, Australia, [2]Menzies School of Research, Royal Darwin Hospital Campus, Darwin, Northern Territory, Australia, [3]Papua New Guinea Institute of Medical Research, Madang Province, Madang, Papua New Guinea

(ACMCIP Abstract)

680

EXPANDED NATURAL REGULATORY T CELLS IN PREGNANCY-ASSOCIATED MALARIA ALTER DENDRITIC CELL FUNCTION INDIRECTLY THROUGH EFFECTOR T CELLS

Gullit Meinnafo Tasse
University of Dschang, Dschang, Cameroon

(ACMCIP Abstract)

681

MALIAN CHILDREN DEVELOP ACUTE BUT NOT DURABLE ANTI-PFEMP1 SEROLOGIC RESPONSES TO CLINICAL MALARIA INFECTION

Joshua F. Craft[1], Drissa Coulibaly[2], Emily M. Stucke[1], Noah T. Ventimiglia[1], Andrea A. Berry[1], Kirsten E. Lyke[1], Matthew B. Laurens[1], Jason A. Bailey[1], Matthew Adams[1], Amadou Niangaly[2], Abdoulaye K. Kone[2], Shannon Takala-Harrison[1], Bourema Kouriba[2], Ogobara K. Doumbo[2], Philip L. Felgner[3], Christopher V. Plowe[1], Mahamadou A. Thera[1], Mark A. Travassos[1]
[1]University of Maryland School of Medicine, Baltimore, MD, United States, [2]University of Science, Techniques and Technologies, Bamako, Mali, [3]University of California, Irvine, Irvine, CA, United States

682

CYTOKINE PROFILE IN PREGNANT WOMEN WITH PREECLAMPSIA AND PLACENTAL MALARIA

Dorotheah Obiri[1], Daniel Oduro[2], Isaac Joe Erskine[3], Thomas Addison[1], Kwame Adu-Bonsaffoh[4], Kwadwo Asamoah Kusi[1], Michael Fokuo Ofori[1], Ben Gyan[1]
[1]Immunology Department, Noguchi Memorial Institute for Medical Research, University of Ghana, Accra, Ghana, [2]Department of Animal Biology and Conservation Science, University of Ghana, Accra, Ghana, [3]Department of Pathology, Korle-Bu Teaching Hospital, Accra, Ghana, [4]Department of Obstetrics and Gynaecology, University of Ghana Medical School, Accra, Ghana

(ACMCIP Abstract)

683

ANTIBODIES TO PFEMP1 EPCR-BINDING ANTIGENS BUT NOT CD36-BINDING ANTIGENS REMAIN ELEVATED FOR 12 MONTHS IN CHILDREN HOSPITALIZED WITH SEVERE MALARIA

Elizabeth Fernander[1], Louise Turner[2], Dibyadyuti Datta[1], Robert Opoka[3], Ruth Namazzi[3], Thomas Lavstsen[2], Chandy John[1]
[1]Indiana University School of Medicine, Indianapolis, IN, United States, [2]University of Copenhagen, Copenhagen, Denmark, [3]Makerere University, Kampala, Uganda

684

CELLULAR AND HUMORAL RESPONSES TO THE HIGHLY IMMUNOGENIC *PLASMODIUM VIVAX* PROTEIN VIR14

Anne D. Berhe[1], Raianna F. Fantin[2], Camila H. Coelho[1], Dhelio Pereira[2], Antonio Campos-Neto[3], Daniella Bartholomeu[2], Ricardo Fujiwara[2], Lilian L. Bueno[2], Patrick E. Duffy[1]
[1]NIH, Bethesda, MD, United States, [2]UFMG, Belo Horizonte, Brazil, [3]Tufts University, North Grafton, MA, United States

(ACMCIP Abstract)

685

CELLULAR CORRELATES FOR PROTECTION AGAINST MALARIA ACQUIRED ACROSS MULTIPLE PREGNANCIES

Adam Kirosingh[1], Lauren De La Parte[1], Maureen Ty[1], Abel Kakuru[2], Mary K. Muhindo[3], Mary K. Muhindo[3], Nathalie Thulin[1], Moses Kamya[2], Margaret Feeney[3], Grant Dorsey[3], Taia Wang[1], Prasanna Jagannathan[1]
[1]Stanford University, Palo Alto, CA, United States, [2]Infectious Diseases Research Collaboration, Kampala, Uganda, [3]University of California San Francisco, San Francisco, CA, United States

(ACMCIP Abstract)

686

INDUCTION OF HIGH ANTIBODY LEVELS AND PROTECTIVE IMMUNITY BY MRNA-LNP VACCINES BASED ON PRE-ERYTHROCYTIC AND TRANSMISSION-BLOCKING ANTIGENS IN *PLASMODIUM FALCIPARUM*

Clifford Hayashi[1], Yi Cao[1], Drew Weissman[2], Fidel Zavala[3], Jacob Van Parys[1], Nirbhay Kumar[1]
[1]Department of Global Health, Milken Institute School of Public Health, George Washington University, Washington, DC, United States, [2]Department of Infectious Diseases, University of Pennsylvania, Philidelphia, PA, United States, [3]Johns Hopkins Malaria Research Institute, Baltimore, MD, United States

(ACMCIP Abstract)

687

ANTIBODIES TO *PLASMODIUM FALCIPARUM* CIRCUMSPOROZOITE PROTEIN: A NON-MECHANISTIC CORRELATE OF PROTECTIVE EFFICACY OF PFSPZ VACCINE IN THE FIELD

Natasha KC[1], Kayla McLeod[1], Sumana Chakravarty[1], Tooba Murshedkar[1], Mahamadou S. Sissoko[2], Sara Healy[3], Patrick E. Duffy[3], Sodiomon B. Sirima[4], Matthew B. Laurens[5], Martina Oneko[6], Laura Steinhardt[7], Robert A. Seder[8], LW Preston Church[1], B. Kim Lee Sim[1], Peter F. Billingsley[1], Thomas L. Richie[1], Stephen L. Hoffman[1]

[1]Sanaria Inc, Rockville, MD, United States, [2]Malaria Research and Training Center (MRTC), Bamako, Mali, [3]LMIV/NIAID/NIH, Rockville, MD, United States, [4]Groupe de Recherche Action en Santé, Ouagadougou, Burkina Faso, [5]Center for Vaccine Development and Global Health, University of Maryland School of Medicine, Baltimore, MD, United States, [6]Kenya Medical Research Institute, Centre for Global Health Research, Kisumu, Kenya, [7]Centers for Disease Control and Prevention, Atlanta, GA, United States, [8]National Institute of Heath, Bethesda, MD, United States

Malaria – Modeling

688

MAXIMIZING THE POTENTIAL WINDOW OF OPPORTUNITY FOR MALARIA ELIMINATION VIA GENE DRIVES AND CHEMICAL VECTOR CONTROL

Prashanth Selvaraj, Shirley Leung, Caitlin Bever

Institute for Disease Modeling, Seattle, WA, United States

689

EVALUATING THE ROLE OF COVERAGE, CAMPAIGN TIMING, AND ADHERENCE ON THE PROGRAMMATIC IMPACT OF SEASONAL MALARIA CHEMOPREVENTION: A MODELING STUDY

Erin Zwick[1], Kamaldeen Okuneye[1], Caitlin Bever[2], Monique Ambrose[2], Jaline Gerardin[1]

[1]Northwestern University, Chicago, IL, United States, [2]Institute for Disease Modeling, Seattle, WA, United States

690

MODELING *P. FALCIPARUM* PARASITE GENETICS INSIDE AN AGENT-BASED, SPATIAL MODEL

Daniel Bridenbecker, Jonathan Russell, Albert Lee, Jessica Ribado, Svetlana Titova, Edward Wenger, Joshua L. Proctor, Caitlin Bever

Institute for Disease Modeling, Seattle, WA, United States

(ACMCIP Abstract)

691

EVALUATING THERAPEUTIC EFFICACY STUDY METHODOLOGIES WITHIN AN AGENT-BASED MODEL OF MALARIA WITH EXPLICIT PARASITE GENETICS

Jonathan R. Russell[1], Daniel Bridenbecker[1], Jessica Ribado[1], Albert Lee[1], Sam Jones[2], Ian Hastings[3], Joshua L. Proctor[1], Caitlin A. Bever[1]

[1]Institute of Disease Modeling, Seattle, WA, United States, [2]Medicines for Malaria Venture, Geneva, Switzerland, [3]Liverpool School of Tropical Medicine, Liverpool, United Kingdom

692

A SYSTEMS-LEVEL GENE REGULATORY NETWORK MODEL FOR *PLASMODIUM FALCIPARUM* REVEALS ELEVATED TRANSCRIPTIONAL VARIATION IS ASSOCIATED WITH REDUCED ARTEMISININ SENSITIVITY

Ling Wei[1], Maxwell L. Neal[1], Kamalakannan Vijayan[1], Sruthi Sravanam[2], Eliza Peterson[3], Mario L. Arrieta-Ortiz[3], Samuel A. Danziger[4], Nitin S. Baliga[3], John D. Aitchison[1], Alexis Kaushansky[1]

[1]Seattle Children's Research Institute, Seattle, WA, United States, [2]University of Washington, Seattle, WA, United States, [3]Institute for Systems Biology, Seattle, WA, United States, [4]Bristol Myers Squibb, Seattle, WA, United States

693

IMPROVING MALARIA SURVEILLANCE THROUGH ROBUST FACILITY CATCHMENT POPULATION ESTIMATION

Justin Millar[1], Rohan Arambepola[2], John Miller[3], Adam Bennett[1], Chris Lungu[3], Marie-Reine Rutagwera[3], Busiku Hamainza[4], Ewan Cameron[5], Hannah Slater[1]

[1]PATH, Seattle, WA, United States, [2]Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [3]PATH, Lusaka, Zambia, [4]National Malaria Elimination Centre, Zambia Ministry of Health, Lusaka, Zambia, [5]Malaria Atlas Project, Telethon Kids Institute, Curtin University, Perth, Australia

694

USING ROUTINE CASE DATA TO QUANTIFY THE EFFECTIVENESS OF SEASONAL MALARIA CHEMOPREVENTION UNDER PROGRAMMATIC IMPLEMENTATION: A QUASI-EXPERIMENTAL STUDY IN BURKINA FASO

Sebastian Rodriguez[1], Cheick Compaore[2], Boulaye Dao[2], Beatriz Galatas[3], Abdisalan Noor[4], Jaline Gerardin[5], Jaline Samia[1]

[1]Northwestern University, Evanston, IL, United States, [2]National Program for the Fight Against Malaria, Ouagadougou, Burkina Faso, [3]World Health Organization, Geneva, Switzerland, [4]World Health Organization, Geneva, Swaziland, [5]Northwestern University, Chicago, IL, United States

695

CONVERSION RULES BETWEEN HAEMOGLOBIN AND HAEMATOCRIT IN PATIENTS WITH UNCOMPLICATED *PLASMODIUM FALCIPARUM* OR *PLASMODIUM VIVAX* MALARIA: INDIVIDUAL PATIENT DATA META-ANALYSIS USING WORLDWIDE ANTIMALARIAL RESISTANCE NETWORK (WWARN) DATA REPOSITORY

Prabin Dahal, On behalf of WWARN Haemoglobin-Haematocrit study group

University of Oxford, OX3 7FZ, United Kingdom

696

IMPROVEMENTS TO GENEPI: INCREASING THE BIOLOGICAL REALISM AND COMPUTATIONAL EFFICIENCY FOR SIMULATING MALARIA PARASITE GENETICS FROM A TRANSMISSION HISTORY

Albert Lee[1], Jessica V. Ribado[1], Jonathan Russell[1], Daniel Bridenbecker[1], Sharon Chen[1], Tony Ting[1], Christopher Lorton[1], Wesley Wong[2], Edward Wenger[1], Caitlin Bever[1], Joshua L. Proctor[1]

[1]Institute for Disease Modeling, Seattle, WA, United States, [2]Harvard T.H. Chan School of Public Health, Boston, MA, United States

697

IMPROVED ESTIMATES OF MULTIPLICITY OF INFECTION IN MALARIA AND RELATED INFECTIOUS DISEASES

Meraj Hashemi, Henri Christian Junior Tsoungui Obama, Kristan Alexander Schneider

Hochschule Mittweida, Mittweida, Germany

698

MATHEMATICAL MODELING TRANSMISSION OF *WOLBACHIA* AMONG *ANOPHELES ALBIMANUS* MOSQUITO POPULATIONS IN HAITI

Alyssa J. Young[1], Benjamin P. Stager[2], Kerlly Bernabe[1], Daniela A. Florez[2], Zhuolin Qu[3], James M. Hyman[2]
[1]Tulane University School of Public Health and Tropical Medicine, New Orleans, LA, United States, [2]Tulane University School of Science and Engineering, New Orleans, LA, United States, [3]University of Texas San Antonio Department of Mathematics, San Antonio, TX, United States

699

A MICROPLANNING MODEL TO IMPROVE DOOR-TO-DOOR HEALTH SERVICE DELIVERY: THE CASE OF SEASONAL MALARIA CHEMOPREVENTION IN SUB-SAHARAN AFRICAN VILLAGES

Andre Lin Ouedraogo
BMGF, Bellevue, WA, United States

Malaria – Operational

700

ASSESSMENT OF INTEGRATED COMMUNITY MALARIA VOLUNTEER KNOWLEDGE AND JOB PERFORMANCE IN MYANMAR, 2018-2020

May Oo Khin[1], Aung Mon[2], Wint Phyo Than[2], Thiha Myint Soe[1], Khin Thant Zin[1], Aung Ko Ko Zaw[1], Ni Ni Aye[1], Khant Maung Maung[3], Kaung Myat Thbu[3], Khun Aung Thant[4], Tun Zaw Lat[5], Su Hlaing Than[6]
[1]Jhpiego, Myanmar, U.S. President's Malaria Initiative (PMI) Defeat Malaria Project, Yangon, Myanmar, [2]National Malaria Control Program, Nay Pyi Taw, Myanmar, [3]University Research Co., Myanmar, U.S. President's Malaria Initiative (PMI) Defeat Malaria project, Yangon, Myanmar, [4]Amrican Refugee Committee, U.S. President's Malaria Initiative (PMI) Defeat Malaria Project, Hlaingbwe, Myanmar, [5]Myanmar Health Assistant Association, U.S. President's Malaria Initiative (PMI) Defeat Malaria Project, Sittwe, Myanmar, [6]Myanmar Nurse and Midwife Association, U.S. President's Malaria Initiative (PMI) Defeat Malaria Project, Yangon, Myanmar

701

TRENDS IN FEVER CASE MANAGEMENT FOR FEBRILE INPATIENTS IN A LOW MALARIA INCIDENCE SETTING OF TANZANIA

Deng B. Madut[1], Matthew P. Rubach[1], John P. Bonnewell[1], Elena R. Cutting[1], Nathaniel Kalengo[2], Manuela Carugati[1], Michael J. Maze[3], Anne B. Morrissey[1], Blandina T. Mmbaga[2], Bingileki F. Lwezaula[4], Grace Kinabo[2], Ronald Mbwasi[2], Kajiru G. Kilonzo[2], Venance P. Maro[2], John A. Crump[3]
[1]Duke University Medical Center, Durham, NC, United States, [2]Kilimanjaro Christian Medical Centre, Moshi, United Republic of Tanzania, [3]University of Otago, Dunedin, New Zealand, [4]Mawenzi Regional Referral Hospital, Moshi, United Republic of Tanzania

702

IMPROVING INTERMITTENT PREVENTIVE TREATMENT IN PREGNANCY UPTAKE IN TERTIARY REFERRAL HOSPITALS IN GHANA THROUGH FACILITY-BASED PREVENTION OF MALARIA IN PREGNANCY (MIP) AND QUALITY IMPROVEMENT TRAINING

James Sarkodie[1], Mildred Kommey[2], Felicia Babanawo[1], Munkaila Mohammed[1], Raphael Ntumy[1], Amos Asiedu[1], Keziah Malm[3], Lolade Oseni[3], Gladys Tetteh[3]
[1]US President's Malaria Initiative, Impact Malaria project, Accra, Ghana, [2]National Malaria Control Programme, Accra, Ghana, [3]US President's Malaria Initiative, Impact Malaria project, Baltimore, MD, United States

703

THE ROLE OF NEEDS ASSESSMENT OF THE COMMUNITY HEALTH PROGRAM IN IMPROVING COMMUNITY MALARIA CASE MANAGEMENT, RWANDA

Jean Modeste Harerimana[1], Aimable Mbituyumuremyi[2], Beatrice Mukamana[3], Noella Umulisa[1], Katherine Wolf[4], Anastase Muhashyi[2], Jean Damascene Niyonzima[2], Eliab Mwiseneza[1]
[1]US President's Malaria Initiative, Impact Malaria project, Kigali, Rwanda, [2]Malaria and Other Parasitic Diseases Division/Rwanda Biomedical Center, Kigali, Rwanda, [3]Maternal, Child and Community Health Division/Rwanda Biomedical Center, Kigali, Rwanda, [4]US President's Malaria Initiative, Impact Malaria project, Jhpiego, Baltimore, MD, United States

704

SCALE UP OF INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANCY (IPTP) BY COMMUNITY HEALTH WORKERS FOLLOWING THE RESULTS OF A FEASIBILITY PILOT IN PO DISTRICT, BURKINA FASO

Ousmane Badolo[1], Justin Tiendrebeogo[1], Youssouf Sawadogo[1], Thierry Ouedraogo[1], Moumouni Bonkoungou[1], Gauthier Tougri[2], Gladys Tetteh[3], Lolade Oseni[3], Edward Kenyi[3]
[1]Improving Malaria Care (IMC) Project / Jhpiego, Ouagadougou, Burkina Faso, [2]National Malaria Control Program, Ouagadougou, Burkina Faso, [3]Improving Malaria Care (IMC) Project / Jhpiego, Baltimore, MD, United States

705

DOOR TO DOOR AND FOCUS GROUP COMMUNICATION BY COMMUNITY HEALTH WORKERS: FUNDAMENTAL FACTORS IN IMPROVING COMMUNITY-BASED MALARIA INTERVENTIONS IN BURKINA FASO

Thierry Damien Ouedraogo[1], Ousmane Badolo[1], Moumouni Bonkoungou[1], Youssouf Sawadogo[1], Gauthier Tougri[2], Gladys Tetteh[3], Karine Nankam[3], Lolade Oseni[3], Edward Kenyi[3]
[1]Improving Malaria Care (IMC) Project / Jhpiego, Ouagadougou, Burkina Faso, [2]National Malaria Control Program, Ouagadougou, Burkina Faso, [3]Improving Malaria Care (IMC) Project / Jhpiego, Baltimore, MD, United States

706

SURVEILLANCE, MONITORING, AND EVALUATION TRAINING IMPROVES PRACTICES: RESULTS FROM A FOLLOW-UP SURVEY OF MALARIA PROGRAM STAFF TRAINING, MADAGASCAR, 2020

Maurice Ye[1], Sabas Rabesahala[2], Jean Marie N'Gbichi[3], Urbain Rabibizaka[2], Saraha Rabeherisoa[2], Brune Ramiranirina[2], Fanomezana V. Andriamamonjy[2], Celestin Razafinjato[2], Lova A. Ralijaona[4], Laurent Kapesa[4], Catherine Dentinger[5], Brittany Iskarpatyoti S. Iskarpatyoti[6], Yazoume Ye[3]
[1]U.S. President's Malaria Initiative Measure Malaria, University of North Carolina at Chapel Hill/ICF, Antananarivo, Madagascar, [2]National Malaria Control Program, Antananarivo, Madagascar, Antananarivo, Madagascar, [3]U.S. President's Malaria Initiative Measure Malaria, University of North Carolina at Chapel Hill/ICF, Chapel Hill, NC, United States, [4]U.S. President's Malaria Initiative, Antananarivo, Madagascar, Antananarivo, Madagascar, [5]U.S. Centers for Disease Control and Prevention, Antananarivo, Madagascar, [6]U.S. President's Malaria Initiative Measure Malaria, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

707

STRENGTHENING MALARIA SURVEILLANCE THROUGH FRONTLINE FIELD EPIDEMIOLOGY TRAINING IN THE NORTH REGION OF CAMEROON

Olivier Kakesa
Measure Malaria, Chapel Hill, CA, United States

708

IMPROVING HEALTH CARE WORKER COMPETENCIES AND ADHERENCE TO GUIDELINES FOR MALARIA CASE MANAGEMENT BY USE OF A BLENDED CAPACITY BUILDING MODEL: KENYA EXPERIENCE

Dickson Mtungu Mwakangalu[1], Maureen Mabiria[1], Sarah Ballard[2], Hellen Gatakaa[1], Augustine Ngindu[1], Mildred Shieshia[3], Gladys Tetteh[4], Lolade Oseni[4], Daniel Wacira[3]
[1]PMI Impact Malaria Project, Nairobi, Kenya, [2]US President's Malaria Initiative, US Centers for Disease Control and Prevention, Nairobi, Kenya, [3]US President's Malaria Initiative, United States Agency for International Development, Nairobi, Kenya, [4]PMI Impact Malaria Project, Baltimore, MD, United States

709

ADDRESSING DATA QUALITY ISSUES OF ROUTINE HEALTH FACILITY MALARIA DATA

Sumaiyya G. Thawer[1], Ally Mohamed[2], Samwel Lazaro[2], Sijenunu Aaron[2], Frank Chacky[2], Khalifa Munisi[2], Noela Kisoka[1], Christian Lengeler[3], Amanda Ross[3], Fabrizio Molteni[1], Emilie Pothin[4]
[1]Swiss Tropical and Public Health Institute/ University of Basel, Dar es Salaam, United Republic of Tanzania, [2]National Malaria Control Program, Ministry of Health, Community Development, Gender, Elderly and Children, Dodoma, Tanzania, Dodoma, United Republic of Tanzania, [3]Swiss Tropical and Public Health Institute/ University of Basel, Basel, Switzerland, [4]Swiss Tropical and Public Health Institute/ University of Basel/Clinton Health Access Initiative, Basel, Switzerland

710

ACCURACY OF CAREGIVER RECALL OF CHILDHOOD VACCINATIONS: IMPLICATIONS FOR THE RTS,S/AS01 COVERAGE ESTIMATES IN THE CONTEXT OF THE PILOT INTRODUCTION IN WESTERN KENYA

Nelli Westercamp[1], Dorcas Akach[2], Brian Seda[2], Irene Okanda[2], Elizabeth Marube[2], Isabella Nyangau[2], Titus Kwambai[3], Simon Kariuki[2], Aaron Samuels[3]
[1]U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]KEMRI, Kisumu, Kenya, [3]U.S. Centers for Disease Control and Prevention, Kisumu, Kenya

711

ARTEMETHER-LUMEFANTRINE ANTIMALARIAL EFFICACY AMONG ADULTS ON ANTIRETROVIRAL THERAPY IN MALAWI

Jernelle C. Miller[1], Wongani Nyangulu[2], Randy G. Mungwira[3], Titus H. Divala[3], Nginache Nampota[3], Sunil Parikh[4], Joep J. Oosterhout[5], Matthew B. Laurens[6], Miriam K. Laufer[6]
[1]University of Maryland, School of Medicine, Baltimore, MD, United States, [2]Dignitas International, Zomba, Malawi, [3]Blantyre Malaria Project, University of Malawi, College of Medicine, Blantyre, Malawi, [4]Yale School of Public Health, Laboratory of Epidemiology and Public Health, New Haven, CT, United States, [5]Dignitas International and University of Malawi, College of Medicine, Blantyre, Malawi, [6]Malaria Research Program, Center for Vaccine Development and Global Health, University of Maryland, School of Medicine, Baltimore, MD, United States

712

PROCESS EVALUATION FOR THE IMPLEMENTATION OF ARTESUNATE RECTAL CAPSULES AS PRE-REFERRAL INTERVENTION FOR SEVERE MALARIA PATIENTS AT COMMUNITY LEVEL IN MADAGASCAR

Arsene C. Ratsimbasoa[1], Mamy Razafimahatratra[2], Michael Nomenjanahary[3], Solotiana Ravelonarivo[1], Ny Ako R.[4], Mauricette Andriamananjara[5]
[1]Faculty of Medecine - University of Fianarantsoa, Fianarantsoa, Madagascar, [2]National Institute of Public Health - Faculty of Medicine, Antananarivo, Madagascar, [3]National Institute of Public Health, Antananarivo, Madagascar, [4]Faculty of Medecine, Antananarivo, Madagascar, [5]National Malaria Control Program, Antananarivo, Madagascar

713

INTRODUCTION OF RECTAL ARTESUNATE FOR PRE-REFERRAL TREATMENT OF SEVERE MALARIA AMONG CHILDREN UNDER FIVE YEARS OF AGE AT THE COMMUNITY LEVEL IN MADAGASCAR, 2019-2020

Andritiana Tsarafihavy[1], Serge Raharison[1], Riana Ramanantsoa[1], Feno Rakotoarimanana[1], John Yanulis[2], Aishling Thurow[2], Laurence Laumonier-Ickx[2], Thomas Hall[3], Louisette Rahantanirina[4], Brian Mulligan[4], Yvette Ribaira[5], Laurent Kapesa[6], Jocelyn Razafindrakoto[6], Catherine Dentinger[7], Solofo Razakamiadana[6], Voahangy Razanakotomalala[8], Celestin Razafinjato[8], Mauricette Andriamanjara[8]
[1]Management Sciences for Health, Antananarivo, Madagascar, [2]Management Sciences for Health, Medford, MA, United States, [3]Management Sciences for Health, Arlington, VA, United States, [4]JSI Research and Training Institute Inc, Antananarivo, Madagascar, [5]JSI Research & Training Institute Inc, Antananarivo, Madagascar, [6]President's Malaria Initiative/United States Agency for International Development, Antananarivo, Madagascar, [7]US Centers for Disease Control and Prevention, Antananarivo, Madagascar, [8]National Malaria Control Program, Madagascar, Antananarivo, Madagascar

714

DETERMINANTS OF HEALTH WORKERS' COMPLIANCE WITH OUTPATIENT MALARIA 'TEST AND TREAT' GUIDELINES DURING THE PLATEAUING PERFORMANCE PHASE IN KENYA, 2014-2016

Beatrice Amboko[1], Kasia Stepniewska[2], Lucas Malla[1], Beatrice Machini[3], Philip Bejon[4], Robert W. Snow[1], Dejan Zurovac[1]
[1]KEMRI-Wellcome Trust Research Programme, Nairobi, Kenya, [2]WorldWide Antimalarial Resistance Network, Oxford, United Kingdom, [3]Division of National Malaria Programme, Ministry of Health, Kenya, [4]KEMRI-Wellcome Trust Research Programme, Kilifi, Kenya

715

RELIABILITY OF REPORTED FEVER IN CHILDREN UNDER AGE FIVE AMONG HOUSEHOLD MEMBERS: AN EXAMINATION OF HOUSEHOLD SURVEY DATA FROM NIGERIA AND MOZAMBIQUE

Cameron Taylor[1], Trevor Croft[1], Mahmoud Elkasabi[1], Livia Montana[1], Yazoume Ye[2]
[1]The DHS Program-ICF, Rockville, MD, United States, [2]PMI Measure Malaria-ICF, Rockville, MD, United States

716

INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANCY COVERAGE ESTIMATES FROM POPULATION-BASED SURVEYS: RELIABILITY OF WOMEN'S RECALL AMONG WOMEN WITH ANC CARDS

Natasha Hansen[1], Susan Youll[2], Lia Florey[2], Cameron Taylor[3]
[1]National Cancer Institute, Bethesda, MD, United States, [2]President's Malaria Initiative, USAID, Washington, DC, United States, [3]The DHS Program-ICF, Rockville, MD, United States

717

GENDER DETERMINANTS OF INTERMITTENT PREVENTIVE TREATMENT IN PREGNANCY (IPTP) UPTAKE WITHIN MALARIA IN PREGNANCY (MIP) SERVICES IN CAMEROON AND KENYA

Elizabeth Arlotti-Parish[1], Eric Meli Tchinda[2], Caroline Teh Monteh Sofa[2], Jean Yves Mukamba[2], Dickson Mwakangalu[1], James Andati[1], James Andati[1], George Githuka[3], Dorothy Achu[4]
[1]US President's Malaria Initiative Impact Malaria (IM) project, Nairobi, Kenya, [2]US President's Malaria Initiative Impact Malaria (IM) project, Yaounde, Cameroon, [3]Ministry of Health, Division of National Malaria Programme, Nairobi, Kenya, [4]National Malaria Control Programme, Yaounde, Cameroon

Malaria – Prevention

718

DEVELOPMENT AND EVALUATION OF VIDEO JOB-AIDS TO SUPPORT SAFE SEASONAL MALARIA CHEMOPREVENTION (SMC) DELIVERY DURING THE 2020 CAMPAIGNS

Susana Scott[1], Bienvenu S. Camara[2], Eugène K. Lama[3], Aurore Ogouyèmi-Hounto[4], William Houndjo[4], Gauthier Tougri[5], Yacouba Nombre[5], Dorothy Achu[6], Marcellin Ateba[6], Mahamat S. Diar[7], Keziah L. Malm[8], Kofi Adomako[8], Paolo Djata[9], Wica da Silva[9], Idrissa Cissé[10], Vincent Sanogo[10], Hadiza Jackou[11], Nnenna Ogbulafor[12], Bala M. Audu[12], Jamilu Nikau[12], Seynabou Gaye[13], Alioune B. Gueye[13], Balla Kandeh[14], Olimatou Kolley[14], Tinah Atcha-Oubou[15], Tchassama Tchadjobo[15], Kovana M. Loua[16], Maria A. Lima Parra[17], Abena Poku-Awuku[18], Ibrahima Mbaye[19], Andre-Marie Tchouatieu[18], Corinne Merle[20], Michael Hill[1], Liz Thomas[21], Jean Louis NDiaye[19], Paul J. Milligan[1]

[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]Maferinyah National Research Center, Ministry of Health, Guinea, Maferinyah, Guinea, [3]Programme Nationale Lutte contre le Paludisme, Conakry, Guinea, [4]Programme Nationale Lutte contre le Paludisme, Cotonou, Benin, [5]Programme Nationale Lutte contre le Paludisme, Ouagadougou, Burkina Faso, [6]National Malaria Control Programme, Yaounde, Cameroon, [7]Programme Nationale Lutte contre le Paludisme, N'Djamena, Chad, [8]National Malaria Control Programme, Accra, Ghana, [9]Programa Nacional de Luta contra o Paludismo, Bissau, Guinea-Bissau, [10]Programme Nationale Lutte contre le Paludisme, Bamako, Mali, [11]Programme Nationale Lutte contre le Paludisme, Niamey, Niger, [12]National Malaria Elimination Programme, Abuja, Nigeria, [13]Programme Nationale Lutte contre le Paludisme, Dakar, Senegal, [14]National Malaria Control Programme, Banjul, Gambia, [15]Programme Nationale Lutte contre le Paludisme, Lome, Togo, [16]Universite Gamal Abdel Nasser, Conakry, Guinea, [17]La Cooperativa Humanitaria, Barcelona, Spain, [18]Medicines for Malaria Venture, Geneva, Switzerland, [19]Universite de Thiès, Thiès, Senegal, [20]UNDP/UNICEF/World Bank/WHO Special Programme for Research and Training in Tropical Diseases (TDR)/ World Health Organization (WHO), Geneva, Switzerland, [21]Liz Thomas Associates Ltd, UK, London, United Kingdom

719

THE RELATIONSHIP BETWEEN GENDER EQUALITY AND INSECTICIDE-TREATED NET USE IN UGANDA

Bolanle Olapeju[1], Anna Passaniti[1], Judith Nalukwago[1], Isaac Musoke[1], Musa Kimbowa[1], Pearl Kobusingye[1], Emmanuel Kayongo[1], Ruth Musekura[1], Lyndsey Mitchum[1], Arzum Ciloglu[1], Leanne Wolfe[1], Glory Mkandawire[1], Richard Kabanda[2], Joel Kisubi[3], Sheila Nyakwezi[3], Douglas Storey[1], Mariam Nabukenya[2]

[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]Ministry of Health, Uganda, Kampala, Uganda, [3]US President's Malaria Initiative, United States Agency for International Development (USAID), Uganda, Kampala, Uganda

720

EVALUATION OF A HAEMOZOIN BASED DIAGNOSTIC TEST FOR MALARIA DIAGNOSIS IN SRI LANKA

Sumadhya Deepika Fernando[1], Priyaleela Thota[2], Saveen Semage[3], Rahuman Booso[4], Kumudunayana T. de A.W. Gunasekera[5], David Bell[2], Prasad Ranaweera[5]

[1]University of Colombo, Colombo, Sri Lanka, [2]Hemex Health, Portland, OR, United States, [3]Army Headquarters, Colombo, Sri Lanka, [4]Directorate of Health Services, Sri Lanka Air Force, Colombo, Sri Lanka, [5]Anti Malaria Campaign, Colombo, Sri Lanka

721

ASSESSING THE ROLL OUT OF ARTESUNATE RECTAL CAPSULES AS PRE-REFERRAL INTERVENTION IN FIVE DISTRICTS IN SIERRA LEONE

Anitta R.Y. Kamara[1], Keith Esch[2], Kwabena Larbi[3], Dr. Temitayo Labor[3], Nelson Fofana[3], Jibba Bowah[3], Ramlat Jose[4], Nicole Carbone[2], Jadmin Mostel[2], Adam Nothem[2]

[1]Sierra Leone National Malaria Control Program, Freetown, Sierra Leone, [2]PMI Impact Malaria Project (PSI), Washington, DC, United States, [3]PMI Impact Malaria Project-Sierra Leone (PSI), Freetown, Sierra Leone, [4]President's Malaria Initiative, Freetown, Sierra Leone

722

FOCI INVESTIGATION OF A CLUSTER OF MALARIA CASES IN A SINGLE VILLAGE IN COASTAL MYANMAR

Khin Mon Mon[1], Wint Phyo Than[2], Alexandra Fischer[3], Sway Minn Htet[4], Kaung Myat Min[4], Aung Zaw Moe[4], Khin Than Win[1], May Aung Lin[1], Kyaw Myint Tun[1]

[1]University Research Co., LLC, Yangon, Myanmar, [2]National Malaria Control Programme, Ministry of Health and Sports, Nay Pyi Taw, Myanmar, [3]University Research Co., LLC, Chevy Chase, MD, United States, [4]University Research Co., LLC, Toungup, Myanmar

723

MALARIA AND INTERANNUAL CLIMATE MODES: MECHANISMS AND PREDICTABILITY

Shirley Leung, Prashanth Selvaraj

Institute for Disease Modeling, Seattle, WA, United States

724

UNDERSTANDING MALARIA IN PREGNANCY SERVICE DELIVERY QUALITY IN 7 AFRICAN COUNTRIES

Katherine Wolf[1], Lolade Oseni[1], Patricia Gomez[1], Gladys Tetteh[1], Jadmin Mostel[2], Nicole B. Carbone[2], Tabitha Kibuka[2]

[1]Jhpiego/PMI Impact Malaria, Washington, DC, United States, [2]PSI/PMI Impact Malaria, Washington, DC, United States

725

SEX-SPECIFIC EFFECT OF INTERMITTENT PREVENTIVE TREATMENT OF MALARIA WITH ARTEMISININ COMBINATION THERAPIES AMONG SCHOOL CHILDREN IN MALI: A THREE-ARM OPEN LABEL RANDOMIZED CONTROLLED TRIAL

Hamma Maiga[1], Charles Opondo[2], R.Matthew Chico[3], Lauren M. Cohee[4], Issaka Sagara[5], Oumar B. Traore[5], Mamadou Tekete[5], Antoine Dara[5], Zoumana I. Traore[5], Modibo Diarra[5], Samba Coumare[5], Aly Kodio[5], Amadou Bamadio[5], Bouran Sidibe[5], Ogobara K. Doumbo[5], Aboudaye A. Djimde[5]

[1]Institut National de Sante Publique, Bamako, Mali, [2]Department of Medical Statistics, Faculty of Epidemiology and Population Health, London School of Hygiene & Tropical Medicine, London, United Kingdom, [3]Department of Disease Control, Faculty of Infectious and Tropical Diseases, London School of Hygiene & Tropical Medicine, London, United Kingdom, [4]Center for Vaccine Development and Global Health, University of Maryland School of Medicine, Baltimore, MD, United States, [5]Malaria Research and Training Center, Department of Epidemiology of Parasitic Diseases, Faculty of Medicine and Dentistry, Faculty of Pharmacy, University of Sciences, Techniques and Technologies of Bamako, Bamako, Mali

726

INSIGHTS ON FOREST GOER'S EXPERIENCE AND KNOWLEDGE OF MOSQUITO REPELLENT IN CAMBODIA, USING RESPONDENT-DRIVEN SAMPLING

Po Ly[1], Boukheng Thavrin[1], Sochea Phok[2], Mahesh Paudel[3], Shwetha Srinivasan[4], Huy Rekol[1], Siv Sovannaroth[1], Saad Hassan[5], Stephen Poyer[3], Andy Tompsett[3], Jim Malster[3]

[1]National Center for Malaria Control, Parasitology and Entomology, Phnom Penh, Cambodia, [2]Population Services International Cambodia, Phnom Penh, Cambodia, [3]Population Services International, Washington DC, MD, United States, [4]Population Services International Laos, Vientiane, Lao People's Democratic Republic, [5]U.S. President's Malaria Initiative/United States Agency for International Development, Phnom Penh, Cambodia

727

FINDINGS FROM A RESPONDENT DRIVEN SAMPLING SURVEY EXPLORING CARE-SEEKING BEHAVIORS FOR FEBRILE ILLNESS AMONG FOREST GOERS IN CAMBODIA

Boukheng Thavrin[1], Po Ly[1], Sochea Phok[2], Mahesh Paudel[3], Shwetha Srinivasan[4], Huy Rekol[1], Siv Sovannaroth[1], Saad Hassan[5], Stephen Poyer[3], Andy Tompsett[3], Jim Malster[3]

[1]National Center for Malaria Control, Parasitology and Entomology, Phnom Penh, Cambodia, [2]Population Services International Cambodia, Phnom Penh, Cambodia, [3]Population Services International, Washington, DC, United States, [4]Population Services International Laos, Vientiane, Lao People's Democratic Republic, [5]U.S. President's Malaria Initiative/United States Agency for International Development, Phnom Penh, Cambodia

728

NET USE BEHAVIOURS AND HIGH PREVALENCE OF MALARIA PARASITEMIA AMONG CHILDREN UNDER FIVE IN ZAMFARA STATE, NIGERIA

Adefisoye Oluwaseun Adewole[1], Ndadilnasiya Waziri[1], Saheed Gidado[1], Amina Umar[1], Usaini Bala[1], Simple Edwin[1], Gideon Ugbenyo[1], Adam Attahiru[1], Isaac Igbaver[1], Shelby Cash[2], Kwame Asamoa[2]

[1]African Field Epidemiology Network, Abuja, Nigeria, [2]Malaria Branch, Centers for Disease Control and Prevention, Atlanta, GA, United States

729

A NEW COLLABORATION PLATFORM TO SUPPORT THE DEVELOPMENT OF NEXT-GENERATION MEDICAL INTERVENTIONS FOR MALARIA PREVENTION

Lydia Burgert, Narimane Nekkab, Josephine Malinga, Monica Golumbeanu, Nadja Cereghetti, **Melissa A. Penny**

Swiss Tropical and Public Health Insitute, Basel, Switzerland

Malaria – Strategies for Elimination

730

SMARTNET INITIATIVE: HARNESSING MOBILE TECHNOLOGY TO ANSWER KEY QUESTIONS ABOUT INSECTICIDE-TREATED NETS (ITN) USAGE AND MALARIA ILLNESSES IN MALAWI

Michael Kayange - Malawi SmartNet Initiative[1], Akuzike Banda - Malawi SmartNet Initiative[1], Austin Gumbo - Malawi SmartNet Initiative[1], Taonga Mafuleka - Malawi SmartNet Initiative[1], Monica Bautista - Malawi SmartNet Initiative[2], Maurizio Beccherle - Malawi SmartNet Initiative[3], Mariela Chacaltana - Malawi SmartNet Initiative[4], Sabyasachi Das - Malawi SmartNet Initiative[3], Edson Dembo - Malawi SmartNet Initiative[2], Caroline Desrousseaux - Malawi SmartNet Initiative[4], Edward Dzanjalimodzie - Malawi SmartNet Initiative[4], Emmie Françoise - Malawi SmartNet Initiative[4], Lilia Gerberg - Malawi SmartNet Initiative[5], Reuben Granich - Malawi SmartNet Initiative[4], Shannon Harmon - Malawi SmartNet Initiative[5], Collins Kwizombe - Malawi SmartNet Initiative[2], Joseph Maisano - Malawi SmartNet Initiative[4], Isaac Manda - Malawi SmartNet Initiative[6], Pius Masache - Malawi SmartNet Initiative[2], Elias Mwalabu - Malawi SmartNet Initiative[7], Manoj Prabhu - Malawi SmartNet Initiative[3], Joseph Raji - Malawi SmartNet Initiative[7], Patrick Sieyes - Malawi SmartNet Initiative[4], Harkirat Singh - Malawi SmartNet Initiative[4], Harsha Thirumurthy - Malawi SmartNet Initiative[8], Vipin Yadav - Malawi SmartNet Initiative[3], *Authors in alphabetical order by last name[1]

[1]National Malaria Control Program - Ministry of Health and Population of Malawi, Lilongwe, Malawi, [2]U.S. President's Malaria Initiative, Lilongwe, Malawi, [3]Dure Technologies, Geneva, Switzerland, [4]Vestergaard, Lausanne, Switzerland, [5]U.S. President's Malaria Initiative, Washington, DC, United States, [6]FHI360, Durham, NC, United States, [7]Global Health Supply Chain Program - Procurement and Supply Management Malawi, Lilongwe, Malawi, [8]University of Pennsylvania, Philadelphia, PA, United States

731

ACCESS, ACCEPTABILITY AND UPTAKE OF AN EXTENDED MALARIA SERVICE PACKAGE FOR REACHING UNDERSERVED POPULATIONS OF FOREST GOERS

Khin Lin[1], Kyawt Mon Win[2], Feliaciano Monti[3], William Hawley[4], Jimee Hwang[5], John Gimnig[4], Mark Maire[6], Alexander Moran[7], Hsu Thadar[8], Kyaw Myint Tun[1]

[1]University Research Co., LLC, Yangon, Myanmar, [2]National Malaria Control Programme, Ministry of Health and Sports, Nay Pyi Taw, Myanmar, [3]PMI/USAID, Yangon, Myanmar, [4]Entomology Branch, Division of Parasitic Diseases and Malaria, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States, [5]U.S. President's Malaria Initiative, Malaria Branch, Division of Parasitic Diseases and Malaria, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States, [6]U.S. President's Malaria Initiative, U.S. Centers for Disease Control and Prevention, Yangon, Myanmar, [7]University Research Co., LLC, Chevy Chase, MD, United States, [8]University Research Co., LLC, Palaw, Myanmar

732

EVALUATING INDIVIDUAL AND COMMUNITY-LEVEL FACTORS ASSOCIATED WITH MALARIA KNOWLEDGE, ATTITUDES, AND PRACTICES USING BASELINE DATA FROM A COMMUNITY-RANDOMIZED TRIAL ASSESSING THE EFFECTIVENESS OF TARGETED ACTIVE MALARIA CASE DETECTION AMONG HIGH-RISK POPULATIONS IN SOUTHERN LAO PDR

Teah R. Snyder[1], Emily Dantzer[2], Bouasy Hongvanthong[3], Francois Rerolle[2], Ratanaxay Phetsouvanh[4], Adam Bennett[2], Andrew A. Lover[1]

[1]University of Massachusetts Amherst, Amherst, MA, United States, [2]University of California, San Francisco, San Francisco, CA, United States, [3]Center for Malariology, Parasitology and Entomology, Ministry of Health, Vientiane, Lao People's Democratic Republic, [4]Department of Communicable Disease Control, Ministry of Health, Vientiane, Lao People's Democratic Republic

733

PROTECTING ADOLESCENT GIRLS AGAINST MALARIA-THE NEED FOR ADAPTED POLICIES AND HEALTH SYSTEMS TO BENEFIT AN UNDERSERVED NEGLECTED POPULATION

Abena Poku-Awuku[1], Silvia Ferazzi[1], Valentina Buj[2], Clara Menendez[3], Marcy Levy[4], Clara Pons-Duran[3], Joanna Lai[4], Raquel Gonzalez[3], Katya Halil[1], Maud Majeres-Lugand[1]

[1]Medicines for Malaria Venture, Vernier, Switzerland, [2]UNICEF, Geneva, Switzerland, [3]ISGlobal, Barcelona, Spain, [4]UNICEF, New York, NY, United States

734

ACTIVE SCREENING FOR MALARIA BY ENHANCED COMMUNITY CASE MANAGEMENT AND MONTHLY SCREENING AND TREATMENT SIGNIFICANTLY REDUCES THE INFECTIOUS RESERVOIR OF MALARIA IN BURKINA FASO

Katharine A. Collins[1], Alphonse Ouedraogo[2], Wamdaogo Moussa Guelbeogo[2], Issiaka Soulama[2], Maurice Ouattara[2], Apollinaire Nombre[2], Amidou Diarra[2], John Bradley[3], Prashanth Selvaraj[4], Jaline Gerardin[5], Chris Drakeley[6], Teun Bousema[1], Alfred Tiono[2]

[1]Department of Medical Microbiology, Radboud university medical center, Nijmegen, Netherlands, [2]Centre National de Recherche et de Formation sur le Paludisme,, Ouagadougou, Burkina Faso, [3]MRC Tropical Epidemiology Group, London School of Hygiene & Tropical Medicine, London, United Kingdom, [4]Institute for Disease Modeling, Bellevue, WA, United States, [5]Department of Preventive Medicine, Northwestern University, Chicago, IL, United States, [6]Department of Immunology and Infection, London School of Hygiene & Tropical Medicine, Faculty of Infectious and Tropical Diseases, London, United Kingdom

735

FROM CONTROL TO ELIMINATION: A SPATIAL-TEMPORAL ANALYSIS OF MALARIA ALONG THE CHINA-MYANMAR BORDER

Fang Huang[1], Li Zhang[1], Jing-Bo Xue[1], Hong-Ning Zhou[2], Aung Thi[3], Shui-Sen Zhou[1], Jun Zhang[4], Zhi-Gui Xia[1], Xiao-Nong Zhou[1]

[1]National Institute of Parasitic Diseases, China CDC, Shanghai, China, [2]Yunnan Institute of Parasitic Diseases, Puer, China, [3]Department of Public Health, Ministry of Health and Sports, Myanmar, Nay Pyi Taw, Myanmar, [4]Health Poverty Action East Asia Programme Office, Kunming, China

736

UNDERSTANDING MALARIA KNOWLEDGE, PREVENTIVE PRACTICES, AND CARE-SEEKING BEHAVIOR AMONG COMMUNITIES IN THE SHARED BORDER AREAS OF ANGOLA, NAMIBIA, AND ZAMBIA, AND IDENTIFYING OPPORTUNITIES FOR IMPROVEMENT

Alysse Maglior[1], Alexandra Gordon[1], Rebecca J. Vander Meulen[1], Jesse Heitner[2], Constance Njovu[3], João Lino Rafael[4], Stefanus Nangombe[5], José Franco Martins[6], Petrina Uusiku[7], Busiku Hamainza[8]

[1]Isdell:Flowers Cross Border Malaria Initiative, J.C. Flowers Foundation, New York, NY, United States, [2]Aceso Global, Washington, DC, United States, [3]Isdell:Flowers Cross Border Malaria Initiative, Anglican Diocese of Lusaka, Lusaka, Zambia, [4]Isdell:Flowers Cross Border Malaria Initiative, Anglican Diocese of Angola, Luanda, Angola, [5]Isdell:Flowers Cross Border Malaria Initiative, Namibia Anglican Community Development Organization, Windhoek, Namibia, [6]National Malaria Control Program, Angola Ministry of Health, Luanda, Angola, [7]National Vector-borne Diseases Control Programme, Namibia Ministry of Health and Social Services, Windhoek, Namibia, [8]National Malaria Elimination Centre, Zambia Ministry of Health, Lusaka, Zambia

737

IMPACT OF SPATIAL VARIATION IN ACCESS TO COMMUNITY HEALTH WORKERS ON MALARIA OUTCOMES AMONG CHILDREN IN A HIGH TRANSMISSION REGION IN ZAMBIA

Molly Mantus[1], Jean-Bertin Kabuya[2], Dickson Phiri[3], Enock Banda[4], Mulakwa Kamuliwo[5], James Sichivula[2], Timothy Shields[1], Gershom Chongwe[2], William Moss[1], Matthew Ippolito[6]

[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]Tropical Diseases Research Centre, Ndola, Zambia, [3]Department of Health Management Information Systems, Saint Pauls General Hospital, Nchelenge, Zambia, [4]PATH, Lusaka, Zambia, [5]Program for the Advancement of Malaria Outcomes, Lusaka, Zambia, [6]Johns Hopkins University School of Medicine, Baltimore, MD, United States

738

CUREMA: AN OPERATIONAL RESEARCH PROJECT AIMING MALARIA ELIMINATION AMONG HARD-TO-REACH MOBILE POPULATION IN THE GUIANA SHIELD.

Alice Sanna[1], Yann Lambert[1], Lise Musset[2], Stephen Vreden[3], Martha Suárez-Mutis[4], Michael White[5], Maylis Douine[1]

[1]Centre d'Investigation Clinique Antilles-Guyane, Centre Hospitalier de Cayenne, INSERM 1424, Cayenne, France, [2]Laboratoire de parasitologie, Institut Pasteur de la Guyane, Cayenne, France, [3]SWOS - Foundation for the Advancement of Scientific Research in Suriname, Paramaribo, Suriname, [4]Laboratório de Doenças Parasitárias (IOC) - Fundação Oswaldo Cruz, Rio de Janeiro, Brazil, [5]Institut Pasteur, Paris, France

739

SUB-NATIONAL MALARIA ELIMINATION - GENERATING EVIDENCE OF DISTRICT LEVEL INTERRUPTION OF MALARIA TRANSMISSION IN THE SADC E8 SUBREGION

Bongani Andrew Dlamini[1], Andrew Tangwena[2], Mpho Motlaleng[3], Bridget Shandukani[4], Chadwick Sikaala[1], Guidion Mathe[5], Immo Kleinschmidt[6], John Chimumbwa[1], Mercy Mwanza[7], Mukosha Chisenga[1], Nyasha Mwendera[1], Oliva Massay[1], Patrick Moonasar[4], Paulo Maquina[8], Phelele Fakudze[1], Stark Katokele[9], Zulisile Zulu[10]

[1]SADC Elimination 8, Windhoek, Namibia, [2]National Malaria Control Programme, Harare, Zimbabwe, [3]National Malaria Control Programme, Gaborone, Botswana, [4]National Malaria Control Programme, Pretoria, South Africa, [5]National Malaria Control Programme, Maputo, Mozambique, [6]London School of Hygiene & Tropical Medicine, London, United Kingdom, [7]National Malaria Control Programme, Lusaka, Zambia, [8]SADC Elimination 8, Luanda, Angola, [9]National Vector Borne Disease Control Programme, Windhoek, Namibia, [10]National Malaria Control Programme, Manzini, Swaziland

Malaria – Vector Control

740

ANOPHELES MODEL: A PLATFORM TO QUANTIFY THE EFFECT OF VECTOR BIONOMICS ON THE IMPACT OF VECTOR CONTROL INTERVENTIONS AGAINST MALARIA TRANSMITTED BY ANOPHELES MOSQUITOES

Monica Golumbeanu[1], Olivier Briët[1], Clara Champagne[1], Jeanne Lemant[1], Barnabas Zogo[2], Marianne Sinka[3], Melissa Penny[1], Nakul Chitnis[1], Emilie Pothin[1], Thomas Smith[1]

[1]Swiss Tropical and Public Health Institute, Basel, Switzerland, [2]University of Montpellier, Montpellier, France, [3]Malaria Atlas Project, Big Data Institute, University of Oxford, Oxford, United Kingdom

741

DOES LARVAL HABITAT MODIFICATION AND MANIPULATION CONTROL MALARIA? FINDINGS FROM A SYSTEMATIC REVIEW

Elisa Martello[1], Gowsika Yogeswaran[1], Richard Reithinger[2], Jo Leonardi-Bee[1]

[1]University of Nottingham, Nottingham, United Kingdom, [2]RTI International, Washington, DC, United States

742

RESTING BEHAVIOR OF MALARIA VECTORS IN GHANA AND ITS IMPLICATION ON VECTOR CONTROL

Akua Obeng Forson[1], Isaac A. Hinne[2], Isaac Kwame Sraku[3], Abdul Rahim Mohammed[1], Simon K. Attah[2], Yaw Asare Afrane[1]

[1]Department of Medical Laboratory Science, School of Biomedical and Allied Health Sciences, University of Ghana, Korle-Bu, Accra, Ghana., Accra, Ghana, [2]Department of Medical Microbiology, University of Ghana Medical School, University of Ghana, Korle-Bu, Accra, Ghana., Accra, Ghana, [3]Department of Medical Microbiology, University of Ghana Medical School, University of Ghana, Korle-Bu, Accra, Ghana, Accra, Ghana

743

CHARACTERIZATION OF *ANOPHELES* SPECIES TEMPORAL COMPOSITIONS AND BIONOMIC CHARACTERISTICS IN BANDARBAN, BANGLADESH

Isabella Rodriguez

University of Notre Dame, Notre Dame, IN, United States

744

PHYSICAL DURABILITY MONITORING AND USE ASSESSMENT OF INSECTICIDE TREATED NETSIN MALI OVER A THREE-YEAR PERIOD

Moussa Bm Cisse[1], Ibrahim Traore[1], Lansana Sangare[1], Yacouba Dansoko[1], Alice Dembele[1], Lazeni Konate[1], Jean Marie Sanou[1], Samah Sissoko[2], Abdourhamane Dicko[2], Libasse Gadiaga[3], Richard Oxborough[3], Jules Mihigo[4], Aliou Diallo[4], Celia Jane Woodfill[4], Erin Eckert[5], Paula Marcet[6], Michael D. Green[6], Ousmane Koita[1]
[1]Laboratoire de Biologie Moleculaire Appliquee / Universite des Sciences des Techniques et des Technologies de Bamako (LBMA/USTTB), Bamako, Mali, [2]Programme National de Lutte Contre le Paludisme, Bamako, Mali, [3]PMI VectorLink Project, Bamako, Mali, [4]President Malaria Initiative USAID, Bamako, Mali, [5]International Development Group/ RTI International, Washington, DC, United States, [6]Entomology Branch, US Centers for Disease Control, Atlanta, GA, United States

745

DEFINING A VECTOR CONTROL PRODUCT FOR THE BUILT ENVIRONMENT

Eleanore D. Sternberg[1], Melinda P. Hadi[2]
[1]Vestergaard Sarl / Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [2]Vestergaard Sarl, Lausanne, Switzerland

746

RAPID AGEING AND SPECIE IDENTIFICATION OF NATURAL MOSQUITOES FOR MALARIA SURVEILLANCE

Doreen Josen Siria[1], Roger Sanou[2], Joshua Mitton[3], Emmanuel Mwanga[1], Abdoulaye Niang[4], Paul Johnson[5], Geraldine Foster[6], Klaas Wynne[7], Roderick Murray-Smith[3], Abdoulaye Diabaté[2], Fredros O. Okumu[1], Heather M. Ferguson[5], Mario González-Jiménez[7], Simon A. Babayan[5], Francesco Baldini[5]
[1]Environmental Health & Ecological Sciences Department, Ifakara Health Institute, Ifakara, Morogoro, United Republic of Tanzania, [2]Department of Medical Biology and Public Health, Institut de Recherche en Science de la Santé (IRSS), Bobo-Dioulasso, Burkina Faso, Burkina Faso, Burkina Faso, [3]School of Computing Science, University of Glasgow, Glasgow, United Kingdom, [4]Université Nazi Boni de Bobo-Dioulasso, Bobo-Dioulasso, Burkinafaso, Burkina Faso, [5]Institute of Biodiversity Animal Health and Comparative Medicine, University of Glasgow, Glasgow, United Kingdom, [6]Department of Vector Biology, Liverpool School of Tropical Medicine, Liverpool, UK, Liverpool, United Kingdom, [7]School of Chemistry, University of Glasgow, Glasgow, United Kingdom

747

A PROSPECTIVE MICRO-COSTING LARVAL SOURCE MANAGEMENT TOOL TO INFORM DECISION MAKING IN TANZANIA

Sophie Diarra, Denis Kailembo, Branwen Owen, Emilie Pothin
Swiss Tropical and Public Health Institute, Basel, Switzerland

748

HABITAT CHARACTERIZATION AND LARVAL ABUNDANCE OF ANOPHELES FUNESTUS IN A HIGHLAND AND LOWLAND SITE IN WESTERN KENYA

Isaiah Debrah[1], Yaw Afrane[1], Linda Amoah[2], Harrysone Atieli[3], Andrews Githeko[4], Guiyun Yan[5]
[1]University of Ghana, Accra, Ghana, [2]Noguchi Memorial Institute for Medical Research, University of Ghana, Accra, Ghana, [3]International Center for Excellence Malaria Research, Tom Mboya University College, Kenya, Homabay, Kenya, [4]Center for Global Health Research, Kisumu, Kenya, [5]Program in Public Health, College of Health Sciences, University of California at Irvine, Irvine, CA, United States

749

THE INTERPRETATION OF EXPERIMENTAL TRIAL DATA FOR EVALUATION OF INDOOR VECTOR CONTROL INTERVENTIONS AGAINST MALARIA

Joseph D. Challenger[1], Corine Ngufor[2], Raphael N'Guessan[2], Thomas S. Churcher[1]
[1]Imperial College London, London, United Kingdom, [2]London School of Hygiene & Tropical Medicine, London, United Kingdom

750

MOSQUITOCIDAL CONCENTRATION OF IVERMECTIN OVER 6 MONTHS THROUGH A LONG-LASTING FORMULATION: TOWARD A SUSTAINABLE CONTROL OF MALARIA VECTORS IN A ONE-HEALTH APPROACH WITH THE HELP OF PERIDOMESTIC ANIMALS?

Sié Hermann Pooda[1], Lamidi Zela[1], Nicolas Moiroux[2], Christophe Roberge[3], Anne-Laure Courjaud[3], Marie-Sophie Martina[3], Jean-Baptiste Rayaissé[4], Roch K. Dabiré[5], Karine Mouline[2]
[1]Centre International de Recherche Développement sur l'Elevage en zone Subhumide -Université de Dédougou, Bobo-Dioulasso, Burkina Faso, [2]Institut de Recherche pour le Développement, Montpellier, France, [3]Medincell, Jacou, France, [4]Centre International de Recherche Développement sur l'Elevage en zone Subhumide, Bobo-Dioulasso, Burkina Faso, [5]Institut de Recherche en Sciences de la Santé, Bobo-Dioulasso, Burkina Faso

751

MALARIA VECTOR CONTROL IN THE AMERICAS: MEASURING THE IMPACT OF INSECTICIDE TREATED NETS AND INDOOR RESIDUAL SPRAYING

Manuela Herrera-Varela[1], Carlos Morales[2], Anderson Piamba[2], Hernando Gil Gomez[2], Emily MacDonald[3], Martha Ahumada[4], Liliana Santacoloma[5], Susanne Ardila[5], Iván Cardenas[6], Tania Tibaduiza[6], Amalhin Shek[7], Kristen George[8], Rebecca Levine[9], Audrey Lenhart[9]
[1]Abt Associates, PMI VectorLink Project, Bogota, Colombia, [2]Secretaría Departamental de Salud del Cauca, Popayan, Colombia, [3]Abt Associates, PMI VectorLink Project, Rockville, MD, United States, [4]Grupo de Entomología, Subdirección de Investigación Científica y Tecnológica, Instituto Nacional de Salud, Bogota, Colombia, [5]Grupo de Entomología, Laboratorio Nacional de Referencia, Instituto Nacional de Salud, Bogota, Colombia, [6]Grupo Endemo-epidémicas, Subdirección de Enfermedades Transmisibles, Ministerio de Salud y la Protección Social, Bogota, Colombia, [7]Bureau for Latin America and the Caribbean, United States Agency for International Development, DC, United States, [8]U.S. President's Malaria Initiative, United States Agency for International Development, DC, United States, [9]U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States

752

NITISINONE AS A POTENTIAL ALTERNATIVE ECTOPARASITIC DRUG FOR A COMPLEMENTARY MALARIA VECTOR CONTROL STRATEGY

Anna Elizabeth Trett, Lee Haines, Ghaith Aljayyoussi, Alvaro Acosta-Serrano
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

753

EFFICACY OF BROFLANILIDE (VECTRON™ T500), A NOVEL META-DIAMIDE INSECTICIDE, AGAINST PYRETHROID-RESISTANT ANOPHELINE VECTORS IN NORTHERN TANZANIA

Janneke Snetselaar[1], Njelembo Mbewe[2], Mark Rowland[2], Patrick Tungu[3], Franklin Mosha[4], Matt Kirby[2]
[1]Innovative Vector Control Consortium, Liverpool, United Kingdom, [2]London School of Hygiene & Tropical Medicine, London, United Kingdom, [3]National Institute for Medical Research, Muheza, United Republic of Tanzania, [4]Kilimanjaro Christian Medical University College, Moshi, United Republic of Tanzania

754

REDUCTION IN MALARIA CASES AND ANNUAL PARASITE INCIDENCE AFTER REINTRODUCTION OF INDOOR RESIDUAL SPRAYING IN ESCUINTLA, GUATEMALA

Ligia M. Díaz-Morales[1], Mónica E. Barrientos Juárez[1], Rodrigo A. Flores Sánchez[2], Abrahan Arnéz Matias[3], Melissa Wiles[3], Justin Lana[4], Daragh A. Gibson[5]
[1]Guatemalan Ministry of Public Health and Social Assistance, National Vector-Borne Disease Program, Guatemala City, Guatemala, [2]Guatemalan Ministry of Public Health and Social Assistance, Health Area of Escuintla Vector-Borne Disease Program,

Escuintla, Guatemala, [3]Clinton Health Access Initiative, Guatemala Office, Guatemala City, Guatemala, [4]Clinton Health Access Initiative, Panama Office, Panama City, Panama, [5]Clinton Health Access Initiative, Boston Office, Boston, MA, United States

755

WHICH TRAP IS BEST? ALTERNATIVES TO HUMAN LANDING CATCHES FOR MALARIA VECTOR SURVEILLANCE: A META-ANALYSIS

Jordan Eckert[1], Seun Oladipupo[1], Yifan Wang[1], ShanShan Jiang[1], Vivek Patil[1], Benjamin A. McKenzie[2], Sarah Zohdy[3]

[1]Auburn University, Auburn, AL, United States, [2]Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]President's Malaria Initiative, Centers for Disease Control and Prevention, Atlanta, GA, United States

756

IMPROVING INDOOR RESIDUAL SPRAYING DEPLOYMENT THROUGH A SPATIAL DECISION SUPPORT SYSTEM

Olivier Tresor Donfack[1], Liberato Motobe Vaz[1], Lucas Ondo[1], Jose Antonio Mba Nlang[1], Emily Hilton[2], Jeremias Nzamio Mba Eyono[1], Marcos Mbulito Iyanga[1], Restituto Mba Avue[1], Carlos A. Guerra[3], Guillermo A. García[3]

[1]Medical Care Development International, Malabo, Equatorial Guinea, [2]Institute of Health Metrics and Evaluation, University of Washington, Seattle, WA, United States, [3]Medical Care Development International, Silver Spring, MD, United States

757

OBSERVATIONAL IMPACT OF INSECTICIDE TREATED NETS ON MALARIA INCIDENCE IN 16 DISTRICTS ACROSS BURKINA FASO, MOZAMBIQUE, NIGERIA, AND RWANDA

Kenzie Tynuv[1], Julia Mwesigwa[2], Christelle Gogue[1], Joseph Wagman[1], Peder Digre[3], Baltazar Candrinho[4], Adama Gansané[5], Aimable Mbituyumuremyi[6], Emmanuel Obi[7], Okefu O. Okoko[7], Perpetua Uhomoibhi[7], Audu B. Mohammed[7], Ali Onoja[8], Dele Babarinde[8], Binete Savaio[9], Michee Kabera[10], Christen Fornadel[11], Molly Robertson[3]

[1]PATH, Washington, DC, United States, [2]PATH, Kampala, Uganda, [3]PATH, Seattle, WA, United States, [4]National Malaria Control Program, Ministry of Health, Maputo, Mozambique, [5]Centre National de Recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso, [6]Rwanda Biomedical Centre Malaria and Other Parasitic Diseases Division, Ministry of Health, Kigali, Rwanda, [7]National Malaria Elimination Programme, Federal Ministry of Health, Abuja, Nigeria, [8]Ibolda Health International, Abuja, Nigeria, [9]PATH, Maputo, Mozambique, [10]Rwanda Biomedical Center, Rwanda, Rwanda, [11]IVCC, Liverpool, United Kingdom

Cestodes – Echinococcosis/ Hydatid disease

758

RESCUE THERAPY FOR ALVEOLAR ECHINOCOCCOSIS PATIENTS WITH BENZIMIDAZOLE TREATMENT FAILURE OR INTOLERANCE WITH LIPOSOMAL AMPHOTERICIN B

Sanne Burkert, Lynn Peters, Johannes Bloehdorn, Beate Grüner

Ulm University Hospital, Ulm, Germany

759

A NOVEL MULTIPLEX REAL-TIME PCR ASSAY FOR THE MOLECULAR DIAGNOSIS OF METACESTODE INFECTIONS IN HUMANS

Alexander Oberli, Lavinia Furrer, Bruno Gottstein, Pascal Bittel

Institute for Infectious Diseases, Bern, Switzerland

760

CORRECTION OF THE SELECTION BIAS IN THE ESTIMATION OF CYSTIC ECHINOCOCCOSIS PREVALENCE IN COMMUNITY SURVEYS

Oswaldo G. Espinoza-Hurtado[1], Erick A. Chacón-Montalvan[2], Raul Enriquez[1], Cesar Sedano[1], Percy Soto-Becerra[1], Karina Bardales[1], Luis Tello[1], Hector H. García[1], Saul Santivanez[3]

[1]Universidad Peruana Cayetano Heredia, Lima, Peru, [2]Lancaster University, Lancaster, United Kingdom, [3]Universidad Nacional del Centro del Perú, Huancayo, Peru

761

ASSOCIATION OF HYDATID CYST VOLUME AND THE DEVELOPMENT OF PREOPERATIVE COMPLICATIONS IN PEOPLE WITH HYDATIDOSIS TREATED IN TWO PERUVIAN CITIES DURING 2000 - 2011

Sandra Zeña-Ñañez[1], Saul Santivañez Salazar[1], Maria Valcarcel[2], Maira Arce[3], Luis Tello[3], Diego Valencia[3], Hector H. Garcia[4]

[1]Universidad Peruana Cayetano Heredia, Lima, Peru, [2]Department of Surgery, Hospital Nacional Dos de Mayo, Lima, Peru, [3]Instituto Peruano de Parasitología Clínica y Experimental, Lima, Peru, [4]School of Sciences, Department of Microbiology, Universidad Peruana Cayetano Heredia, Lima, Peru

Cestodes – Taeniasis and Cysticercosis

762

CAROTID PORCINE MODEL OF NEUROCYSTICERCOSIS: ASSESSING THE LINK BETWEEN INJECTION DOSE WITH CNS INFECTION RATES AND SERUM ANTIGEN DYNAMICS

Ana Vargas-Calla[1], Gianfranco Arroyo[1], Luz Toribio[1], Nancy Chile[1], Yesenia Castillo[1], Juan F. Calcina[2], Javier A. Bustos[1], Robert Gilman[3], Seth O'Neal[4], Armando E. Gonzalez[2], Hector H. Garcia[1]

[1]Universidad Peruana Cayetano Heredia, Lima, Peru, [2]Universidad Nacional Mayor de San Marcos, Lima, Peru, [3]Johns Hopkins University, Baltimore, MD, United States, [4]Portland State University, Portland, OR, United States

(ACMCIP Abstract)

763

EXPLORING SOURCES OF FALSE-POSITIVE URINE CYSTAG SCREENING RESULTS IN A REGION ENDEMIC TO *T. SOLIUM*

Esperanza Zagal[1], Jessica Kramarz[2], Michelle Beam[1], Lauralee Fernandez[1], Percy Vilchez[3], Ricardo Gamboa[3], Claudio Muro[3], Yessenia Castillo[3], Hector H. Garcia[4], Seth E. O'Neal[1], For the Cysticercosis Working Group in Peru[5]

[1]School of Public Health, Oregon Health & Science University – Portland State University, Portland, OR, United States, [2]School of Public Health, Oregon Health & Science University – Portland State University, Portland, OR, United States, Portland, OR, United States, [3]Centro de Salud Global, Universidad Peruana Cayetano Heredia, Tumbes, Peru, [4]Centro de Salud Global, Universidad Peruana Cayetano Heredia, Lima, Peru, [5]Universidad Peruana Cayetano Heredia, Lima, Peru

764

PROCESS MAPPING TO UNDERSTAND THE STEPS REQUIRED TO IMPLEMENT A CONTROL PROGRAM FOR CYSTICERCOSIS IN RURAL PERU

Lisset M. Dumet[1], Angela G. Spencer[1], Ruth Atto[2], Percy Vilchez[2], Vanessa Cruz[2], Brenda Beltran[1], Javier Bustos[3], Hector H. Garcia[4], Patricia J. Garcia[5], Seth O'Neal[1], Sara Gimbel[6], for the Cysticercosis Working Group in Peru[7]
[1]Oregon Health & Science University-Portland State University School of Public Health, Portland, OR, United States, [2]Center for Global Health Tumbes, Universidad Peruana Cayetano Heredia, Lima, Peru, [3]Department of Microbiology, Universidad Peruana Cayetano Heredia, Lima, Peru, [4]Center for Global Health - Tumbes and Department of Microbiology, Universidad Peruana Cayetano Heredia, and Cysticercosis Unit, Instituto Nacional de Ciencias Neurologicas, Lima, Peru, [5]School of Public Health, Universidad Peruana Cayetano Heredia, Lima, Peru, [6]Department of Global Health & Department of Child, Family and Population Health Nursing, University of Washington, Seattle, WA, United States, [7]Center for Global Health Tumbes, Tumbes, Peru

765

DESCRIBING VARIABILITY OF URINE CYSTICERCOSIS ANTIGEN EXCRETION IN RURAL PERU, A REGION ENDEMIC TO *TAENIA SOLIUM*

Jessica Kramarz[1], Esperanza Zagal[1], Michelle Beam[1], Lauralee Fernandez[1], Percy Vilchez[2], Ricardo Gamboa[2], Claudio Muro[2], Yesenia Castillo[1], Hector H. Garcia[2], Seth O'Neal[1], For the Cysticercosis Working Group in Peru[3]
[1]Oregon Health and Science University, Portland, OR, United States, [2]Centro de Salud Global, Universidad Peruana Cayetano Heredia, Tumbes, Peru, [3]Universidad Peruana Cayetano Heredia, Lima, Peru

766

INCIDENCE OF CYSTICERCOSIS ANTIGEN EXCRETION IN THE URINE IN A POPULATION ENDEMIC TO *T. SOLIUM* IN NORTHERN PERU

Jessica Kramarz[1], Esperanza Zagal[1], Michelle Beam[1], Lauralee Fernandez[1], Percy Vilchez[2], Ricardo Gamboa[2], Claudio Muro[2], Yesenia Castillo[2], Hector H. Garcia[2], Seth O'Neal[1], For the Cysticercosis Working Group in Peru[3]
[1]Oregon Health and Science University, Portland, OR, United States, [2]Centro de Salud Global, Universidad Peruana Cayetano Heredia, Tumbes, Peru, [3]Universidad Peruana Cayetano Heredia, Lima, Peru

767

ASSESSING THE EFFECT OF COMBINED THERAPY WITH ALBENDAZOLE PLUS PRAZIQUANTEL VERSUS ALBENDAZOLE MONOTHERAPY IN TWO DOSES ON LIVER TRANSAMINASES IN PATIENTS WITH VIABLE PARENCHYMAL NEUROCYSTICERCOSIS

Gianfranco Arroyo[1], Silvana Diaz-Mancilla[1], Andres G. Lescano[1], Javier A. Bustos[1], Isidro Gonzales[2], Herbert Saavedra[2], John Horton[3], Armando E. Gonzalez[1], Robert H. Gilman[4], Seth O'Neal[5], Hector H. Garcia[1]
[1]Universidad Peruana Cayetano Heredia, Lima, Peru, [2]Instituto Nacional de Ciencias Neurológicas, Lima, Peru, [3]Tropical Projects, Hitchin, United Kingdom, [4]Johns Hopkins University, Baltimore, MD, United States, [5]Oregon Health & Science University-Portland State University, Portland, OR, United States

768

COMPARISON OF TWO MONOCLONAL ANTIBODY BASED AGELISA ASSAYS FOR ASSESSING THE DYNAMICS OF CIRCULATING ANTIGENS IN PIGS EXPERIMENTALLY INFECTED WITH *TAENIA SOLIUM* CYSTICERCOSIS

Luz Milagros Toribio[1], Gianfranco Arroyo[1], Percy Soto-Becerra[1], Javier Bustos[1], Yesenia Castillo[1], Robert H. Gilman[2], Seth O'Neal[3], Armando E. Gonzalez[4], Pierre Dorny[5], Hector H. Garcia[1]
[1]Center for Global Health, San Martín De Porres, Peru, [2]Department of International Health, Bloomberg School of Public Health, John Hopkins University, Baltimore, MD, United States, [3]School of Public Health, Oregon Health & Science University-Portland State University, Portland, OR, United States, [4]School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru, [5]Department of Biomedical Sciences, Institute of Tropical Medicine, Antwerp, Belgium

(ACMCIP Abstract)

769

VALIDATED NON-LOCAL PARAMETRIZATION OF AN AGENT-BASED MODEL TO REPRESENT LOCAL-SCALE *TAENIA SOLIUM* TRANSMISSION IN RURAL VILLAGES OF AN ENDEMIC AREA IN NORTHWEST PERU

Francesco Pizzitutti[1], Gabrielle Bonnet[2], Eloy Gonsales-Gustavson[3], Sarah Gabriel[4], William K. Pan[5], Ian W. Pray[6], Armando E. Gonzalez[7], Hector H. Garcia[8], Seth O'Neal[6], for the Cysticercosis Working Group in Peru[9]
[1]Independent consultant with OHSU university, Rome, Italy, [2]Independent consultant with OHSU university, Toulouse, France, [3]Tropical and Highlands Veterinary Research Institute, Universidad Nacional Mayor de San Marco, Lima, Peru, [4]Faculty of Veterinary Medicine, Ghent University, Ghent, Belgium, [5]Duke Global Health Institute, Duke University, Durham, NC, United States, [6]School of Public Health, Oregon Health & Science University -- Portland State University, Portland, OR, United States, [7]Center for Global Health-Tumbes, Universidad Peruana Cayetano Heredia, Lima, Peru, [8]Centro de Salud Global, Universidad Peruana Cayetano Heredia, Lima, Peru, [9]Universidad Peruana Cayetano Heredia, Lima, Peru

770

SUBARACHNOID NEUROCYSTICERCOSIS

Cesar G. Berto, Christina M. Coyle
Jacobi Medical Center, Bronx, NY, United States

771

EVALUATING THE ROLE OF CORRALS AND INSECTS IN THE TRANSMISSION OF PORCINE CYSTICERCOSIS: A COHORT STUDY

Eloy Gonzales-Gustavson[1], I. W. Pray[2], Ricardo Gamboa[3], Claudio Muro[3], Percy Vilchez[3], R. H. Flecker[4], H. H. García[5], A. E. Gonzalez[6], S. E. O´Neal[2], for the Cysticercosis Working Group in Peru[7]
[1]Universidad Nacional Mayor de San Marcos, Jauja, Peru, [2]School of Public Health, Oregon Health & Science University -- Portland State University, Portland, OR, United States, [3]Centro de Salud Global, Universidad Peruana Cayetano Heredia, Tumbes, Peru, [4]OHSU, Portland, OR, United States, [5]Centro de Salud Global, Universidad Peruana Cayetano Heredia, Lima, Peru, [6]Universidad Nacional Mayor de San Marcos, Lima, Peru, [7]Universidad Peruana Cayetano Heredia, Lima, Peru

772

RACINE SCALE EVALUATION FOR THE ANALYSIS OF EPILEPSY IN A RAT MODEL OF NEUROCYSTICERCOSIS

Karla Villalobos-Camizan[1], Oscar P. Nizama-Salazar[1], Oksana Huerta-Reyes[1], Edson Bernal-Teran[1], Lizbeth Fustamante[1], Edith S. Malaga[1], Cesar M. Gavidia[2], Robert H. Gilman[3], Manuela R. Verastegui[1], Cysticercosis Working Group in Peru[1]
[1]Universidad Peruana Cayetano Heredia, Lima, Peru, [2]Universidad Nacional Mayor de San Marcos, Lima, Peru, [3]Johns Hopkins University, Baltimore, MD, United States

Clinical Tropical Medicine

773

ADDRESSING ACUTE FEBRILE ILLNESS AMONG NON-SEVERE PATIENTS IN RIO DE JANEIRO, BRAZIL: A PROSPECTIVE STUDY

José Moreira[1], Leticia Fernandez-Carballo[2], Camille Escadafal[2], Patricia Brasil[1], Sabine Dittrich[2], André M. Siqueira[1]
[1]Instituto Nacional de Infectologia Evandro Chagas, Rio de Janeiro, Brazil, [2]Foundation for Innovative New Diagnostics, Geneva, Switzerland

774

ETIOLOGY OF FEBRILE NEUROLOGICAL SYNDROMES IN LOW- AND MIDDLE-INCOME COUNTRIES: RESULTS FROM THE FIEBRE STUDY

Sara Ajanovic Andelic[1], Sham Lal[2], Justina Bramugy[3], Marta Valente[4], Ioana Olaru[5], Manophab Lungraj[6], Vilayouth Phimolsarnnousith[7], Vilada Chansamouth[7], Mabvuto Chimenya[8], Edward Green[9], Nicholas Feasey[9], Audrey Dubot-Pérès[10], Mayfong Mayxay[11], Elizabeth Ashley[11], Paul Newton[12], Katharina Kranzer[13], Shunmay Yeung[13], Heidi Hopkins[13], David Mabey[2], Quique Bassat[1]
[1]1 Barcelona Institute for Global Health (ISGlobal), Hospital Clínic - Universitat de Barcelona, Barcelona, Spain, [2]Faculty of Infectious and Tropical Diseases, London School of Hygiene & Tropical Medicine,, London, United Kingdom, [3]Centro de Investigaçao em Saúde de Manhiça (CISM), Manhiça, Mozambique, [4]Barcelona Institute for Global Health (ISGlobal), Hospital Clínic - Universitat de Barcelona, Barcelona, Spain, [5]Biomedical Research and Training Institute, Harare, Zimbabwe, [6]Lao-Oxford-Mahosot Hospital-Wellcome Trust Research Unit (LOMWRU) Mahosot Hospital, Vientiane, Lao People's Democratic Republic, [7]Lao-Oxford-Mahosot Hospital-Wellcome Trust Research Unit (LOMWRU), Mahosot Hospital, Vientiane, Lao People's Democratic Republic, [8]Malawi Liverpool Wellcome Programme, Blantyre, Malawi, [9]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [10]Unité des Virus Émergents (UVE: Aix-Marseille Univ-IRD 190-Inserm 1207),, Marseille, France, [11]Lao-Oxford-Mahosot Hospital-Wellcome Trust Research Unit, Microbiology Laboratory, Mahosot Hospital, Vientiane, Lao People's Democratic Republic, [12]Centre for Tropical Medicine & Global Health, Nuffield Department of Medicine, University of Oxford, UK, Oxford, United Kingdom, [13]Faculty of Infectious and Tropical Diseases, London School of Hygiene & Tropical Medicine, London, United Kingdom

775

RECONCILING IMPERATIVES. CLINICAL GUIDELINES AND THE ENACTMENT OF GOOD CARE IN LOWER-LEVEL HEALTH FACILITIES IN TORORO, UGANDA

Susan Nayiga[1], Laurie Denyer Willis[2], Sarah G. Staedke[3], Clare IR Chandler[3]
[1]Infectious Diseases Research Collaboration, Kampala, Uganda, [2]The University of Edinburgh, Edinburgh, United Kingdom, [3]London School of Hygiene & Tropical Medicine, London, United Kingdom

776

PREVENTION, DIAGNOSIS AND MANAGEMENT OF PODOCONIOSIS; INTEGRATION INTO PRIMARY HEALTH CARE IN SOUTHERN NATIONS, NATIONALITIES, AND PEOPLE'S REGION (SNNPR), ETHIOPIA

Laura Donovan[1], Tedila Habte[2], Esey Batisso[2], Fikre Seife[3], Kevin Baker[1]
[1]Malaria Consortium, London, United Kingdom, [2]Malaria Consortium, Addis Ababa, Ethiopia, [3]Federal Ministry of Health, Disease Prevention and Control Directorate, Addis Ababa, Ethiopia

777

BACTERIAL ILLNESS IN LIBERIAN CHILDREN UNDER 5

Symren Dhaliwal[1], Sabahat Rahman[1], Benetta Andrews[2], Kimberly Burke[1], Steven Hatch[1], **Patricia McQuilkin**[1]
[1]University of Massachusetts, Worcester, MA, United States, [2]JFK Medical Center, Monrovia, Liberia

778

THE HEART OF THE MATTER: CARDIAC MANIFESTATIONS OF CHAGAS DISEASE AT A TROPICAL MEDICINE CLINIC IN BOSTON

Katherine Anne Reifler[1], Samantha Hall[2], Davidson H. Hamer[2], Deepa Gopal[3], Alyse Wheelock[4], Alejandra Salazar[5], Jim Gomes[5], Natasha S. Hochberg[4]
[1]Boston Medical Center Department of Internal Medicine, Boston, MA, United States, [2]Boston University School of Public Health, Boston, MA, United States, [3]Boston Medical Center Section of Cardiology, Boston, MA, United States, [4]Boston Medical Center Section of Infectious Disease, Boston, MA, United States, [5]Boston Medical Center for Infectious Diseases, Boston, MA, United States

779

PREVALENCE AND FACTORS ASSOCIATED WITH HEART FAILURE IN HAITI: FINDINGS FROM A POPULATION-REPRESENTATIVE COHORT STUDY

Nicholas L. Roberts[1], Miranda Metz[1], Lily Yan[1], Jean Lookens Pierre[2], Vanessa Rouzier[2], Justin Kingery[1], Jean W. Pape[2], Margaret McNairy[1]
[1]Weill Cornell Medicine, New York, NY, United States, [2]GHESKIO, Port-au-Prince, Haiti

780

BUILDING THE FULL CONTINUUM OF CLEFT CARE IN EL SALVADOR

Kelsey Mumford, Kaylee O'Connor, Raymond Harshbarger
Dell Medical School at The University of Texas at Austin, Austin, TX, United States

781

THE MAIN PATHOGENS CAUSING FEBRILE ILLNESS AND IMPLICATIONS FOR FEVER MANAGEMENT IN LAOS; RESULTS FROM THE FIEBRE STUDY

Manophab Luangraj[1], Vilayouth Phimolnsarnnousith[1], Somvai Singhaxaiyaseng[1], Khamfong Kanlaya[1], Vilada Chansamouth[1], Audrey Dubot-Pérès[2], Andrew Simpson[1], Manivanh Vongsouvath[1], Viengmon Davong[1], Sham Lal[3], Chrissy H. Roberts[3], Heidi Hopkins[3], David Mabey[3], Paul N. Newton[4], Elizabeth A. Ashley[1], Mayfong Mayxay[1]
[1]Lao-Oxford-Mahosot Hospital-Wellcome Trust Research Unit, Vientiane, Lao People's Democratic Republic, [2]Unité des Virus Émergents (UVE), Aix Marseille Univ, IRD 190, INSERM 1207, IHU Méditerranée Infection, 13005, Marseille, France, [3]Faculty of Infectious and Tropical Diseases, London School of Hygiene & Tropical Medicine, London, United Kingdom, [4]Centre for Tropical Medicine and Global Health, University of Oxford, Oxford, United Kingdom

782

ACUTE FEBRILE ILLNESSES IN CHILDREN PRESENTING TO A TERTIARY HOSPITAL IN SOUTHERN ETHIOPIA: MANAGEMENT AND OUTCOMES

Techalew Shimelis[1], Susana Vaz Nery[1], Birkneh T. Tadesse[2], Adam W. Bartlett[1], Fitsum W. Belay[2], Gill Schierhout[3], Sabine Dittrich[4], John A. Crump[5], John M. Kaldor[1]
[1]Kirby Institute, University of New South Wales, Sydney, Australia, [2]College of Medicine and Health Sciences, Hawassa University, Hawassa, Ethiopia, [3]The George Institute for Global Health, University of New South Wales, Sydney, Australia, [4]Foundation for Innovative New Diagnostics, Geneva, Switzerland, [5]Centre for International Health, University of Otago, Dunedin, New Zealand

783

PODOCONIOSIS INSTRUCTION IN NURSING CURRICULA IN UGANDA, RWANDA, AND KENYA

Lilian Nantume Wampande[1], Lamek Mageto Nyabuga[2], Kelly Fowler[3], Ursin Bayisenge[2], Janna M. Schurer[2]
[1]University of Global Health Equity, Kigali, Rwanda, Rwanda, [2]University of Global Health Equity, Kigali, Rwanda, [3]Tufts University, Boston, MA, United States

784

FEASIBILITY OF COMMUNITY BASED EPILEPSY TREATMENT USING TRAINED COMMUNITY HEALTH WORKERS IN MALI: DATA OF THREE MONTHS FOLLOW UP

Housseini Dolo[1], Fatoumata dite Nènè Konipo[2], Mariam Daou[3], Abdou Koita[3], Birama Sangaré[3], Harouna Koné[2], Housseini D. Coulibaly[2], Mohamed Kamaforo[2], Moussa Sangaré[2], Abdoul Fatao Diabaté[2], Modibo Sangaré[1], Siaka Yamoussa Coulibaly[2], Salif Seriba Doumbia[2], Youssoufa Maiga[3], Yaya Ibrahim Coulibaly[1], Seydou Doumbia[1]

[1]Faculty of Medicine and Odontostomatology, Bamako, Bamako, Mali, [2]Filariasis Research and Training Unit (FRTU), Bamako, Mali, [3]Teaching Hospital Gabriel Touré, Bamako, Mali, Bamako, Mali

785

A PROSPECTIVE COHORT STUDY OF CLINICAL CHARACTERISTICS, MANAGEMENT, AND OUTCOMES FOR ADOLESCENTS AND ADULTS WITH SEPSIS IN NORTHERN TANZANIA

John P. Bonnewell[1], John A. Crump[1], Francis M. Sakita[2], Julian T. Hertz[1], Joseph R. Egger[3], Kajiru G. Kilonzo[2], Venance P. Maro[2], Matthew P. Rubach[1]

[1]Duke University Medical Center, Durham, NC, United States, [2]Kilimanjaro Christian Medical Centre, Moshi, United Republic of Tanzania, [3]Duke Global Health Institute, Durham, NC, United States

786

FIGHTING ADULT MORTALITY THROUGH ETIOLOGY OF FEVER STUDIES: DESCRIPTION OF HIGH MORTALITY IN AN ADULT INPATIENT POPULATION IN MOZAMBIQUE

Justina Bramugy[1], Marta Valente[2], Sham Lal[3], Sara Ajanovic[2], Oliver Baerenbold[3], Heidi Hopkins[3], David Mabey[3], Quique Bassat[4]

[1]CISM-Centro de Investigação em saúde de Manhiça, Maputo Province, Mozambique, [2]Centro de Investigação em Saúde de Manhiça and Instituto de Salud Global de Barcelona, Barcelona, Spain, [3]Faculty of Infectious and Tropical Diseases, London School of Hygiene & Tropical Medicine (LSHTM), London, United Kingdom, [4]Centro de Investigação em Saúde de Manhiça, Maputo, Mozambique. Instituto de Salud Global de Barcelona, ICREA, Pg. Lluís Companys 23, Pediatric Department, Hospital Sant Joan de Déu, Barcelona, Spain

787

IMPROVING SURVEILLANCE AND MANAGEMENT OF MALARIA, DIARRHEA AND PNEUMONIA IN PRIVATE FACILITIES IN UGANDA

Juliet Nakiganda[1], Alex Ogwal[1], Deepa Pindolia[2], Isaac Okiring[1], Lorriane Kabunga[1], Andrew Musoke[1], Jimmy Opigo[3], Robert Mugerwa[3], Funlola Osinupebi[2], Meley Woldeghebriel[1]

[1]Clinton Health Access Initiative, Kampala, Uganda, [2]Clinton Health Access Initiative, Boston, MA, United States, [3]National Malaria Control Program, Kampala, Uganda

Integrated Control Measures for Neglected Tropical Diseases (NTDs)

788

PUBLIC HEALTH INTERVENTION USING THE HEALTH BELIEF MODEL IMPROVES COVERAGE AND ACCEPTANCE TO IVERMECTIN MASS ADMINISTRATION

Francis Adjei Osei[1], Sam Newton[1], Dan Wolf Meyrowitsch[2], Nicholas Karikari Mensah[3], Evans Xorse Amuzu[3], Isaac Nyanor[1], Samuel Frimpong Odoom[1], Suraj Yawnumah Abubakar[3], Eugene Osei-Yeboah[4], Mathias Dongyele[1], Ernest Amanor[1], Alfred Kwame Owusu[3], Peter Furu[2], Phans Oduro Sarpong[1], Ellis Owusu-Dabo[1]

[1]Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, [2]University of Copenhagen, Copenhagen, Denmark, [3]Komfo Anokye Teaching Hospital, Kumasi, Ghana, [4]Ghana Health Service, Bolgatanga, Ghana

789

IMPLEMENTATION OF THE NATIONAL INTEGRATED HELMINTH CONTROL PROGRAM IN A PROVINCE IN WESTERN VISAYAS, THE PHILIPPINES: IMPLICATIONS IN THE COVID-19 PANDEMIC

Antoinette Montelibano[1], Vicente Belizario[2], Peter Veldkamp[1], Judy Chang[1]

[1]University of Pittsburgh School of Medicine, Pittsburgh, PA, United States, [2]University of the Philippines - Manila, Manila, Philippines

790

MISSED TREATMENT ROUNDS AMONGST MOBILE POPULATIONS IN MALI: A POTENTIAL RISK TO NTD ELIMINATION

Moussa Sangare[1], Siaka Yamoussa Coulibaly[2], Housseini Dolo[2], Abdoul Fatao Diabate[2], Lamine Diarra[2], Fatoumata dite Nene Konipo[2], Michel E. Coulibaly[2], Salif Seriba Doumbia[2], Yacouba Sanogo[2], Lamine Soumaoro[2], Massitan Dembele[3], Mahamadou Traore[4], Yaya Ibrahim Coulibaly[5], Thomas B. Nutman[6], Alison Krentel[7]

[1]Faculty of Medicine and Odonto-Stomatiology | University of Sciences, Techniques and Technologies of Bamako, Mali; Interdisciplinary School of Health Sciences | Faculty of Health Sciences, University of Ottawa, 75, av. Laurier Est, Ottawa ON K1N 6N5, C, Bamako, Mali, [2]Faculty of Medicine and Odonto-Stomatiology | University of Sciences, Techniques and Technologies of Bamako, Mali, Bamako, Mali, [3]National Program for the Elimination of Lymphatic Filariasis, General Directorate of Health and Public Hygiene, Bamako, Mali, [4]National Program for the Control of Schistosomiasis and Soil-transmitted, General Directorate of Health and Public Hygiene, Bamako, Mali, [5]Faculty of Medicine and Odonto-Stomatiology | University of Sciences, Techniques and Technologies of Bamako, Mali; 5. University Hospital Center, Hospital of Dermatology of Bamako, Bamako, Mali, [6]Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Building 4–Room B1-03,4 Center Dr., Bethesda, MD 20892-0425,USA, Bethesda, MD, United States, [7]School of Epidemiology and Public Health, University of Ottawa, Canada K1G 5Z3; Bruyère Research Institute, Ottawa K1R 6M1, Canada, Ottawa, ON, Canada

791

IMPROVING NEGLECTED TROPICAL DISEASES (NTDS) SERVICES AND INTEGRATING INTO PRIMARY HEALTH CARE IN SOUTHERN NATIONS, NATIONALITIES, AND PEOPLE'S REGION (SNNPR), ETHIOPIA

Tedila Habte[1], Laura Donovan[2], Esey Batisso[1], Fikre Seife[3], Kevin Baker[2]

[1]Malaria Consortium, Addis Ababa, Ethiopia, [2]Malaria Consortium, LONDON, United Kingdom, [3]Federal Ministry of Health, Addis Ababa, Ethiopia

792

PILOTING COVID-19 PREVENTION MEASURES DURING TRACHOMA SURVEYS IN THE DEMOCRATIC REPUBLIC OF CONGO

Raymond Stewart[1], Pitchuona Awaca Uvon[2], Felix Makangila[2], Bonaventure F. Ngoyi[1], Elie Matheranya[1], Kathryn Crowley[3], Amy Veinoglou[3], Diana Lu[3], Clara Burgert[3], Margaret Baker[3], Elizabeth Sutherland[3], Aryc W. Mosher[4], Penelope M. Smith[4], Jeremiah M. Ngondi[3]

[1]RTI International, Kinshasa, Democratic Republic of the Congo, [2]Ministry of Health, Kinshasa, Democratic Republic of the Congo, [3]RTI International, Washington DC, MD, United States, [4]USAID, Washington DC, MD, United States

793

PRE-INTERVENTION PHASE IDENTIFICATION OF CHALLENGES AFFECTING UPTAKE OF ONCHOCERCIASIS AND LYMPHATIC FILARIASIS PREVENTIVE CHEMOTHERAPY AMONG PEOPLE WITH DISABILITIES IN EJIGBO AND ORIADE LGA, OSUN STATE, NIGERIA

Olabanji A. Surakat[1], Monsuru A. Adeleke[2], Sammy O. Sam-Wobo[3], Uwem F. Ekpo[4], Muhammed Rufai[2], Olusola Ogunmola[5]
[1]Department of Zoology, Faculty of Basic and Applied Sciences, Osun State University, Osogbo., Osogbo, Nigeria, [2]Department of Zoology, Faculty of Basic and Applied Sciences, Osun State University, Osogbo.Osun State University, Osogbo., Osogbo, Nigeria, [3]Department of Pure and Applied Zoology, College of Biosciences, Federal University of Agriculture, Abeokuta, Abeokuta, Nigeria, [4]Department of Pure and Applied Zoology, College of Biosciences,Federal University of Agriculture, Abeokuta, Abeokuta, Nigeria, [5]South West Zonal Coordinator, NTD Unit, Department of Public Health, Federal Ministry of Health, Abuja, Nigeria., Abuja, Nigeria

794

GAPS OF NEGLECTED TROPICAL DISEASES KNOWLEDGE AFTER MASS DRUG ADMINISTRATION INTERRUPTION IN BURKINA FASO

Noubar Clarisse Dah[1], Eric Nebié[1], Ourohiré Millogo[1], Idrissa Kouanda[1], Mariam Seynou[1], Mamadou Bountogo[1], Matilibou Guira[2], Pascal Zabre[1], Edoh Eddie Agbanouvi-Agassi[3], Aristide Ouédraogo[1], Issouf Traore[1], Ali Sié[1]
[1]Centre de Recherche en Sante de Nouna, Nouna, Burkina Faso, [2]Programme d'Appui au Développement Sanitaire, Ouagadougou, Burkina Faso, [3]West African Health Organization, Bobo-Dioulasso, Burkina Faso

795

OVERCOMING COVID-19 THREAT TO CONDUCT LYMPHATIC FILARIASIS TRANSMISSION ASSESSMENT SURVEYS (TAS) IN 36 HEALTH DISTRICTS IN CAMEROON

Biholong Benjamin[1], Ebene Clarisse[1], Georges NKO'Ayissi[2], Julie Akame[3], **Patrick Mbia**[3], Carine Fokam[3], Ismael Teta[3], Michel Hendji Yoya[3], Benoit Dembele[4], Patricia Houck[5], Jennifer Magalong[6], Achille Kabore[6], Yaobi Zhang[5], Steven D. Reid[5], Angela Weaver[5]
[1]Ministry of Public Health, PNLO, Yaounde, Cameroon, [2]Ministry of Public Health, NTD Coordination Unit, Yaounde, Cameroon, [3]Helen Keller International, Yaounde, Cameroon, [4]Helen Keller International, Regional Office for Africa, Dakar, Senegal, [5]Helen Keller International, New York, NY, United States, [6]Family Health International 360, Washington DC, MD, United States

796

MASS DRUG ADMINISTRATION FOR SCHISTOSOMIASIS IN SIERRA LEONE IN THE CONTEXT OF COVID-19

Ibrahim Kargbo Labour[1], Habib I. Kamara[2], Abdul Conteh[1], Victoria Redwood-Sawyer[2], Mohamed S. Bah[2], Gandi Kallon[2], **Mustapha Sonnie**[2], Mary H. Hodges[2], Patricia Houck[3], Benoit Dembele[4], Sarah Craciunoiu[5], Achille Kabore[5], Yaobi Zhang[3], Steven D. Reid[3], Angela Weaver[3]
[1]Neglected Tropical Diseases Program, Ministry of Health and Sanitation, Freetown, Sierra Leone, [2]Helen Keller International, Freetown, Sierra Leone, [3]Helen Keller International, New York, NY, United States, [4]Helen Keller International, Regional Office for Africa, Dakar, Senegal, [5]Family Health International 360, Washington, DC, United States

797

CONTEXTUAL FACTORS ASSOCIATED WITH EPIDEMIOLOGICAL COVERAGE DURING MASS DRUG ADMINISTRATION FOR LYMPHATIC FILARIASIS ACROSS TEN WEST AFRICAN COUNTRIES

Brian B. Fuller[1], Andres Martinez[2], Caleb Parker[2], Vance Harris[1], Anna Phillips[2], Steven D. Reid[1], Ernest Mensah[2], Angela Weaver[1], Diana Stukel[2]
[1]Helen Keller International, New York, NY, United States, [2]Family Health International 360, Washington, DC, United States

798

COMPLIANCE WITH COVID-19 PREVENTIVE AND BARRIER MEASURES DURING RECENT MDA AND DSA IN SIX ACT | WEST COUNTRIES

Benoit Dembele[1], Angel Weng[2], Brian Fuller[2], Elisabeth Chop[2], Dieudonne Nare[3], Lucien Mano[3], Patrick Mbia[4], Carine Fokam Tagne[4], Lamine Lamah[5], Abdoul Karim Camara[5], Modibo Keita[6], Boubacar Guindo[6], Sita Hamadou[7], Mounkaila Issoufou[7], Habib Kamara[8], Patricia Houck[2], Cleo Stern[2], Achille Kabore[9], Katherine A. Sanchez[9], Fatou Gueye[2], Steven D. Reid[2], Yaobi Zhang[1], Angela Weaver[2]
[1]Helen Keller International, Regional Office for Africa, Dakar, Senegal, [2]Helen Keller International, New York, NY, United States, [3]Helen Keller International, Ouagadougou, Burkina Faso, [4]Helen Keller International, Yaounde, Cameroon, [5]Helen Keller International, Conakry, Guinea, [6]Helen Keller International, Bamako, Mali, [7]Helen Keller International, Niamey, Niger, [8]Helen Keller International, Freetown, Sierra Leone, [9]Family Health International 360, Washington, DC, United States

One Health: Interface Of Human Health/ Animal Diseases

799

INVESTIGATION PRELIMINARY REPORT: RIFT VALLEY FEVER OUTBREAK - FATICK - SENEGAL, 2020

Ibrahima Mamby Keita[1], Medoune Badiane[2], Yamar Ba[3], Tenning Diome[4], Diogoye Dione[5], Ndate Diao[6], Daba Ndour[1], Abdoulaye Sam[1], Boly Diop[1], Bassirou Sarr[5], Amady Deme[7], Idrissa Ndiaye[5], Ibrahima Dieme[7], Gabriel Massene Senghor[5], Abib Ndiaye[7]
[1]Ministry of Health and Social Action, Dakar, Senegal, [2]Ministry of Breeding and Animal Production, Dakar, Senegal, [3]Pasteur Institut of Dakar, Dakar, Senegal, [4]Human Health Facility of Ndiaye Ndiaye, Fatick, Senegal, [5]Fatick Health District, Fatick, Senegal, [6]Departmental Service of Breeding and Animal Productions, Fatick, Senegal, [7]Medical Region of Fatick, Fatick, Senegal

800

EGYPTIAN FRUIT BATS *ROUSETTUS AEGYPTIACUS*ARE RESERVOIRS OF C*CAMPYLOBACTER COLI* EXPRESSING ANTIMICROBIAL RESISTANCE GENES

Ebere Roseann Agusi, Benshak John Audu, Daniel Geofrey ThankGod, Dennis Kabantiyok, Mark Samson, Adeyinka Adedeji, Amos Rimfa, Clement Meseko
National Veterinary Research Institute, Vom, Vom, Nigeria

801

USING A ONE HEALTH SYSTEMS ASSESSMENT TOOL TO STRENGTHEN ZOONOTIC DISEASE OUTBREAK RESPONSE IN LIBYA

Lauren N. Miller, Alexander G. Linder, Claire J. Standley, Erin M. Sorrell
Georgetown University, Washington, DC, United States

802

ENVIRONMENTAL CONTAMINATION WITH *FASCIOLA* EGGS PASSED IN LIVESTOCK STOOL IS ASSOCIATED WITH HUMAN INFECTIONS IN THE ANTA PROVINCE OF CUSCO, PERU

Melinda B. Tanabe[1], John Prochaska[1], Maria Luisa Morales[2], Martha Lopez[2], Miguel M. Cabada[1]
[1]University of Texas Medical Branch, Galveston, TX, United States, [2]Cusco Branch – Tropical Medicine Institute, Universidad Peruana Cayetano Heredia, Cusco, Peru

803

DETECTION OF THE SIMULTANEOUS PRESENCE OF SPECIFIC ANTIBODIES TO CAUSATIVE AGENTS OF PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME, CIRCOVIRUS INFECTION, TESCHEN DISEASE, AND AUJESZKY'S DISEASE IN WILD BOARS

Mykola Sytiuk[1], Megan W. Howard[2]
[1]Institute of Veterinary Medicine of the NAAS, Kyiv, Ukraine, [2]Battelle, Columbus, OH, United States

804

A ONE HEALTH PERSPECTIVE ON THE PREVALENCE OF PARALYTIC SHELLFISH TOXINS AND ITS IMPACT ON ALASKA NATIVE SUBSISTENCE

Savannah Miller
Emory University, Atlanta, GA, United States

805

A ONE HEALTH APPROACH TO DESCRIBE THE PREVALENCE OF METHICILLIN-RESISTANT *STAPHYLOCOCCUS AUREUS* COLONIZING LIVESTOCK FARMERS, LIVESTOCK AND LIVESTOCK PRODUCTS IN SOUTHERN SRI LANKA

M. R. P. Kurukulasooriya[1], L. Gayani Tillekeratne[2], Weerasinghe M. D. G. B. Wijayaratne[3], Champica K. Bodinayake[3], U. H. B. Y. Dilshan[1], A. Dharshan de Silva[4], Bradly P. Nicholson[2], Truls Østbye[2], Christopher W. Woods[2], A. De S. Nagahawatte[3]
[1]Duke-Ruhuna Research Centre, Faculty of Medicine, University of Ruhuna, Galle, Sri Lanka, [2]Duke University, Durham, NC, United States, [3]Faculty of Medicine, University of Ruhuna, Galle, Sri Lanka, [4]Faculty of Medicine, General Sir John Kotelawala Defence University, Ratmalana, Sri Lanka

806

HUMAN-ANIMAL INTERACTIONS TO ASSESS RISK OF EMERGING INFECTIOUS DISEASES IN KENEMA DISTRICT SIERRA LEONE: FINDINGS FROM A 2010 HOUSEHOLD SURVEY

Kate A. Nelson[1], James Bangura[2], Richard O. Fonnie[2], Augustine Goba[2], Frederique Jacquerioz[3], Lansana D. Kanneh[2], Kandeh Kargbo[2], Sheik Humarr Khan[2], James T. Koninga[2], Shelby Lloyd[4], Sushryia Rath[4], Megan Saunders[4], Ashlea Winfield[4], Lina M. Moses[4], Daniel G. Bausch[5]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]Kenema Government Hospital, Kenema, Sierra Leone, [3]Tulane School of Public Health and Tropical Medicine; University Hospital of Geneva, New Orleans, LA, United States, [4]Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States, [5]UK Public Health Rapid Support Team, Public Health England/London School of Hygiene & Tropical Medicine, London, United Kingdom

807

SEROPREVALENCE AGAINST VIRUS AND ZOONOTIC PARASITIC DISEASES IN SLOTHS OF WESTERN PANAMA

Rita Juliet Corrales, Vanessa Pineda, Yamilka Diaz, Yanneth Pitti, Jean Paul Carrera, Lisseth Saenz, Maria Chen, Sandra Lopez-verges, Azael Saldana
Gorgas Memorial Institute of Health, Panama, Panama

(ACMCIP Abstract)

Pneumonia, Respiratory Infections and Tuberculosis

808

CAUSE OF ACUTE RESPIRATORY INFECTION IN NORTHERN LAOS

Koukeo Phommasone
Lao-Oxford-Mahosot Hospital-Wellcome Trust Research Unit, Vientiane Capital, Lao People's Democratic Republic

809

RESPIRATORY SYNCYTIAL VIRUS-ASSOCIATED MORTALITY AMONG YOUNG INFANTS IN KARACHI, PAKISTAN: A PROSPECTIVE POST-MORTEM SURVEILLANCE STUDY

Abdul Momin Kazi[1], Obianuju G. Aguolo[2], Waliyah Mughis[1], Nazia Ahsan[1], Saima Jamal[1], Ayub Khan[1], Inci Yildirim[2], Hanya Qureshi[2], Fauzia A. Malik[2], Saad B. Omer[2]
[1]Aga Khan University, Karachi, Pakistan, [2]Yale University, New Haven, CT, United States

810

DETECTION OF RESPIRATORY PATHOGENS USING MULTIPLEX TAQMAN ARRAY CARD AMONG STILLBIRTHS AND UNDER-FIVE DEATHS IN EASTERN ETHIOPIA

Mussie Adhanom
Hararghe Health Research, Haramaya University, Harar Town, Ethiopia

811

RESPIRATORY VIRUSES DETECTED AMONG SEVERE ACUTE RESPIRATORY INFECTION IN-HOSPITAL DEATH CASES DURING FIRST YEAR OF COVID-19 PANDEMIC IN BANGLADESH

Md Ariful Islam[1], Md Zakiul Hassan[1], Zubair Akhtar[1], Mohammad Abdul Aleem[1], Syeda Mah-E- Muneer[1], Md Kaousar Ahmmed[1], Mustafizur Rahman[1], Mohammed Ziaur Rahman[1], Kamal Hossain[1], M. Salim uzzaman[2], Tahmina Shirin[2], Fahmida Chowdhury[1]
[1]icddr,b, Dhaka, Bangladesh, [2]Institute of Epidemiology, Disease Control and Research, Dhaka, Bangladesh

812

EASY ACCESS TO MODS CULTURE: EVALUATION OF DEHYDRATED MEDIA

Joseline Rodriguez[1], Roberto Alcantara[2], Robert H. Gilman[3], David Moore[4], Ricardo Antiparra[1], Mirko Zimic[1], Patricia Sheen[1]
[1]Universidad Peruana Cayetano Heredia, Lima, Peru, [2]Universidad Peruana de Ciencias Aplicadas, Lima, Peru, [3]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [4]London School of Hygiene & Tropical Medicine, London, United Kingdom

813

GLYCOSYLATED HEMOGLOBIN DYNAMICS PRE AND POST TUBERCULOSIS TREATMENT DIFFERENTIALLY IDENTIFY DIABETES RANGE GLYCEMIA IN DHAKA, BANGLADESH

Yosra M. Alkabab[1], Samanta Biswas[2], Shahriar Ahmed[3], Sayera Banu[2], Scott Heysell[1]
[1]University of Virginia, Charlottesville, VA, United States, [2]icddr,b, Dhaka, Bangladesh, [3]icddr, b, Dhaka, Bangladesh

814

TUBERCULOSIS CARE SERVICES AMIDST THE EBOLA VIRUS DISEASE EPIDEMIC (2014-2015) IN LIBERIA: TIME SERIES-ANALYSES FOR 2013-2017

Keith L. Gray, Wahdae-mai Harmon-Gray
Ministry of Health, Monrovia, Liberia

815

TUBERCULOSIS INCIDENCE AND ASSOCIATED FACTORS AMONG HOUSEHOLD CONTACTS OF TUBERCULOSIS PATIENTS IN THE 100 MILLION BRAZILIAN COHORT

Priscila Pinto[1], Camila Teixeira[1], Maria Ichihara[1], Mauro Sanchez[2], Mauricio Barreto[1], Julia Pescarini[3]
[1]Centre for Data and Knowledge Integration for Health (CIDACS), Salvador, Brazil, [2]University of Brasília, Brasília, Brazil, [3]London School of Hygiene & Tropical Medicine, London, United Kingdom

816

THE IMPACT OF COVID-19 ON THE CIRCULATION OF RESPIRATORY VIRUSES AMONG UNITED STATES MILITARY BENEFICIARIES AT A MEDICAL TREATMENT FACILITY IN HAWAII

Zakariae Bram, Timothy S. Horseman, Rachael L. Downham, Lindsey L. O'Neal, Catherine F. Uyehara, Viseth Ngauy, Jonathan A. D'Ambrozio, Alexander K. Kayatani
Tripler Army Medical Center, Tripler AMC, HI, United States

817

"PEOPLE LISTEN MORE TO WHAT ACTORS SAY": A QUALITATIVE STUDY OF TUBERCULOSIS-RELATED KNOWLEDGE, BEHAVIORS, STIGMA, AND POTENTIAL INTERVENTIONS IN PUDUCHERRY, INDIA

Lora Sabin[1], Mahalakshmy T[2], **Madeline E. Carwile**[1], Senbagavalli Prakash Babu[2], Selby Knudsen[3], Jessie Stephens[1], Priyanka Fernandes[4], Chelsie Cintron[3], C. Robert Horsburgh, Jr.[1], Padmini Salgame[5], Jerrold J. Ellner[5], Sonali Sarkar[2], Natasha S. Hochberg[3]
[1]Boston University School of Public Health, Boston, MA, United States, [2]Jawaharlal Institute of Postgraduate Medical Education and Research, Puducherry, India, [3]Boston University School of Medicine, Boston, MA, United States, [4]University of California, Los Angeles, CA, United States, [5]Rutgers New Jersey Medical School, Newark, NJ, United States

Protozoa – Ameba/Giardia

818

SYMPTOMATIC *GIARDIA LAMBLIA* INFECTIONS IN NICARAGUA, EPIDEMIOLOGY AND IMPACT ON THE GROWTH OF YOUNG CHILDREN DURING THE FIRST THREE YEARS OF LIFE

Lester Gutiérrez[1], Patricia Blandón[1], Yaoska Reyes[1], Fredman Gonzalez[1], Christian Toval-Ruiz[1], Nadja Vielot[2], Filemon Bucardo[1], Luther Bartelt[2], Sylvia Becker-Dreps[2], Samuel Vilchez[1]
[1]National Autonomous University of Nicaragua, Leon, Nicaragua, [2]University of North Carolina, Chapel Hill, NC, United States

819

CONTRIBUTION TO THE EPIDEMIOLOGICAL STUDY OF TOXOPLASMOSIS IN BEEF HANDLERS IN SLAUGHTERHOUSES ON THE ATLANTIC COAST OF COLOMBIA

Linda M. Chams, Alberto S. Mestra, Carlos J. Castro
Grupo de Investigaciones Microbiológicas y Biomédicas de Córdoba (GIMBIC)-Universidad de Córdoba, Monteria, Colombia

820

A FIRST REPORT ON EXPERIENCE IN MANAGING INFANTS WITH CONGENITAL TOXOPLASMOSIS IN ETHIOPIA: A REVIEW OF EVALUATION AND TREATMENT IN RESOURCE-LIMITED SETTINGS

Tinsae Alemayehu[1], Selamawit Assefa[2], Solomie Jebessa Deribessa[3], Semienew Ambachew[4]
[1]St. Paul's hospital millennium medical college, Addis Ababa, Ethiopia, [2]Lancet hospital, Addis Ababa, Ethiopia, [3]St. Paul's hospital millennium medic college, Addis Ababa, Ethiopia, [4]Addis Ababa University, Addis Ababa, Ethiopia

821

MULTIPLEX ANTIBODY BEAD ASSAY DETECTS EARLY AND PERSISTENT CHRONIC *BABESIA MICROTI* INFECTIONS IN BLOOD DONORS

Scott Meredith[1], Ankit Puri[1], Victoria Majam[1], Laura Tonnetti[2], Susan Stramer[2], Sanjai Kumar[1]
[1]Food and Drug Administration, Silver Spring, MD, United States, [2]American Red Cross, Rockville, MD, United States

(ACMCIP Abstract)

822

UNEXPECTED CONSEQUENCES OF A PANDEMIC ON CRYPTOSPORIDIOSIS INFECTIONS IN NEW YORK STATE

Kimberly Mergen, Susan Madison-Antenucci
NYSDOH, Albany, NY, United States

Water, Sanitation, Hygiene and Environmental Health

823

THE EFFECT OF TEMPERATURE ON PERSISTENCE OF A SARS-COV-2 SURROGATE ON MEAT PRODUCTS

Emily S. Bailey[1], Mark D. Sobsey[2]
[1]Texas Tech Health Sciences Center, Lubbock, TX, United States, [2]The University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

824

FECAL CONTAMINATION IN CHILD PLAY SPACES AND ON CHILD HANDS IS ASSOCIATED WITH SUBSEQUENT ADVERSE CHILD DEVELOPMENTAL OUTCOMES IN RURAL DEMOCRATIC REPUBLIC OF THE CONGO (REDUCE PROGRAM)

Christine Marie George[1], Alves Birindwa[2], Sarah Beck[3], Timothy Julian[3], Jennifer Kuhl[1], Camille Williams[1], Nicole Coglianese[2], Elizabeth Thomas[1], Sarah Bauler[2], Ruthly Francois[1], Angela Ng[1], Amani Sanvura Presence[2], Bisimwa Rusanga Jean Claude[2], Fahmida Tofail[4], Jamie Perin[1], Patrick Mirindi[2], Lucien Bisimwa Cirhuza[2]
[1]Johns Hopkins School of Public Health, Baltimore, MD, United States, [2]Food for the Hungry, Phoenix, AZ, United States, [3]Department of Environmental Microbiology, Swiss Federal Institute of Aquatic Science and Technology (EAWAG), Zurich, Switzerland, [4]International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

825

ACCESS TO WATER SANITATION AND HYGIENE FACILITIES AT PRIMARY HEALTH CARE CENTERS IMPACTING MOTHER'S PARTICIPATION IN A GROUP SESSION -EXPERIENCES FROM RINEW-G STUDY IN BANGLADESH

Tania Jahir[1], Mahbubur Rahman[1], Elli Leontsini[2], Farzana Yeasmin[1], Peter J Winch[2]
[1]icddr,b, Dhaka, Bangladesh, [2]John Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

826

EPIDEMIOLOGIC FEATURES OF ACUTE PEDIATRIC DIARRHEA IN MANAGUA, NICARAGUA, FROM 2011 TO 2019

Jose Victor Zambrana[1], Fausto Bustos Carrillo[1], Sergio Ojeda[2], Brenda Lopez[2], Krista Latta[3], Amy Schiller[3], Guillermina Kuan[4], Aubree Gordon[3], Arthur Reingold[5], Eva Harris[1]

[1]Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, [2]Sustainable Sciences Institute, Managua, Nicaragua, [3]Department of Epidemiology, School of Public Health, University of Michigan, Ann Arbor, Ann Arbor, MI, United States, [4]Centro de Salud Socrates Flores Vivas, Ministry of Health, Managua, Nicaragua, [5]Division of Epidemiology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States

827

FECAL CONTAMINATION ON THE HOUSEHOLD COMPOUND AND IN WATER SOURCES ARE ASSOCIATED WITH SUBSEQUENT DIARRHEA IN YOUNG CHILDREN IN URBAN BANGLADESH (CHOBI7 PROGRAM)

Tahmina Parvin[1], Elizabeth D. Thomas[2], Md. Sazzadul Islam Bhuyian[1], Ismat Minhaj Uddin[1], M. Tasdik Hasan[1], Zillur Rahman[1], Indrajeet Barman[1], Fatema Zohura[1], Jahed Masud[1], Marzia Sultana[1], Anne Westin[2], Fatema-Tuz Johura[1], Shirajum Monira[1], Shwapon Kumar Biswas[1], David A. Sack[2], Jamie Perin[2], Munirul Alam[1], Christine Marie George[2]

[1]International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, [2]Johns Hopkins School of Public Health, Baltimore, MD, United States

828

EFFECTS OF A SCHOOL WATER, SANITATION, AND HYGIENE INTERVENTION ON CHILDREN'S NUTRITION, HYDRATION, HEALTH LITERACY, AND HANDWASHING: A MULTI-ARM CLUSTER-RANDOMIZED CONTROLLED TRIAL IN MANILA, PHILIPPINES

Stephanie O. Sangalang[1], Zheina Ottong[2], Allen Lemence[2], Shelley Medina[2], Shyrill Mariano[3], Nelissa Prado[2], Patricia Singson[4], Mylene Cayetano[5], Christian Borgemeister[1], Thomas Kistemann[6]

[1]Center for Development Research, University of Bonn, Bonn, Germany, [2]University of the Philippines, Diliman, Quezon City, Philippines, [3]Marine Science Institute, University of the Philippines, Diliman, Quezon City, Philippines, [4]Ateneo de Manila University, Quezon City, Philippines, [5]Institute of Environmental Science and Meteorology, University of the Philippines, Diliman, Quezon City, Philippines, [6]Institute for Hygiene and Public Health and Center for Development Research, University of Bonn, Bonn, Germany

829

HOSPITALS IN DHAKA AND DISCHARGE OF WASTEWATER WITH HIGH SARS-COV-2 VIRAL RNA GENETIC LOADINGS: AN ASSESSMENT OF POTENTIAL ENVIRONMENTAL HEALTH RISK

Nuhu Amin[1], Rehnuma Haque[1], Md. Ziaur Rahman[1], Mohammed Ziaur Rahman[1], Zahid Hayat Mahmud[1], Rezaul Hasan[1], Supriya Sarker[2], Nargis Akter[3], Dara Johnston[3], Mahbubur Rahman[1], Prosun Bhattacharya[4]

[1]icddr,b, Dhaka, Bangladesh, [2]Directorate General of Health Services (DGHS), Dhaka, Bangladesh, [3]UNICEF, Dhaka, Bangladesh, [4]KTH Royal Institute of Technology, Stockholm, Sweden

830

"NON-PSEUDOMONAS" SWIMMERS' EAR, A CONDITION UNFAMILIAR TO MOST CLINICIANS

Don W. Kannangara, Dhyanesh Pandya

St Luke's University Health network, Warren Campus, Phillipsburg, NJ, United States

831

BIOACTIVITY OF FOUR NIGERIAN WILD MUSHROOMS AGAINST SOME TYPED CLINICAL ISOLATES

Janet Olubukola Olaitan[1], Mobolaji A. Titilawo[1], Abidemi O. Faseun[1], Sunday B. Akinde[1], Olu Odeyemi[2]

[1]Osun State University, Osogbo, Nigeria, [2]Obafemi Awolowo University, Ile-Ife, Nigeria

832

CORE MICROBIOME OF MALNOURISHED CHILDREN WITH ENVIRONMENTAL ENTERIC DYSFUNCTION

Najeeha Talat Iqbal[1], Robert Chen[2], Nicholas Griffin[3], Safina Abdul Razzak[1], Kamran Sadiq[1], Junaid Iqbal[1], Aneeta Hotwani[1], Najeeb Rahman[1], Fayaz Umrani[1], Sheraz Ahmed[1], Sana Syed[4], Sean Moore[4], Barratt Michael[5], Gordon Jeffrey[5], Asad Ali[1]

[1]Aga Khan University, Karachi, Pakistan, [2]Washinton University St.Louis, St. Louis, MO, United States, [3]Washington University St.Louis, St.Louis, MO, United States, [4]University of Virginia, Charlottesville, VA, United States, [5]University Of Washington, St. Louis, MO, United States

833

THE CRUCIAL ROLE OF ECONOMIC EVALUATIONS TO ASSESS THE IMPACT OF WATER, SANITATION AND HYGIENE ON REDUCING SCHISTOSOMIASIS BURDEN IN UGANDA

Sergi Alonso[1], Eva Janouskova[2], Emma McIntosh[3], Joaquin Prada[2], Poppy Lamberton[4]

[1]Institute of Biodiversity, Animal Health & Comparative Medicine, University of Glasgow, Glasgow, United Kingdom, [2]University of Surrey, Guildford, United Kingdom, [3]Health Economics & Health Technology Assessment. University of Glasgow, Glasgow, United Kingdom, [4]Institute of Biodiversity, Animal Health & Comparative Medicine. University of Glasgow, Glasgow, United Kingdom

834

WORLD HEALTH ORGANIZATION - HOUSEHOLD WATER TREATMENT TECHNOLOGY AND MICROBIAL LOG-REDUCTION VALUES

Gouthami Rao[1], Emma Wells[2], Karl Linden[2], Joe Brown[1]

[1]University of North Carolina - Chapel Hill, Chapel Hill, NC, United States, [2]University of Colorado Boulder, Boulder, CO, United States

835

USING CHOICE MODELLING TO IDENTIFY POPULAR AND AFFORDABLE ALTERNATIVE INTERVENTIONS FOR SCHISTOSOMIASIS IN UGANDA

Keila Meginnis[1], Nick Hanley[2], Lazaaro Mujumbusi[2], Lucy Pickering[2], Poppy Lamberton[2]

[1]University of Stirling, Glasgow, United Kingdom, [2]University of Glasgow, Glasgow, United Kingdom

836

WATER TREATMENT BEHAVIOR AND SOCIAL NORMS AMONG WOMEN LIVING WITH YOUNG CHILDREN IN RURAL UGANDA

Jessica M. Perkins[1], Bernard Kakuhikire[2], Charles Baguma[2], Raphael Abayateye[3], Meredith Meadows[1], Justin D. Rasmussen[4], Emily N. Satinsky[5], David R. Bangsberg[6], Alexander C. Tsai[5]

[1]Vanderbilt University, Nashville, TN, United States, [2]Mbarara University of Science and Technology, Mbarara, Uganda, [3]Vanderbilt University School of Medicine, Nashville, TN, United States, [4]Duke University, Durham, NC, United States, [5]Massachusetts General Hospital, Boston, MA, United States, [6]Oregon Health and Science University - Portland State University of Public Health, Portland, OR, United States

837

DETERMINATION OF GROUNDWATER QUALITY IN AND AROUND KNUST, KUMASI, GHANA

James Deke
Kumasi Centre for Collaborative Research in Tropical Medicine, Kumasi, Ghana

Late-Breaker Abstract Session 59

Late-Breakers in Coronavirus

Meeting Room 9
Friday, November 19
Noon - 1:15 p.m. U.S. Eastern Time Zone

This session is specifically designed for brief presentations of new data obtained after the closing date for abstract submission. See the Meeting App or Late-Breaker Abstract Presentation Schedule booklet (available online) for the presentation schedule.

CHAIR

Noreen A. Hynes
Johns Hopkins School of Medicine, Baltimore, MD, United States

Katherine R. Dobbs
Case Western Reserve University, Cleveland, OH, United States

TropStop - Career Chats III

Thinking About Industry (But with a Global Health Heart)?

Career Chats Room
Friday, November 19
12:30 p.m. - 1:30 p.m. U.S. Eastern Time Zone

Limited to attendees pre-registered for this session.

Attend the Career Chats sessions to meet professionals in the tropical medicine field who will share their career stories and strategies to help you along your professional path, as well as discuss topical subjects in the field of global health.

Trainees and early career scientists continually face the prospect of leaving academia or other public sector roles for industry. ASTMH members face unique considerations, as we are a largely mission-driven community that may be hesitant to leave the compassionate world of global health for profit-driven entities. How can we do effective global health work outside of academia or the public sector? This session will investigate different sides of industry professions, covering both basic and applied science career paths.

CHAIR

Hanna Ehrlich
Yale University, New Haven, CT, United States

Bronwyn MacInnis
Broad Institute, Cambridge, MA, United States

SPEAKERS

Yannick Vanloubbeeck
GlaxoSmithKline Biologicals, Rixensart, Belgium

Erika L. Flannery
Novartis Institute for Tropical Diseases, Emeryville, CA, United States

Joel Sevinsky
Theiagen Genomics, Highlands Ranch, CO, United States

Break

Friday, November 19
1:30 p.m. – 1:45 p.m. U.S. Eastern Time Zone

Scientific Session 60

Malaria: Data to Inform and Target Malaria Elimination Strategies

Meeting Room 1
Friday, November 19
1:45 p.m. - 3:30 p.m. U.S. Eastern Time Zone

CHAIR

Thom Eisele
Tulane University, New Orleans, LA, United States

Maylis Douine
Centre d'Investigation Clinique Antilles Guyane, Inserm 1424, Cayenne Hospital, Cayenne, French Guiana

1:45 p.m.

838

QUANTIFYING THE CONTRIBUTION OF LOW-DENSITY AND ASYMPTOMATIC INFECTIONS TO *PLASMODIUM VIVAX* TRANSMISSION IN THE AMAZON

Marcelo U. Ferreira[1], **Rodrigo M. Corder**[1], Igor C. Johansen[1], Johanna H. Kattenberg[2], Marta Moreno[3], Angel Rosas-Aguirre[4], Jan E. Conn[5], Dionicia Gamboa[6], Alejandro Llanos-Cuentas[6], Anna Rosanas-Urgell[2], Joseph M. Vinetz[7]
[1]University of São Paulo, São Paulo, Brazil, [2]Institute of Tropical Medicine, Antwerp, Belgium, [3]London School of Hygiene & Tropical Medicine, London, United Kingdom, [4]Université Catholique de Louvain, Brussels, Belgium, [5]State University of New York, Albany, NY, United States, [6]Universidad Peruana Cayetano Heredia, Lima, Peru, [7]Yale School of Medicine, New Haven, CT, United States

1:55 p.m.

839

USING SOURCE OF INFECTION DATA TO TARGET MALARIA ELIMINATION IN THAILAND

Prayuth Sudathip[1], Sathapana Naowarat[2], Suravadee Kitchakarn[1], Chalita Suttiwong[1], Darin Areechokchai[1], Chantana Padungtod[1], Deyer Gopinath[3], Niparueradee Pinyajeerapat[4], David Sintasath[4], Jui A. Shah[2]
[1]Division of Vector Borne Diseases, Department of Disease Control, Ministry of Public Health, Thailand, Nonthaburi, Thailand, [2]Inform Asia: USAID's Health Research Program, RTI International, Bangkok, Thailand, [3]World Health Organization, Nonthaburi, Thailand, [4]U.S. President's Malaria Initiative, United States Agency for International Development (USAID), Regional Development Mission for Asia, Bangkok, Thailand

2:05 p.m. 840

TRAINING ISOLATED POPULATIONS IN THE AMAZON TO SELF-DIAGNOSE AND SELF-TREAT FOR MALARIA: RESULTS OF THE MALAKIT OPERATIONAL RESEARCH STUDY

Maylis Douine[1], Yann Lambert[1], Muriel Galindo[1], Louise Mutricy[1], Alice Sanna[2], Cassio Peterka[3], Paola Marchesini[4], Helene Hiwat[5], Mathieu Nacher[1], Antoine Adenis[1], Magalie Demar[1], Lise Musset[6], Hedley Cairo[5], Jane Bordalo Miller[7], Stephen Vreden[8], Martha Suarez-Mutis[9]

[1]Cayenne Hospital, Cayenne, French Guiana, [2]Regional Health Agency, Cayenne, French Guiana, [3]National Malaria Programme, Brazilia, Brazil, [4]National Malaria Programme, Brasilia, Brazil, [5]National Malaria Programme, Paramaribo, Suriname, [6]Parasitology Laboratory, WHO Collaborating Centre, Pasteur Institute of French Guiana, Cayenne, French Guiana, [7]DPAC-Fronteira non-profit, Oiapoque, Brazil, [8]Foundation for the Advancement of Scientific Research in Suriname, Paramaribo, Suriname, [9]Parasitology Laboratory, Foundation Oswaldo Cruz, Rio de Janeiro, Brazil

2:15 p.m. 841

EFFECTIVENESS AND COST-EFFECTIVENESS OF REACTIVE, TARGETED INDOOR RESIDUAL SPRAYING FOR MALARIA CONTROL IN LOW-TRANSMISSION SETTINGS: A CLUSTER-RANDOMISED, NON-INFERIORITY TRIAL IN SOUTH AFRICA

David Bath[1], Jackie Cook[1], John Govere[2], TIRS Trial Team[3], Maureen Coetzee[4], Catherine Pitt[1], Immo Kleinschmidt[1]

[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]University of the Witwatersrand, Johannesburg, South Africa, [4]University of the Witwatersrand, Johannesburg, United Kingdom

2:25 p.m. 842

GAMETOCYTE PERSISTENCE, INFECTIVITY AND ASSOCIATIONS WITH HRP-2 LEVELS AFTER PYRONARIDINE-ARTESUNATE AND DIHYDROARTEMISININ-PIPERAQUINE WITH AND WITHOUT SINGLE-LOW DOSE PRIMAQUINE: A SINGLE-BLIND RANDOMIZED CLINICAL TRIAL IN OUELESSEBOUGOU, MALI

Almahamoudou Mahamar[1], **Will J R Stone**[2], Tate Oulton[2], Koualy Sanogo[1], Youssouf Sinaba[1], Sidi M. Niambele[1], Adama Sacko[1], Sekouba Keita[1], Ahamadou Youssouf[1], Makonon Diallo[1], Harouna M. Soumare[1], Kjerstin Lanke[3], Rob ter Heine[4], John Bradley[5], Djibrilla Issiaka[1], Halimatou Diawara[1], Sekou F. Traore[1], Teun Bousema[3], Chris Drakeley[2], Alassane Dicko[1]

[1]Malaria Research and Training Centre, Faculty of Pharmacy and Faculty of Medicine and Dentistry, University of Sciences Techniques and Technologies of Bamako, Bamako, Mali, [2]Department of Infection Biology, London School of Hygiene & Tropical Medicine, London, United Kingdom, [3]Department of Medical Microbiology and Radboud Center for Infectious Diseases, Radboud University Medical Center, University of Nijmegen, Nijmegen, Netherlands, [4]Department of Pharmacy and Radboud Center for Infectious Diseases, Radboud University Medical Center, University of Nijmegen, Nijmegen, Netherlands, [5]MRC International Statistics and Epidemiology Group, London School of Hygiene & Tropical Medicine, London, United Kingdom

2:35 p.m. 843

USE OF QPCR AND SEROLOGY TO INFORM TARGETING MALARIA ELIMINATION STRATEGIES IN LOW BURDEN SETTINGS IN BOTSWANA

Ayokunle Abogan[1], **Erica P. Berlin**[1], Styn Jamu[2], Refilwe Senyatso[3], Mpho Mogopa[3], Chris Drakely[4], Catriona Patterson[4], Giacomo M. Paganotti[5], Davies S. Ntebela[3]

[1]Clinton Health Access Initiative, Boston, MA, United States, [2]Q Partnership International, Gaborone, Botswana, [3]Ministry of Health, National Malaria Programme, Gaborone, Botswana, [4]London School of Hygiene & Tropical Medicine, London, United Kingdom, [5]Botswana-University of Pennsylvania Partnership, Gaborone, Botswana

2:45 p.m. 844

IMPROVING ACCESS TO MALARIA DIAGNOSIS AND TREATMENT IN BORDER COMMUNITIES AND MOBILE AND MIGRANT POPULATIONS

Mukosha Chisenga[1], Paulo Maquina[1], Nyasha Mwendera[1], Chadwick Sikaala[1], Bongani Dlamini[1], Jennifer Smith[2], Adam Bennett[2], Roly Gosling[2], Jose Franco Martins[3], Styn Jamu[4], Ntebaleng Makate[4], Giacomo Paganotti[4], Lesego Gabaitiri[4], Francisco Saute[5], Davis Mumbengegwi[6], Natashia Morris[7], Rajendra Maharaj[7], Jaishree Raman[8], Busiku Hamainza[9], Busisani Dube[10], Immo Kleinschmidt[1]

[1]SADC Malaria Elimination 8, Windhoek, Namibia, [2]University of California, San Francisco, San Francisco, CA, United States, [3]Angola National Malaria Programme, Luanda, Angola, [4]University of Botswana, Gaborone, Botswana, [5]Centro de Investigação em Saúde de Manhiça, Mozambique, Manhica, Mozambique, [6]University of Namibia, Windhoek, Namibia, [7]South Africa Medical Research Council, Cape Town, South Africa, [8]National Institute for Communicable Diseases, Johannesburg, South Africa, [9]Zambia National Malaria Programme, Lusaka, Zambia, [10]Zimbabwe National Malaria Programme, Harare, Zimbabwe

Scientific Session 61

Other (Arbo)viruses of Concern

Meeting Room 2
Friday, November 19
1:45 p.m. - 3:30 p.m. U.S. Eastern Time Zone

CHAIR
Zoe Lyski
Oregon Health and Science University, Portland, OR, United States

Juan-Carlos Jaramillo
Valneva Austria GMBH, Vienna, Austria

1:45 p.m. 845

DESCRIBING PREDICTOR RISK FACTORS FOR LATE-RELAPSING HEPATITIS AFTER YELLOW FEVER

Izabela M. Rezende[1], Max Allan McClure[1], Leonardo S. Pereira[2], Jordana R. B. Fradico[3], Amrik S. Kang[1], Andreza P. Gonçalves[4], Gabriela Fernanda G. Oliveira[2], Thais Alkifeles[2], Pedro A. Alves[4], Marcelo Antônio P. Xavier[4], Olindo A. Martins-Filho[3], Andréa Teixeira-Carvalho[3], Betânia P. Drumond[2], A. Desiree LaBeaud[1]

[1]Department of Pediatrics, Division of Infectious Diseases, Stanford University School of Medicine, Stanford, CA, United States, [2]Laboratório de Vírus, Instituto de Ciências Biológicas, Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, [3]Grupo Integrado de Pesquisas em Biomarcadores, Instituto René Rachou, Fundação Oswaldo Cruz/FIOCRUZ, Belo Horizonte, Brazil, [4]Imunologia de Doenças Virais, Instituto René Rachou, Fundação Oswaldo Cruz/FIOCRUZ, Belo Horizonte, Brazil

1:55 p.m. 846

INFECTION WITH CHIKUNGUNYA VIRUS CONFERS CROSS-PROTECTIVE NEUTRALIZING ANTIBODIES AND MEMORY B-CELLS THAT REMAIN IN CIRCULATION FOR DECADES FOLLOWING NATURAL INFECTION IN BOTH ENDEMIC AND NON-ENDEMIC TRANSMISSION SETTINGS

Zoe L. Lyski[1], John M. Powers[2], Chad D. Nix[1], Brian Booty[3], Luisa I. Alvarado[4], Rachel M. Rodriguez[4], Vanessa Rivera-Amill[4], Daniel N. Streblow[2], William B. Messer[1]

[1]Oregon Health and Science University, Portland, OR, United States, [2]Vaccine and Gene Therapy Institute, Oregon Health & Science University, Beaverton, OR, United States, [3]Oregon Clinical and Translational Research Institute (OCTRI), Portland, OR, United States, [4]Ponce Health Sciences University, Ponce, PR, United States

2:05 p.m. 847

LONG-TERM SEQUELAE OF CHIKUNGUNYA AMONG CHILDREN AND ADULTS IN MANAGUA, NICARAGUA, 2014-2018

Colin Warnes[1], Fausto A. Bustos Carrillo[1], Brenda Lopez Mercado[2], Sergio Ojeda[2], Angel Balmaseda[2], Guillermina Kuan[3], Eva Harris[1]
[1]Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, [2]Sustainable Sciences Institute, Managua, Nicaragua, [3]Centro de Salud Socrates Flores Vivas, Ministry of Health, Managua, Nicaragua

2:15 p.m. 848

CHIKUNGUNYA: PHASE 3 CLINICAL DEVELOPMENT OF A SINGLE-SHOT LIVE-ATTENUATED VACCINE

Juan-Carlos Jaramillo, Martina Schneider, Marivic Narciso, Romana Hochreiter, Annegret Bitzer, Robert Mader, Katrin Dubischar, Oliver Zoihsl, Nina Wressnigg, Susanne Eder-Lingelbach
Valneva Austria GMBH, Vienna, Austria

2:25 p.m. 849

LONG-TERM SAFETY AND IMMUNOGENICITY OF CHIKUNGUNYA VIRUS-LIKE PARTICLE VACCINE IN CHIKUNGUNYA SEROPOSITIVE INDIVIDUALS

Roshan Ramanathan[1], Julie Ledgerwood[2], Emily Coates[2], Jason Mendy[1], Lisa Bedell[1], Jason Richardson[1], Ranjini Prithviraj[1], Sarah Royalty Tredo[1], Kelly L. Warfield[1], Chris Cabell[1]
[1]Emergent BioSolutions, Gaithersburg, MD, United States, [2]Vaccine Research Center, NIAID, NIH, Bethesda, MD, United States

2:35 p.m. 850

MODELING THE KINETICS AND DURABILITY OF THE HUMORAL RESPONSE TO A CHIKUNGUNYA VIRUS-LIKE PARTICLE VACCINE

Steven Stoddard[1], Lisa Bedell[1], Jason Richardson[1], Jason Mendy[1], Spencer Stonier[1], Stefan Metz[1], Lo Vang[1], Ravi Anantha[1], James McCarty[2], Sanduli Fernando[1], Ranjini Prithviraj[1], Roshan Ramanathan[1]
[1]Emergent BioSolutions, Gaithersburg, MD, United States, [2]Stanford University, Stanford, CA, United States

2:45 p.m. 851

SCALE UP OF JAPANESE ENCEPHALITIS VACCINATION IN IMMUNIZATION PROGRAM OF BIHAR AMIDST COVID19 PANDEMIC IN 2020 IN INDIA, THROUGH EFFECTIVE PARTNERSHIPS

Dr. Satyabrata Routray[1], Dr. Padmalochan Biswal[1], Dr. Siddhartha Dutta[2], Dr NK Sinha[3], Shyamashree Das[4]
[1]PATH, New Delhi, India, [2]PATH, Patna, India, [3]Govt. of Bihar, Patna, India, [4]BMGF, New Delhi, India

Symposium 62

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) Symposium I: Bypassing Biological Barriers: Microsurgical Techniques in Parasitology

Meeting Room 3
Friday, November 19
1:45 p.m. - 3:30 p.m. U.S. Eastern Time Zone

Supported with funding from the Burroughs Wellcome Fund

Although mus musculus has proven to be an excellent model for many parasitic diseases, this species has important limitations. Studying certain aspects of parasite biology has proven difficult, if not impossible, when the laboratory mouse is not a suitable host for a given parasite. This symposium will review some of these challenges, using schistosomiasis as a case study, and how they can be overcome using novel microsurgical techniques. The symposium will also focus on how these techniques take inspiration from and could be applied to other infection models, such as those involving, C. elegans, mycobacteria, and zebra fish.

CHAIR

Michael Hsieh
George Washington University, Washington, DC, United States

Mostafa Zamanian
University of Wisconsin Madison, Madison, WI, United States

1:45 p.m.
INTRODUCTION

1:55 p.m.
INDUCING ANTI-PARASITE IMMUNE RESPONSES IN THE MURINE INTESTINE TO STUDY ACUTE AND CHRONIC INFECTION

Johannes Mayer
Malaghan Institute of Medical Research, Wellington, New Zealand

2:20 p.m.
DRUGS, SEX, AND WORMS: DEVELOPING A DEEPER UNDERSTANDING OF SCHISTOSOME BIOLOGY TO ADVANCE NEW THERAPIES

Jim Collins
UT Southwestern, Dallas, TX, United States

2:45 p.m.
INSIGHTS INTO SCHISTOSOMA BIOLOGY AND TRANSMISSION FROM THE ZEBRAFISH.

Lalita Ramakrishnan
University of Cambridge, Cambridge, United Kingdom

3:10 p.m.
ADVANCING SPATIAL TRANSCRIPTOMICS AND HETEROLOGOUS SYSTEMS FOR ANTHELMINTIC DISCOVERY

Mostafa Zamanian
University of Wisconsin Madison, Madison, WI, United States

Symposium 63

4th Annual Innovations Pitch Session: A Healthier Global Community Addressing the Twin Challenges of Pandemic Preparedness and Impact of Climate Change

Grand Ballroom
Friday, November 19
1:45 p.m. - 3:30 p.m. U.S. Eastern Time Zone

This is our 4th year of the Innovations Pitch Competition. This year our challenge to innovators is to submit proposals that cover two of the most consequential threats to a healthy and sustainable world: resilience in the face of a pandemic and reducing the deleterious impact of climate change. Ideas can cover the spectrum from nascent concepts all the way to mature solutions. These solutions must be rooted in scientific rigor and be able to be pitched to a live audience. Greater emphasis will be placed on how these innovations will improve conditions in developing and low resource settings. We are looking for innovative ideas that will address, but not limited to: 1) Pandemic solutions including (but not limited to) vaccine acceptance, tracking of vaccine effectiveness, virus variant tracking, quality diagnostics, innovative approaches to prevention of disease spread, and predictive forecasting of emerging threats 2) Identifying and mitigating the direct and indirect effects of climate change and its consequences of vector-competency, and human and animal health. Reviews and selection will be based on ideas that have scientific novelty, ethical application and sustainability. Applicants must have a team member from an LMIC, or active partnership with colleagues based in an LMIC to develop the innovation together. The top 5 proposals chosen by the expert reviewers will then be invited to pitch their innovation in person at the ASTMH Annual Meeting in November 2021. At the live pitch session (this symposium), each innovator will give a rapid-fire pitch in front of an expert judging panel and audience. The winners will be determined from a weighted score of both the expert judges panel decision and audience voting. Audience participation and real-time voting will be facilitated through the use of the SLIDO interactive application. All finalists presenting at the live session will receive a monetary award and access to marketing advice and pitch sessions to investors.

CHAIR

May Chu
Colorado School of Public Health, Parker, CO, United States

Molly Lamb
Colorado School of Public Health, Aurora, CO, United States

1:45 p.m.
INTRODUCTION

1:55 p.m.
INNOVATIONS PITCH 1

Farhana Sultana
icddr,b, Dhaka, Bangladesh

2:05 p.m.
INNOVATIONS PITCH 2

Vivek Jason Vayaraj
Ainqa Health Sdn Bhd, Kuala Lumpur City, Malaysia

2:15 p.m.
INNOVATIONS PITCH 3

Deus Kamya
Makerere University, Kampala, Uganda

2:25 p.m.
INNOVATIONS PITCH 4

Hiruni Harichandra
University of Sri Jayewardenepura, Nugegoda, Sri Lanka

2:35 p.m.
INNOVATIONS PITCH 5

Sachini Fernando
University of Sri Jayewardenepura, Nugegoda, Sri Lanka

2:45 p.m.
QUESTION AND ANSWER

3:05 p.m.
JUDGES' DELIBERATION AND AUDIENCE VOTING

3:15 p.m.
SCORE FINALIZATION AND ANNOUNCEMENT OF WINNERS

Symposium 64

ASTMH Committee on Global Health (ACGH) Symposium I: Global Health Diplomacy I: COVID-19 and the International Health Framework

Meeting Room 5
Friday, November 19
1:45 p.m. - 3:30 p.m. U.S. Eastern Time Zone

Countries can no longer expect to solve their health issues by focusing inwards. Time and again, we are reminded of the global nature of many of our common health threats ranging from infectious diseases to non-communicable diseases and injury/violence-related health issues. From time to time, an international (health) issue becomes a Cosmopolitan Moment,(1) prompting a reflective process leading to significant changes in the architecture and/or mechanisms of international (health) dialogue and cooperation. COVID-19 has prompted a paradigm shift and an institutional rearrangement in the field of global health diplomacy (GHD). That paradigm shift is poised to accelerate needed changes in the framework of international agreements and mechanisms that are currently in place to address global health challenges. It is in this context that Global Health Diplomacy is posited to significantly contribute to the response and preparedness to current and future pandemics by providing the tools and platforms for much-needed, intense international health-related negotiations. Global Health Diplomacy sits at the intersection of public health and international affairs. It is imperative that

global health professionals develop Global Health Diplomacy competencies to be able to positively influence the current global health environment. In this symposium, speakers will analyze the impact of COVID-19 in current global health efforts. Speakers will also discuss whether COVID-19 is, or could potentially become/be capitalized as a Cosmopolitan Moment to drive efforts to update our current international health framework.

CHAIR

MIguel Reina Ortiz
University of South Florida, Tampa, FL, United States

Fernando Bruno
Touro College of Osteopathic Medicine, Middletown, NY, United States

1:45 p.m.
INTRODUCTION

1:55 p.m.
GLOBAL HEALTH DIPLOMACY: COSMOPOLITAN MOMENTS AS DRIVERS OF INTERNATIONAL HEALTH NEGOTIATIONS

Miguel Reina Ortiz
University of South Florida, Tampa, FL, United States

2:05 p.m.
GLOBAL HEALTH DIPLOMACY BEYOND THE LAB: LEVERAGING THE TRADITIONAL ROLE OF SCIENTISTS TOWARD THE GOAL OF IMPROVED HEALTH OUTCOMES

Karen Goraleski
ASTMH, Arlington, VA, United States

2:20 p.m.
POLICY DEVELOPMENT IN THE MIDST OF A PANDEMIC: LEVERAGING GLOBAL HEALTH DIPLOMACY TO BRIDGE THE GAP BETWEEN ORGANIZATIONS AND GOVERNMENTS.

William Adu-Krow
Columbia University Psychiatric Institute - Guyana Mental Health (Suicide) Project, Foulis, Guyana

2:35 p.m.
GLOBAL HEALTH DIPLOMACY IN TIMES OF THE COVID-19 PANDEMIC: A COSMOPOLITAN MOMENT?

Mihály Kökény
The Graduate Institute, Geneva, Switzerland

2:50 p.m.
ACGH ANNUAL BUSINESS MEETING

Miguel Reina Ortiz
University of South Florida, Tampa, FL, United States

Scientific Session 65

Malaria: Drug Treatment, Resistance and Clinical Trials

Meeting Room 6
Friday, November 19
1:45 p.m. - 3:30 p.m. U.S. Eastern Time Zone

CHAIR

Francisco-Javier Gamo
GlaxoSmithKline, Tres Cantos (Madrid), Spain

Melissa Rosenthal
University of Nebraska Medical Center, Omaha, NE, United States

1:45 p.m. **852**

ROLE OF *PLASMODIUM FALCIPARUM* KELCH 13 PROTEIN MUTATIONS AND FALCIPAIN 2A HAPLOTYPES IN ARTEMISININ RESISTANCE

Faiza Siddiqui[1], Rachasak Boonhok[1], Mynthia Cabrera[2], Huguette Gaelle Ngassa Mbenda[1], Meilian Wang[3], Hui Min[1], Xiaoying Liang[1], Junling Qin[1], Xiaotong Zhu[3], Jun Miao[1], Yaming Cao[3], Liwang Cui[1]
[1]University of South Florida, Tampa, FL, United States, [2]Pennsylvania State University, University Park, PA, United States, [3]China Medical University, Shenyang, China

1:55 p.m. **853**

THE IMPORTANCE OF THE PARASITE PROTEASOME IN ARTEMISININ RESPONSE

Melissa Rosenthal, Caroline Ng
University of Nebraska Medical Center, Omaha, NE, United States

2:05 p.m. **854**

ASSESSING FEASIBILITY OF A STRATEGY DEPLOYING MULTIPLE FIRST-LINES ARTEMISININ-BASED COMBINATION THERAPIES FOR UNCOMPLICATED MALARIA IN THE HEALTH DISTRICT OF KAYA, BURKINA FASO

Jean Moïse Tanga Kabore[1], Mahamadou Siribié[1], Denise Hien[1], Issiaka Soulama[1], Yacouba Nombre[1], Frederic Dianda[2], Benjamin Sombié[1], Nouhoun Barry[1], Gauthier Tougri[2], Adama Baguiya[3], B. Alfred Tiono[1], Christian Burri[4], André-Marie Tchouatieu[5], Sodiomon Bienvenu Sirima[1]
[1]Groupe de Recherche Action en Santé (GRAS), Ouagadougou, Burkina Faso, [2]Programme National de Lutte contre le Paludisme, Ministère de la Santé, Ouagadougou, Burkina Faso, [3]Institut de Recherche en Sciences de la Santé, Ouagadougou, Burkina Faso, [4]Swiss Tropical & Public Health Institute, Basel, Switzerland, [5]Medicines for Malaria Venture (MMV), Geneva, Switzerland

2:15 p.m. **855**

MEASURING GROWTH, RESISTANCE, AND RECOVERY AFTER ARTEMISININ TREATMENT IN A SINGLE SEMI-HIGH-THROUGHPUT ASSAY

Mackenzie A. Sievert[1], Douglas A. Shoue[1], Lisa A. Checkley[1], Puspendra S. Singh[1], Katelyn M. Vendrely[1], Zione Cassady[1], Marina McDew-White[2], François H. Nosten[3], Timothy J. Anderson[2], Michael T. Ferdig[1]
[1]Eck Institute for Global Health, University of Notre Dame, South Bend, IN, United States, [2]Texas Biomedical Research Institute, San Antonio, TX, United States, [3]Centre for Tropical Medicine and Global Health, University of Oxford, Oxford, United Kingdom

2:25 p.m. 856

THE *PLASMODIUM FALCIPARUM* ELONGATION FACTOR 2 INHIBITOR M5717 IS EFFICACIOUS AGAINST MALARIA LIVER STAGE: A CONTROLLED LIVER-STAGE MALARIA INFECTION STUDY IN HEALTHY SUBJECTS

Vincent Kuiper[1], Johan van de Plas[2], Oezkan Yalkinoglu[3], Aliona Tappert[3], Xiaoyan Yin[4], , Deon Bezuidenhout[3], Akash Khandelwal[3], Justin Wilkins[5], Ingrid Kamerling[2], Meta Roestenberg[1], Claude Oeuvray[3], **Wilhelmina Bagchus**[3]
[1]Leiden University Medical Center, Leiden, Netherlands, [2]Centre for Human Drug Research, Leiden, Netherlands, [3]Merck KGaA, Darmstadt, Germany, [4]EMD Serono, Boston, MA, United States, [5]Occams, Amsterdam, Netherlands

2:35 p.m. 857

A 2-PART STUDY TO EVALUATE THE ASEXUAL BLOOD STAGE ANTIMALARIAL ACTIVITY, AND THE TRANSMISSION BLOCKING ACTIVITY, OF A SINGLE ORAL DOSE OF TAFENOQUINE IN HEALTHY SUBJECTS EXPERIMENTALLY INFECTED WITH *PLASMODIUM FALCIPARUM*

Bridget E. Barber[1], Rebecca Webster[2], Louise Marquart[2], Azrin Rahman[2], Fiona Amante[2], Hayley Mitchell[2], Jeremy Gower[2], Jenny Peters[2], Juanita Heunis[2], Helen Jennings[2], Lynch Sean[2], Pava Zuliema[2], David Wesche[3], Dennis Shanks[4], Scott Miller[5], James S. McCarthy[6]
[1]QIMR Berghofer Medical Research Institute, ASHGROVE, Australia, [2]QIMR Berghofer Medical Research Institute, Herston, Australia, [3]Certara, Princeton, NJ, United States, [4]Australian Defence Force Malaria and Infectious Disease Institute, Enoggera, Australia, [5]Bill & Melinda Gates Foundation, Seattle, WA, United States, [6]University of Melbourne, Parkville, Australia

2:45 p.m. 858

ROSIGLITAZONE ADJUNCTIVE THERAPY FOR CHILDREN WITH SEVERE MALARIA

Rosauro Varo[1], Valerie Crowley[2], Antonio Sitoe[3], Marta Valente[1], Sara Ajanovic[1], Nuria Balanza[1], Clara Erice[2], Justina Bramugy[3], Andrea Weckman[2], Alfredo Mayor[1], Kevin Kain[2], Bassat Quique[1]
[1]Barcelona Institute for Global Health, Barcelona, Spain, [2]S. A. Rotman Laboratories, Sandra Rotman Centre for Global Health, University Health Network-Toronto General Hospital, Toronto, ON, Canada, [3]Centro de Investigação em Saúde de Manhiça, Manhiça, Mozambique

Scientific Session 66

Water, Sanitation, Hygiene and Environmental Health: Outcomes

Meeting Room 7
Friday, November 19
1:45 p.m. - 3:30 p.m. U.S. Eastern Time Zone

CHAIR

Derek Cocker
LSTM, Liverpool, United Kingdom

Christine Marie George
Johns Hopkins School of Public Health, Baltimore, MD, United States

1:45 p.m. 859

EXPLORING COVID-19 DISEASE BURDEN THROUGH SEWAGE AND DRAINAGE SYSTEM OF DHAKA CITY, BANGLADESH

Md Ziaur Rahman[1], Nuhu Amin[1], Rehnuma Haque[1], Golam Bashir Ahmed[1], Mohammed Ziaur Rahman[1], Zahid Hayat Mahmud[1], Rezaul Hasan[1], Nargis Akter[2], Dara Johnston[2], Md Alamgir Hossain[3], MD Tahmidul Islam[4], Christine L. Moe[5], Mahbubur Rahman[1], Prosun Bhattacharya[4]
[1]International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, [2]Water, Sanitation & Hygiene (WASH) section, UNICEF, Dhaka, Bangladesh, [3]Dhaka Water Supply & Sewerage Authority (DWASA), Dhaka, Bangladesh, [4]KTH Royal Institute of Technology, Stockholm, Sweden, [5]Rollins School of Public Health, Emory University, Atlanta, GA, United States

1:55 p.m. 860

PREVALENCE OF CIRCULATING SARS-COV-2 IN WASTEWATER FROM NICARAGUA

Evelin Martínez[1], Omar Zepeda[1], Nancy Corea[1], Edwing Centeno[1], Yaoska Reyes[1], Sylvia Becker-Dreps[2], Johan Nordgren[3], Filemón Bucardo[1]
[1]National Autonomous University of Nicaragua, León, Nicaragua, [2]University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [3]Linköping University, Linköping, Sweden

2:05 p.m. 861

SPATIAL AND TEMPORAL PATTERNS OF SAPOVIRUS GASTROENTERITIS IN CHILDREN UNDER THREE YEARS OF AGE IN LEÓN, NICARAGUA (SAGE)

Christian Eduardo Toval-Ruiz[1], Katerina Brandt[2], Yaoska Reyes[1], Lester Gutierrez[1], Patricia Blandón[1], Edwing Centeno[1], Fredman González[1], Samuel Vílchez[1], Nadja Vielot[2], Sylvia Becker-Dreps[2], Filemón Bucardo[1], Michael Emch[2]
[1]National Autonomous University of Nicaragua - León, León, Nicaragua, [2]University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

2:15 p.m. 862

HIGH LEVELS OF EXTENDED SPECTRUM BETA-LACTAMASE (ESBL) CONTAMINATION ARE FOUND IN MALAWIAN HOUSEHOLDS WITH BASIC WATER, SANITATION AND HYGIENE (WASH) ACCESS

Derek Cocker[1], Kondwani Chidziwisano[2], Nicola Elviss[3], Andrew C. Singer[4], Tracy Morse[5], Nicholas Feasey[6]
[1]Malawi-Liverpool Wellcome Trust Center, Blantyre, Malawi, [2]Centre for Water, Sanitation, Health and Appropriate Technology Development (WASHTED), University of Malawi – The Polytechnic, Blantyre, Malawi, [3]National Infection Service, Public Health England, London, United Kingdom, [4]NERC Centre for Ecology & Hydrology, Wallingford, United Kingdom, [5]Department of Civil and Environmental Engineering, University of Strathclyde, Glasgow, United Kingdom, [6]Liverpool School of Tropical Medicine (LSTM), Liverpool, United Kingdom

2:25 p.m. 863

CHILD MOUTHING OF SOIL AND CONTAMINATED FOMITES AND UNIMPROVED SANITATION ARE ASSOCIATED WITH SUBSEQUENT POOR CHILD DEVELOPMENTAL OUTCOMES IN URBAN BANGLADESH (CHOBI7 PROGRAM)

Christine Marie George[1], Tahmina Parvin[2], Md. Sazzadul Islam Bhuyian[2], Elizabeth D. Thomas[1], Shirajum Monira[2], Fatema Zohura[2], M. Tasdik Hasan[2], Jamie Perin[1], Munirul Alam[2], Fahmida Tofail[2]
[1]Johns Hopkins School of Public Health, Baltimore, MD, United States, [2]International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

2:35 p.m. 864

EXPLORING POOR WATER, SANITATION, AND HYGIENE AS FACTORS RELATED TO LEPROSY TRANSMISSION IN MINAS GERAIS, BRAZIL

Tolulope R. Ojo-Akosile[1], Lorena B. de Oliveira[2], Rosemary S. e Lima[3], José A. Ferreira[4], Julie A. Clennon[5], Alexandre C. Branco[6], Erica B. Magueta[2], Maria Aparecida de Faria Grossi[4], Lucia A. Fraga[2], Jessica K. Fairley[7]
[1]Emory University, Rollins School of Public Health, Atlanta, GA, United States, [2]Universidade Federal de Juiz de Fora - Campus GV, Governador Valadares, Brazil, [3]Universidade Vale do Rio Doce, Governador Valadares, Brazil, [4]Faculdade da Saúde e Ecologia Humana, Vespasiano, Brazil, [5]Emory College of Arts and Sciences, Department of Environmental Sciences, Atlanta, GA, United States, [6]Centro de Referencia em Doenças Endêmicas e Programas Especiais, Governador Valadares, Brazil, [7]Emory University School of Medicine, Atlanta, GA, United States

2:45 p.m. 865

THE STATUS AND IMPACT OF WATER, SANITATION AND HYGIENE RESOURCES ON SOIL TRANSMITTED HELMINTHS IN OGUN STATE, NIGERIA: AN IMPETUS FOR DEVELOPING A CROSS-SECTORAL FRAMEWORK

Hammed O. Mogaji[1], Gabriel A. Dedeke[1], Babatunde S. Bada[1], Abass B. Adigun[2], Monday E. Johnson[3], Dorcas O. Adeaga[4], Uwem F. Ekpo[1]
[1]Federal University of Agriculture, Abeokuta, Nigeria, [2]National Center for Remote Sensing, Jos, Nigeria, [3]United Nations Children's Fund, Abuja, Nigeria, [4]Rural Water Supply and Sanitation Agency, Abeokuta, Nigeria

Scientific Session 67

Ectoparasite-Borne Disease

Meeting Room 8
Friday, November 19
1:45 p.m. - 3:30 p.m. U.S. Eastern Time Zone

CHAIR

Jeffrey M. Grabowski
Rocky Mountain Laboratories/NIAID/NIH, Hamilton, MT, United States

Saravanan Thangamani
SUNY Upstate Medical University, Syracuse, NY, United States

1:45 p.m. 866

VECTOR COMPETENCE OF THE INVASIVE ASIAN LONGHORNED TICK, HAEMAPHYSALIS LONGICORNIS, FOR HEARTLAND VIRUS UNDER LABORATORY CONDITIONS

Meghan E. Hermance, Wilson R. Raney, Josiah B. Perry
University of South Alabama, Mobile, AL, United States

1:55 p.m. 867

A TRANSCRIPT CORRESPONDING TO A PREDICTED SECRETED PROTEIN AFFECTS FLAVIVIRUS INFECTION OF IXODES SCAPULARIS SALIVARY GLAND CULTURES

Jeffrey M. Grabowski, Rebecca Rosenke, Daniel R. Long, Dana P. Scott, Marshall E. Bloom
Rocky Mountain Laboratories/NIAID/NIH, Hamilton, MT, United States

2:05 p.m. 868

SHREW RESERVOIR HOST FOR DEER TICK VIRUS

Heidi Goethert[1], Thomas Mather[2], Richard Johnson[3], Sam Telford[1]
[1]Tufts University School of Veterinary Medicine, N. Grafton, MA, United States, [2]University of Rhode Island, Kingston, RI, United States, [3]Martha's Vineyard Tick Borne Illness Reduction Initiative, Martha's Vineyard, MA, United States

2:15 p.m. 869

POPULATION-WIDE FALL IN SERIOUS BACTERIAL COMPLICATIONS FOLLOWING IVERMECTIN-BASED MASS DRUG ADMINISTRATION FOR SCABIES

Li Jun Thean[1], Lucia Romani[2], Daniel Engelman[1], Handan Wand[3], Adam Jenney[4], Jyotishna Mani[1], Jessica Paka[1], Tuliana Cua[1], Sera Taole[1], Aalisha Sahukhan[5], Mike Kama[5], Meciusela Tuicakau[5], Joseph Kado[5], Matthew Parnaby[1], Natalie Carvalho[6], Margot Whitfeld[7], John Kaldor[3], Andrew Steer[1]
[1]Murdoch Children's Research Institute, Melbourne, Australia, [2]Kirby Insitute, University of New South Wales, Sydney, Australia, [3]Kirby Institute, University of New South Wales, Sydney, Australia, [4]Fiji National University, Suva, Fiji, [5]Fiji Ministry of Health and Medical Services, Suva, Fiji, [6]School of Population and Global Health, University of Melbourne, Melbourne, Australia, [7]Department of Dermatology, St. Vincent's Hospital, Sydney, Australia

2:25 p.m. 870

GENERATION OF TRANSFECTED BABESIA BOVIS EXPRESSING AN ANTI-TICK TOXIN TO CONTROL TICKS

Hala Elsayed, Wendell Johnson, Carlos Suarez, Massaro Ueti
Washington State University, Pullman, WA, United States

(ACMCIP Abstract)

2:35 p.m. 871

ISOLATION OF HEARTLAND VIRUS (HRTV) IN FIELD-COLLECTED TICKS, GEORGIA

Yamila Romer[1], Kayla Adcock[2], Zhuoran Wei[1], Daniel Mead[3], Oscar Kirstein[1], Steph Bellman[1], Anne Piantadosi[1], Uriel Kitron[1], Gonzalo Vazquez Prokopec[1]
[1]Emory University, Atlanta, GA, United States, [2]University of Georgia, Athens, GA, United States, [3]Georgia University, Athens, GA, United States

2:45 p.m. 872

OUTDOOR ACTIVITIES IN THE TIME OF COVID-19 AND ITS IMPLICATIONS FOR EXPOSURE TO TICK-BORNE DISEASES IN THE UNITED STATES

Maria Pilar Fernandez[1], Gebbiena Bron[2], Pallavi Kache[3], Jean Tsao[4], Lyric Bartholomay[2], Mary Hayden[5], Kacey Ernst[6], Kevin Berry[7], Maria Diuk-Wasser[3]
[1]Washington State University, Pullman, WA, United States, [2]University of Wisconsin-Madison, Madison, WI, United States, [3]Columbia University, New York, NY, United States, [4]Michigan State University, East Lansing, MI, United States, [5]University of Colorado - Colorado Springs, Colorado Springs, CO, United States, [6]University of Arizona, Tucson, AZ, United States, [7]University of Alaska Anchorage, Anchorage, AK, United States

Symposium 68

New Developments in Mycetoma

Meeting Room 9
Friday, November 19
1:45 p.m. - 3:30 p.m. U.S. Eastern Time Zone

Mycetoma is one of the most Neglected Tropical Diseases (NTDs) and occurs world-wide in the so-called mycetoma belt between 15 0N and 30 0S. There is an important focus of eumycetoma (caused by fungi) in Africa (Sudan) and of actinomycetoma (caused by bacteria) in Middle America (Mexico). In other areas a more balanced geographical distribution exists. Mycetoma is caused by an infection of the subcutaneous tissues usually of the foot after a thorn prick or minor cut through which the microbe enters. The condition is characterized by a clinical triad: subcutaneous swelling, sinus formation and production of grains. The disease affects poor people who live in remote areas without access to health care. There is no effective drug treatment in eumycetoma; cure with itraconazole (usually the only available drug) is often < 40% and recurrence rate is high. Because of the protracted course of repeated drug treatment and failures often multiple sequential amputations are needed. Many patients experience stigma, suffer from depression, and become socially isolated. Treatment of eumycetoma is problematic; only the azoles group of drugs seem effective ***in vitro***. Melanin was shown to interfere with drug sensitivity in azoles; recently, an approach to inhibition melanin synthesis has been developed as an approach to new treatment. In recent years new antifungals have become available from studies in invasive fungal infections that represent new classes of drugs with potential in mycetoma treatment. This provides an opportunity to review current drug treatment with options for drug combinations, shortening the duration of treatment and prevent recurrences. The WHO has launched the NTD Roadmap in which the Skin NTDs feature. Mycetoma is one of the deep mycoses; and chromoblastomycosis and sporotrichosis are similar implantation mycoses. These conditions share common research priorities in diagnosis and in finding more effective and safe treatment, and in control. The advantages of an integrated approach are discussed in this symposium. Access to treatment in remote endemic areas is challenging. The practicalities of treatment delivery (with focus on actinomycetoma) are discussed in the context of an outreach program by dermatologists in a remote endemic area in Mexico. In summary, recent developments in mycetoma are discussed from a basic science, clinical science, control and access perspective, which will give a broad update on cross-cutting issues in this neglected condition. The symposium will increase the visibility of mycetoma as a seriously neglected disease. It will be of interest to basic scientists, clinicians, microbiologists, and public/global health experts.

CHAIR

Eduard E. Zijlstra
Drugs for Neglected Diseases Initiative, Geneva, Switzerland

Kingsley B. Asiedu
World Health Organization, Geneva, Switzerland

1:45 p.m.
INTRODUCTION

1:55 p.m.
INHIBITING MELANIN SYNTHESIS IN MYCETOMA: A NEW TREATMENT FOR MYCETOMA?
Wendy W. van de Sande
Erasmus MC, Rotterdam, Netherlands

2:20 p.m.
EXPLORING THE LANDSCAPE FOR NEW TREATMENT IN MYCETOMA
Eduard E. Zijlstra
Drugs for Neglected Diseases Initiative, Geneva, Switzerland

2:45 p.m.
OVERVIEW OF MYCETOMA AVAILABLE TREATMENTS IN ENDEMIC AREAS
Maria de Guadalupe Chávez-López
Department of Dermatology and Mycology, Acapulco General Hospital, Health Secretary Guerrero, Community Dermatology, Acapulco, Mexico

3:10 p.m.
FUNGAL NTDS - OPPORTUNITIES FOR INTEGRATION
Roderick J. Hay
Kings College London, London, United Kingdom

Scientific Session 69

Filariasis – Molecular Biology and Diagnostics

Meeting Room 10
Friday, November 19
1:45 p.m. - 3:30 p.m. U.S. Eastern Time Zone

CHAIR

Peter Fischer
Washington University School of Medicine, St. Louis, MO, United States

Gary Weil
Washington University School of Medicine, St. Louis, MO, United States

1:45 p.m. **873**

LOIASIS-MEDIATED FILARIASIS TEST STRIP POSITIVITY IS STABLE OVER ONE YEAR
Marla I. Hertz[1], Linda Djune-Yemeli[2], Hugues C. Nana-Djeunga[2], Jean Bopda[2], Joseph Kamgno[2], Philip J. Budge[1]
[1]Washington University in St Louis, St Louis, MO, United States, [2]Centre for Research on Filariasis and Other Tropical Diseases (CRFilMT), Yaoundé, Cameroon
(ACMCIP Abstract)

1:55 p.m. 874

OPTIMIZED QPCR STRATEGY FOR THE MOLECULAR DETECTION OF ONCHOCERCA VOLVULUS IN BLACKFLIES

Jessica R. Grant[1], Sasisekhar Bennuru[2], Kerstin Fischer[3], Peter U. Fischer[3], Sara Lustigman[4], Thomas B. Nutman[2], Nils Pilotte[1], Thomas R. Unnasch[5], Steven A. Williams[1]
[1]Smith College, Northampton, MA, United States, [2]National Institutes of Health, Bethesda, MD, United States, [3]Washington University School of Medicine, St. Louis, MO, United States, [4]New York Blood Centre,, New York, NY, United States, [5]University of South Florida, Tampa, FL, United States

2:05 p.m. 875

LYMPHATIC FILARIASIS ELIMINATION IN SAMOA: EVALUATING THE USE OF MOLECULAR XENOMONITORING AS A SURVEILLANCE TOOL

Brady McPherson[1], Helen Mayfield[2], Angus McLure[3], Take Naseri[4], Robert Thomsen[4], Tautala Mauala[5], Shaun Coutts[3], Stephen Harfield[3], Jessica Chellappah[1], Donna MacKenzie[1], Christina Hoare[1], Joanne Kizu[1], Jessica Guidotti[2], Nils Pilotte[6], Andrew Gonzales[6], Steven Williams[6], Katherine Gass[7], Patricia Graves[8], Colleen Lau[2]
[1]Australian Defence Force Malaria and Infectious Disease Institute, Brisbane, Australia, [2]University of Queensland, Brisbane, Australia, [3]Australian National University, Canberra, Australia, [4]Samoa Ministry of Health, Apia, Samoa, [5]Samoa Red Cross, Apia, Samoa, [6]Smith College, Northampton, MA, United States, [7]Task Force for Global Health, Atlanta, GA, United States, [8]James Cook University, Cairns, Australia

2:15 p.m. 876

ESTABLISHMENT AND VALIDATION OF A REAL-TIME PCR FOR ABSOLUTE QUANTIFICATION OF WOLBACHIA ENDOSYMBIONTS OF ONCHOCERCA VOLVULUS IN SAMPLES WITH VERY FEW TO A SINGLE MICROFILARIA

Stefan Schlabe[1], Christine Laemmer[2], Bettina Dubben[2], Marianne Koschel[2], Patricia J. Korir[2], Marc P. Huebner[2], Kenneth Pfarr[2], Ute Klarmann-Schulz[2], Achim Hoerauf[2]
[1]University Hospital Bonn, Department of Internal Medicine I, Bonn, Germany, [2]University Hospital Bonn, Institute for Medical Microbiology, Immunology and Parasitology, Bonn, Germany

2:25 p.m. 877

HIGH-THROUGHPUT MOLECULAR XENOMONITORING USING AN AMPLICON SEQUENCING-BASED APPROACH TO PATHOGEN DISCOVERY

Nils Pilotte[1], Samantha Schultz[2], Steven A. Williams[1]
[1]Smith College, Northampton, MA, United States, [2]University of Massachusetts, Amherst, MA, United States

2:35 p.m. 878

MOLECULAR DIAGNOSTICS FOR MONITORING HUMAN LYMPHATIC FILARIASIS (LF) USING CIRCULATING CELL-FREE NUCLEIC ACIDS IN BODY FLUIDS

Marisa Martinez Salazar, Thomas B. Nutman, Sasisekhar Bennuru
Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

2:45 p.m. 879

MOLECULAR EPIDEMIOLOGY OF FILARIAL NEMATODES ON BIOKO ISLAND USING NUCLEIC ACIDS EXTRACTED FROM MALARIA RDTS

Charlene Aya Yoboue[1], Salome Hosch[1], Olivier Tresor[2], Etienne Guirou[1], Bonifacio M. Nlavo[3], Mitoha Ondo'o Ayekaba[4], Carlos A. Guerra[2], Wonder P. Phiri[2], Guillermo A. Garcia[2], Tobias Schindler[1], Claudia Daubenberger[1]
[1]Swiss Tropical and Public Health Institute, Basel, Switzerland, [2]Medical Care Development International, Malabo, Equatorial Guinea, [3]Marathon EG Production Ltd, Malabo, Equatorial Guinea, [4]Ministry of Health and Social Welfare, Malabo, Equatorial Guinea

Symposium 70

Pivoting in a Pandemic: Conducting Surveillance and Clinical Research on Febrile Illnesses during COVID-19

Meeting Room 11
Friday, November 19
1:45 p.m. - 3:30 p.m. U.S. Eastern Time Zone

The COVID-19 pandemic continues to disrupt important global public health efforts, including disease surveillance studies and clinical trials. Such research contributes to the evidence-base that helps guide policymaking, program intervention design, and clinical care. Significant disruptions to these efforts could have lasting effects on public health progress. Fever is one of the hallmark symptoms of SARS-CoV-2 and it is often used as a proxy measure for possible infection. Temperature checks have become a routine part of accessing community buildings and services, including hospitals. There is a growing body of research examining COVID-19-related stigma experienced by healthcare workers (Wahed et al., 2020; Taylor et al., 2020; Menon et al., 2020; Singh et al., 2020) and the impact of fear and social stigma on decreased health care-seeking behavior for a variety of conditions (Muldoon et al., 2021; Asadi-Aliabadi et al., 2020; Ahmed et al., 2020). Research from Pakistan has found that forced isolation or quarantine of SARS-CoV-2 exposed or positive patients has exacerbated fears of disclosing fever history and being tested for SARS-CoV-2 (Imran, et al. 2020). From the information that has been gathered so far, there have not yet been published studies specifically examining how stigma related to COVID-19, and particularly fears of disclosing fever and visiting health care facilities, is affecting ongoing surveillance and research efforts on diseases that have fever as a main symptom. This symposium will include presentations from researchers who study a variety of febrile illnesses and work across the globe, sharing insights and lessons learned on how they and their study teams are adjusting research implementation during the COVID-19 pandemic. The program will address the impact of the pandemic on disease surveillance systems and vaccine clinical trials, including how to sustain facility-based research when patients are afraid to interact with the healthcare system and how to maintain surveillance systems for non-COVID febrile illnesses of public health importance. The speakers will present on the stigma of fever associated with COVID-19 in Dhaka, Bangladesh, surveillance for enteric fever in

South Asia, arbovirus surveillance in Brazil, malaria surveillance in Guinea, and an Ebola clinical trial in Uganda. Despite the COVID-19 pandemic, it is critical to take care not to lose progress on other disease threats. The pandemic brings to light the demands public health emergencies can place on health systems—from the sheer number of workers diverted to outbreak response, to skills, training and motivation needed to continue research in these circumstances. Strong health systems require maintaining disease surveillance to preserve the progress made toward the management of febrile illness.

CHAIR

Denise Garrett
Sabin Vaccine Institute, Washington, DC, United States

Expedito Luna
Universidade de São Paulo, São Paulo, Brazil

1:45 p.m.
INTRODUCTION

1:55 p.m.
STIGMA DUE TO COVID-19: CASE STUDIES FROM BANGLADESH

Rebeca Sultana
icddr,b, Dhaka, Bangladesh

2:10 p.m.
THE IMPACT OF COVID-19 LOCKDOWNS ON THE INCIDENCE OF ENTERIC FEVER IN THE SURVEILLANCE FOR ENTERIC FEVER IN ASIA PROJECT

Kristen Aiemjoy
Stanford University, San Francisco, CA, United States

2:25 p.m.
ARBOVIRUS SURVEILLANCE DURING COVID-19 PANDEMICS: LESSONS FROM BRAZIL

Mauricio Nogueira
Faculdade de Medicina de São José do Rio Preto - SP Brazil, São José do Rio Preto, Brazil

2:40 p.m.
PARTICIPANT SAFETY AND CLINICAL TRIAL INTEGRITY – A TOUGH CALL IN THE WAKE OF THE COVID-19 PANDEMIC

Betty Mwesigwa
Makerere University Walter Reed Project, Kampala, Uganda

2:55 p.m.
IMPACT OF COVID-19 ON MALARIA CARE DELIVERY ASSESSED USING ROUTINE DATA

Alioune Camara
Guinea

Break

Friday, November 19
3:30 p.m. – 4 p.m. U.S. Eastern Time Zone

TropStop - Career Chats IV

PIVOTING TO PUBLIC HEALTH: TRANSITIONING FROM BASIC RESEARCH TO A GLOBAL PUBLIC HEALTH PATH

Career Chats Room
Friday, November 19
4 p.m. - 5 p.m. U.S. Eastern Time Zone

Limited to attendees pre-registered for this session.

Attend the Career Chats sessions to meet professionals in the tropical medicine field who will share their career stories and strategies to help you along your professional path, as well as discuss topical subjects in the field of global health.

The pandemic has highlighted the critical role of public health in our global welfare. Many of our members are trained in the biological, clinical or natural sciences but are compelled by the broader public health impact of their work. Transitioning this into a career path is not always clear. This session will explore the paths of global public health professionals who began their careers in basic research: why they decided to transition, what steps they took to change course, and what advice they have for junior trainees thinking about navigating a similar path.

CHAIR

Hanna Ehrlich
Yale University, New Haven, CT, United States

Bronwyn MacInnis
Broad Institute, Cambridge, MA, United States

SPEAKERS

Katharine Sturm-Ramirez
CDC Resident Advisor for the US President's Malaria Initiative, Senegal

Sabine Dittrich
Foundation for Innovative New Diagnostics (FIND), Geneva, Switzerland

Maria Julia Marinissen
U.S. Department of Health and Human Services (HHS), Mexico City, Mexico

Scientific Session 71

Malaria: Challenges in Malaria Diagnosis

Meeting Room 1
Friday, November 19
4 p.m. - 5:45 p.m. U.S. Eastern Time Zone

CHAIR

Tuan M. Tran
Indiana University, Indianapolis, IN, United States

Claudia Vera-Arias
Eck Institute for Global Health, University of Notre Dame, Notre Dame, IN, United States

4 p.m.

880

USE OF A NOVEL *PLASMODIUM VIVAX* CHIMERIC PROTEIN FOR MALARIA SEROSURVEILLANCE IN MULTI-SPECIES ENDEMIC COUNTRIES NEARING ELIMINATION

Jessica N. McCaffery[1], Balwan Singh[2], Douglas Nace[2], Ashenafi Assefa[3], Jimee Hwang[2], Mateusz Plucinski[2], Nidia Calvo[4], Alberto Moreno[1], Venkatachalam Udhayakumar[2], Eric Rogier[2]

[1]Emory Vaccine Center, Yerkes National Primate Research Center, Emory University, Atlanta, GA, United States, [2]Malaria Branch, Division of Parasitic Diseases and Malaria, Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]Ethiopian Public Health Institute, Addis Ababa, Ethiopia, [4]Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud (INCIENSA), Tres Rios, Costa Rica

4:10 p.m.

881

FIELD ASSESSMENT OF QUANTITATIVE POINT-OF-CARE G6PD ACTIVITY ASSAY—KAMPONG SPEU, CAMBODIA, 2019-2020

Dean Sayre[1], Lek Dysoley[2], Sochea Phok[3], Jean Popovici[4], Michael C. Thigpen[5], Rida Slot[6], Keith Esch[7], Moustapha Hama[7], Benoit Witkowski[4], Lawrence Barat[7], Socheat Chi[3], Jimee Hwang[8]

[1]Epidemic Intelligence Service, Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]National Center for Malaria Control, Parasitology and Entomology, Phnom Penh, Cambodia, [3]PSI Cambodia, Phnom Penh, Cambodia, [4]Institut Pasteur du Cambodge, Phnom Penh, Cambodia, [5]U.S. President's Malaria Initiative, Centers for Disease Control and Prevention, Phnom Penh, Cambodia, [6]U.S. President's Malaria Initiative, United States Agency for International Development, Phnom Penh, Cambodia, [7]PMI Impact Malaria, Washington, DC, United States, [8]U.S. President's Malaria Initiative, Centers for Disease Control and Prevention, Atlanta, GA, United States

4:20 p.m.

882

IMPACT OF MALARIA RAPID DIAGNOSTIC TESTS SCALE-UP ON ANTIBIOTIC PRESCRIBING AND MORTALITY IN SUB-SAHARAN AFRICA

Han Zhang, Jessica Cohen

Harvard University, Boston, MA, United States

4:30 p.m.

883

PLASMODIUM FALCIPARUM HRP2|HRP3 DELETION TYPING BY NOVEL DIGITAL PCR METHOD: AN UPDATE ON THE STATUS AND DISTRIBUTION OF DELETIONS IN AFRICA AND SOUTH AMERICA

Claudia A. Vera-Arias[1], Colins Oduma[2], Aurel Holzschuh[1], Joshua Yukich[3], Manuel W. Hetzel[4], Bakar S. Fakih[5], Abdullah Ali[6], Marcelo Ferreira[7], Simone Ladeia-Andrade[8], Fabián E. Sáenz[9], Yaw Afrane[10], Kingsley Badu[11], Migbaru Keffale[12], Endalew Zemene[13], Delenasaw Yewhalaw[13], James Kazura[14], Guiyun Yan[15], Fitsum Tadesse[12], Cristian Koepfli[1]

[1]Eck Institute for Global Health, University of Notre Dame, Notre Dame, IN, United States, [2]Kenya Medical Research Institute, Center for Global Health Research, Kenya, [3]Tulane University, New Orleanns, LA, United States, [4]Swiss Tropical And Public Health Institute, Basel, Switzerland, [5]University of Basel, Basel, Switzerland, [6]Zanzibar Malaria Elimination Programe, Zanzibar, United Republic of Tanzania, [7]University of Sao Paulo, Sao Paulo, Brazil, [8]Laboratory of Parasitic Diseases, Rio de Janeiro, Brazil, [9]Centro de Investigación para la Salud en América Latína, Nayón, Ecuador, [10]Dept of Medical Microbiology, University of Ghana Medical School, Accra, Ghana, [11]Kwame Nkrumah University if Science and Technology, Ashanti, Ghana, [12]Armauer Hansen Research Institute, Addis Ababa, Ethiopia, [13]Jimma University, Jimma, Ethiopia, [14]Case Western Reserve University, Cleveland, OH, United States, [15]University of California Irvine, Irvine, CA, United States

(ACMCIP Abstract)

4:40 p.m

884

THE NEAR-INFRARED SPECTROSCOPY TECHNIQUE CAN NON-INVASIVELY DETECT MALARIA PARASITES THROUGH THE SKIN OF MICE

Maggy Sikulu-Lord[1], Anton Richard Lord[2], Brendon Goh[1], Jye Travis[1], Geoffrey W. Birrell[3], Marina Chavchich[3], Ivor E. Harris[3], Stephen Mcleod-Robertson[3], Anthony Kent[3], Karin Vanbreda[3], Michael D. Edstein[3]

[1]The University of Queensland, Brisbane, Australia, [2]Spectroscopy and Data Analysts, Brisbane, Australia, [3]Australian Defence Force Malaria and Infectious Disease Instititute, Brisbane, Australia

4:50 p.m.

885

POTENTIAL APPLICATION OF THE HEMATOLOGY ANALYZER XN-31 PROTOTYPE IN A FIELD MALARIA SURVEILLANCE

Wataru Kagaya[1], Ikki Takehara[2], Kyoko Kurihara[2], Gordon Okomo[3], James Kongere[1], Jesse Gitaka[4], Akira Kaneko[1]

[1]Osaka City University, Osaka, Japan, [2]Sysmex corporation, Kobe, Japan, [3]Homa Bay County Government, Homa Bay, Kenya, [4]Mount Kenya University, Thika, Kenya

5 p.m.

886

IDENTIFYING FUTURE *PLASMODIUM VIVAX* RELAPSES WITH SEROLOGICAL MARKERS OF EXPOSURE IN A RETURNING INDONESIAN SOLDIER COHORT

Rintis Noviyanti[1], **Retno A. Utami**[1], Narimane Nekkab[2], Lenny L. Ekawati[3], Leily Trianty[1], Nadia Fadila[1], Ristya Amalia[1], Agatha M. Puspitasari[1], Decy Subekti[3], Saraswati Soebianto[3], Waras Budiman[4], Ramin Mazhari[5], Rhea Longley[5], Michael White[2], J. Kevin Baird[3], Ivo Mueller[5]

[1]Eijkman Institute for Molecular Biology, Jakarta, Indonesia, [2]Institute Pasteur, Paris, France, [3]Eijkman-Oxford Clinical Research Unit, Jakarta, Indonesia, [4]Health Service, Army of the Republic of Indonesia, Jakarta, Indonesia, [5]Walter + Eliza Hall Institute, Melbourne, Australia

(ACMCIP Abstract)

Scientific Session 72

Zika Virus

Meeting Room 2

Friday, November 19

4 p.m. - 5:45 p.m. U.S. Eastern Time Zone

CHAIR

Bradley Blitvich

Iowa State University, Ames, IA, United States

Megan B. Vogt

Virginia Polytechnic Institute and State University, Blacksburg, VA, United States

4 p.m.

887

PURIFIED INACTIVATED ZIKA VIRUS VACCINATION IN VOLUNTEERS PREVIOUSLY IMMUNIZED WITH JAPANESE ENCEPHALITIS VACCINE OR YELLOW FEVER VACCINE IN A DOUBLE-BLIND, RANDOMIZED, PLACEBO CONTROLLED CLINICAL TRIAL

Michael A. Koren[1], Leyi Lin[1], Kenneth H. Eckels[1], Rafael De La Barrera[1], Shelly J. Krebs[1], Gregory D. Gromowski[1], Stephen J. Thomas[2], Erica Sondergaard[1], Merlin L. Robb[3], Christine E. Lee[1], Justin M. Curley[1], Nathaniel K. Copeland[1], Jack N. Hutter[1], Melinda J. Hamer[1], Richard G. Jarman[1], Kayvon Modjarrad[1], Nelson L. Michael[1]

[1]Walter Reed Army Institute of Research, Silver Spring, MD, United States, [2]State University of New York Upstate, Syracuse, NY, United States, [3]Henry Jackson Foundation, Bethesda, MD, United States

4:10 p.m. 888

UNIQUE MICROBIAL SIGNATURES ASSOCIATED WITH ZIKA VIRUS INFECTION AND TEMPERATURE IN AE. ALBOPICTUS AND IDENTIFICATION OF ANTIVIRAL PROPERTIES OF ELIZABETHKINGIA

Maria G. Onyango[1], Rachel Lange[1], Sean Bialosuknia[1], Anne Payne[1], Nicholas Mathias[1], Aurelien Vigneron[2], Dilip Nag[1], Laura Kramer[1], Alexander Ciota[1]
[1]Wadsworth Centre, New York State Department of Health, Slingerlands, NY, United States, [2]Johannes Gutenberg University Mainz, Mainz, Germany

4:20 p.m. 889

CHIMERIC ZIKA VIRUSES CONTAINING STRUCTURAL PROTEIN GENES OF INSECT-SPECIFIC FLAVIVIRUSES CANNOT REPLICATE IN VERTEBRATE CELLS DUE TO ENTRY AND POST-TRANSLATIONAL RESTRICTIONS

Chandra Tangudu[1], Jermilia Charles[1], Daniel Nunez-Avellaneda[1], Alissa Hargett[1], Aaron Brault[2], **Bradley Blitvich**[1]
[1]Iowa State University, Ames, IA, United States, [2]Centers for Disease Control and Prevention, Fort Collins, CO, United States

4:30 p.m. 890

IMMUNE CORRELATES OF PROLONGED ZIKA VIRUS SHEDDING IN HUMAN SEMEN

Megan B. Vogt[1], Erin M. McDonald[2], Mark Delorey[2], Paul S. Mead[2], Sarah A. Hook[2], Alison F. Hinckley[2], Aaron C. Brault[2], Nisha K. Duggal[1]
[1]Virginia Polytechnic Institute and State University, Blacksburg, VA, United States, [2]Centers for Disease Control and Prevention National Center for Emerging and Zoonotic Infectious Diseases, Fort Collins, CO, United States

4:40 p.m. 891

MULTIPLE INTRODUCTIONS OF ZIKA VIRUS IN THE AMERICAS

Carla N. Mavian[1], Massimiliano S. Tagliamonte[1], Bernardo Garcia Carreras[1], Ana I. Bento[2], Taylor K. Paisie[1], Simone Marini[1], Derek A. Cummings[1], John A. Lednicky[1], J Glenn Morris Jr[1], Marco Salemi[1]
[1]University of Florida, Gainesville, FL, United States, [2]Indiana University, Bloomington, IN, United States

4:50 p.m. 892

A NOVEL INSECT-SPECIFIC FLAVIVIRUS OFFERS A PROMISING PLATFORM FOR FLAVIVIRUS VACCINES THAT EMPHASIZE HIGH DEGREES OF SAFETY WITHOUT SACRIFICING IMMUNOGENICITY

Danielle L. Porier[1], Sarah N. Wilson[1], Dawn I. Auguste[1], Andrew Leber[2], James D. Weger-Lucarelli[1], Scott C. Weaver[3], Albert J. Auguste[1]
[1]Virginia Tech, Blacksburg, VA, United States, [2]Landos Biopharma Inc., Blacksburg, VA, United States, [3]University of Texas Medical Branch, Galveston, TX, United States

5 p.m. 893

CORRELATION BETWEEN FLAVIVIRUS ANTIBODIES IN SERUM AND ZIKA RNA SHEDDING IN BLOOD, SALIVA, URINE, VAGINAL FLUID AND SEMEN OVER TIME

Edwing Daniel Centeno[1], Omar Zepeda[1], Yaoska Reyes[1], Natalie M. Bowman[2], Sylvia Becker-Dreps[3], Matthew H. Collins[4], Filemon Bucardo[1]
[1]Universidad Nacional Autonoma de Nicaragua, UNAN-Leon, León, Nicaragua, [2]Division of Infectious Diseases, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA, Chapel Hill, NC, United States, [3]Department of Family Medicine, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA, Chapel Hill, NC, United States, [4]Hope Clinic of the Emory Vaccine Center, Division of Infectious Diseases, Department of Medicine, School of Medicine, Emory University, Decatur, Georgia, USA, Decatur, GA, United States

Symposium 73

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) Symposium II: Trager and Trainee Awardees Symposium

Meeting Room 3
Friday, November 19
4 p.m. - 5:45 p.m. U.S. Eastern Time Zone

ACMCIP has bestowed the William Trager Award for Basic Parasitology since 2015. The award recognizes a fundamental breakthrough in molecular, cellular, or immunoparasitology. ACMCIP strives to both celebrate the Present excellence, as well as highlight the bright future of molecular, cellular, and immunoparasitology research. This symposium will highlight the scientific work of the Trager awardee, along with the work of trainee investigators in ACMCIP related research. The symposium will feature an ASTMH Young Investigator awardee who works in parasitology along with the winners of the ACMCIP Trainee 3-minute thesis competition. The coupling of both pivotal and emerging parasitology research will serve as both an educational and aspirational event for ACMCIP trainee members and the broader ASTMH membership

CHAIR

Lola Fagbami
University of Georgia, Athens, GA, United States

Mahalia S. Desruisseaux
Yale University School of Medicine, New Haven, CT, United States

4 p.m.
INTRODUCTION

4:10 p.m.
LOCKING OUT MALARIA: TARGETING RED BLOOD CELL DETERMINANTS OF PLASMODIUM INFECTION

Manoj Duraisingh
Harvard School of Public Health, Boston, MA, United States

4:55 p.m.
INTRODUCTION OF 3-MINUTE THESIS WINNERS

Lola Fagbami
University of Georgia, Athens, GA, United States

5:00 p.m.
DRAMATIC CONSEQUENCES OF DISRUPTING LIPID HOMEOSTASIS IN PLASMODIUM FALCIPARUM

Avantika Ahiya
Drexel University, Philadelphia, PA, United States

5:10 p.m.
GETTING IN SHAPE: A NEW PROTEIN COMPLEX REQUIRED FOR MALARIA BLOOD-STAGE PARASITE FORMATION

James Blauwkamp
Indiana University School of Medicine, Indianapolis, IN, United States

5:20
ACMCIP ANNUAL BUSINESS MEETING
Mahalia S. Desruisseaux
Yale University, New Haven, CT, United States

Symposium 74

COVID-19 Mathematical and Statistical Modeling

Meeting Room 4
Friday, November 19
4 p.m. - 5:45 p.m. U.S. Eastern Time Zone

This symposium will present recent work on the mathematical and statistical modeling of COVID-19 transmission in Ghana, Taiwan, the USA and four Latin American countries. The panel of speakers will present the following topics: First, recent work on the time-varying reproduction number of COVID-19 in Ghana and its subnational regions associated with the public health interventions implemented therein will be presented, and how these interventions have impacted on the transmission potential of COVID-19 in Ghana will be shown. Second, an overview of the current strategy of containment of the COVID-19 pandemic in Taiwan and relevant modeling work on transmission dynamics will be presented. Third, an overview of a series of mathematical modeling studies of COVID-19 related to the impact of non-pharmaceutical interventions and vaccination in the United States and how the impacts of each intervention vary by setting will be presented. Fourth, ongoing work on short-term forecasting of the COVID-19 pandemic in four Latin American countries including Chile, Peru, Mexico and Colombia using phenomenological growth models will be presented.

CHAIR
Isaac Chun-Hai Fung
Georgia Southern University, Statesboro, GA, United States

4 p.m.
INTRODUCTION

4:10 p.m.
PUBLIC HEALTH INTERVENTIONS AND TIME-VARYING REPRODUCTION NUMBER OF COVID-19 IN GHANA
Sylvia K. Ofori
Georgia Southern University, Statesboro, GA, United States

4:35 p.m.
ASSESSING THE TRANSMISSION DYNAMICS OF SARS-COV-2 UNDER INTENSIFIED CONTACT TRACING: EXPERIENCE FROM TAIWAN
Andrei Akhmetzhanov
National Taiwan University, Taipei, Taiwan

5 p.m.
THE ROLE OF NON-PHARMACEUTICAL INTERVENTIONS AND VACCINATION IN COVID-19 CONTROL
Alicia N. Kraay
Emory University, Atlanta, GA, United States

5:25 p.m.
FORECASTING THE COVID-19 PANDEMIC IN FOUR LATIN AMERICAN COUNTRIES
Amna Tariq
Georgia State University, Atlanta, GA, United States

Symposium 75

ASTMH Committee on Global Health (ACGH) Symposium II: Global Health Diplomacy II: Looking at a Multifaceted, Applied Approach to Global Health Diplomacy in a Globalizing World

Meeting Room 5
Friday, November 19
4 p.m. - 5:45 p.m. U.S. Eastern Time Zone

The field of global health diplomacy is currently experiencing an expansion. Global health diplomacy extends beyond the roles of the traditional diplomat, to include a highly specialized technical component. This symposium focuses on global health diplomacy and its growing importance in light of transnational health security concerns, including pandemic preparedness. Such concerns may also include universal health coverage (UHC), which have prompted international collaborations between low, middle, and high-income countries to leverage capacity building to address public health issues through research, technical assistance, and information sharing. Addressing these pressing international concerns requires the concerted efforts of multilateral agencies, governments, non-governmental organizations (NGOs), and universities/research institutions, which are all serving as essential links in bridging domestic and international health issues. Consequently, in this symposium participants will hear from leading experts representing various types of organizations. Speakers will have a focus on hands-on approaches and applied experiences from their work in the field. The symposium will also take note of crucial current events such as the ongoing COVID-19 pandemic and the calls for decolonizing public health/tropical medicine. The symposium will consider the importance for synergistic policy responses to reduce global health threats and improve the sustainable governance of local health systems. Participants will also be able to try their hand at practicing global health diplomacy through hands-on activities.

CHAIR
Fabu A. Moses
Pan American Health Organization, Georgetown, Guyana
Coralei Neighbors
Duke Global Health Institute, Durham, NC, United States

4 p.m.
INTRODUCTION

4:10 p.m.
THE INTERSECTION OF DIPLOMACY AND GLOBAL HEALTH RESPONSES: AIDS, EBOLA, ZIKA, AND COVID-19: NEW PARADIGMS IN GLOBAL HEALTH
Jimmy J. Kolker
U. S. Department of Health and Human Services, Washington, DC, United States

4:30 p.m.
PRIORITIZING MALARIA ELIMINATION WITHIN GLOBAL HEALTH DIPLOMACY IN THE CONTEXT OF COVID-19
Joshua P. Levens
Geneva, Switzerland

4:50 p.m.
PREVENTING THE NEXT PANDEMIC: THE POWER OF A GLOBAL VIRAL SURVEILLANCE NETWORK
Dennis Carroll
University Research Co., LLC, Chevy Chase, MD, United States

Symposium 76

Will RTS,S/AS01 Be the First Malaria Vaccine Recommended as Part of Routine Immunization to Reduce Illness and Death in African Children?

Meeting Room 6
Friday, November 19
4 p.m. - 5:45 p.m. U.S. Eastern Time Zone

The Malaria Vaccine Implementation Programme (MVIP), coordinated by WHO, supports the pilot implementation of the RTS,S/AS01 malaria vaccine in Kenya, Ghana, and Malawi. RTS,S/AS01, the first malaria vaccine recommended for pilot introduction, has the potential to substantially reduce malaria in areas of moderate to high malaria transmission. Mathematical models estimated that, depending on the setting, one death could be averted for every 200 children vaccinated. Following a positive scientific opinion under Article 58 by the European Medicine's Agency, WHO recommended pilot implementation to answer key questions about the programmatic use of the vaccine, specifically, feasibility of delivering the recommended 4-dose schedule, safety and impact in routine use. The RTS,S/AS01 vaccine was launched by the Ministries of Health of Malawi and Ghana in April 2019, and by Kenya in September 2019. The vaccine is delivered sub-nationally in selected areas through the routine childhood vaccination program of each of the three countries. After 18 months, more than 1.5 million doses have been administered and 560,000 children vaccinated. In late 2021, 24 months after vaccine launch, data from sentinel hospital and community mortality surveillance systems will be reviewed to inform a potential WHO recommendation for broader use across sub-Saharan Africa. This will be the first presentation of results from the Malaria Vaccine Pilot Evaluation (MVPE) following data review by expert advisory groups to WHO (the Scientific Advisory Group of Experts on Immunizations and Malaria Policy Advisory Group). Findings from the MVPE will be presented, as will the outcome of the expert review. Programmatic challenges in introducing the vaccine will be shared, as will development and supply considerations for a vaccine exclusively intended for use in low and middle income countries. Finally, results from updated mathematical models on impact and cost-effectiveness will be presented. This is expected to be a lively discussion of the role of the world's first malaria vaccine in public health and child survival initiatives.

CHAIR
Margaret Gyapong
Centre for Health Policy and Implementation Research, University of Health and Allied Sciences, Ghana, Ho, Ghana
John Tanko Bawa
PATH, Accra, Ghana

4 p.m.
INTRODUCTION

4:10 p.m.
REVIEW OF THE MALARIA VACCINE IMPLEMENTATION PROGRAMME AIMS, DESIGN AND STATUS
Eliane Furrer
World Health Organization, Geneva, Switzerland

4:25 p.m.
IMPLEMENTING A CHILDHOOD VACCINE THAT REQUIRES A FOUR-DOSE SCHEDULE: CHALLENGES AND OPPORTUNITIES
Rose Jalang'o
Kenya Ministry of Health, National Vaccines and Immunization Program, Nairobi, Kenya

4:40 p.m.
MALARIA VACCINE PILOT IMPLEMENTATION: FINDINGS FROM THE FIRST 24 MONTHS OF PILOT EVALUATION
Don Mathanga
School of Public Health and Family Medicine, University of Malawi, College of Medicine, Blantyre, Malawi

4:55 p.m.
THE VALUE PROPOSITION: ESTIMATES OF IMPACT AND COST EFFECTIVENESS
Melissa Penny
Swiss Tropical and Public Health Institute, University of Basel, Basel, Switzerland

5:10 p.m.
CHALLENGES IN DEVELOPMENT OF A VACCINE WITHOUT A DUAL MARKET
An Vermeersch
GSK, Wavre, Belgium

5:25 p.m.
WHO RECOMMENDATION AND STEPS FOR BROADER USE
Mary Hamel
World Health Organization, Geneva, Switzerland

Scientific Session 77

Water, Sanitation, Hygiene and Environmental Health: Interventions

Meeting Room 7
Friday, November 19
4 p.m. - 5:45 p.m. U.S. Eastern Time Zone

CHAIR

Audrie Lin
University of California, Berkeley, Berkeley, CA, United States

David Meyer
University of Toronto, Toronto, ON, Canada

Gabrielle String
Tufts University, Medford, MA, United States

1:45 p.m. 894

A MULTI-MODAL INTERVENTION TO IMPROVE HAND HYGIENE DURING THE PERINATAL PERIOD: A FEASIBILITY STUDY IN KAMPONG CHHNANG, CAMBODIA

Yolisa Nalule[1], Por Ir[2], Supheap Leang[2], Alison Macintyre[3], Ponnary Pors[4], Channa Samol[4], Robert Dreibelbis[1]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]National Institute of Public Health, Phnom Penh, Cambodia, [3]WaterAid Australia, Melbourne, Australia, [4]WaterAid Cambodia, Phnom Penh, Cambodia

1:55 p.m. 895

IMPACT OF A WASH IN SCHOOL PROGRAM ON MENSTRUAL HYGIENE KNOWLEDGE, PRACTICES AND MENSTRUAL RELATED ABSENTEEISM AMONG SECONDARY SCHOOL STUDENTS IN BANGLADESH

Debashish Biswas[1], Abul Kashem Shoab[1], Mahbub-Ul Alam[1], Mahbubur Rahman[1], Mirza Manbira Sultana[2], Mahfuj-ur Rahman[2], Leanne Unicomb[1]
[1]International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, [2]WaterAid Bangladesh, Dhaka, Bangladesh

2:05 p.m. 896

EFFECTS OF DRINKING WATER, SANITATION, HANDWASHING, AND NUTRITIONAL INTERVENTIONS ON IMMUNE STATUS IN YOUNG CHILDREN: A CLUSTER-RANDOMIZED CONTROLLED TRIAL IN RURAL BANGLADESH

Audrie Lin[1], Andrew N. Mertens[1], Sophia Tan[1], Md. Ziaur Rahman[2], Lisa Hester[3], Lisa Kim[1], Benjamin F. Arnold[4], Md. Rabiul Karim[2], Sunny Shahriar[2], Shahjahan Ali[2], Abul K. Shoab[2], Md. Saheen Hossen[2], Palash Mutsuddi[2], Syeda L. Famida[2], Salma Akther[2], Mahbubur Rahman[2], Leanne Unicomb[2], Zachary Butzin-Dozier[1], Caitlin Hemlock[1], Alan E. Hubbard[1], Christine P. Stewart[5], Lia C. Fernald[1], John M. Colford Jr.[1], Stephen P. Luby[6], Firdaus S. Dhabhar[7]
[1]University of California, Berkeley, Berkeley, CA, United States, [2]International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, [3]University of Maryland, Baltimore, MD, United States, [4]University of California, San Francisco, San Francisco, CA, United States, [5]University of California, Davis, Davis, CA, United States, [6]Stanford University, Stanford, CA, United States, [7]University of Miami, Miami, FL, United States

2:15 p.m. 897

LONGITUDINAL EFFECTS OF A SANITATION INTERVENTION ON ENVIRONMENTAL FECAL CONTAMINATION IN A CLUSTER-RANDOMIZED CONTROLLED TRIAL IN RURAL BANGLADESH

Jesse D. Contreras[1], Mahfuza Islam[2], Andrew Mertens[3], Amy J. Pickering[3], Laura H. Kwong[4], Benjamin F. Arnold[5], Jade Benjamin-Chung[3], Alan E. Hubbard[3], Mahfuja Alam[2], Debashis Sen[2], Sharmin Islam[2], Mahbubur Rahman[2], Leanne Unicomb[2], Stephen P. Luby[4], John M. Colford[3], Ayse Ercumen[1]
[1]North Carolina State University, Raleigh, NC, United States, [2]International Centre for Diarrhoeal Disease Research Bangladesh, Dhaka, Bangladesh, [3]University of California, Berkeley, Berkeley, CA, United States, [4]Stanford University, Stanford, CA, United States, [5]University of California, San Francisco, San Francisco, CA, United States

2:25 p.m. 898

PROMOTING IMPROVED BACKYARD POULTRY-RAISING PRACTICES TO REDUCE YOUNG CHILDREN'S EXPOSURE TO POULTRY FECES: A PILOT STUDY IN RURAL BANGLADESH

Tarique Mohammad Huda[1], Jesmin Sultana[1], Elizabeth D. Thomas[2], Mohammad Rofi Uddin[1], Shifat Khan[1], Md. Aminul Islam[1], Ireen Sultana Shanta[1], Fosiul Alam Nizame[1], Mahbubur Rahman[1], Peter Winch[2], Laura H. Kwong[3]
[1]icddrb, Dhaka, Bangladesh, [2]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [3]Stanford University, Stanford, CA, United States

2:35 p.m. 899

$20 SENSOR MEASURED USE CONSISTENCY IN HOUSEHOLD WATER TREATMENT DEVICES IN LIMPOPO, SOUTH AFRICA

David D. Meyer[1], Courtney Hill[2], Kelly McCain[2], James A. Smith[2], Pascal O. Bessong[3], Elizabeth T. Rogawski McQuade[2], Natasha C. Wright[4]
[1]University of Toronto, Toronto, ON, Canada, [2]University of Virginia, Charlottesville, VA, United States, [3]University of Venda, Limpopo Province, South Africa, [4]University of Minnesota, Minneapolis, MN, United States

2:45 p.m. 900

SELECTION AND USE OF A SARS-COV-2 SURROGATE IN SURFACE DISINFECTION EFFICACY STUDIES WITH CHLORINE AND ANTIMICROBIAL SURFACES

Gabrielle String[1], Mitchell White[2], David Gute[1], Elke Mühlberger[2], Daniele Lantagne[3]
[1]Tufts University, Medford, MA, United States, [2]Boston University, Boston, MA, United States, [3]Lancon Environmental LLC, Cambridge, MA, United States

Symposium 78

Innovations to Promote Chagas Disease Surveillance and Control Systems Resilient to Changes in Public Health Priorities

Meeting Room 8
Friday, November 19
4 p.m. - 5:45 p.m. U.S. Eastern Time Zone

Over the past decades, several regional initiatives have been launched for the control of Chagas disease vectors. Despite major improvement in decreasing or interrupting vectorial transmission, large heterogeneities remain across Latin America, and the disease continues to affect approximately 7 million people. Following mass insecticide campaigns, many regions still experience recurrent as well as persistent vector infestations, which will require maintained surveillance to prevent a reversion in the hard-gained

benefit of vector control. In addition, in regions with effective vector control, the public health priorities are now shifting toward improved detection of chronic cases and associated treatment, as well as congenital disease prevention, requiring improvement and innovation in terms of disease surveillance and treatment programs. Against this backdrop of evolving Chagas-specific public health priorities the past 10 years has seen the emergence of multiple infectious diseases in Latin America, including chikungunya, Zika, yellow fever, and now COVID-19. The near constant state of emergency has put considerable strain on public health systems in the region, with emergency responses requiring a reallocation of already limited resources away from neglected diseases. The challenges imposed by these emerging diseases have highlighted the importance in promoting innovations of surveillance and control systems to make them more resilient to changes in public health priorities. This should include establishing novel molecular diagnostics to improve active detection, build on novel technology to better communicate, engage with, and ultimately rely on affected communities to improve passive surveillance and the need to constantly innovate to achieve sustainable surveillance and control strategies. This symposium will present examples of such innovations for sustainable Chagas disease surveillance and control in a context of changing and newly emerging public health priorities.

CHAIR

Pamela Pennington
Universidad del Valle de Guatemala, Guatemala, Guatemala

María del Pilar Fernandez
Washington State University, Pullman, WA, United States

4 p.m.
INTRODUCTION

4:10 p.m.
A NEW APPROACH FOR CHAGAS DISEASE VECTOR SURVEILLANCE IN THE SIERRA NEVADA DE SANTA MARTA, COLOMBIA

Eric Dumonteil
Department of Tropical Medicine, School of Public Health and Tropical Medicine, Tulane University, New Orleans, LA, United States

4:25 p.m.
EXPLOITING AMPLICON DEEP SEQUENCING TO INVESTIGATE TRYPANOSOMA CRUZI MULTICLONALITY IN PATIENTS CO-INFECTED WITH HIV AND CHAGAS DISEASE

Louisa Alexandra Messenger
London School of Hygiene & Tropical Medicine, London, United Kingdom

4:40 p.m.
ADAPTED VECTOR SURVEILLANCE STRATEGIES IN RURAL COMMUNITIES OF ARGENTINA IN TIMES OF COVID-19

M. Victoria Cardinal
Universidad de Buenos Aires, Buenos Aires, Argentina

4:55 p.m.
AGAINST ALL ODDS: IMPROVING ACCESS TO CONGENITAL CHAGAS DISEASE SCREENING IN RURAL COMMUNITIES OF GUATEMALA DESPITE EMERGING DISEASE OUTBREAKS

Pamela Pennington
Universidad del Valle de Guatemala, Guatemala, Guatemala

Symposium 79

Tropical Infections in Transplant Patients - Perspectives from Latin America

Meeting Room 9
Friday, November 19
4 p.m. - 5:45 p.m. U.S. Eastern Time Zone

Life-saving transplantation of solid organs in areas endemic for tropical diseases is becoming more widely available. In addition to the traditional infections encountered in the post-transplant period, transplant recipients in the tropics are at an increased risk of suffering from infectious diseases found in this region of the world. The list of endemic diseases to be considered in solid organ transplant (SOT) recipients and donors in Latin America is diverse and includes entities such as dengue, histoplasmosis, strongyloidiasis, and Chagas disease. Consideration of other diseases that are more geographically isolated (e.g. paracoccidioidomycosis) is also important as they are associated with high morbidity and mortality. In addition, some of the endemic diseases themselves (e.g. Chagas) can lead to end organ damage and are important etiologies of need for organ transplantation. Disease due to a communicable agent in the setting of transplant results from the transmission of the pathogen through the allograft or transfusion of blood products, reactivation of a latent infection present in the pre-transplant period or from de novo infection acquired post-transplant. In addition to the importance of being familiar with the different forms of transmission in the transplant arena, it is vital to note that the presentation can be atypical and make diagnosis challenging. For example, the incubation period, clinical manifestations, and response to treatment might differ for the same disease in SOT recipients when compared to immunocompetent hosts. Transplantation of organs in tropical countries is therefore complex. In addition, the increasing ease of travel and immigration of individuals from the tropics to more temperate latitudes have led healthcare providers around the world to encounter this patient population more often than ever before. It is therefore imperative for the medical community to be familiar with not only the geographic distribution and epidemiology of the disease but also with the important nuances of their life cycles, the different forms of transmission and diversity of the clinical manifestations, diagnostic evaluation, treatment, and tools available to monitor the response. It is also essential for medical personnel to be familiar with the available interventions to protect the SOT recipient traveling to or living in tropical regions. This symposium will provide experiences from different regions of the Americas. The presentations will review cases of post-transplant infections with emphasis on the epidemiology of some of diseases and approaches to the screening, diagnosis

and treatment. Presenters will also review available interventions for the protection of SOT recipients at risk for tropical infectious diseases.

CHAIR

Joe P. Bryan
Adjunct professorship at the Via College of Osteopathic Medicine, Watonga, OK, United States

Nelson I. Agudelo Higuita
University of Oklahoma Health Sciences Center, Oklahoma City, OK, United States

4 p.m.
INTRODUCTION

4:10 p.m.
APPROACH TO SCREENING FOR TROPICAL INFECTIOUS DISEASES IN SOLID ORGAN DONORS AND RECIPIENTS
Wendy K. Moncada Navas
National Cardiopulmonary Institute, Tegucigalpa, Honduras

4:35 p.m.
TRANSFUSION-TRANSMITTED ARBOVIRUSES, MALARIA AND EMERGING PATHOGENS IN THE SETTING OF SOLID ORGAN TRANSPLANTATION IN BRAZIL
José E. Levi
University of São Paulo, São Paulo, Brazil

5 p.m.
CASES OF TROPICAL INFECTIONS IN SOLID ORGAN TRANSPLANT RECIPIENTS IN COLOMBIA
Carlos A. Agudelo Restrepo
Universidad Pontificia Bolivariana, Medellin, Colombia

5:30 p.m.
PROTECTION OF THE SOLID ORGAN TRANSPLANT RECIPIENT TRAVELING TO OR LIVING IN TROPICAL REGIONS
Nelson I. Agudelo Higuita
University of Oklahoma Health Sciences Center, Oklahoma City, OK, United States

Symposium 80

Innovative Uses and Analyses of Neglected Tropical Disease (NTD) Data to Inform Improved Program Implementation

Meeting Room 10
Friday, November 19
4 p.m. - 5:45 p.m. U.S. Eastern Time Zone

Neglected Tropical Disease (NTD) Programs operate to eliminate or control diseases such as: Lymphatic Filariasis, Trachoma, Onchocerciasis, Schistosomiasis (SCH) and Soil Transmitted Helminths (STH), among others, in a range of countries where these diseases are endemic across Africa, Asia and Latin America. Such programs collect routine monitoring and outcome data in relation to their Mass Drug Administration (MDA) campaigns and Disease Specific Assessments (DSAs) to assist with decision making, to allow for program course correction if necessary, to inform program progress, and to report to international donors and funders for accountability purposes. There is a wealth of such data, often spanning 10-15 years, with considerable granularity, in terms of number of indicators collected and level of geography reported, that allows for time trends to be tracked in relation to disease progression. Unfortunately, much of the existing program data is used in routine ways to report on basic outcomes and are not mined to their full forensic potential to inform future program orientation or implementation. This session considers a diverse set of attempts to utilize or analyze existing NTD program data in unconventional ways to unearth interesting findings about either program results or about the way the program is being implemented. The first talk uses existing coverage evaluation survey data from several West African countries, collected shortly after MDA, to elucidate the characteristics of those who do not participate in MDAs – a concern as these non-participants may be a source of pockets of ongoing infection or transmission. The second talk explores the use of sub-district level analysis after MDA in Sierra Leone, to identify low or heterogeneous coverage at the sub-district level - given that district level coverage can mask untreated geographic areas at lower levels, which can in turn create pockets of infection/transmission. Subdistrict level analyses can then be used to inform targeted interventions for the next MDA - such as the targeted use of Supervisor's Coverage Tool to identify sub-districts in need of MDA mop-up. The third talk considers progress towards the control of SCH and STH in Ghana by analyzing original baseline data against SCH/STH impact survey data after many rounds of treatment to have a better understanding of the progression of the two diseases between 2007 and 2015. The final talk discusses the aggregation of data across the Water, Sanitation and Hygiene (WaSH) and NTD sectors in Ethiopia to enable more targeted joint WaSH and NTD interventions to implementation units with the highest burden of disease and lowest access to water and sanitation services.

CHAIR

Diana Maria Stukel
FHI 360, Washington, DC, United States

4 p.m.
INTRODUCTION

4:10 p.m.
AN INVESTIGATION INTO NON-COMPLIANCE IN NTD MASS DRUG ADMINISTRATIONS (MDAS) IN WEST AFRICAN COUNTRIES USING EXISTING COVERAGE EVALUATION SURVEY DATA
Diana M. Stukel
FHI 360, Washington, DC, United States

4:35 p.m.
SUB-DISTRICT ANALYSIS OF LYMPHATIC FILARIASIS (LF) MASS DRUG ADMINISTRATION (MDA) COVERAGE IN HOTSPOTS AND MODIFIED PROTOCOLS TO ADDRESS NTD BARRIERS IN SIERRA LEONE
Mustafa Sonnie
Seed Global Health, Freetown, Sierra Leone

5 p.m.
THE RESULTS OF SCH-STH BASELINE AND IMPACT STUDIES IN GHANA: AN IN-DEPTH ANALYSIS
Kofi Asemanyi-Mensah
Ghana Health Services, Accra, Ghana

5:25 p.m.
WASH AND NTDS DATA MERGE FOR DECISION MAKING IN ETHIOPIA
Melaku M. Debela
SIghtSavers, Addis Ababa, Ethiopia

Symposium 81

Interrupting Transmission of Infection: A Key Milestone in Eliminating Leprosy (Hansen's Disease) - Strategies to Reach the Goal by 2030

Meeting Room 11
Friday, November 19
4 p.m. - 5:45 p.m. U.S. Eastern Time Zone

Until introduction of the WHO-recommended multidrug therapy (MDT) in 1980s, leprosy remained an incurable disease. Encouraged by reduction of prevalence of leprosy with MDT, all stakeholders including ministries of health, WHO, nongovernmental organizations and persons affected by leprosy considered 'elimination of leprosy' (i.e. absence of autochthonous cases) as an achievable target, and aspired to a leprosy-free world -however, this is not yet achieved as of today. As per the most recent global leprosy statistics, 202,259 new cases were detected in 2019. Since the year 2000, WHO global leprosy strategies focused on early detection, treatment with MDT, enhancing the capacity of health staff, awareness raising, and disability care. 'Stop discrimination and promote inclusion' was elevated to a full-fledged pillar in addition to conventional approaches of stopping leprosy and strengthening governance. The global targets were to reduce new cases and those with visible deformities or grade-2 disabilities (G2D) and discrimination against the disease. A very slow reduction of new cases – by 2% annually was noted over the past ten years; MDT alone was insufficient to bend the new case detection curve. Review of recent evidence about prevention of leprosy was taken up which led to the recommendation of post-exposure prophylaxis (PEP) with single-dose rifampicin (SDR) through WHO Guidelines for the diagnosis, treatment and prevention of leprosy (2018). Leprosy has been included among the Neglected Tropical Diseases (NTDs) and the Global Leprosy Strategy 2021–2030 was developed in line with NTD Road map 2021–2030. Prevention of leprosy through contact tracing and PEP with SDR is included as one of the key pillars for reducing new cases and interrupting transmission. National program managers from endemic countries widely supported the process of the Global Leprosy Strategy 2021–2030 development and are gradually incorporating it into their national health plans. It is time for all stakeholders to address the following questions: 1) where are we with regard to achievement of Global Leprosy Strategy 2016–2020 targets? 2) What are the challenges and how to advocate with countries and donors for rolling out the Global Leprosy Strategy 2021-2030? 3) What support is required from partners to achieve the new targets? Retaining leprosy in the health agenda, integrated case detection for NTDs with skin manifestations, screening of both household and social contacts for leprosy and chemoprophylaxis with SDR and inclusion of persons affected by leprosy to eliminate stigma are some of the key elements that will be discussed. It is expected that these discussions would contribute to the development of Zero-leprosy roadmaps by countries.

CHAIR
Rie R. Yotsu
Nagasaki University, Nagasaki-shi, Japan
Venkata Ranganadha Rao Pemmaraju
WHO Regional Office of South-East Asia, New Delhi, India

4 p.m.
INTRODUCTION

4:10 p.m.
OVERVIEW ON GLOBAL LEPROSY STRATEGY AND ELABORATING ON KEY STRATEGIC CHOICES FOR INTERRUPTION OF TRANSMISSION
Venkata Ranganadha Rao Pemmaraju
WHO Regional Office of South-East Asia, 0000, India

4:20 p.m.
REACHING THE TARGETS OF GLOBAL LEPROSY STRATEGY 2016-2020; STATUS, LESSONS LEARNED FROM A LEPROSY ENDEMIC COUNTRY
Md Enamul Haque
National Leprosy Programme of Bangladesh, Dhaka, Bangladesh

4:30 p.m.
GLOBAL LEPROSY STRATEGY 2021-2030, AS PART OF NTD ROADMAP-KEY STRATEGIC CHOICES
Erwin Cooreman
World Health Organization Global Leprosy Programme, New Delhi, India

4:40 p.m
EXPERIENCE FROM POST-EXPOSURE PROPHYLAXIS PERSPECTIVE FROM A LEPROSY ENDEMIC COUNTRY - ACHIEVEMENTS AND CHALLENGES
Blasdus Njako
German Leprosy Relief Associations, Dar es Salaam, United Republic of Tanzania

4:50 p.m.
ACTION TIME FOR INTEGRATION OF LEPROSY, SKIN NTDS, AND BEYOND: STRATEGIC FRAMEWORK FOR INTEGRATED CONTROL OF SKIN NTDS 2021-2030
Rie R. Yotsu
Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States

5 p.m.
ELIMINATION OF STIGMA AND PROMOTING HUMAN RIGHTS IN LEPROSY SERVICES – PERSPECTIVE FROM PERSONS AFFECTED BY LEPROSY

Lilibeth Nwakego Evarestus
Lilibeth Evarestus & Associates, Legal Practitioners and Property Consultants, Lagos, Nigeria

Special Session

ACAV/ACME Networking Event

Friday, November 19
5:15 p.m. – 7 p.m. U.S. Eastern Time Zone

CHAIR

Adeline Williams
National Institutes of Health, Rockville, MD, United States

Katherine Laycock
The Children's Hospital of Philadelphia, Philadelphia, PA, United States

Break

Friday, November 19
5:45 p.m. – 6 p.m. U.S. Eastern Time Zone

Special Session 82

Film Screening and Panel Discussion: "Accidental Host - The Story of Rat Lungworm Disease"

Grand Ballroom
Friday, November 19
6 p.m. - 7:45 p.m. U.S. Eastern Time Zone

"Accidental Host - The Story of Rat Lungworm Disease" is a medical documentary about a globalizing foodborne parasite that invades human brains and now thrives in tropical areas of five continents, including Hawaii and the southeastern U.S. This compelling 53-minute film featuring multiple patient stories and expert interviews shot in Hawaii, Florida and California depicts a disease that is virtually unknown to most physicians as well as travelers and residents at risk. "Accidental Host" was produced by Claire Panosian Dunavan, a past-president of the American Society of Tropical Medicine and Hygiene, and a team of veteran, award-winning filmmakers.

CHAIR

Claire Panosian Dunavan
David Geffen School of Medicine at UCLA, Los Angeles, CA, United States

Vernon Ansdell
John A. Burns School of Medicine, University of Hawaii, Honolulu, HI, United States

6 p.m.
INTRODUCTION

Claire Panosian Dunavan
David Geffen School of Medicine at UCLA, Los Angeles, CA, United States

6:05 p.m.
FILM: "ACCIDENTAL HOST - THE STORY OF RAT LUNGWORM DISEASE"

7 p.m.
PANEL DISCUSSION

Claire Panosian Dunavan
David Geffen School of Medicine at UCLA, Los Angeles, CA, United States

Vernon Ansdell
John A. Burns School of Medicine, University of Hawaii, Honolulu, HI, United States

Robert Cowie
University of Hawaii, Manoa, Honolulu, HI, United States

Thomas Nutman
Laboratory of Parasitic Diseases, National Institutes of Health, Bethesda, MD, United States

Saturday, November 20

ASTMH Information Desk

Lobby
Saturday, November 20
7 a.m. - 4:45 p.m. U.S. Eastern Time Zone

Exhibit Hall

Visit the Exhibit Hall to view the schedule for each exhibit booth and connect with our exhibitors and learn about their products and services

Press Room

The ASTMH media team is available for assistance at the following:

- Bridget DeSimone, bdesimone@burness.com
  tel: +1 202-468-0766
- Preeti Singh psingh@burness.com
  tel: +1 703-862-2515
- Anna Chen, achen@burness.com
  tel: +1 215-262-7670

Review research highlights and more:

https://astmhpressroom.wordpress.com/annual-meeting-2021/

Symposium 83

Novel Transmission and Ecology of Leishmaniasis

Meeting Room 1
Saturday, November 20
8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

Changes in climate, developmental advances in different countries, and advances in our methodologies for detection and sequence-based tracking of disease have highlighted novel patterns of transmission of leishmaniasis, some of which reflect recent changes and some of which reflect our increased capacity to perceive what has been ongoing for years. In this symposium we propose to explore four such scenarios. Dr. Jeronimo will present the changing patterns of visceral leishmaniasis in Brazil, paralleling changes in the incomes and economic and health status of the population. Dr. Petersen and colleagues will describe a zoonotic reservoir for visceral leishmaniasis that has become evident as the incidence of human disease diminishes in response to the eradication campaign in India. Dr. Kwakye-Nuako will describe an ongoing outbreak of cutaneous leishmaniasis in Ghana caused by a novel Leishmania species belonging to Leishmania (Mundinia) subgenus. This disease has emerged and expanded rapidly, possibly reflecting the fact that the insect vector for the parasite is a midge rather than a sand fly. Drs. Franssen and Cotton will present a phylogenetic and population genomic study of canine visceral leishmaniosis in US hunting dogs, which raises hypotheses regarding the contributions of vector-mediated versus vertical transmission routes.

CHAIR
Mary E. Wilson
University of Iowa, Iowa City, IA, United States

Selma M. Jeronimo
Universidade Federal do Rio Grande do Norte, Natal, Brazil

8 a.m.
INTRODUCTION

8:10 a.m.
CHANGING DEMOGRAPHICS OF VISCERAL LEISHMANIASIS IN A CHANGING COUNTRY: CURRENT STATUS OF VISCERAL LEISHMANIASIS IN BRAZIL
Selma M. Jeronimo
Universidade Federal do Rio Grande do Norte, Natal, RN, Brazil

8:35 a.m.
A ZOONOTIC RESERVOIR FOR LEISHMANIA DONOVANI IN BIHAR, INDIA
Anurag Kushwaha
Bananas Hindu University, Varanasi, India

9 a.m.
EMERGING CUTANEOUS LEISHMANIASIS IN GHANA DUE TO SUSPECTED MIDGE-TRANSMITTED SPECIES OF LEISHMANIA SUBGENUS MUNDINIA
Godwin Kwakye-Nuako
University of Cape Coast, Cape Coast, Ghana

9:25 a.m.
GEOGRAPHIC ORIGIN AND VERTICAL TRANSMISSION OF LEISHMANIA INFANTUM IN UNITED STATES HUNTING DOGS
Susanne Franssen
Wellcome Sanger Institute, Hinxton, Cambridgeshire, United Kingdom

Scientific Session 84

Clinical Tropical Medicine: Diagnostics and COVID

Meeting Room 2
Saturday, November 20
8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

CHAIR
Brett Hendel-Paterson
University of Minnesota, Minneapolis, MN, United States

Mark Kortepeter
USUHS, Bethesda, MD, United States

8 a.m.

901

DIAGNOSTIC YIELD OF ADDING THE BIOFIRE® FILMARRAY® MENINGITIS/ENCEPHALITIS PANEL TO ROUTINELY AVAILABLE DIAGNOSTICS FOR CENTRAL NERVOUS SYSTEM INFECTIONS IN BOTSWANA

Christopher G. Williams[1], Kwana Lechiile[1], Leah Owen[2], Hannah Barton[2], Ezekiel Gwakuba[2], Thandi Milton[2], Ponego Ponatshego[1], Kaelo Seatla[1], Tshepo Leeme[1], Ikanyeng Rulaganyang[2], Tichaona Machiya[3], William Hurt[2], Mark Tenforde[4], Margaret Mokomane[5], Madisa Mine[5], David M. Goldfarb[6], Joseph N. Jarvis[7]

[1]Botswana Harvard AIDS Institute Partnership, Gaborone, Botswana, [2]Botswana U-Penn Partnership, Gaborone, Botswana, [3]Ministry of Health and Wellness, Gaborone, Botswana, [4]Centers for Disease Control and Prevention, Atlanta, GA, United States, [5]National Health Laboratory, Gaborone, Botswana, [6]BC Children's Hospital Research Institute, Vancouver, BC, Canada, [7]London School of Hygiene & Tropical Medicine, London, United Kingdom

8:10 a.m.

902

DEVELOPMENT AND PERFORMANCE EVALUATION OF A LOW-COST, HIGH THROUGHPUT, MULTIPLEX IMMUNOASSAY OF 13 FEVER SEVERITY AND ETIOLOGY MARKERS

Tegwen Marlais[1], Becca L. Handley[1], Elizabeth A. Ashley[2], Chris Drakeley[1], Manophab Luangraj[2], Yoel Lubell[3], David Mabey[1], Mayfong Mayxay[2], Paul N. Newton[2], Heidi Hopkins[1], Chrissy H. Roberts[1]

[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]Lao-Oxford-Mahosot Hospital-Wellcome Trust Research Unit (LOMWRU), Vientiane, Lao People's Democratic Republic, [3]Mahidol-Oxford Tropical Medicine Research Unit (MORU), Bangkok, Thailand

8:20 a.m.

903

PREDICTING MORTALITY IN FEBRILE ADULT PATIENTS: A PROSPECTIVE VALIDATION OF THE MEWS, QSOFA AND UVA SCORES IN FOUR HEALTH CARE SETTINGS IN AFRICA AND SOUTH-EAST ASIA

Oliver Baerenbold[1], Quique Bassat[2], John Bradley[3], Justina M. Bramugy[4], Mabvuto Chimenya[5], John A. Crump[6], Edward Green[7], Kevin Kain[8], Sham Lal[9], Manophab Luangraj[10], David C. Mabey[9], Ioana D. Olaru[9], Molly Sibanda[11], Shunmay Yeung[9], Christopher C. Moore[12], Heidi Hopkins[9]

[1]Faculty of Epidemiology and Population Health, London School of Hygiene & Tropical Medicine (LSHTM), London, United Kingdom, [2]ISGlobal, Hospital Clínic - Universitat de Barcelona, Barcelona, Spain, [3]MRC International Statistics and Epidemiology Group, Faculty of Epidemiology and Population Health, London School of Hygiene & Tropical Medicine (LSHTM), London, United Kingdom, [4]Centro de Investigação em Saúde de Manhiça (CISM), Maputo, Mozambique, [5]Malawi-Liverpool-Wellcome Trust Clinical Research Programme, Blantyre, Malawi, [6]Centre for International Health, University of Otago, Dunedin, New Zealand, [7]Department of Clinical Sciences, Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [8]Tropical Disease Unit, Department of Medicine, UNH-Toronto General Hospital, University of Toronto, Toronto, ON, Canada, [9]Faculty of Infectious and Tropical Diseases, London School of Hygiene & Tropical Medicine (LSHTM), London, United Kingdom, [10]Lao-Oxford-Mahosot Hospital-Wellcome Trust Research Unit (LOMWRU), Mahosot Hospital, Vientiane, Lao People's Democratic Republic, [11]Biomedical Research and Training Institute, Harare, Zimbabwe, [12]Division of Infectious Diseases and International Health, Department of Medicine, University of Virginia, Charlottesville, VA, United States

8:30 a.m.

904

DECREASED MUSCLE OXYGENATION AND PH ARE EARLY AND SENSITIVE INDICATORS FOR DENGUE SEVERITY

Anon Srikiatkhachorn[1], Darunee Buddhari[2], Alden L. Weg[3], Kamchai Rungsimanphaiboon[4], Angkhana Ouppapong[4], Surachai Kaewhira[5], Janya Chaisirirat[4], Alan L. Rothman[1], Stefan Fernandez[2], Babs Soller[6], Sharone Green[7]

[1]University of Rhode Island, Providence, RI, United States, [2]Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, [3]Uniformed Services University of the Health Sciences, Bethesda, MD, United States, [4]Kamphaeng Phet Provincial Hospital, Kamphaeng Phet, Thailand, [5]Pichit Provincial Hospital, Pichit, Thailand, [6]Tradewinds Science Inc., Carlsbad, CA, United States, [7]University of Massachusetts Medical School, Worcester, MA, United States

8:40 a.m.

905

TREATMENT OF COVID-19 WITH REMDESIVIR AND CONVALESCENT PLASMA: A PROSPECTIVE, OBSERVATIONAL STUDY

Pradip Gyanwali[1], Meghnath Dhimal[1], Saroj Bhattarai[1], Bipin Nepal[2], Rekha Manandhar[3], Runa Jha[3], Prabhat Adhikari[2], Chhabi Lal Panthi[1], Bihungum Bista[1], Suman Pant[1], Shristi Karki[1], Janak Koirala[1], Nepal COVID-19 Clinical Study Collaborators[1]

[1]Nepal Health Research Council, Kathmandu, Nepal, [2]Grande International Hospital, Kathmandu, Nepal, [3]National Public Health Laboratory, Kathmandu, Nepal

8:50 a.m.

906

LIMITED CLINICAL DISEASE DESPITE RAPIDLY INCREASING SARS-COV-2 SEROPREVALENCE IN MALI, WEST AFRICA

John Woodford[1], Jennifer Kwan[2], Abdoulaye Katile[3], Bourama Kamate[3], Mamady Kone[3], Mahamadoun Hamady Assadou[3], Oumar Attaher[3], Emily Higbee[1], Jacquelyn Lane[1], David Cook[1], Sara Healy[1], M'Bouye Doucoure[3], Amatigue Zeguime[3], Irfan Zaidi[1], Justin Doritchamou[1], Alassane Dicko[3], Patrick Duffy[1], Issaka Sagara[3]

[1]Laboratory of Malaria Immunology and Vaccinology, NIAID, MD, United States, [2]Laboratory of Clinical Immunology and Microbiology, NIAID, MD, United States, [3]Malaria Research and Training Center, Mali-NIAID ICER, Bamako, Mali

9 a.m.

907

METAGENOMIC NEXT-GENERATION SEQUENCING OF FEBRILE PATIENTS REVEALS DIVERSE VECTOR-BORNE PATHOGEN LANDSCAPE IN CAMBODIA

Jennifer A. Bohl[1], Sreyngim Lay[2], Sophana Chea[3], Vida Ahyong[4], Daniel M. Parker[5], Shannon Gallagher[6], Jon Fintzi[6], Somnang Man[3], Aiyana Ponce[7], Sokunthea Sreng[8], Dara Kong[8], Fabiano Oliveira[7], Katrina Kalantar[9], Michelle Tan[4], Liz Fahsbender[9], Jonathan Sheu[9], Norma Neff[10], Angela Detweiler[9], Sokna Ly[8], Rathanak Sath[8], Huch Chea[11], Hok Kry[12], Rithea Leang[11], Rekol Huy[11], Chanthap Lon[8], Cristina M. Tato[4], Joseph L DeRisi[4], Jessica E. Manning[1]

[1]Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, Maryland, USA, Bethesda, MD, United States, [2]International Center of Excellence in Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Phnom Penh, Cambodia, Cambodia, Phnom Penh, Cambodia, [3]International Center of Excellence in Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Phnom Penh, Cambodia, Phnom Penh, Cambodia, Cambodia, [4]Chan Zuckerberg Biohub, San Francisco, California, USA, California, CA, United States, [5]University of California, Irvine, California USA, California, CA, United States, [6]Biostatistics Branch, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, Maryland, USA, Bethesda, MD, United States, [7]National Institutes of Health, Rockville MD, WA, United States, [8]International Center of Excellence in Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Phnom Penh, Cambodia, Phnom Penh, Cambodia, [9]Chan Zuckerberg Initiative, Redwood City, California, USA, California, CA, United States, [10]Chan Zuckerberg Initiative, Redwood City, California,, California, CA, United States, [11]National Center for Parasitology, Entomology, and Malaria Control, Ministry of Health, Phnom Penh, Cambodia, Phnom Penh, Cambodia, [12]Kampong Speu District Referral Hospital, Chbar Mon, Cambodia, Kampong Speu, Cambodia

Scientific Session 85

Malarial Immune Response from Numerous Perspectives

Meeting Room 3
Saturday, November 20
8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

CHAIR

Teun Bousema
Radboudmc, Nijmegen, Netherlands

Jason Nideffer
Stanford University, Stanford, CA, United States

8 a.m. 908

KINETICS AND FUNCTIONALITY OF NATURALLY ACQUIRED ANTIBODY RESPONSES TOP. *FALCIPARUM*GAMETOCYTE ANTIGENS IN AN AREA OF INTENSE MALARIA TRANSMISSION IN UGANDA

Patience Nayebare[1], Jonathan Mandel[2], Gerine Nijman[2], John Rek[1], Emmanuel Arinaitwe[1], Ivo Hansen[2], Matthijs Jore[2], Moses Kamya[1], Grant Dorsey[3], Sarah Staedke[4], Chris Drakeley[4], William Stone[4], **Teun Bousema**[2]
[1]IDRC, Kampala, Uganda, [2]Radboudumc, Nijmegen, Netherlands, [3]UC-SF, San Francisco, CA, United States, [4]LSHTM, London, United Kingdom

8:10 a.m. 909

SEX-BASED IMMUNOLOGICAL DIFFERENCES AMONG MALARIA-EXPOSED UGANDANS INCLUDES ABERRANT HEMATOPOIESIS

Jason Nideffer[1], Maureen Ty[1], Patience Nayebare[2], Felistas Nankya[2], Kenneth Musinguzi[2], Jessica Briggs[3], Bryan Greenhouse[3], Rek John[2], Moses Kamya[4], Grant Dorsey[3], Isaac Ssewanyana[2], Prasanna Jagannathan[1]
[1]Stanford University, Stanford, CA, United States, [2]Infectious Diseases Research Collaboration, Kampala, Uganda, [3]University of California San Francisco, San Francisco, CA, United States, [4]Makerere University, Kampala, Uganda

(ACMCIP Abstract)

8:20 a.m. 910

DYSREGULATION OF THE IMMUNE RESPONSE IL-5 SIGNALING VIA JAK/STAT PATHWAY IN KENYAN CHILDREN WITH SEVERE MALARIAL ANEMIA

Clinton Onyango[1], Elly O. Munde[2], Samuel B. Anyona[3], Evans Raballah[4], Ivy Hurwitz[5], Qiuying Cheng[5], Kristan A. Schneider[6], Christophe G. Lambert[5], Collins Ouma[7], Douglas J. Perkins[5]
[1]University of New Mexico-Kenya Global Health Programs, Kisumu and Siaya, Kenya, [2]Department of Clinical Medicine, School of Health Science, Kirinyaga University, Kerugoya, Kenya, [3]Department of Medical Biochemistry, School of Medicine, Maseno University, Maseno, Kenya, [4]Department of Medical Laboratory Sciences, School of Public Health Biomedical Sciences and Technology, Masinde Muliro University of Science and Technology, Kakamega, Kenya, [5]Center for Global Health, University of New Mexico, Albuquerque, NM, United States, [6]Department Applied Computer and Bio-Sciences, University of Applied Sciences Mittweida, Mittweida, Germany, [7]Department of Biomedical Sciences and Technology, School of Public Health and Community Development, Maseno University, Maseno, Kenya

8:30 a.m. 911

A SYSTEMS SEROLOGY APPROACH TO IDENTIFY DOMAIN TARGETS AND FC FUNCTIONS OF ANTIBODIES AGAINST PFEMP1 THAT ARE ASSOCIATED WITH PROTECTION FROM CEREBRAL *PLASMODIUM FALCIPARUM* MALARIA

Isobel Walker[1], Wina Hasang[1], Saber Dini[2], Agersew Mengist[1], Janavi Rambhatla[1], Terrie Taylor[3], Karl Seydel[3], Elizabeth Aitken[1], Anja Jensen[4], Michael Duffy[5], Amy Chung[1], Stephen Rogerson[1]
[1]Peter Doherty Institute, University of Melbourne, Melbourne, Australia, [2]Melbourne School of Population and Global Health, University of Melbourne, Melbourne, Australia, [3]Michigan State University, Blantyre Malaria Project, East Lansing, MI, United States, [4]University of Copenhagen, Copenhagen, Denmark, [5]Bio21 Institute, University of Melbourne, Melbourne, Australia

(ACMCIP Abstract)

8:40 a.m. 912

DETERMINATION OF MALARIA EXPOSURE IN ETHIOPIAN COMMUNITIES AND ITS RELATIONSHIP TO *P. VIVAX*MALARIAL BURDEN IN DUFFY-NEGATIVE INDIVIDUALS

Lauren Bradley[1], Guiyun Yan[1], Jamez Kazura[2], Arlene Dent[2], Delenasaw Yewhalaw[3]
[1]University of California - Irvine, Irvine, CA, United States, [2]Case Western Reserve University, Cleveland, OH, United States, [3]Jimma University, Jimma, Ethiopia

(ACMCIP Abstract)

8:50 a.m. 913

IMPACT OF ENDOGENOUS STEROIDS ON HOST IMMUNE RESPONSE DURING BLOOD STAGE *PLASMODIUM FALCIPARUM* MALARIA

Wael Abdrabou[1], Massar Dieng[1], Aïssatou Diawara[1], Samuel Sermé[2], Salif Sombié[2], Vinu Manikadan[1], Issiaka Soulama[2], Youssef Idaghdour[1]
[1]New York University, Abu Dhabi, United Arab Emirates, [2]Centre National de Recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso

(ACMCIP Abstract)

9 a.m. 914

PROTECTION-ASSOCIATED IMMUNE RESPONSES FOLLOWING VACCINATION WITH RADIATION-ATTENUATED *PLASMODIUM FALCIPARUM* SPOROZOITES

Nina Hertoghs[1], Ying Du[1], Fergal Duffy[1], Katharine V. Schwedhelm[2], Suzanne M. McDermott[1], M. Juliana McElrath[2], Stephen C. De Rosa[2], Kenneth D. Stuart[1]
[1]Seattle Children's Research Institute, Seattle, WA, United States, [2]Fred Hutchinson Cancer Research Center, Seattle, WA, United States

(ACMCIP Abstract)

Symposium 86

Beyond the Campaign: Integration of Vertical Disease Control Programs Into Primary Care; Lessons Learned From NTDs and Malaria

Meeting Room 4
Saturday, November 20
8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

Malaria control programs, which have long been integral to primary health care, are expanding their use of more vertical approaches (SMC, MDA) in the move to elimination. At the same time, WHO has launched the 2030 NTD roadmap with a strong emphasis on sustainability and integration into the wider health and development landscape, with increased emphasis on cross-sectoral collaboration. Both these program areas will benefit from increased cross program collaboration and integration. The symposium introduces a framework used in workshops to guide integration across malaria and NTD programmatic areas. It is designed to facilitate conversations across programs, to map out the different program interventions (e.g. drug distribution, vector control, surveillance, and WASH) and delivery methods (e.g. community, PHC and laboratory platforms), with the goal of identifying win-win opportunities for collaboration. The second presentation covers metrics and tools used to measure treatment interventions and will include tools used to track treatments delivered (e.g. program routine monitoring, real time data reporting, and integration into HMIS systems) to assess mass drug administration coverage and adherence (e.g. coverage evaluation survey, supervisors coverage tool, and qualitative approaches), and to measure impact on infection and disease prevalence and incidence. The focus will be on what NTD and malaria programs can learn from each other's approaches to measurement. The third presentation focuses on the 'end-game' for NTDs and malaria, exploring the trade-offs that are to be made between integration and vertical approaches depending on whether the goal is control or elimination. Topics such as foci detection and investigation, identifying recrudescence and separating it from new infection, and reaching hard to reach populations with interventions. The final talk will present the findings of a piloted integration workshop in Liberia which highlights the challenges and benefits of integrating NTDs and malaria in a 'real world' setting in West Africa. The session will end with a moderated Q&A session with the speaker panel to explore the details of prior presentations. Participants will leave the session with an enhanced understanding of lessons learned from the process of integration which could benefit the future evolution of both NTD and malaria control programs.

CHAIR

Erin Eckert
Research Triangle Institute, Washington, DC, United States

Akpaka Kalu
World Health Organization, Harare, Zimbabwe

8 a.m.
INTRODUCTION

8:10 a.m.
A TEMPLATE FOR INTEGRATION OF MALARIA AND NTD PROGRAM ACTIVITIES
Anastasia Pantelias
Bridges to Development, Vashon, WA, United States

8:35 a.m.
THE EVOLUTION OF TOOLS USED TO MEASURE TREATMENT FOR MALARIA AND NTDS: ACHIEVEMENTS AND GAPS
Mawo Fall
Research Triangle Institute, Maputo, Mozambique

9 a.m.
MOVING TOWARDS THE 'END-GAME': SPECIALIZED APPROACHES FOR ELIMINATION AND OPPORTUNITIES FOR INTEGRATION
Upendo Mwingira
Research Triangle Institute, Washington, DC, United States

9:25 a.m.
LESSONS LEARNED FROM PILOTING THE INTEGRATION TEMPLATE
Chukwu Okoronkwo
National Malaria Control Program, Abuja, Nigeria

Scientific Session 87

Global Health: Malaria and Neglected Tropical Diseases

Meeting Room 5
Saturday, November 20
8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

CHAIR

Laud Anthony Wihibeturo Basing
Komfo Anokye Teaching Hospital, Kumasi, Ghana

Laura Steinhardt
Centers for Disease Control and Prevention, Atlanta, GA, United States

8 a.m. 915

EXPANDING INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANCY (IPTP) THROUGH COMMUNITY DISTRIBUTION ALSO INCREASED IPTP UPTAKE THROUGH ANTENATAL CARE VISITS IN THREE DISTRICTS OF MADAGASCAR

Elmard Rabotovao Solo[1], Faniry Nomena Andriantsitohaina[1], Felana Nafindra Andriarinirina[1], Tsiriarivelo Julie Solondrainy[1], Gregory Andriamanoarisoa[1], Hery Harimanitra Andriamanjato[1], Jean Pierre Rakotovao[1], Andritahina Razafiarijaona[1], Eliane Razafimandimby Ramiandrison[1], Christina Maly[2]
[1]Jhpiego, Antananarivo, Madagascar, [2]Jhpiego, Baltimore, MD, United States

8:10 a.m. 916

CHANGES IN ANTENATAL CARE (ANC) ATTENDANCE AND UPTAKE OF INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANCY (IPTP) AFTER INTRODUCTION OF COMMUNITY-BASED DISTRIBUTION OF IPTP IN THREE LOCAL GOVERNMENT AREAS (LGA) IN NIGERIA

Herbert Enyeribe Onuoha[1], Bartholomew Odio[1], Christina Maly[2], Lawrence Nwankwo[3], Folayan Waheed Adewale[4], Elizabeth Njoku[1], Oniyire Adetiloye[1], Orji Bright[1], Emmanuel Dipo Otolorin[1], Elaine Roman[2]
[1]Jhpiego, Abakaliki, Nigeria, [2]Jhpiego, Baltimore, MD, United States, [3]Ebonyi State Ministry of Health, Abakaliki, Nigeria, [4]Ondo State Ministry of Health, Alagbaka, Akure, Nigeria

8:20 a.m. 917

MAPPING OUT OF YAWS ENDEMICITY IN GHANA, LESSONS TO STRENGTHEN THE PLANNING AND IMPLEMENTATION OF YAWS ERADICATION

Laud Anthony Wihibeturo Basing, Deborah Malug
Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

8:30 a.m. 918

BASELINE PREVALENCE OF TRACHOMA IN REFUGEE SETTLEMENTS IN UGANDA: RESULTS OF 11 POPULATION-BASED SURVEYS

Gilbert Baayenda[1], Francis Mugume[1], Alfred Mubangizi[1], Sarah Byakika[1], John K. Binta[2], Darlson Kusasira[3], Ben Binagwa[4], Stella Agunyo[4], Kathryn Crowley[5], Wangeci Thuo[5], Mike , French[5], Elizabeth Plunkett[5], Jeremiah M. Ngondi[5]
[1]Ministry of Health, Kampala, Uganda, [2]Kampala International University Medical School, Kampala, Uganda, [3]Refugees Department, Office of the Prime Minister, Kampala, Uganda, [4]RTI International, Kampala, Uganda, [5]RTI International, Washington DC, MD, United States

8:40 a.m. 919

IDENTIFICATION OF SNAILS AND SCHISTOSOMA OF MEDICAL IMPORTANCE VIA CONVOLUTIONAL NEURAL NETWORKS

Krti Tallam[1], Zac Yung-Chun Liu Y. Liu[1], Andrew J. Chamberlin[1], Isabel J. Jones[1], Pretom Shome[1], Gilles Riveau[2], Raphael A. Ndione[3], Lydie Bandagny[2], Nicolas Jouanard[2], Paul V. Eck[4], Ton Ngo[4], Susanne H. Sokolow[1], Giulio A. De Leo[1]
[1]Stanford University, Stanford, CA, United States, [2]2Centre de Recherche Biomédicale Espoir pour la Santé, Saint-Louis, Senegal, [3]Centre de Recherche Biomédicale Espoir pour la Santé, Saint-Louis, Senegal, [4]IBM Silicon Valley Lab, San Jose, CA, United States

8:50 a.m. 920

USING IMAGE-RECOGNITION SOFTWARE TO STRENGTHEN THE CAPACITY OF COMMUNITY HEALTH WORKERS

Emily W. Gower[1], Juan Prieto[1], Hina Shah[1], Kasey Jones[2], Hashiya Kana[1], Jerusha Weaver[1], Scott McPherson[2], Robert Chew[2], Rebecca Flueckiger[2]
[1]UNC Chapel Hill, Chapel Hill, NC, United States, [2]RTI International, RTP, NC, United States

9 a.m. 921

INCORPORATION OF SARS-COV-2 ANTIGENS INTO AN EXISTING MULTIPLEX BEAD ASSAY FOR INTEGRATED SEROLOGICAL SURVEILLANCE OF NEGLECTED TROPICAL AND OTHER DISEASES

Sarah Gwyn[1], Ado Abubakar[2], Oluwaseun Akinmulero[2], Eric Bergeron[1], Jasmine Chaitram[1], Ayuba Dawurung[2], Felicia Nwatu Dickson[2], Mudiaga Esiekpe[2], Erasogie Evbuomwan[3], Stacie Greby[4], Nnaemeka Iriemenam[4], Thomas Andrew Naanpoen[2], Loveth Napoloen[2], McPaul Okoye[4], Temitope Olaleye[2], Amy J. Schuh[1], S. Michele Owen[1], Awala Samuel[2], Diana Martin[1]
[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Institute of Human Virology, Abuja, Nigeria, [3]Nigeria Centre for Disease Control, Abuja, Nigeria, [4]Centers for Disease Control and Prevention, Abuja, Nigeria

Scientific Session 88

Malaria: Genetics, Genomics and Modeling

Meeting Room 6
Saturday, November 20
8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

CHAIR

Sarah Volkman
Harvard School of Public Health, Boston, MA, United States

Sachel Mok
Columbia University Medical Center, New York, NY, United States

8 a.m. 922

COMPLETE GENETIC ATTENUATION OF *P. BERGHEI* THROUGH A LIVER STAGE-SPECIFIC CRISPR-RGR GENE DELETION STRATEGY

Lucia Pazzagli[1], Antonella Turco[1], Gloria Iacomelli[1], Michela Anna Gucciardino[1], Giulia Monacchia[1], Max Lombardi[1], Matthew Peirce[1], Scott E. Lindner[2], **Roberta Spaccapelo**[1]
[1]University of Perugia, Perugia, Italy, [2]Pennsylvania State University, Pennsylvania, PA, United States

8:10 a.m. 923

A NOVEL K13 MUTATION MEDIATES *PLASMODIUM FALCIPARUM* RESISTANCE TO OZ439

Sachel Mok[1], Barbara H. Stokes[1], Anna Y. Burkhard[1], Tomas Yeo[1], Jennifer Small-Saunders[1], John Okombo[1], Manuel Llinás[2], David A. Fidock[1]
[1]Columbia University Medical Center, New York, NY, United States, [2]The Pennsylvania State University, University Park, PA, United States

(ACMCIP Abstract)

8:20 a.m. 924

MITOCHONDRIA AND APICOPLAST INHERITANCE PATTERNS IN *PLASMODIUM FALCIPARUM* GENETIC CROSSES SUGGEST INCOMPATIBILITIES ACROSS THE LIFE CYCLE

Sudhir Kumar[1], Xue Li[2], Meseret T. Haile[1], Biley A. Abatiyow[1], Ann Reyes[2], Marina McDew-White[2], Spencer Y. Kennedy[1], Nelly M. Camargo[1], Lisa A. Checkley[3], Katelyn M. Vendrely[3], Katrina A. Button-Simons[3], Ian H. Cheeseman[2], Stefan H. Kappe[1], François Nosten[4], Michael T. Ferdig[3], Tim J. Anderson[2], Ashley M. Vaughan[1]
[1]Seattle Children's Research Institute, Seattle, WA, United States, [2]Texas Biomedical Research Institute, San Antonio, TX, United States, [3]Department of Biological Sciences, University of Notre Dame, Notre Dame, IN, United States, [4]Shoklo Malaria Research Unit, Mahidol-Oxford Tropical Medicine Research Unit, Faculty of Tropical Medicine, Mahidol University, Mae Sot, Thailand

8:30 a.m.

925

FINE-SCALE RELATEDNESS ANALYSIS REVEALS THE RECENT EPIDEMIOLOGICAL HISTORY OF *P. FALCIPARUM* POPULATIONS IN THE PACIFIC COAST REGION OF SOUTH AMERICA

Angela M. Early[1], Manuela Carrasquilla[2], Aimee R. Taylor[2], Angélica Knudson[3], Diego F. Echeverry[4], Timothy J. Anderson[5], Sónia Gonçalves[6], Dominic P. Kwiatkowski[6], Caroline O. Buckee[2], Julian C. Rayner[7], Fabián E. Sáenz[8], Daniel E. Neafsey[2], Vladimir Corredor[3]

[1]Broad Institute, Cambridge, MA, United States, [2]Harvard T.H.Chan School of Public Health, Boston, MA, United States, [3]Universidad Nacional de Colombia, Bogota, Colombia, [4]Universidad del Valle, Cali, Colombia, [5]Texas Biomedical Research Institute, San Antonio, TX, United States, [6]Wellcome Sanger Institute, Hinxton, United Kingdom, [7]University of Cambridge, Cambridge, United Kingdom, [8]Pontificia Universidad Católica del Ecuador, Quito, Ecuador

8:40 a.m.

926

EPIDEMIOLOGICAL AND GENETIC MODELING OF MALARIA TRANSMISSION OFFERS AN IN-SILICO APPROACH TO UNDERSTAND GENETIC FEATURES AND TRANSMISSION PROPERTIES FROM EMPIRICAL DATA

Jessica V. Ribado[1], Albert Lee[1], Jonathan Russell[1], Christopher Lorton[1], Clinton Collins[1], Sharon Chen[1], Katherine Battle[1], Dan Bridenbecker[1], Edward Wenger[1], Stephen F. Schaffner[2], Wesley Wong[3], Akanksha Khorgard[2], Angela M. Early[2], Rachel Daniels[2], Aida Badiane[4], Fatou Ba Fall[5], Alioune Badara Gueye[5], Moustapha Cisse[5], Awa B. Deme[6], Ibrahima Diallo[5], Yaye Die Ndiaye[6], Medoune Ndiop[5], DouDou Sene[5], Bronwyn MacInnis[2], Daniel L. Hartl[7], Sarah K. Volkman[3], Dyann F. Wirth[3], Daouda Ndiaye[5], Caitlin Bever[1], Joshua L. Proctor[1]

[1]Institute for Disease Modeling, Seattle, WA, United States, [2]Broad Institute of MIT and Harvard, Cambridge, MA, United States, [3]Harvard T.H. Chan School of Public Health, Boston, MA, United States, [4]Cheikh Anta Diop University, Dakar, Senegal, [5]Senegal National Malaria Control Program, Dakar, Senegal, [6]Dantec Teaching and Research Hospital, Dakar, Senegal, [7]Harvard University, Cambridge, MA, United States

8:50 a.m.

927

THRIVING STUDENTS, THRIVING COMMUNITIES: THE IMPACT AND COST-EFFECTIVENESS OF SCHOOL-BASED MALARIA CHEMOPROPHYLAXIS

Joshua G. Suresh[1], Marita Zimmermann[1], Lauren M. Cohee[2], Miriam K. Laufer[2], Sarah Staedke[3], Chris Drakely[3], Catherine Maiteki-Sebuguzi[4], Don Mathanga[5], Caitlin Bever[1]

[1]Institute for Disease Modeling at Bill & Melinda Gates Foundation, Seattle, WA, United States, [2]University of Maryland School of Medicine, College Park, MD, United States, [3]London School of Hygiene & Tropical Medicine, London, United Kingdom, [4]Ministry of Health Uganda, Kampala, Uganda, [5]University of Malawi, Blantyre, Malawi

9 a.m.

928

USING MATHEMATICAL MODELING TO EXPLORE THE POTENTIAL EFFECT SIZE OF A SEASONAL MALARIA CHEMOPREVENTION TRIAL IN KARAMOJA SUB-REGION, UGANDA

Branwen Nia Owen[1], Munir Winkel[1], Laura Skrip[1], Craig Bonnington[2], Jane Achan[3], Jimmy Opigo[4], James Tibenderana[3], Emilie Pothin[5]

[1]Swiss TPH, Basel, Switzerland, [2]Malaria Consortium, London, United Kingdom, [3]Malaria Consortium, Kampala, Uganda, [4]National Malaria Control Programme, Kampala, Uganda, [5]Swiss TPH / Clinton Health Access Initiative, Basel, Switzerland

Symposium 89

Vector Ecology and Host Immune Responses Influencing Tick-Borne Viral Emergence of Global Health Concern

Meeting Room 7

Saturday, November 20

8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

Previous experience from recent Ebola outbreaks showed that a rapid response was dependent on years of prior fundamental research into Ebola virology, pathogenesis, and in the development of possible countermeasures. Lessons learned suggest fundamental research into emerging and re-emerging infectious diseases that could occur periodically and unexpectedly is required years in advance of an outbreak. The primary goal of this symposium is to provide an overview of our current understanding of the ecology, epidemiology, and pathogenesis of tick-borne viruses which have the potential for emergence, and which could result in global outbreaks. The symposium will include presentations on tick-borne encephalitis virus, Powassan virus, Crimean-Congo hemorrhagic fever virus (CCHFV), severe fever with thrombocytopenia syndrome virus (SFTSV) and Heartland virus; all of which are considered emergent viruses that pose a major public health concern. For example, SFTSV is a tick-borne bunyavirus which emerged in 2009 and is now a commonly recognized viral infection Asia. Thus, this topic is timely as understanding the factors influencing viral emergence will help to inform future preparedness efforts.

CHAIR

Saravanan Thangamani
SUNY Upstate Medical University, Syracuse, NY, United States

Rodolfo M. Alarcon
NIH, Rockville, MD, United States

8 a.m.
INTRODUCTION

8:10 a.m.
NEW DIMENSIONS IN THE STUDY OF TICK-BORNE FLAVIVIRUS INFECTIONS.

Marshal Bloom
NIAID, NIH, Hamilton, MT, United States

8:30 a.m.
PATHOGENESIS OF SFTSV INFECTION

Patricia V. Aguilar
University of Texas Medical Branch, Galveston, TX, United States

8:50 a.m.
AN OVERVIEW OF THE ECOLOGY AND EMERGENCE POTENTIAL OF HEARTLAND VIRUS IN THE UNITED STATES.

Aaron Brault
CDC, Fort Collins, CO, United States

9:10 a.m.
MOLECULAR EPIDEMIOLOGY AND PATHOGENESIS OF CRIMEAN-CONGO HEMORRHAGIC FEVER VIRUS
Christina Spiropoulou
Viral Special Pathogens Branch, CDC, Atlanta, GA, United States

Symposium 90

Recipe for Disaster: Undernutrition and Infectious Diseases

Meeting Room 8
Saturday, November 20
8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

Two major causes of mortality and morbidity in the Global South are undernutrition and infectious diseases. Decades of research have shown the interconnectedness of infection and nutritional status. A vicious cycle of undernutrition and infection plays out every day in the tropical and subtropical regions of the globe. Undernutrition can blunt the innate and adaptive immune response to a diverse range of pathogens. Infections can have profound effects on the nutritional status through decreased dietary intake, loss of endogenous nutrients, and malabsorption. Children are particularly vulnerable to this double burden of undernutrition and infectious diseases with potentially lifelong consequences for growth, cognition and metabolism. This symposium will discuss conceptual frameworks for understanding the association between undernutrition and infectious diseases. Using the examples of repeated enteric infections that lead to enteropathy, HIV, tuberculosis, and COVID-19 the presenters will explore the bidirectional relationship between infectious diseases and deficiencies in both macronutrients and micronutrients. To conclude, there will be a moderated discussion on the challenges of implementing effective and affordable nutritional interventions and strategies for overcoming them.

CHAIR
Pranay Sinha
Boston Medical Center, Boston, MA, United States
Richard Guerrant
University of Virginia, Charlottesville, VA, United States

8 a.m.
INTRODUCTION

8:10 a.m.
CAUSAL CHALLENGES IN FRAMING THE PATHWAYS BETWEEN UNDERNUTRITION AND INFECTIOUS DISEASES
Debbie Humphries
Yale School of Public Health, New Haven, CT, United States

8:30 a.m.
UNDERNUTRITION IS A CAUSE AND CONSEQUENCE OF ENTERIC DISEASE AMONG CHILDREN IN LOW-RESOURCE SETTINGS
Elizabeth T. Rogawski
University of Virginia, Charlottesville, VA, United States

8:50 a.m.
WHY FOOD IS BETTER THAN ISONIAZID: THE ROLE OF NUTRITION IN THE TB EPIDEMIC
Natasha S. Hochberg
Boston University, Boston, MA, United States

9:10 a.m.
VITAMIN D AND INFECTIOUS DISEASE: CURRENT EVIDENCE AND FUTURE DIRECTIONS
Wafaie Fawzi
Harvard TH Chan School of Public Health, Boston, MA, United States

9:30 a.m.
IMPLEMENTING NUTRITIONAL SUPPORT IN A LARGE FIELD-BASED CONTROLLED TRIAL: EXPERIENCES AND INSIGHTS
Anurag Bhargava
Yenepoya Medical College, Yenepoya, Mangalore, India

Scientific Session 91

Mosquitoes-Vector Biology-Epidemiology I

Meeting Room 9
Saturday, November 20
8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

CHAIR
Solomon Kibret
West Valley Mosquito and Vector Control District, Ontario, CA, United States
Rex B. Mbewe
Michigan State University, East Lansing, MI, United States

8 a.m. **929**

BLOOD FEEDING ON HUMANS VACCINATED WITH AGS-V PLUS, A MOSQUITO SALIVARY PEPTIDE VACCINE, IMPAIRS THE REPRODUCTIVE CAPACITY OF FEMALE AEDES ALBOPICTUS MOSQUITOES
Joshua R. Lacsina[1], Mara T. Short[1], Timothy R. Wilson[1], DeAnna J. Friedman-Klabanoff[2], Megan Birkhold[3], Allyson Mateja[4], Sally Hunsberger[5], Fabiano Oliveira[1], Shaden Kamhawi[1], Gregory Stoloff[6], Olga Pleguezuelos[6], Matthew J. Memoli[7], Matthew B. Laurens[2], Jesus G. Valenzuela[1]
[1]Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, Rockville, MD, United States, [2]Center for Vaccine Development and Global Health, University of Maryland School of Medicine, Baltimore, MD, United States, [3]Department of Surgery, University of Maryland School of Medicine, Baltimore, MD, United States, [4]Clinical Monitoring Research Program Directorate, Frederick National Laboratory for Cancer Research, Frederick, MD, United States, [5]Biostatistics Research Branch, National Institute of Allergy and Infectious Diseases, Rockville, MD, United States, [6]Imutex Limited, London, United Kingdom, [7]LID Clinical Studies Unit, Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

8:10 a.m. **930**

AEDES ALBOPICTUS BLOOD FEEDING BEHAVIOR: FROM LAB TO FIELD
Kara Fikrig, Laura Harrington
Cornell University, Ithaca, NY, United States

8:20 a.m.

931

BLOOD MEAL SOURCES AND NONRANDOM HUMAN SELECTION BY ANOPHELES VECTORS OF HUMAN MALARIA IN MALAWI: IMPLICATIONS FOR MALARIA TRANSMISSION

Rex B. Mbewe[1], John B. Keven[2], Charles Mangani[3], Mark L. Wilson[4], Themba Mzilahowa[3], Don Mathanga[3], Clarissa Valim[5], Miriam K. Laufer[6], Lauren M. Cohee[6], Edward D. Walker[1]

[1]Department of Entomology, Michigan State University, East Lansing, MI, United States, [2]Department of Microbiology and Molecular Genetics, Michigan State University, East Lansing, MI, United States, [3]Malaria Alert Center, College of Medicine, University of Malawi, Blantyre, Malawi, [4]Department of Epidemiology School of Public Health, University of Michigan, Ann Arbor, MI, United States, [5]Department of Global Health, Boston University School of Public Health, Boston, MA, United States, [6]Center for Vaccine Development and Global Health, University of Maryland School of Medicine, Baltimore, MD, United States

8:30 a.m.

932

IMPACT OF RANDOMIZED WMEL WOLBACHIA DEPLOYMENTS ON NOTIFIED DENGUE CASES AND INSECTICIDE FOGGING FOR VECTOR CONTROL IN YOGYAKARTA CITY

Citra Indriani[1], Stephanie K. Tanamas[2], Katherine L. Anders[2], Suzanne M. Dufault[3], Rubangi Rubangi[4], Riris A. Ahmad[1], Adi Utarini[1], Cameron P. Simmons[2]

[1]Centre of Tropical Medicine, Faculty of Medicine, Public Health and Nursing, Universitas Gadjah Mada, Sleman, Indonesia, [2]World Mosquito Program, Institute of Vector-borne Disease, Monash University, Clayton, Australia, [3]Division of Biostatistics, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, [4]Disease Control Department, Yogyakarta City Health Office, Yogyakarta City, Indonesia

8:40 a.m.

933

NATURAL WOLBACHIA DETECTED IN WILD ANOPHELES STEPHENSI IN EASTERN ETHIOPIA

Elizabeth Waymire[1], Sowmya Duddu[1], Solomon Yared[2], Dejene Getachew[3], Dereje Dengala[4], Meshesha Balkew[5], Sarah Zohdy[6], Seth Irish[6], Tamar Carter[1]

[1]Baylor University, Waco, TX, United States, [2]Jijiga University, Jijiga, Ethiopia, [3]Dire Dawa University, Dire Dawa, Ethiopia, [4]PMI VectorLink Ethiopia Project, Abt Associates, Addis Ababa, Ethiopia, [5 p.m.]I VectorLink Ethiopia Project, Abt Associates, Addis, Ethiopia, [6]U.S. President's Malaria Initiative and Entomology Branch, Centers for Disease Control and Prevention, Atlanta, GA, United States

8:50 a.m.

934

SUCCESSFUL CRYOPRESERVATION OF MOSQUITO (ANOPHELES STEPHENSI) EGGS

Eric R. James[1], James Overby[1], Yingda Wen[2], Kristen Pluchino[3], Shane McTighe[4], Abraham Eappen[1], Stephen L. Hoffman[1], Peter F. Billingsley[1]

[1]Sanaria Inc, Rockville, MD, United States, [2]Trancenta Holding, Princeton, NJ, United States, [3]FDA, Silver Spring, MD, United States, [4]WRNMMC, Rockville, MD, United States

9 a.m.

935

MICROBES INCREASE THERMAL SENSITIVITY IN THE MOSQUITO, *AEDES AEGYPTI*, WITH THE POTENTIAL TO CHANGE DISEASE DISTRIBUTIONS

Fhallon Ware-Gilmore[1], Carla Sgrò[2], Zhiyong Xi[3], Heverton Dutra[1], Matthew Jones[1], Katriona Shea[1], Matthew Hall[4], Matthew Thomas[5], Elizabeth McGraw[1]

[1]Pennsylvania State University, State College, PA, United States, [2]Monash University, Melbourne, Australia, [3]Michigan State University, East Lansing, MI, United States, [4]Monash, Melbourne, Australia, [5]York Environmental Sustainability Institute, York, United Kingdom

Symposium 92

Clinical Development of New Treatments to Support the Global Elimination of Onchocerciasis

Meeting Room 10

Saturday, November 20

8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

The World Health Organization has recently targeted onchocerciasis (River Blindness) for global elimination. Although foci of infection remain in South America and Yemen, more than 99% of the global disease burden is in Africa. WHO and the Global Burden of Disease project estimate that approximately 20 million people are currently infected and that some 150 million people are at risk for the infection in 31 African countries. Community-wide mass drug administration (MDA) with ivermectin has been the primary tool employed for onchocerciasis control for more than 30 years. The Nobel committee's 2015 recognition of ivermectin's discovery was fully justified, because this miracle drug has been remarkably effective for preventing ocular and skin disease and for reducing parasite transmission by Simulium flies. Merck's decision to donate ivermectin for onchocerciasis control and the Mectizan Donation Program broke new ground in regarding corporate responsibility in global health that paved the way for similar donation programs by other drug companies. Having said that, it is clear that ivermectin is not an ideal tool for the onchocerciasis elimination program. Although the drug quickly clears microfilariae (Mf) from the skin and temporarily blocks Mf production by adult worms, it has little macrofilarcidal (adult worm killing) activity. Long-lived, coiled adult worms that reside in subcutaneous nodules resume Mf production a few months after ivermectin treatment. Although most endemic foci in the Americas and several in Africa have eliminated onchocerciasis with ivermectin after many repeated rounds of MDA, the infection persists in many areas despite 10 years or more of MDA. Thus, more effective treatments would greatly increase prospects for elimination of the disease across Africa. The speakers who have agreed to speak in this symposium are outstanding leaders in clinical research on onchocerciasis. They will discuss some of the practical challenges of conducting trials of new treatments for onchocherciasis. More importantly, they will review the most promising drug candidates that are currently being evaluated, the current status of clinical trials, and plans for further clinical development.

CHAIR

Gary J. Weil
Washington University School of Medicine, St. Louis, MO, United States

Christy L. Hanson
Bill & Melinda Gates Foundation, Seattle, WA, United States

8 a.m.
INTRODUCTION

8:10 a.m.
CLINICAL TRIALS TO TEST NEW TREATMENTS FOR ONCHOCERCIASIS AT THE UNIVERSITY OF HEALTH AND ALLIED SCIENCES IN GHANA
Nicholas Obuobisa Opoku
University of Health and Allied Sciences, Ho, Ghana

8:30 a.m.
DOXYCYCLINE AND BEYOND - PROS AND CONS OF ANTI-WOLBACHIA DRUGS AGAINST ONCHOCERCIASIS
Achim M. Hoerauf
University of Bonn Medical Center, Bonn, Germany

8:50 a.m.
REPURPOSING AND INNOVATIVE TRIAL DESIGNS TO EVALUATE NEW TREATMENTS FOR ONCHOCERCIASIS
Sabine Specht
DNDi, Geneva, Switzerland

9:10 a.m.
DEVELOPING MOXIDECTIN AS A TOOL FOR ELIMINATION OF ONCHOCERCIASIS: THE PATH TO COMMUNITY USE
Mark Sullivan
Medicines Development for Global Health, Melbourne, Australia

Symposium 93

Intermittent Preventive Treatment for Malaria in Infants with Sulfadoxine-Pyrimethamine (SP-IPTi): Fit for Purpose in 2021?

Meeting Room 11
Saturday, November 20
8 a.m. – 9:45 a.m. U.S. Eastern Time Zone

Intermittent Preventive Treatment for malaria in infants with sulfadoxine-pyrimethamine (SP-IPTi) has been a WHO recommended intervention since 2010 but has only been implemented as policy in one country, Sierra Leone in 2017. Countries are moving to stratified approaches for implementing malaria control and elimination, and asking questions of which chemoprevention strategies should be implemented and where. SP-IPTi is appearing in strategic plans across Africa, but what barriers to implementation will SP-IPTi face, and how can SP-IPTi be optimized to provide protection to the most in need across different settings in Africa? This symposium seeks to describe the challenges and ask important questions that face SP-IPTi as an intervention and threaten scale-up of this strategy. Seven African countries have included IPTi in their National Strategic Plans and are being supported by the Global Fund. Recent investments by the Bill & Melinda Gates Foundation and the EDCTP that focus on optimizing and adapting SP-IPTi to fit country needs will provide the entry point to the topic. These projects starting in 2021 and encompassing high-burden countries across Africa will attempt to understand what are the barriers to SP-IPTi policy uptake, what evidence is needed to support policy choices, and how can SP-IPTi be adapted to suit local needs, including delivery platforms in addition to the Expanded Program of Immunization and targeting children into the second year of life? Specifically, the symposium will cover: the learnings from 3 years of SP-IPTi implementation in Sierra Leone and proposed adaptations that will be tested in Sierra Leone; the practicalities of choosing chemopreventive strategies across heterogenous country settings: the experience in Cameroon; addressing the evidence needs for SP-IPTi in Nigeria; and exploring the opportunities for adaptation of SP-IPTi to fit country needs using a bottom-up co-creation design approach. Across symposium presentations, speakers will reflect on cross cutting issues regarding: the drug SP (relating to safety, drug interactions, tolerability, drug resistance and supply); malaria transmission intensity and timing and age of dosing; choice of delivery channels to maximize coverage and equity; and considerations in selecting interventions (such as Seasonal Malaria Chemoprevention and RTS,S vaccination), which target the same risk group and their potential for synergy and complementarity. This symposium will highlight the real-life challenges that countries are dealing with when choosing combinations of interventions for different malaria control strata. Relevant issues include cost-effectiveness and impact. Presentations will outline how investments to support scale up of SP-IPTi will support these decisions.

CHAIR
Roly D. Gosling
University of California San Francisco, San Francisco, CA, United States
David Schellenberg
World Health Organization, Geneva, Switzerland

8 a.m.
INTRODUCTION

8:10 a.m.
INTRODUCTION
David Schellenberg
World Health Organization, Geneva, Switzerland

8:25 a.m.
LEARNINGS FROM 3 YEARS OF SP-IPTI IMPLEMENTATION IN SIERRA LEONE AND PROPOSED ADAPTATIONS THAT WILL BE TESTED IN SIERRA LEONE
Clara Menendez
Barcelona Institute for Global Health, Barcelona, Spain

8:40 a.m.
THE PRACTICALITIES OF CHOOSING CHEMOPREVENTIVE STRATEGIES ACROSS HETEROGENOUS COUNTRY SETTINGS: THE EXPERIENCE IN CAMEROON
Dorothy Kah Fosah Achu
National Malaria Control Program of the Ministry of Public Health in Cameroon, Yaounde, Cameroon

8:55 a.m.
ADDRESSING THE EVIDENCE NEEDS FOR SP-IPTI IN NIGERIA
Olusola B. Oresanya
Malaria Consortium, Abuja, Nigeria

9:10 a.m.
EXPLORING THE OPPORTUNITIES FOR ADAPTATION OF SP-IPTI TO FIT COUNTRY NEEDS USING A BOTTOM-UP CO-CREATION DESIGN APPROACH
Sian E. Clarke
London School of Hygiene & Tropical Medicine, London, United Kingdom

Break

Saturday, November 20
9:45 a.m. – 10:15 a.m. U.S. Eastern Time Zone

Plenary Session 94

Plenary Session IV: President's Address

Grand Ballroom
Saturday, November 20
10:15 a.m. - 11 a.m. U.S. Eastern Time Zone

10:15 a.m.
INTRODUCTION
Alan Brooks
Bridges to Development, Geneva, Switzerland

10:30 a.m.
PRESIDENT'S ADDRESS:
A BRAVE NEW WORLD

Julie Jacobson, MD, DTMH
Managing Partner
Bridges to Development
Seattle, WA, United States

Julie Jacobson is a physician with training in clinical tropical medicine and applied epidemiology. She has worked clinically, in the laboratory, in operational research, philanthropy, and in educational roles supporting creative problem solving and partnerships to tackle global health challenges. She has recently co-founded a non-profit organization focused on health and education in low and middle income countries. Bridges to Development was established based on the beliefs that health and education are critical bridges to sustainable global development bringing new interventions and solutions to where they will have highest impact. Previously, she worked for almost 12 years with the Bill & Melinda Gates Foundation supporting activities and investments working toward the control and elimination of neglected tropical diseases (NTDs) on the Neglected Tropical Diseases Team. She worked on the Global Health team supporting research and delivery related activities and played a formative role in the development of the Neglected Tropical Diseases (NTD) Team at the foundation. She lead the creation of the London Declaration on NTDs building a new innovative partnership to support achieving the WHO 2020 targets for ten neglected diseases, Uniting to Combat NTDs, and is the first and current Chair of their governing body, the Stakeholders Working Group. Prior to this at PATH, she worked with the Children's Vaccine Program in the start up of Gavi and was the founder and director of the JE Project developing surveillance networks and introducing JE vaccine into low income endemic countries.

Poster Session 95

Poster Session C

Poster Hall

Saturday, November 20

11 a.m. - 12:30 p.m. U.S. Eastern Time Zone

Poster Session C Directory

Global Health - Information/Communication/Technologies Solutions in Global Health including Modeling: 936-949

Global Health – Other: 950-960

Global Health - Security/Emerging Infection Preparedness, Surveillance and Response(s): 961-978

Ectoparasite-Borne Disease - Babesiosis and Lyme Disease: 979-984

Ectoparasite-Borne Disease – Other: 985-993

Mosquitoes - Insecticide Resistance and Control: 994-1004

Mosquitoes - Vector Biology-Epidemiology: 1005-1018

Flaviviridae – Dengue: 1019-1032

Viruses – Other: 1033-1047

Malaria - Biology and Pathogenesis: 1048-1058

Malaria - Chemotherapy and Drug Resistance: 1059-1071

Malaria – Diagnosis: 1072-1085

Malaria – Epidemiology: 1086-1111

Malaria – Immunology: 1112-1121

Malaria – Operational: 1122- 1137

Malaria – Prevention: 1138-1149

Malaria - Strategies for Elimination: 1150-1159

Malaria – Vaccines: 1160-1176

Malaria - Vector Control: 1177-1196

Bacteriology - Other Bacterial Infections: 1197-1206

Bacteriology - Systemic Infections: 1207-1209

Bacteriology – Trachoma: 1210-1211

Clinical Tropical Medicine: 1212-1226

Helminths - Nematodes - Filariasis (Immunology): 1227-1229

Helminths - Nematodes - Filariasis (Other): 1230-1235

Helminths - Nematodes - Intestinal Nematodes: 1236-1243

Kinetoplastida - Epidemiology (Including Leishmania and Trypanosomes): 1244-1250

Kinetoplastida - Immunology (Including Leishmania and Trypanosomes): 1251

Pneumonia, Respiratory Infections and Tuberculosis: 1252-1262

Schistosomiasis and Other Trematodes – Epidemiology and Control: 1263-1274

Global Health – Information/ Communication/Technologies Solutions in Global Health including Modeling

936

COMPARISON OF STATISTICAL METHODS FOR ANALYSIS OF RECURRENT ADVERSE EVENTS IN THE PRESENCE OF NON-PROPORTIONAL HAZARDS AND UNOBSERVED HETEROGENEITY: A SIMULATION STUDY

Noel Patson[1], Marinus Eijkemans[2], Mavuto Mukaka[3], Don Mathanga[4], Mirium K. Laufer[5], Lawrence Kazembe[6], Tobias Chirwa[1]

[1]School of Public Health, University of the Witwatersrand, Johannesburg, South Africa, [2]Julius Center for Health Sciences and Primary Care, University Medical Center Utrecht, Utrecht University, Utrecht, Netherlands, [3]Centre for Tropical Medicine, Nuffield Department of Medicine, University of Oxford, Oxford, United Kingdom, [4]School of Public health and Family medicine, College of Medicine, University of Malawi, Blantyre, Malawi, [5]Center for Vaccine Development and Global Health, University of Maryland, School of Medicine, Baltimore, MD, United States, [6]Department of Biostatistics, University of Namibia, Windhoek, Namibia

937

MODELLING THE EFFECT OF PHARMACEUTICAL AND NON-PHARMACEUTICAL INTERVENTIONS IN THE DYNAMICS OF COVID-19 - A COMPARISON BETWEEN SWEDEN AND THE CZECH REPUBLIC

Patience Bwanu Iliya[1], Kristan Alexander Schneider[2]

[1]African Institute for Mathematical Sciences, Limbe, Cameroon, [2]Hochschule Mittweida, University of Applied Sciences, Mittweida, Germany

938

SPATIAL VIDEO, GEONARRATIVES AND MACHINE LEARNING CONTEXTUALIZATION DISEASE LANDSCAPES

Andrew Curtis[1], Jayakrishnan Ajayakumar[1], Sandra Bempah[2]

[1]Case Western Reserve University, Cleveland, OH, United States, [2]Kent State University, Kent, OH, United States

939

USING TECHNOLOGY FOR INSECTICIDE-TREATED NET (ITN) DISTRIBUTIONS - IS IT WORTH IT AND WHY?

Kathryn Clifton[1], Zainab Ali[2], Elijah Egwu[2], Anusha Eregowda[3], Apoorv Pal[1], Suzanne Van Hulle[1], Paul S. Wiedmaier[1], Diwe Ekweremadu[2], Sonachi Ezeiru[2]

[1]Catholic Relief Services, Baltimore, MD, United States, [2]Catholic Relief Services, Abuja, Nigeria, [3]George Mason University, Fairfax, VA, United States

940

ESTIMATING THE IMPACT OF COVID-19 ON HOSPITAL ATTENDANCE IN NIGERIA USING ROUTINE NATIONAL HEALTH MANAGEMENT INFORMATION SYSTEM DATA

Justus Uzim[1], Emeka Okechukwu[1], Gertrude Odezugo[1], Emma Mtiro[1], David Onime[1], Paul McDermott[1], Ngozi Azodoh[2]

[1]USAID Nigeria, Abuja, Nigeria, [2]Federal Ministry of Health, Department of Health Planning Research and Statistics, Abuja, Nigeria

941

DEVELOPING A SPATIAL GRID-BASED TECHNIQUE FOR REPRESENTATIVE SAMPLING IN POPULATION-BASED SURVEYS USING MACHINE LEARNING AND GEOGRAPHIC INFORMATION SYSTEM

Abu Yousuf Md Abdullah[1], Kyu Han Lee[2], Asraful Alam[1], Sanwarul Bari[1], Emily S. Gurley[2], Solveig Argeseanu Cunningham[3], Shams El Arifeen[1], Atique Iqbal Chowdhury[1]
[1]International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, [2]Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [3]Hubert Department of Global Health, Rollins School of Public Health, Emory University, Atlanta, GA, United States

942

MACHINE LEARNING APPROACHES FOR COVID-19 MISINFORMATION AND VACCINE ACCEPTANCE IN AFRICA

Melody Swen, Rhys O'Neill
Novetta, McLean, VA, United States

943

EVERY CHILD COUNTS: REACHING ZERO-DOSE CHILDREN USING GEOSPATIAL DATA & TECHNOLOGY

Kyle Hutchinson[1], Jade Yangyupei Yang[2], Gloria Musukwa[3], Julie Dohert[1], Philimon Ndubani[3], Francis D. Mwansa[4], Simon Mutembo[2]
[1]Akros, Lusaka, Zambia, [2]Johns Hopkins University, Baltimore, MD, United States, [3]Macha Research Trust, Macha, Zambia, [4]Ministry of Health, Lusaka, Zambia

944

ADOPTION OF LOCAL GOVERNMENT AREA PEER MENTORING IMPROVES DATA QUALITY MANAGEMENT ACROSS LOCAL GOVERNMENT AREAS IN CROSS RIVER STATE, NIGERIA

Linda-Kaka Enyia[1], Victor Bassey[1], Augustine Firima[1], Isu Elemi Edu[2], Edet Bassey[2], Abba Umar[3], Abimbola Olayemi[3], Paul Waibale[4], Uchenna Nwokenna[3], Kazeem Ayankola[3], Thomas Hall[5], Ratha Loganathan[5]
[1]Management Sciences for Health, Calabar, Nigeria, [2]State Malaria Elimination Programme, Cross River State, Calabar, Nigeria, [3]Management Sciences for Health, Abuja, Nigeria, [4]Management Sciences for Health, Kampala, Uganda, [5]Management Sciences for Health, Arlington, VA, United States

945

THE ROLE OF GEOSPATIAL DATA IN GLOBAL HEALTH

Jaymia Ecker, Annie Werner, Emily Boytinck
Columbia University, Palisades, NY, United States

946

DATA QUALITY IMPROVEMENT IN MALARIA PROGRAM USING SOCIAL MEDIA MESSAGING AS A SUPERVISION TOOL IN CROSS RIVER STATE, NIGERIA

Victor Bassey[1], Linda-Kaka Enyia[1], Kenechukwu Ugbene[1], Oluwatobiloba Akerele[1], Paul Waibale[2], Abba Umar[3], Uchenna Nwokenna[3], Kazeem Ayankola[3], Abimbola Olayemi[3], Thomas Hall[4], Ratha Loganathan[4], Janet Ekpenyong[5], Iwara Iwara[5]
[1]Management Sciences for Health, Calabar, Nigeria, [2]Management Sciences for Health, Kampala, Uganda, [3]Management Sciences for Health, Abuja, Nigeria, [4]Management Sciences for Health, Arlington, VA, United States, [5]State Malaria Elimination Programme, Cross River State, Calabar, Nigeria

947

ASSESSING THE IMPACT OF COVID-19 ON THE UTILIZATION OF PUBLIC HEALTH SERVICES IN 2020 ON BIOKO ISLAND, EQUATORIAL GUINEA

Jeremias Nzamio Eyono[1], Norberto Bosepa Cuba Cuba[1], Wonder P. Phiri[1], Godwin Fuseini[1], Carlos A. Guerra[2], Jordan M. Smith[2], Guillermo A. García[2]
[1]Medical Care Development International, Malabo, Equatorial Guinea, [2]Medical Care Development International, Silver Spring, MD, United States

948

SARS-COV-2 MUTATIONS AND COVID-19 JABS - PREDICTING THE EFFECTS OF VACCINATION CAMPAIGNS

Nessma Adil Mahmoud Yousif[1], Henri Christian Junior Tsoungui Obama[2], Pierre Marie Ngougoue Ngougoue[1], Kristan Alexander Schneider[2]
[1]African Institute for Mathematical Sciences - Cameroon (AIMS Cameroon), Limbe, Cameroon, [2]Hochschule Mittweida, Mittweida, Germany

949

MEASURING GROWTH TRAJECTORIES OF CHILDREN UNDER 5 YEARS OF AGE: A NOVEL METHOD FOR EXTRACTING ANTHROPOMETRIC DATA FROM HEALTH CARDS

Solveig A. Cunningham[1], Ariel Nhacolo[2], Abu Mohd Naser[1], Serei Vatana Nath[1], Jonathan A. Muir[1], Parminder S. Suchdev[1], Inacio Mandomando[2], Quique Bassat[3]
[1]Emory University, Atlanta, GA, United States, [2]Centro de Investigação em Saúde de Manhiça, Maputo, Mozambique, [3]Universitat de Barcelona, Barcelona, Spain

Global Health – Other

950

ASSESSING THE IMPACT OF COVID-19 PANDEMIC IN RURAL BANGLADESH: FINDINGS FROM A CROSS-SECTIONAL SURVEY IN CHAMPS-BANGLADESH STUDY SITE

Atique Iqbal Chowdhury[1], Asraful Alam[1], Abu Yousuf Md Abdullah[1], Md. Mamunur Rashid[1], Sadeq-ur Rahman Qazi[1], Shema Mhajabin[1], Ahmed Ehsanur Rahman[1], Shams El Arifeen[1], Solveig Argeseanu Cunningham[2], Emily S. Gurley[3]
[1]International Centre for diarrhoeal disease Research, Bangladesh (icddr,b), Dhaka, Bangladesh, [2]Department of Global Health, Rollins School of Public Health, Emory University, USA, Address: 1599 Clifton Rd NE, Atlanta, GA 30322, GA, United States, [3]John Hopkins Bloomberg School of Public Health, Baltimore (ZIP code- MD 21218), MD, United States

951

REASONS FOR HOME BIRTHS IN THE BIRHAN HEALTH AND DEMOGRAPHIC SURVEILLANCE SYSTEM

Bezawit Mesfin Hunegnaw[1], Delayehu Bekele[2], Frederick G. B. Goddard[3], Yahya Mohammed[4], Kimiko Van Wickle[3], Mesfin Zeleke[4], Chalachew Bekele[4], Grace J. Chan[5]
[1]Department of Pediatrics and Child Health, St Paul's Hospital Millennium Medical College, Addis Ababa, Ethiopia, [2]Department of Obstetrics and Gynecology, St Paul's Hospital Millennium Medical College, Addis Ababa, Ethiopia, [3]Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA, United States, [4]BIRHAN HDSS, St Paul's Hospital Millennium Medical College, Addis Ababa, Ethiopia, [5]Division of Medicine Critical Care, Boston Children's Hospital, Harvard Medical School; Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA, United States

952

SEX WORK, ANTIBIOTIC USE & THE MANAGEMENT OF SEXUALLY TRANSMITTED INFECTIONS IN HARARE, ZIMBABWE: AN ETHNOGRAPHIC STUDY

Salome Manyau[1], Justin Dixon[2], Norest Mutukwa[1], Faith R. Kandiye[1], Clare Chandler[2]
[1]Biomedical Research and Training Institute, Harare, Zimbabwe, [2]London School of Hygiene & Tropical Medicine, London, United Kingdom

953

ASSESSING THE IMPACT OF COVID19 ON MALARIA TRANSMISSION IN NIGERIA AND ZIMBABWE

Olufunke A. Alaba, Akim Tafadzwa Lukwa
University of Cape Town, Cape Town, South Africa

954

GLOBAL HEALTH TRAINING DURING A PANDEMIC: LESSONS AND IMPACT ON THE FUTURE

Daniel Tisch, Peter Zimmerman
Case Western Reserve University, Cleveland, OH, United States

955

ADDRESSING GENDER EQUITY AND SOCIAL INCLUSION BARRIERS TO IMPROVE ACCESS AND UPTAKE OF SCHOOL MASS DRUG ADMINISTRATION AMONG SCHOOL-AGED CHILDREN IN TANZANIA

Isaac Njau[1], Taroub Faramand[2], Amanda Ottosson[2], Sara Pappa[2], Stella Kasindi Mwita[3], Wemaeli Anderson Mweteni[4]
[1]Ministry of Health, Community Development, Gender, Elderly and Children (MOHCDGEC), Dodoma, United Republic of Tanzania, [2]WI-HER, LLC, Vienna, VA, United States, [3]WI-HER, LLC, Dar es Salaam, United Republic of Tanzania, [4]IMA World Health, Dar es Salaam, United Republic of Tanzania

956

MULTI-SECTORAL COLLABORATION TO IMPROVE ACCESS TO MEDICINES FOR SICKLE CELL DISEASE IN SUB-SAHARAN AFRICA

Roland Hammond-Addo[1], Anthony Nsiah-Asare[2], Christine Quao[3], Charles Kiyaga[4], Jonathan M. Spector[5], Kwaku Ohene-Frempong[6]
[1]Novartis Global Health and Corporate Affairs, Accra, Ghana, [2]Office of the President of Ghana, Accra, Ghana, [3]Novartis Global Health and Corporate Affairs, East Hanover, NJ, United States, [4]Uganda Ministry of Health, Kampala, Uganda, [5]Novartis Institute for Tropical Diseases, Cambridge, MA, United States, [6]Sickle Cell Foundation of Ghana, Accra, Ghana

957

DEVELOPING GOOD LABORATORY PRACTICE IN INSECTICIDE TRIAL FACILITIES IN AFRICA: THE VITAL ROLE OF LABORATORY TECHNICIANS AND LABORATORY SUPERVISORS

Sara Begg[1], Graham Small[2], Kirsten Duda[1], Alexandra Wright[3], Imelda Bates[1]
[1]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [2]Innovative Vector Control Consortium, Liverpool, United Kingdom, [3]London School of Hygiene & Tropical Medicine, London, United Kingdom

958

THE DISPARATE BURDEN OF STRESS AND CONCERN ASSOCIATED WITH THE COVID-19 PANDEMIC: FINDINGS FROM AN ONGOING COMMUNITY-BASED CLUSTER STUDY IN CENTRAL NEW YORK

Anjlee Panjwani, Harry Taylor, Michael Conroy, Natalia DeMaria, Andrea Shaw, Julia Cramer, Megan Harris, Daniel Lichetenstein, Stephen Thomas, Frank Middleton, Kathryn B. Anderson
SUNY Upstate Medical University, Syracuse, NY, United States

959

MEASURING DIVERSITY OF SARS-COV-2 VARIANTS

Arlinda Sadiku, Kristan A. Schneider, Henri Christian Junior Tsoungui Obama
Hochschule Mittweida, Mittweida, Germany

960

A CROSS-SECTIONAL STUDY TO CHARACTERIZE CHILDHOOD ANEMIA AND INFORM CONTROL STRATEGIES IN RURAL NORTHERN, PERU

Lauralee J. Fernandez[1], Ricardo Gamboa[2], Percy Vilchez[2], William E. Lambert[1], Caren Weinhouse[3], Sarah E. Rothenberg[4], Molly L. Kile[4], Seth E. O'Neal[1]
[1]Oregon Health & Science University – Portland State University, School of Public Health, Portland, OR, United States, [2]Universidad Peruana Cayetano Heredia, Centro de Salud Global, Tumbes, Peru, [3]Oregon Institute of Occupational Health Science, Oregon Health & Science University, Portland, OR, United States, [4]School of Biological and Population Health Sciences, Oregon State University, Corvallis, OR, United States

Global Health – Security/Emerging Infection Preparedness, Surveillance and Response(s)

961

THE PANIC PHASE OF THE PANDEMIC - IMPACT OF THE EARLY PHASE OF COVID-19 ON REPRODUCTIVE, MATERNAL, NEWBORN AND CHILD HEALTH SERVICE UTILIZATION AT A TERTIARY HOSPITAL AND CATCHMENT HEALTH CENTERS IN ADDIS ABABA: A MIXED-METHOD STUDY

Delayehu Bekele[1], Ewenat Gebrehanna[1], Ferid Abas[1], Mekitie Wondafrash[2]
[1]Saint Paul's Hospital Millennium Medical College, Addis Ababa, Ethiopia, [2]Saint Paul's Institute for Reproductive Health, Addis Ababa, Ethiopia

962

COVID-19 IPC OUTCOME ASSESSMENT IN USAID MTAPS-SUPPORTED HEALTH FACILITIES

Afeke Kambui, Fozo Alombah, Andre Zagorski, Kim O. Hoppenworth, Chris Weller
Management Sciences for Health, Arlington, VA, United States

963

UTILIZATION OF FACILITY-BASED ESSENTIAL MATERNAL AND CHILD HEALTH SERVICES DURING COVID-19 PANDEMIC IN NORTH SHEWA ZONE, ETHIOPIA

Chalachew Bekele Shiferaw[1], Delayehu Bekele Mamo[2], Bezawit Mesfin Hunegnaw[3], Kimiko Wickle[4], Christine Tedijanto[5], Michelle Korte[6], Lisanu Tadesse[7], Fanos Ashenafi[1], Grace J. Chan[8]
[1]Birhan HDSS, St. Paul's Hospital Millennium Medical College, Addis Ababa, Ethiopia, [2]Department of Obstetrics and Gynecology, St. Paul's Hospital Millennium Medical College, Addis Ababa, Ethiopia, [3]Department of Pediatrics and Child Health, St. Paul's Hospital Millennium Medical College, Addis Ababa, Ethiopia, [4]Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA, United States, [5]Francis I. Proctor Foundation, University of California San Francisco, San Francisco, CA, United States, [6]Department of Global Health and Population, Harvard T.H. Chan School of Public Health, Boston, MA, United States, [7]HaSET Director, Addis Ababa, Ethiopia, [8]Division of Medicine Critical Care, Boston Children's Hospital, Harvard Medical School; Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA, United States

964

DYNAMICS IN THE OPINION OF CAMEROONIAN POPULATION REGARDING ACCEPTABILITY OF COVID-19 VACCINES: A NATIONWIDE ONE-YEAR LONGITUDINAL SURVEY FOR POLICY MAKING

Laurentine Sumo[1], Valerie Makoge[2], Gabriella Ondoua Nganjou[3], Hugues Nana Djeunga[3]
[1]University of Bamenda, Bamenda, Cameroon, [2]Medical Research Centre, Institute of Medical Research and Medicinal Plants Studies (IMPM), Yaoundé, Cameroon, [3]Centre for Research on Filariasis and Other Tropical Diseases (CRFilMT), Yaoundé, Cameroon

965

GLOBAL SURVEY OF HEALTH WORKER PERCEPTIONS OF LOCAL INFECTION PREVENTION AND CONTROL FOR COVID-19: IMPACTS AND REFLECTIONS

Jeni A. Stolow[1], Nina Gobat[2], Caitlin Pilbeam[3], Dayo Spencer-Walters[2]
[1]Temple University, Philadelphia, PA, United States, [2]WHO - World Health Emergencies Program, Geneva, Switzerland, [3]University of Oxford, Oxford, United Kingdom

966

IMPLEMENTATION OF ACUTE ILLNESS SURVEILLANCE THROUGH TEXT MESSAGING AMONG A COMMUNITY-BASED COHORT IN PONCE, PUERTO RICO

Nicole M. Pérez-Rodríguez[1], Liliana Sánchez-González[1], Chelsea G. Major[1], Olga D. Lorenzi[1], Dania Rodríguez[1], Laura E. Adams[1], Mariely Linares[2], Gladys González-Zeno[2], Jorge Muñoz-Jordán[1], Vanessa Rivera-Amill[2], Gabriela Paz-Bailey[1]
[1]Division of Vector Borne Diseases, Centers for Disease Control and Prevention, San Juan, PR, United States, [2]Ponce Health Sciences University/Ponce Research Institute and Centro Médico Episcopal San Lucas, Ponce, PR, United States

967

EFFICACY OF MOSQUITO BLOODMEAL- BASED SURVEILLANCE IN RURAL GUATEMALA

Rebekah J. McMinn[1], Andrea Chacon[2], Delaney Worthington[1], Emma Harris[1], Brian Foy[1], Molly Lamb[3], Andrea Scorza[1], Daniel Olson[3], Greg Ebel[1]
[1]Colorado State University, Fort Collins, CO, United States, [2]Fundacion Guatemalteca para la Salud y la Educacion, Ratalhue, Guatemala, [3]University of Colorado, Aurora, CO, United States

968

GLOBALLY PROMOTING COVID 19 VACCINES FOR INTERNATIONAL OIL AND GAS COMPANY

Malick Diara, Susan Ngunjiri, Candace McAlester, Muhammad W. Fazail
ExxonMobil, Spring, TX, United States

969

EXPANDING XENOSURVEILLANCE CAPABILITIES USING LONGITUDINAL DATA COLLECTED FROM HOUSEHOLDS IN RURAL GUATEMALA

Emma Harris[1], Andrea Chacon[2], Delaney Worthington[1], Rebekah McMinn[1], Brian Foy[1], Molly Lamb[3], Andrea Scorza[1], Daniel Olson[3], Gregory Ebel[1]
[1]Colorado State University, Fort Collins, CO, United States, [2]Fundacion Guatemalteca para Salud y la Educacion, Ratalhue, Guatemala, [3]University of Colorado, Aurora, CO, United States

970

ANTIMICROBIAL CONSUMPTION SURVEILLANCE IN A RESOURCE LIMITED SETTING: FINDINGS FROM 13 HOSPITALS IN UGANDA

Reuben Kiggundu, John Paul Waswa, Moses Sembatya, Marion Murungi, Hassan Kassuja
Management Sciences for Health, Kampala, Uganda

971

THE REMOTE EMERGING DISEASE INTELLIGENCE NETWORK (REDI-NET): AN INTRODUCTORY OVERVIEW

Nicole L. Achee[1], Le Jiang[2], Yvonne-Marie Linton[3], John P. Grieco[1]
[1]University of Notre Dame, Notre Dame, IN, United States, [2]Viral and Rickettsial Diseases Department, Infectious Diseases Directorate, Naval Medical Research Center, Silver Spring, MD, United States, [3]Walter Reed Biosystematics Unit (WRBU), Smithsonian Institution Museum Support Center, Suitland, MD, United States

972

COMPREHENSIVE PROFILING OF SOCIAL MIXING PATTERNS IN RESOURCE POOR COUNTRIES

Moses C. Kiti[1], Obianuju Aguolu[2], Alessia Melegaro[3], Steven Riley[4], Herberth Maldonado[5], Samuel Prassana[6], Charfudin Sacoor[7], Azucena Bajardi[8], Momin Kazi[9], Fauzia Malik[2], Ben Lopman[1], Saad B. Omer[2]
[1]Emory University, Atlanta, GA, United States, [2]Yale University, New Haven, CT, United States, [3]Bocconi University, Milan, Italy, [4]Imperial College Londoner, London, United Kingdom, [5]Universidad del Valle de Guatemala, Guatemala, Guatemala, [6]CMC Vellore, Tamil Nadu, India, [7]Centro de Investigação de Saúde de Manhiça, Manhiça, Mozambique, [8]Barcelona Institute of Global Health, Barcelona, Spain, [9]The Aga Khan University, Karachi, Pakistan

973

AN INTEGRATED QUALITATIVE APPROACH TO SURVEILLANCE, MONITORING, AND EVALUATION FOR NATIONAL MALARIA CONTROL PROGRAMS

Lwendo Moonzwe Davis
ICF, Rockville, MD, United States

974

CLINICAL AND LABORATORY CHARACTERISTICS, AND OUTCOMES OF PATIENTS HOSPITALIZED WITH CORONAVIRUS DISEASE 2019: A RETROSPECTIVE ANALYSIS FROM BANGLADESH

Monira Sarmin, Mustafa Mahfuz, Lubaba Shahrin, Tahmeed Ahmed, Mohammod Jobayer Chisti
icddr,b, Dhaka, Bangladesh

975

MODULATING FACTORS OF HOUSEHOLD TRANSMISSION OF SARS-COV-2IN A COMMUNITY-BASED STUDY

Jenny Ji[1], Alexander Winnett[1], Natasha Shelby[1], Jessica A. Reyes[1], Reid Akana[1], Noah W. Schlenker[1], Emily S. Savela[1], Anna Romano[1], Michael K. Porter[1], Alyssa M. Carter[1], Matthew M. Cooper[1], Jacob T. Barlow[1], Colten Tognazzini[2], Matthew Feaster[2], Ying-Ying Goh[2], Rustem F. Ismagilov[1]
[1]California Institute of Technology, Pasadena, CA, United States, [2]Pasadena Public Health Department, Pasadena, CA, United States

976

ASSESSMENT OF KNOWLEDGE AND PERCEPTIONS RELATED TO THE COVID-19 PANDEMIC AMONG HEALTHCARE WORKERS IN NON-GOVERNMENTAL HEALTH FACILITIES IN CAMEROON

Sylvie Kwedi Nolna[1], Chanceline Bilounga Ndongo[2], Bernard Fortune Melingui[3], Akindeh Nji[4], Georges Nguefack Tsague[1], Sandra Bitchoka[1], Lucrece Eteki[5], Mark Marchant[6], Palmer Masumbe Netongo[7], **Palmer Masumbe Netongo**[4]
[1]Faculty of Medicine, University of Yaounde I, Yaounde, Cameroon, [2]Ministry of Public Health, Yaounde, Cameroon, [3]Institute de Recherche pour le Developement (IRD), Yaounde, Cameroon, [4]Department of Biochemistry, University of Yaounde I, Yaounde, Cameroon, [5]World Health Organisation, Cameroon, Yaounde, Cameroon, [6]London School of Hygiene & Tropical Medicine, London, United Kingdom, [7]Navajo Technical University, Crownpoint, NM, United States

977

COMMUNITY SARS-COV-2 DYNAMICS AND CYCLE THRESHOLD USE FOR ENHANCED PUBLIC HEALTH SURVEILLANCE IN THE DOMINICAN REPUBLIC

Amy Paulino, Miguel Delgadillo, Leandro Tapia, Claudia Suero, Leeany Maletta, Stephanie Trochez, Jason A. Castillo, Paula M. Duque-Canaan, Alejandro Vallejo-Degaudenzi, Daniela Hidalgo, Diego del Orbe-Matos, Jhasmel Cabrera, Jose M. Campana, Estefani Sanchez, Roberto Paulino-Ramirez
Instituto de Medicina Tropical & Salud Global, Santo Domingo, Dominican Republic

978

IMPLEMENTATION OF VACCINATION CAMPAIGNS TO RESPOND TO COVID-19 AND OTHER EPIDEMIC THREATS IN LOW- AND MIDDLE-INCOME COUNTRIES: LEARNING FROM KEY INFORMANTS' EXPERIENCES WITH MENINGITIS A, YELLOW FEVER, AND EBOLA VIRUS DISEASE

Julie Collins[1], David S. Kennedy[1], Rosie Westerveld[2], Kate A. Nelson[2], Siobhan Lazenby[3], Gloria Ikilezi[3], Rebecca Bartlein[3], Hana Rohan[1], Hilary Bower[1], Daniel G. Bausch[1]
[1]UK Public Health Rapid Support Team, London School of Hygiene & Tropical Medicine/ Public Health England, London, United Kingdom, [2]London School of Hygiene & Tropical Medicine, London, United Kingdom, [3]Exemplars in Global Health Program, Gates Ventures, Seattle, WA, United States

Ectoparasite-Borne Disease – Babesiosis and Lyme Disease

979

CHALLENGES OF OBTAINING NASOPHARYNGEAL AND MINIMALLY INVASIVE TISSUE SAMPLES (MITS) FOR ASSOCIATED RSV MORTALITY AMONG DECEASED INFANTS IN LMIC COMMUNITY SETTING

Waliyah Mughis[1], Saima Jamal[1], Nazia Ahsan[1], Christina Arif[1], Syeda Quratulain Zaidi[1], Farah N. Qamar[1], Fauzia A. Malik[2], Saad B. Omer[2], Norman Goco[3], Lindsay Parlberg[3], Christina Paganelli[3], Abdul Momin Kazi[1]
[1]Aga Khan University, KARACHI, Pakistan, [2]Yale University, New Haven, CT, United States, [3]RTI International, Durham, NC, United States

980

THE GEOGRAPHICAL AND TEMPORAL SEROPREVALENCE OF *BORRELIA BURGDORFERI* AND *BORRELIA MIYAMOTOI* IN NEW ENGLAND FROM 2018-2019

Demerise Johnston[1], Michel Ledizet[2], Jill R. Kelly[3], Robert Smith[4], Tom Warcup[5], John Stratidis[6], Jonathan Schwab[7], Sukanya Narasimhan[8], Joppe W. Hovius[9], Victoria Majam[1], Hong Zheng[1], Bonkoungou Sougrnooma[1], Yanhong Deng[10], Kaitlin R. Maciejewski[10], Sanjai Kumar[1], Peter J. Krause[11]
[1]Food and Drug Administration, Sliver Spring, MD, United States, [2]L2 Diagnostic, New Haven, CT, United States, [3]Yale School of Public Health, New Haven, CT, United States, [4]Maine Medical Center, Portland, ME, United States, [5]Block Island Medical Center, Block Island, RI, United States, [6]Danbury Hospital, Danbury, CT, United States, [7]Northampton Area Pediatrics, Northampton, MA, United States, [8]Yale School of Medicine, New Haven, CT, United States, [9]University of Amsterdam, Amsterdam, Netherlands, [10]Yale Center for Analytical Sciences, New Haven, CT, United States, [11]Yale School of Public Health/Yale School of Medicine, New Haven, CT, United States

(ACMCIP Abstract)

981

SOLUBLE FACTORS SECRETED BY *BABESIA MICROTI*-INFECTED RED BLOOD CELLS INDUCE CYTOKINE PRODUCTION IN MACROPHAGES

Biniam Hagos[1], Ioana Brasov[1], Alessandra Luchini[2], Lance Liotta[2], Fatah Kashanchi[2], **Robert Molestina**[1]
[1]ATCC, Manassas, VA, United States, [2]George Mason University, Manassas, VA, United States

(ACMCIP Abstract)

982

VARIATION IN COMPOSITIONAL PROFILES OF AMBLYOMMA AMERICANUM MICROBIOTA DRIVEN BY SEX AND RANGE

Luis Eduardo Martinez[1], Paula Lado[2], Hans Klompen[1], Risa Pesapane[1], Sarah Short[1]
[1]Ohio State University, Columbus, OH, United States, [2]Colorado State University, Fort Collins, CO, United States

983

INITIAL EVALUATION OF THE INBIOS LYME *DETECT™* IGM IGG ELISA FOR DETECTION OF LYME DISEASE

Dindo Reyes, Gregory Ireton, James Needham, Syamal Raychaudhuri, **Aarthy C. Vallur**
InBios International Inc, Seattle, WA, United States

984

IDENTIFICATION OF CODING REGIONS FOR THE INNOVATION OF THE CONFIRMATORY DIAGNOSIS OF CARRION'S DISEASE

Giovanna Mendoza- Mujica, Victor Jimenez-Vasquez, Karen Calvay-Sánchez, Yanina Zárate-Sulca
Instituto Nacional de Salud-Perú, Lima, Peru

Ectoparasite-Borne Disease – Other

985

***DERMACENTOR VARIABILIS*AND ITS ASSOCIATED RICKETTSIAE IN SOUTHEASTERN VIRGINIA; THE POTENTIAL ROLE OF PATHOGEN SPILLOVER FROM LOCAL SYMPATRIC TICK SPECIES**

Alexandra Nicole Cumbie[1], Holly Gaff[2], Wayne Hynes[2]
[1]Virginia Tech, Blacksburg, VA, United States, [2]Old Dominion University, Norfolk, VA, United States

986

DETECTION OF AN EXOTIC RICKETTSIA IN AN INVASIVE TICK COLLECTED FROM AN INVASIVE AMPHIBIAN

Carrie De Jesus, Madison Harman, Christina Romagosa, Samantha Wisely
University of Florida, Gainesville, FL, United States

987

CAUSES OF ACUTE FEBRILE ILLNESS IN SELECTED HOSPITALS OF BANGLADESH

Pritimoy Das[1], M Ziaur Rahman[1], Sayera Banu[1], Mahmudur Rahman[1], Daniel W. Martin[2], Mahabub Ul Anwar[2], Cecilia Y. Kato[2], Adam L. Cohen[2], Michael Friedman[2]
[1]International Centre for Diarrhoeal Disease Research, Bangladesh (icddr,b), Dhaka, Bangladesh, [2]Centers for Disease Control and Prevention (CDC), Atlanta, GA, United States

988

EVALUATION OF THE ECONOMIC BURDEN OF SCABIES IN FIJI

Rabindra Baskota
Ministry of Health and Population, Kathmandu, Nepal

989

ALPHA-GAL: AN EMERGING TICK-BORNE DISEASE OF CONCERN IN THE CAROLINAS

Kyndall C. Dye-Braumuller[1], Madlyn Wils[1], Chris Evans[2], Melissa Nolan[1]
[1]University of South Carolina, Columbia, SC, United States, [2]South Carolina Department of Health and Environmental Control, Columbia, SC, United States

990

FIRST REPORT OF DABIESHAN AND LIHAN TICK VIRUS (*BUNYAVIRALES*: *PHENUIVIRIDAE*) IN TICKS IN LAO P.D.R.

Khamsing Vongphayloth[1], Sarah Temmam[2], **Jodi Fiorenzano**[3], Somphavanh Somlor[1], Marc Eloit[4], Paul Brey[1]
[1]Institut Pasteur du Laos, Vientiane, Lao People's Democratic Republic, [2]Institut Pasteur, Paris, France, [3]Naval Medical Research Unit No. 2, Sembawang, Singapore, [4]Institut Pasteur and Paris-Est University, Paris and Maisons-Alfort, France

991

IDENTIFICATION OF TICK-BORNE *RICKETTSIA* IN COMMUNAL LANDS, RANCHES, AND PROTECTED AREAS OF ESWATINI

Kimberly J. Ledger, Samantha M. Wisely
University of Florida, Gainesville, FL, United States

992

SPOTLIGHT REPORT: TICKS AND TICK-BORNE DISEASES OF UGANDA

John Tarpey[1], Alexander Potter2[3,4], David B. Pecor[2,3,4], Michael von Fricken[5,6], Dawn Zimmerman[6], Yvonne-Marie Linton[2,3,4]
[1]Loyola University of New Orleans, New Orleans, LA, USA, [2]Walter Reed Biosystematics Unit (WRBU), Smithsonian Institution Museum Support Center, Suitland, MD, USA, [3]Department of Entomology, Walter Reed Army Institute of Research, Silver Spring, MD, USA, [4]Smithsonian Institution–National Museum of Natural History, Washington, DC, USA, [5]George Mason University, College of Health and Human Services, Fairfax, VA, USA, [6]Global Health Program, Smithsonian's National Zoological Park and Conservation Biology Institute, Washington, DC, USA

993

EFFECTIVENESS OF ONE VERSUS TWO DOSE MASS DRUG ADMINISTRATION REGIMENS FOR THE CONTROL OF SCABIES

Susanna J. Lake[1], Daniel Engelman[1], Oliver Sokana[2], Dickson Boara[2], Titus Nasi[2], Julie Zinihite[3], Christina Gorae[2], Sophie L. Phelan[4], Millicent H. Osti[1], Tibor Schuster[1], Anneke C. Grobler[1], Ross Andrews[5], Margot J. Whitfeld[6], Michael Marks[7], Lucia Romani[4], Andrew C. Steer[1], John M. Kaldor[1]
[1]Murdoch Children's Research Institute, Melbourne, Australia, [2]Ministry of Health and Medical Services, Honiara, Solomon Islands, [3]Solomon Islands National University, Honiara, Solomon Islands, [4]The Kirby Institute, Sydney, Australia, [5]Australian National University, Canberra, Australia, [6]St Vincents Hospital, Sydney, Australia, [7]London School of Hygiene & Tropical Medicine, London, United Kingdom

Mosquitoes – Insecticide Resistance and Control

994

A COMPARATIVE STUDY OF TWO SAMPLING METHODS ON PYRETHROID RESISTANT MALARIA PARASITE VECTORS IN WESTERN KENYA.

Noriko Tamari[1], Noboru Minakawa[2], Kyoko Futami[2], Peter A. Lutiali[3], George O. Sonye[4], Beatrice Awuor[4], Stephen Munga[5], Kacey C. Ernst[1], Melanie L. Bell[1]
[1]Department of Epidemiology and Biostatistics, Mel and Enid Zuckerman College of Public Health, University of Arizona, Tucson, AZ, United States, [2]Institute of Tropical Medicine (NEKKEN), Nagasaki University, Nagasaki, Japan, [3]Centre for Research in Tropical Medicine and Community Development, Nairobi, Kenya, [4]Ability To Solve By Knowledge Project, Mbita, Homa Bay, Kenya, [5]Centre for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya

995

ESTABLISHING A PRACTICAL INSECTICIDE RESISTANCE MONITORING METHODOLOGY FOR ORALLY INGESTED DINOTEFURAN

George Parsons[1], Rosemary Susan Lees[1], John Vontas[2], Mathias Mondy[3], Julian Entwistle[3]
[1]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [2]Foundation for Research and Technology - Hellas, Heraklion, Greece, [3]IVCC, Liverpool, United Kingdom

996

POST MARKET SURVEILLANCE OF PYRETHROID-PBO NETS: LEARNINGS FROM PERMANET® 3.0

Duncan K. Athinya[1], Melinda P. Hadi[2]
[1]Vestergaard Frandsen (EA) Limited, Nairobi, Kenya, [2]Vestergaard Sàrl, Lausanne, Switzerland

997

COUNTRYWIDE INSECTICIDE RESISTANCE MONITORING IN NIGER: SUPPORT FOR ITN DISTRIBUTION DECISIONS MAKING

Hadiza Soumaila[1], Boube Hamani[2], Abdoulaye Daouda[2], Iro Souleymane[2], Samira Gouro[2], Mamane Sani Zaman Allah[2], Fatouma Abdoulaye Daouda[2], Ibrahim Issa Arzika[3], Soumana Amadou[3], Izamne Mahamadou[3], Saadou Kadri[3], Noura M Sale[3], Wilfried Hounkanrin Zoulkifouly[3], Boubacar Mahamadou[3], Rabiou Labbo[3], Hadiza Jackou[2], Sabiti Idrissa[2], Eric Coulibaly[4], Els Mathieu[4], Zila Tohon[4], Jenny Carlson[5], Ellen Dotson[6], Awolola Taiwo Samson[6], Cecilia Flatley[7], Dereje Dengela[7], Dereje Dengela[7], Joseph Chabi[8]
[1]PMI VectorLink Project, Niamey, Niger, [2]National Malaria Control Program, Niamey, Niger, [3]Centre de Recherche Médicale et Sanitaire, Niamey, Niger, [4]U.S. President's Malaria, Niamey, Niger, [5]U.S. President's Malaria, Washington DC, MD, United States, [6]Entomology Branch, 6U.S. Centers for Disease Control and Prevention, Atlanta, GA, USA, Atlanta, GA, United States, [7]PMI VectorLink Project, Washington DC, MD, United States, [8]PMI VectorLink Project, Abdjan, Côte D'Ivoire

998

EVIDENCE SUPPORTING DEPLOYMENT OF NEXT GENERATION INSECTICIDE TREATED NETS IN BURKINA FASO BIOASSAYS WITH EITHER CHLORFENAPYR OR PIPERONYL BUTOXIDE INCREASE MORTALITY OF PYRETHROID-RESISTANT *ANOPHELES GAMBIAE* S.L.

Aristide Hien[1], Diloma Dieudonné SOMA[1], Dramane Coulibaly[1], Abdoulaye Diabaté[1], Allison Belemvire[2], Mame B Diouf[3], Djenam Jacob[4], Adama Koné[5], Ellen Dotson[6], Taiwo S. Awolola[6], Richard M. Oxborough[4], Roch K. Dabiré[1]
[1]Institut de Recherche en Sciences de la Santé (IRSS), Bobo-Dioulasso, Burkina Faso, [2]U.S. President's Malaria Initiative, U.S. Agency for International Development, Washington DC, MD, United States, [3]U.S. President's Malaria Initiative, US Embassy Ouagadougou, Burkina Faso, Ouagadougou, Burkina Faso, [4]PMI VectorLink Project, Abt Associates Inc., Rockville, MD, United States, [5]PMI VectorLink Burkina Faso, Abt Associates Inc., Ouagadougou, Burkina Faso, Ouagadougou, Burkina Faso, [6]Division of Parasitic Diseases and Malaria, Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States

999

ACCOUNTING FOR HETEROGENEITY IN WILD ADULT SAMPLES TO MEASURE INSECTICIDE RESISTANCE IN *ANOPHELES* MALARIA VECTORS

Inga Holmdahl[1], Caroline Buckee[1], Lauren Childs[2]
[1]Harvard TH Chan School of Public Health, Boston, MA, United States, [2]Virginia Tech, Blacksburg, VA, United States

1000

COLLECTING TRASH FOR PROFIT TO REDUCE VECTOR BREEDING SITES IN SOUTH COAST KENYA

Francis M. Mutuku[1], Lydiah Kibe[2], Amy Krystosik[3], Mumini Dzoga[1], Scholastica Ratanya[1], Gathenji Njoroge[4], Jenna Forsyth[3], Jenna Forsyth[3], A. Desiree LaBeaud[3]
[1]Technical University of Mombasa, Mombasa, Kenya, [2]Kenya Medical Research Institute, Nairobi, Kenya, [3]Stanford University, San Fransciso, CA, United States, [4]University of California Berkeley, Berkeley, CA, United States

1001

INTEGRATED VECTOR MANAGEMENT IN PUERTO RICO AND THE CARIBBEAN IN THE MIDST OF A PANDEMIC

Marianyoly Ortiz, Grayson Brown
Puerto Rico Science, Technology and Research Trust, San Juan, PR, United States

1002

INCENTIVIZING MULTIPLE OBJECTIVES IN ACTIVE SURVEILLANCE FOR URBAN DISEASE VECTORS

Claudia Arevalo-Nieto
UPCH, Arequipa, Peru

1003

IMPROVED GERMLINE PROMOTERS FOR CAS9 EXPRESSION AND INCREASED DRIVE EFFICIENCY IN THE YELLOW FEVER MOSQUITO *AEDES AEGYPTI*

Estela Gonzalez, Michelle A. Anderson, Lewis Shackleford, Katherine Nevard, Sebald A. Verkuijl, Joshua X. Ang, Tim Harvey-Samuel, Luke Alphey
The Pirbright Institute, Pirbright, United Kingdom

1004

ASSOCIATION OF *VGSC* MUTATIONS V410L, V1016I AND F1534C WITH PYRETHROID RESISTANCE IN *AEDES AEGYPTI* POPULATIONS FROM CENTRAL AMERICA

E. David Castañeda[1], Juan C. Lol[1], Ana H. Gómez[1], Francisco J. López[1], Monica Barrientos[2], Denis Escobar[3], Emperatriz Lugo[4], Mario Avila[5], Cesar Burgos[6], Rodrigo Marin[7], Audrey Lenhar[8], Norma R. Padilla[1]
[1]Centro de Estudios en Salud, Universidad del Valle de Guatemala, Guatemala, Guatemala, [2]Ministerio de Salud Pública y Asistencia Social, Guatemala, Guatemala, [3]Instituto de Investigaciones en Microbiología, Universidad Nacional Autónoma de Honduras, Tegucigalpa, Honduras, [4]Ministerio de Salud de Nicaragua, Managua, Nicaragua, [5]Ministerio de Salud de Panamá, Panama City, Panama, [6]Centro de Control de Enfermedades Tropicales, Ministerio de Salud Pública, República Dominicana, Santo Domingo, Dominican Republic, [7]8Ministerio de Salud de Costa Rica, San José, Costa Rica, [8]Center for Disease Control and Prevention (CDC), Atlanta, GA, United States

Mosquitoes – Vector Biology-Epidemiology

1005

INSECTARY INFORMATION SYSTEM: BUILDING-BLOCKS FOR REPRODUCIBLE SCIENCE IN VECTOR BIOLOGY

Edgar Manrique[1], Manuela Herrera-Varela[2], James Beuzeville-Jaen[1], Lutecio Torres-Torres[1], Jorge Ruiz-Cabrejos[3], Gabriel Carrasco-Escobar[4], Dionicia Gamboa[5], Joseph M. Vinetz[6], Jan E. Conn[7]
[1]Laboratorio ICEMR-Amazonia - Universidad Peruana Cayetano Heredia, Lima, Peru, [2]Grupo de Investigación en Entomología, Facultad de Medicina, Universidad Nacional de Colombia, Bogotá, Colombia, [3]Health Innovation Laboratory, Institute of Tropical Medicine "Alexander von Humboldt," Universidad Peruana Cayetano Heredia, Lima, Peru, [4]School of Public Health, University of California San Diego, La Jolla, CA, United States, [5]Departamento de Ciencias Celulares y Moleculares, Facultad de Ciencias y Filosofía, Universidad Peruana Cayetano Heredia, Lima, Peru, [6]Yale University School of Medicine, New Heaven, CT, United States, [7]Department of Biomedical Sciences, School of Public Health, State University of New York, Albany, NY, United States

1006

ABUNDANCE OF *AEDES AEGYPTI* FEMALE MOSQUITOES IN SPACES SURROUNDING RESIDENTIAL AND NON-RESIDENTIAL STRUCTURES IN WESTERN AND COASTAL KENYA

Bryson A. Ndenga[1], Francis Mutuku[2], Gladys Agola[1], Joel Mbakaya[1], Samwel Ndire[1], Said Malumbo[3], Paul Mutuku[3], Angelle D. LaBeaud[4]
[1]Kenya Medical Research Institute, Kisumu, Kenya, [2]Technical University of Mombasa, Mombasa, Kenya, [3]Vector Borne Disease Control Unit, Msambweni, Kenya, [4]Stanford University, Stanford, CA, United States

1007

BEHAVIORAL RESPONSES OF PYRETHROID-RESISTANT *ANOPHELES GAMBIAE* MOSQUITOES TO INSECTICIDE-TREATED BED NET

Maxwell G. Machani[1], Eric Ochomo[1], Fred Amimo[2], Andrew Githeko[1], Guiyun Yan[3]
[1]Kenya Medical Research Institute, Kisumu, Kenya, [2]Jaramogi oginga odinga University, Bondo, Kenya, [3]College of Health Sciences, University of California, Irvine, CA 92697, USA, Irvine, CA, United States

1008

IMPROVING URBAN ENTOMOLOGICAL MONITORING IN MALABO, BIOKO ISLAND

Nestor Bela Rivas[1], Raul Nguema[1], Godwin Fuseini[1], Wonder P. Phiri[1], Olivier Tresor Donfack[1], Carlos A. Guerra[2], Guillermo A. García[2]
[1]Medical Care Development International, Malabo, Equatorial Guinea, [2]Medical Care Development International, Silver Spring, MD, United States

1009

SOME LIKE IT HOT: HOW URBAN MICROCLIMATE ACROSS A TROPICAL CITY IMPACTS *AEDES* MOSQUITOES LIFE HISTORY

Eduardo Hernandez-Acosta[1], Adam Hendy[2], Barbara Chaves[3], Eloane Andrade[3], Michaela Buenemann[1], Marcus Lacerda[3], Nikos Vasilakis[2], Kathryn A. Hanley[1]
[1]New Mexico State University, Las Cruces, NM, United States, [2]University Of Texas Medical Branch, Galveston, TX, United States, [3]Fundação de Medicina Tropical Doutor Heitor Vieira Dourado, Manaus, Brazil

1010

HUMAN-MOSQUITO CONTACT: A MISSING LINK IN OUR UNDERSTANDING OF MOSQUITO-BORNE DISEASE TRANSMISSION DYNAMICS

Panpim Thongsripong[1], James M. Hyman[2], Durrell D. Kapan[3], Shannon N. Bennett[1]
[1]Department of Microbiology, Institute of Biodiversity Sciences and Sustainability, California Academy of Sciences, San Francisco, CA, United States, [2]Department of Mathematics, Tulane University, New Orleans, LA, United States, [3]Department of Entomology and Center for Comparative Genomics, Institute of Biodiversity Sciences and Sustainability, California Academy of Sciences, San Francisco, CA, United States

1011

ECO-BIO-SOCIAL DETERMINANTS OF THE BREEDING AND INSECTICIDE SUSCEPTIBILITY OF *AEDES AEGYPTI* LARVAE IN ARBOVIRAL FOCI IN ABIDJAN, CÔTE D'IVOIRE

Julien Z. Zahouli[1], Benjamin Koudou[1], Pie Müller[2], Jürg Utzinger[2]
[1]Centre Suisse de Recherches Scientifiques en Cote d'Ivoire, Abidjan, Côte D'Ivoire, [2]Swiss Tropical and Public Health Institute, Basel, Switzerland

1012

LONGITUDINAL MONITORING OF MALARIA VECTORS IN GOBU SEYO, ETHIOPIA TO ASSESS TRENDS IN BITING BEHAVIORS OF MALARIA VECTORS FROM 2012-2017

Allie Busbee[1], Ryan Wiegand[2], Gabriel Ponce de Leon[2], Meshesha Balkew[3], Gedeon Yohannes[3], Dereje Dengela[3], Seth Irish[4], Sarah Zohdy[4]
[1]Emory University, Atlanta, GA, United States, [2]Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]President's Malaria Initiative, VectorLink Ethiopia, Addis Ababa, Ethiopia, [4]President's Malaria Initiative, Centers for Disease Control and Prevention, Atlanta, GA, United States

1013

AN EVALUATION OF LONGITUDINAL *ANOPHELES STEPHENSI* EGG VIABILITY AND RESISTANCE TO DESICCATION

Laura Leite, Rachel Denny, Zachary Kaplan, Seth Irish, Ellen Dotson, Sarah Zohdy
Centers for Disease Control and Prevention, Atlanta, GA, United States

1014

THE ROLE OF NUTRITION IN RESISTANCE AND TOLERANCE TO BACTERIAL INFECTION IN *AEDES AEGYPTI* MOSQUITOES

Dominique Magistrado, Sarah M. Short
The Ohio State University, Columbus, OH, United States

1015

EPIDEMIOLOGY OF VECTOR-BORNE AND NEGLECTED TROPICAL DISEASES ALONG THE TEXAS-MEXICO BORDER

Lauren M. Leining[1], Rojelio Mejia[1], Kristy O. Murray[1], Eric L. Brown[2], Sarah M. Gunter[1]
[1]Baylor College of Medicine, Houston, TX, United States, [2]University of Texas Health Science Center at Houston, Houston, TX, United States

1016

GUT MICROBIOTA IN*AEDES TRISERIATUS*(SAY) CONTRIBUTE TO DETOXIFICATION OF TANNIC ACID

Shicheng Chen[1], Ting Yu[2], Edward Walker[3]
[1]Oakland University, Rochester, MI, United States, [2]Guangdong Academy of Agricultural Sciences, Guang Zhou, China, [3]Michigan State University, East Lansing, MI, United States

1017

MATHEMATICAL MODEL OF THE TRANSMISSION FOR VISCERAL LEISHMANIASIS

Looli Mohamed Alawam Nemer[1], Kristan Schneider[2]
[1]African Institute for Mathematical Science, Khartoum, Sudan, [2]Mittweida University, Mittweida, Germany

1018

BRUGIA MICROFILARIAE ENHANCE DISSEMINATION OF ZIKA VIRUS INTO THE HEMOCOEL OF *AEDES AEGYPTI* MOSQUITOES

Jefferson Vaughan, Tyler Achatz, Kyle O'Donnell, Staci Dreyer, Kelsey Morin, Jakson Martens, Dawn Cleveland, David Bradley
University of North Dakota, Grand Forks, ND, United States

Flaviviridae – Dengue

1019

ANALYSIS OF DENV2 3'UTR RNA STRUCTURES REVEALS SPECIES-SPECIFIC ROLES IN FLAVIVIRAL BIOLOGY

Rita M. Meganck, Long Ping V. Tse, Ralph S. Baric
UNC Chapel Hill, Chapel Hill, NC, United States

1020

DENGUE KNOWLEDGE, ATTITUDES, AND PRACTICES: BASELINE DATA FROM THE COESA STUDY

Laura Pierce[1], Monica Zahreddine[2], Kellyanne Abreu[3], Mayana Azevedo Dantas[3], Andrea Caprara[3], Valéry Ridde[4], Kate Zinszer[2]
[1]McGill University, Montreal, QC, Canada, [2]University of Montreal, Montreal, QC, Canada, [3]State University of Ceará, Fortaleza, Brazil, [4]Centre Population et Développement, Institut de recherche pour le développement, Université de Paris, Paris, France

1021

GENETICALLY ENGINEERED DENV PRODUCES ANTIGENICALLY DISTINCT MATURE PARTICLES

Longping V. Tse, Rita M. Meganck, Stephanie Dong, Lily E. Adams, Laura J. White, Aravinda M. deSlvia, Ralph S. Baric
University of North Carolina, Chapel Hill, NC, United States

1022

TRANSCRIPTOMIC PROFILES OF ACUTE DENGUE SPECIFIC CD8 T CELLS

Alba Grifoni[1], Hannah Voic[1], Alison Tarke[1], Sunil Premawansa[2], Gayani Premawansa[3], Ananda Wijewickrama[4], Alessandro Sette[1], **Daniela Weiskopf**[1]
[1]La Jolla Institute for Immunology, La Jolla, CA, United States, [2]University of Colombo, Colombo 00300, Sri Lanka, Colombo, Sri Lanka, [3]North Colombo Teaching Hospital, Ragama 11010, Sri Lanka, Colombo, Sri Lanka, [4]National Institute of Infectious Diseases, Colombo, Sri Lanka

1023

IDENTIFICATION OF DISTINGUISHING CLINICAL FEATURES OF COVID-19, DENGUE, AND INFLUENZA AMONG ADULTS PRESENTING TO EMERGENCY DEPARTMENTS AND URGENT CARE CLINICS — PUERTO RICO, 2012-2021

Joshua M. Wong[1], Hannah R. Volkman[1], Laura E. Adams[1], Carene Oliveras García[2], Alma Martinez-Quiñones[1], Janice Perez-Padilla[1], Jorge Bertrán-Pasarell[3], Diego Sainz de la Peña[3], Vanessa Rivera-Amill[2], Gabriela Paz-Bailey[1]
[1]Dengue Branch, Division of Vector-Borne Diseases, National Center for Emerging and Zoonotic Infectious Diseases, Centers for Disease Control and Prevention, San Juan, PR, United States, [2]Ponce Health Sciences University/Ponce Research Institute, Ponce, PR, United States, [3]Auxilio Mutuo Hospital, San Juan, PR, United States

1024

SEROPREVALENCE OF DENGUE AND ZIKA VIRUSES IN A COMMUNITY-BASED COHORT STUDY IN SOUTHERN PUERTO RICO

Laura E. Adams[1], Dania M. Rodriguez[1], Stephen S. Whitehead[2], Liliana Sánchez-González[1], Freddy A. Medina[1], Jorge L. Muñoz-Jordán[1], Vanessa Rivera-Amill[3], Gabriela Paz-Bailey[1]
[1]Centers for Disease Control and Prevention, San Juan, Puerto Rico, [2]National Institutes of Health, Bethesda, MD, United States, [3]Ponce Health Sciences University/Ponce Research Institute, Ponce, Puerto Rico

1025

DENGUE VIRUS INFECTION LOWERED THE PERCENTAGE OF ATYPICAL MEMORY B CELLS IN KENYAN CHILDREN

David M. Vu[1], Sangeeta Kowli[1], Francis M. Mutuku[2], Amy R. Krystosik[1], Jael S. Amugongo[3], Said L. Malumbo[3], Phillip K. Chebii[4], Priscillah W. Maina[3], Holden T. Maecker[1], A. Desiree LaBeaud[1]
[1]Stanford University School of Medicine, Stanford, CA, United States, [2]Technical University of Mombasa, Mombasa, Kenya, [3]Vector Borne Disease Control Unit, Msambweni, Kenya, [4]Msambweni County Referral Hospital, Msambweni, Kenya

1026

SAMPLE-SPARING MULTIPLEX SEROLOGIC ASSAY TO DETERMINE FLAVIVIRUS INFECTION HISTORY

Lindsay Carvalho Dahora, Bruno Segovia-Chumbez, Salman Khan, Aravinda de Silva, Premkumar Lakshmanane
University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

1027

EVOLUTION AND GENOMIC EPIDEMIOLOGY OF DENGUE VIRUSIN RURAL AND URBAN COMMUNITIES IN KENYA

Sindiso Nyathi[1], Francis Mutuku[2], Bryson Ndenga[3], Katharine Walter[1], Jason Andrews[1], Shannon Bennett[4], A. Desiree LaBeaud[1]
[1]Stanford University, Stanford, CA, United States, [2]Technical University of Mombasa, Mombasa, Kenya, [3]Kenya Medical Research Institute, Kisumu, Kenya, [4]California Academy of Sciences, San Francisco, CA, United States

(ACMCIP Abstract)

1028

EVALUATING VIRAL GENOMICS AND DISEASE SEVERITY USING NANOPORE SEQUENCING: A PROOF-OF-CONCEPT ANALYSIS

Beatriz Carvalho Marques[1], Darlan Silva Candido[2], Cassia Fernanda Estofolete[1], Lívia Sacchetto[1], Karina Rocha Dutra[1], Flávia Salles[3], Fernanda Simões Dourado[1], Ester Cerdeira Sabino[1], Nuno Faria[4], Maurício Lacerda Nogueira[1]
[1]School of Medicine of Sao Jose do Rio Preto, São José do Rio Preto, Brazil, [2]University of Oxford, Oxford, United Kingdom, [3]Institute of Tropical Medicine - University of São Paulo, São Paulo, Brazil, [4]University of Oxford, Oxford, Brazil

1029

MODELLING THE HETEROGENEITY IN DENGUE TRANSMISSION INTENSITY IN SRI LANKA USING AGE-SPECIFIC CASE SURVEILLANCE DATA

Nayantara Wijayanandana[1], Christian Bottomley[1], Hasitha Tissera[1], Henrik Salje[2]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]Cambridge University, Cambridge, United Kingdom

1030

COMPREHENSIVE MUTAGENESIS OF DENGUE VIRUS ENVELOPE PROTEINS TO MAP ANTIBODY EPITOPES AND IDENTIFY RESIDES ESSENTIAL FOR FUNCTION

Edgar Davidson, J. Tabb Sullivan, Jen M. Pfaff, Ariadna Grinyo, Mallorie E. Fouch, Benjamin J. Doranz
Integral Molecular, Inc., Philadelphia, PA, United States

1031

DIFFERENTIALLY EXPRESSED PROTEOMICS PROFILING IN DENGUE REVEALS MULTIPLE UPREGULATION OF INFLAMMATORY PATHWAYS

Fadel Muhammad Garishah[1], Collins K. Boahen[1], Nadira Vadaq[1], Silvita F. Riswari[1], Setyo G. Pramudo[2], Rahajeng N. Tunjungputri[2], Bachti Alisjahbana[3], Muhammad H. Gasem[2], André J. van der Ven[1], Quirijn de Mast[1]
[1]Radboud University Medical Center, Nijmegen, Netherlands, [2]Center for Tropical and Infectious Diseases, Faculty of Medicine Diponegoro University, Dr. Kariadi Hospital, Semarang, Indonesia, [3]Clinical Infectious Disease Research Center, Faculty of Medicine Universitas Padjadjaran, Bandung, Indonesia

1032

LONGITUDINAL ASSESSMENT OF DENGUE 1-SPECIFIC HUMORAL IMMUNE MEMORY IN HUMAN COHORTS FOLLOWING DENGUE-1 INFECTION IN BOTH ENDEMIC AND NON-ENDEMIC TRANSMISSION SETTINGS

Zoe L. Lyski[1], Brian L. Booty[2], Luisa I. Alvarado[3], Rachel M. Rodriguez[3], Vanessa Rivera-Amill[3], William B. Messer[1]
[1]Oregon Health and Science University, Portland, OR, United States, [2]Oregon Clinical and Translational Research Institute (OCTRI), Portland, OR, United States, [3]Ponce Health Sciences University, Ponce, PR, United States

Viruses – Other

1033

DEVELOPMENT OF THE INBIOS NORO *DETECT*™ A LATERAL FLOW IMMUNOASSAY (LFI) FOR MULTIPLEX DETECTION OF NOROVIRUS GENOGROUPS I, II AND IV

Brianda Santos, Jean Chen, Lihong Li, Scott Delbecq, Syamal Raychaudhuri, Aarthy C. Vallur
InBios International Inc, Seattle, WA, United States

1034

EVIDENCE OF RIFT VALLEY FEVER VIRUS CIRCULATION IN CATTLE PARKS IN SLAUGHTERED OF MAN DISTRICT (CÔTE D'IVOIRE)

Clémence Konan Adjoua Rose Marie Kouassi[1], Négnorogo Guindo-Coulibaly[2], Valery E. Adjogoua[3], Yannick K. Konan[4], Sylla Yahaya[3], Yahaya Karamoko[5], Hortense Kette-Faye[3]
[1]Nangui Abrogoua University/Institut Pasteur Côte d'Ivoire, Abidjan, Côte D'Ivoire, [2]Cocody University, Abidjan, Côte D'Ivoire, [3]Institut Pasteur Côte d'Ivoire, Abidjan, Côte D'Ivoire, [4]Cocody University/Institut Pasteur Côte d'Ivoire, Abidjan, Côte D'Ivoire, [5]Nangui Abrogoua University, Abidjan, Côte D'Ivoire

1035

ASSESSING THE EFFECTS OF MEASLES INFECTION ON CHILDHOOD INFECTIOUS DISEASE MORTALITY IN BRAZIL AND THE U.S.

Siyang Xia[1], Cricket C. Gullickson[2], C. Jessica E. Metcalf[2], Bryan T. Grenfell[2], Michael J. Mina[1]
[1]Harvard T.H. Chan School of Public Health, Boston, MA, United States, [2]Princeton University, Princeton, NJ, United States

1036

EMERGING ROUTE OF SARS-COV-2 IN BANGLADESH (AN *IN-SILICO* APPROACH)

Md. Mahmudul Hasan, Dipok Kumer Shill
University of Dhaka, Dhaka, Bangladesh

1037

DEVELOPMENT AND APPLICATION OF IMMUNO-FOCUS-BASED MICRO ASSAYS TO MEASURE INFECTIOUS BETACORONAVIRUS AND INFLUENZA A VIRUS UNDER BIOSAFETY LEVEL-2 CONDITIONS

W. W. Shanaka I. Rodrigo, Natasha Virjee, Christopher Hsiung, Margaret Cotton, Matthew Hardwick
ResInnova Laboratories, Silver Spring, MD, United States

1038

HEPATITIS B VIRUS INFECTION IN NIGERIA: A SYSTEMATIC REVIEW AND META-ANALYSIS OF DATA PUBLISHED BETWEEN 2010 AND 2019

Busayo I. Ajuwon, Isabelle Yujuico, Katrina Roper, Alice Richardson, Meru Sheel, Brett A. Lidbury
Australian National University, Acton, Australia

1039

HOST GENETIC FACTORS AND ROTAVIRUS INFECTIONS IN A VACCINATED BIRTH COHORT OF NICARAGUA

Yaoska Reyes[1], Fredman González[1], Lester Gutierrez[1], Patricia Blandon[1], Edwing Centeno[1], Omar Zepeda[1], Christian Toval-Ruíz[1], Nadja Vielot[2], Lennart Svensson[3], Sylvia Becker-Dreps[2], Johan Nordgren[3], Filemón Bucardo[1]
[1]National Autonomous University of Nicaragua, León (UNAN-León), León, Nicaragua, [2]Department of Family Medicine, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [3]Division of Molecular Medicine and Virology, Department of Biomedical and Clinical Sciences, Linköping University, Linköping, Sweden

1040

ANTIBODY RESPONSE TO SARS-COV-2 INFECTION OVER SIX MONTHS AMONG NICARAGUAN OUTPATIENTS

Fredman Gonzalez[1], Omar Zepeda[1], Christian T. Ruiz[1], Armando Matute[1], Hernan Vanegas[1], Nancy Munguía[1], Edwing Centeno[1], Yaoska Reyes[1], Lennart Svensson[2], Johan Nordgren[2], Aravinda M. de Silva[3], Sylvia Becker-Dreps[4], Lakshmanane Premkumar[3], Filemón Bucardo[1]

[1]National Autonomous University of Nicaragua (UNAN), León., Leon, Nicaragua, [2]Division of Molecular Virology, Department of Clinical and Experimental Medicine, Linköping University., Linköping, Sweden, [3]Department of Microbiology and Immunology, University of North Carolina School of Medicine, Chapel Hill, Chapel Hill, NC, United States, [4]Departments of Family Medicine and Epidemiology, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

1041

EVALUATION OF SARS-COV-2 CIRCULATION AND IMMUNOLOGICAL CHARACTERIZATION IN A HOSPITAL COHORT IN SAO JOSE DO RIO PRETO, SAO PAULO, BRAZIL

Guilherme R. Campos[1], Cintia Bittar[2], Alice Versiani[1], Cecilia A. Banho[1], Marilia M. Moraes[1], Thayza M. dos Santos[1], João P. Araujo Júnior[3], Paula Rahal[2], Maurício L. Nogueira[1]

[1]School of Medicine of São José do Rio Preto - FAMERP, São José do Rio Preto, Brazil, [2]Institute of Bioscience, Language and Exact Sciences - UNESP, São José do Rio Preto, Brazil, [3]Institute of Biotechnology - UNESP, Botucatu, Brazil

1042

HYPOGLYCEMIA IN EBOLA VIRUS DISEASE

Masumbuko Claude Kasereka[1], Richard Kitenge[2], Zubia Mumtaz[1], Bonita Lee[1], Stan Houston[1], Michael Hawkes[1]

[1]University of Alberta, Edmonton, AB, Canada, [2]Ministry of Health, Kinshasa, Democratic Republic of the Congo

1043

SARS-COV-2 VIRAL LOAD PEAKS PRIOR TO SYMPTOM ONSET: A SYSTEMATIC REVIEW AND INDIVIDUAL-POOLED ANALYSIS OF CORONAVIRUS VIRAL LOAD FROM 66 STUDIES

Amy E. Benefield[1], Laura A. Skrip[2], Andrea Clement[1], Rachel A. Althouse[3], Stewart Chang[2], Benjamin M. Althouse[2]

[1]University of Colorado, Boulder, Boulder, CO, United States, [2]Institute for Disease Modeling, Seattle, WA, United States, [3]Legacy High School, Marysville, WA, United States

1044

OROPOUCHE VIRUS *IN VITRO* REPLICATION IS INHIBITED BY ACRIDONE

Mayara Lucia Webber[1], Clarita Maria Secco Avilla[2], Gabrielle Grisolia Assad[1], Gislaine Celestino da Silva[2], Maurício Lacerda Nogueira[2], Leticia Ribeiro de Assis[3], Luis Octavio Regasini[3], **Carolina Colombelli Pacca**[2]

[1]Faceres Medical School, São José do Rio Preto, Brazil, [2]Famerp, São José do Rio Preto, Brazil, [3]Julio de Mesquita Filho - UNESP, São José do Rio Preto, Brazil

1045

RAPID SPREAD OF SARS-COV-2 INFECTION IN THE COMMUNITY OF SOTUBA, A PERI-URBAN AREA OF BAMAKO, MALI, FROM JULY TO JANUARY 2021

Mamady Kone

MRTC, Bamako, Mali

1046

AGGRESSIVE COMMUNITY AND WORKPLACE SPREAD OF SARS-COV-2 B.1.1.7 AND SEVERE ILLNESS ON A LARGE UNIVERSITY CAMPUS

Loni Taylor[1], Tykeara Mims[2], Aishatu Yusuf[2], Benika Dixon[2], **Rebecca S. Fischer**[2]

[1]Texas A&M University, College of Veterinary Medicine, College Station, TX, United States, [2]Texas A&M University, School of Public Health, College Station, TX, United States

1047

CHARACTERIZATION OF THE COVID-19 DISEASE IN CARTAGENA DE INDIAS, AN EFFICIENT PREVENTION AND CONTAINMENT STRATEGY

Fabián Espitia-Almeida[1], Steev Loyola[2], Eder Cano-Pérez[1], Jaison Torres-Pacheco[1], Ramiro Pereira-Lentino[3], Dacia Malambo-García[1], **Doris E. Gomez-Camargo**[1]

[1]UNIMOL Research Group, Faculty of Medicine, University of Cartagena, Cartagena de Indias, Colombia, [2]Doctorate in Tropical Medicine, Faculty of Medicine, University of Cartagena, Cartagena de Indias, Colombia, [3]Departmental Laboratory of Public Health of Bolivar, Cartagena de Indias, Colombia

Malaria – Biology and Pathogenesis

1048

CD47 REGULATES PARASITE BURDEN AND PROMOTES PATHOGENESIS IN MURINE MALARIA MODELS

Miranda S. Oakley[1], Pallavi Malla[1], Laughing Bear Torrez Dulgeroff[2], Victoria Majam[1], Joanna K. Chorazeczewski[1], Winter A. Okoth[1], Scott Meredith[1], David S. Rotstein[1], Irving L. Weissman[2], Sanjai Kumar[1]

[1]FDA, Silver Spring, MD, United States, [2]Stanford University School of Medicine, Stanford, CA, United States

(ACMCIP Abstract)

1049

QUANTIFICATION OF THE SPOROZOITE INOCULUM FROM MOSQUITOES WITH HIGH AND LOW SALIVARY GLAND LOADS

Deborah Stiffler[1], Maya Aleshnick[2], Photini Sinnis[1]

[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]Oregon Health and Science University, Beaverton, OR, United States

(ACMCIP Abstract)

1050

EXPERIMENTAL INFECTION OF PIGTAILED MACAQUES WITH *PLASMODIUM KNOWLESI* MALARIA PARASITES

Melanie J. Shears[1], Rebekah Reynolds[1], Sumana Chakravarty[2], B. Kim Lee Sim[2], Stephen L. Hoffman[2], Sean C. Murphy[1]

[1]University of Washington, Seattle, WA, United States, [2]Sanaria Inc., Rockville, MD, United States

1051

DYNAMICS OF *PLASMODIUM FALCIPARUM* IN THE NON-HUMAN PRIMATE *AOTUS NANCYMAAE* DURING PREGNANCY

Bethany J. Jenkins[1], Ankur Sharma[1], Jennifer R. Howard[1], Holly Torano[1], Sachy Orr-Gonzalez[1], Tarik Ouahes[1], Almahamoudou Mahamar[2], Bacary S. Diarra[2], Alassane Dicko[2], Lynn E. Lambert[1], Michal Fried[1], Patrick E. Duffy[1]

[1]Laboratory of Malaria Immunology and Vaccinology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, [2]Malaria Research & Training Center, Faculty of Medicine, Pharmacy & Dentistry, University of Sciences Techniques & Technologies of Bamako, Bamako, Mali

1052

IN VITRO GROWTH PHENOTYPES OF SINGLE PARASITE LINEAGES CLONED FROM MULTICLONAL MALARIA ISOLATES

Standwell Nkhoma, Amel O. Ahmed, Sharmeen Zaman, Timothy T. Stedman
ATCC, Manassas, VA, United States

(ACMCIP Abstract)

1053

PRO AND ANTI-INFLAMMATORY CYTOKINE RESPONSES DURING PREGNANCY ASSOCIATED MALARIA IN MANGALURU, INDIA

Rajeshwara N Achur[1], Valleesha Chandrashekar[1], Punnath Kishore[1], Kiran K. Dayanand[1], Suchetha N. Kumari[2], Channe D Gowda[3]
[1]Kuvempu University, Shivamogga, India, [2]KSHEMA, Nitte University, Mangaluru, India, [3]Pennsylvania State University, Hershey, PA, United States

1054

VAR GENES TRANSCRIPTION PROFILING OF *PLASMODIUM FALCIPARUM* FROM AN INDUCED-MALARIA EPISODE IN *AOTUS* MONKEYS

Ariel H. Magallon Tejada[1], Kevin Escala[1], Mihail Perez[1], Mario Quijada[1], Joe Smith[2], Nicanor Obaldia[1]
[1]Gorgas Memorial Research Institutefor Health Studies, Panama, Panama, [2]Center for Global Infectious Disease Research - Seattle Children's Research Institute, Seattle, WA, United States

1055

FUNCTIONAL CHARACTERIZATION OF A PUTATIVE PHOSPHATIDYLETHANOLAMINE BINDING PROTEIN OF MALARIA PARASITE

Abhisheka Bansal, Manish Sharma, Komal Rani
Jawaharlal Nehru University, New Delhi, India

(ACMCIP Abstract)

1056

HOST INFLAMMATION AND PARASITE *VAR* EXPRESSION ASSOCIATED WITH CEREBRAL MALARIA IN KENYAN CHILDREN

Elizabeth Hemming-Schroeder[1], Sidney Ogolla[2], David Midem[2], James W. Kazura[1], Arlene Dent[1]
[1]Case Western Reserve University, Cleveland, OH, United States, [2]Kenya Medical Research Institute, Kisumu, Kenya

(ACMCIP Abstract)

1057

ASEXUAL PARASITE AND GAMETOCYTE DYNAMICS FOLLOWING 3-DAY OR 5-DAY ARTEMETHER-LUMEFANTRINE TREATMENT FOR *PLASMODIUM FALCIPARUM* MALARIA IN UGANDAN CHILDREN

Justin Goodwin[1], Richard Kajubi[2], McKenzie Colt[1], Meghan Whalen[3], Martina Wade[1], Francis Orukan[2], Moses Were[2], Francesca T. Aweeka[3], Norah Mwebaza[2], Sunil Parikh[1]
[1]Yale Schools of Medicine and Public Health, New Haven, CT, United States, [2]Infectious Disease Research Collaboration, Kampala, Uganda, [3]University of California San Francisco, San Francisco, CA, United States

(ACMCIP Abstract)

1058

CHRONIC *AOTUS NANCYMAAE* MODEL OF PLACENTAL MALARIA

Holly M. Torano, Jennifer Howard, Lynn E. Lambert, Justin Yai Doritchamou, Tarik Ouahes, Steven Nadakal, Alicia Spiegel, Ankur Sharma, Rhea Stevens, Michal Fried, Patrick E. Duffy
NIH/NIAID/LMIV, Bethesda, MD, United States

Malaria – Chemotherapy and Drug Resistance

1059

AN ECOLOGICAL ANALYSIS EXPLORING THE IMPACT OF SEASONAL MALARIA CHEMOPREVENTION IN BURKINA FASO AND NIGERIA USING NATIONAL HOUSEHOLD SURVEYS (2010-2018)

Monica A. de Cola[1], Benoit Sawadogo[2], Taiwo Ibinaiye[3], Sol Richardson[1], Arantxa Roca-Feltrer[1], Christian Rassi[1], Patrick Walker[4], Lucy Okell[4]
[1]Malaria Consortium, London, United Kingdom, [2]Malaria Consortium, Ouagadougou, Burkina Faso, [3]Malaria Consortium, Abuja, Nigeria, [4]Imperial College London, London, United Kingdom

1060

PROFILING TRENDS IN SUSCEPTIBILITY TO FRONTLINE ANTIMALARIALS IN KENYA BETWEEN 2008-2021 THROUGH SUSTAINED REGIONAL SURVEILLANCE

Duncan Musamali Wakoli[1], Hoseah Akala[1], Bartholomew Nyangahu Ondigo[2], Agnes Cheruiyot[3], Edwin Mwakio[3], Douglas Ongeri Ochora[4], Redemptah Yeda[4], Charles Okudo[4], Dennis Juma[4], Ben Andagalu[4], Amanda Roth[4]
[1]US Army Medical Research Directorate-Kenya, Department of Biochemistry and Molecular Biology Egerton University, Kisumu, Kenya, [2], Department of Biochemistry and Molecular Biology Egerton University, 3Laboratory of Malaria Immunology and Vaccinology, National Institute of Allergy and Infectious Diseases, NIH, Bethesda, MD, USA, Kisumu, Kenya, [3]US Army Medical Research Directorate-Kenya,, Kisumu, Kenya, [4]US Army Medical Research Directorate-Kenya, Kisumu, Kenya

1061

MFR4 MEDIATES DRUG RESISTANCE TO THE ANTIMALARIAL HALOFUGINONE VIA THE ADAPTIVE PROLINE RESPONSE IN *PLASMODIUM FALCIPARUM*

Akansha Pant[1], Selina Bopp[1], Lola Fabgami[1], Claudia R. Taccheri[1], Amy Deik[2], Madeline Luth[3], Mark Tye[4], Sabine Ottilie[3], Clary B. Clish[2], Elizabeth Winzeler[3], Ralph Mazitschek[4], Amanda K. Lukens[1], Dyann F. Wirth[1]
[1]Department of Immunology and Infectious Diseases, Harvard T.H. Chan School of Public Health, Boston, MA USA, Boston, MA, United States, [2]Metabolomics Platform, The Broad Institute, Cambridge, MA USA, Boston, MA, United States, [3]University of California, San Diego, San Diego, CA, United States, [4]Center for Systems Biology, Massachusetts General Hospital, Boston, MA USA, Boston, MA, United States

(ACMCIP Abstract)

1062

UPDATE ON MULTIDRUG RESISTANT *P.FALCIPARUM* MALARIA: TREATMENT OPTIONS IN THE CONTEXT OF CHANGING DRUG SUSCEPTIBILITY PROFILE IN CAMBODIA

Mariusz Wojnarski[1], Somethy Sok[2], Nonlawat Boonyalai[1], Pattaraporn Vanachayangkul[1], Panita Gosi[1], Nillawan Buathong[1], Sohei Hom[3], Darapiseth Sea[1], Michele Spring[1], Jessica Lin[4], Threechada Boonchan[1], Paphavee Lertsethtakarn[1], Piyaporn Saingam[1], Chaiyaporn Chaisatit[1], Sabaithip Sriwichai[1], Worachet Kuntawunginn[1], Kittijarankon Phontham[1], Montri Arsonok[1], Saowaluk Wongarunkochakorn[1], Lychhea Hout[3], Pheaktra Oung[3], Soklyda Chann[5], Sovannarith Em[5], Krisada Jongsakul[1], Prom Satharath[2], John Brooks[6], Philip Smith[1], Rekol Huy[3], Brian Vesely[1], Samandra Demons[1], Shannon Takala-Harrison[7], Mark M. Fukuda[1], Chanthap Lon[1], Dysoley Lek[8], Norman Waters[1]

[1]Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, [2]Ministry of National Defense, Department of Health, Phnom Penh, Cambodia, [3]National Center for Parasitology, Entomology and Malaria Control, Phnom Penh, Cambodia, [4]University of North Carolina, Chapel Hill, NC, United States, [5]Armed Forces Research Institute of Medical Sciences, Phnom Penh, Cambodia, [6]Naval Medical Research Unit 2, Phnom Penh, Cambodia, [7]University of Maryland School of Medicine, Baltimore, MD, United States, [8]National Center for Parasitology, Entomology and Malaria Control,, Phnom Penh, Cambodia

1063

HOST INFLAMMATORY, MATRIX METALOPROTEINASE AND CELL DEATH RESPONSES TO ACUTE MALARIA TREATED WITH MEFLOQUINE AND THE ROLE OF CURCUMIN SUPPLEMENTATION

Oludele John Olanlokun, Wisdom O. Abiodun, Olufunso O. Olorunsogo
University of Ibadan, Ibadan, Ibadan, Nigeria

(ACMCIP Abstract)

1064

MOLECULAR MARKERS OF ANTIMALARIAL DRUG RESISTANCE IN UGANDAN CHILDREN WITH SEVERE MALARIA AND RISK OF READMISSION OR REPEAT ILLNESS

Adnan Gopinadhan[1], Dibyadyuti Datta[1], Jenny Legac[2], Caitlin Bond[1], Andrea L. Conroy[1], Robert O. Opoka[3], Philip J. Rosenthal[2], Chandy C. John[1]

[1]Indiana University School of Medicine, Indianapolis, IN, United States, [2]University of California San Fransisco, San Fransisco, CA, United States, [3]Makerere University, Kampala, Uganda

1065

EMERGENCE AND EXPANSION OF *P. FALCIPARUM* WITH PFK13 POLYMORPHISMS POTENTIALLY ASSOCIATED WITH ARTEMISININ RESISTANCE IN UGANDA

Victor Asua[1], Melissa D. Conrad[2], Jennifer Legac[2], Deborah Chin[3], David Giesbrecht[3], Emmanuel Arnaitwe[1], Patrick Tumbwebaze[1], Roland Cooper[4], Ozkan Aydemir[3], Yeka Adoke[1], Moses R. Kamya[1], Samuel Nsobya[1], Grant Dorsey[2], Jeffrey Bailey[3], Philip J. Rosenthal[2]

[1]Infectious Diseases Research Collaboration, Kampala, Uganda, [2]University of California, San Francisco, CA, United States, [3]Brown University, Providence, RI, United States, [4]Dominican University of California, San Rafael, CA, United States

1066

CARDIAC SAFETY MONITORING OF ARTEMISININ-BASED COMBINATION THERAPY IN HIV-INFECTED AND HIV-UNINFECTED UGANDAN CHILDREN

McKenzie Colt[1], Audun J. Lier[2], Malik Koire[3], Francis Orukan[4], Meghan Whalen[5], Grace Kisitu[3], Norah Mwebaza[4], Richard Kajubi[4], Francesca Aweeka[5], Sunil Parikh[1]

[1]Department of Epidemiology of Microbial Diseases, Yale School of Public Health, New Haven, CT, United States, [2]Section of Infectious Diseases, Yale School of Medicine, New Haven, CT, United States, [3]Center of Excellence in Health Equity, Training and Research, Baylor College of Medicine, Houston, TX, United States, [4]Infectious Disease Research Collaboration, Makerere University College of Life Sciences, Kampala, Uganda, [5]Department of Clinical Pharmacology, University of California San Francisco, San Francisco, CA, United States

1067

A SECONDARY LOCUS ON CHROMOSOME 6 INTERACTS WITH PFCRT TO CONFER HIGH LEVEL CHLOROQUINE RESISTANCE

Katrina A. Button-Simons[1], Katelyn Vendrely[1], Xue Li[2], Sudhir Kumar[3], Lisa A. Checkley[1], Nelly Carmago[3], Meseret T. Haile[3], Spencer Y. Kennedy[3], Douglas A. Shoue[1], Ann Reyes[2], Marina McDew-White[2], Abeer Sayeed[2], François H. Nosten[4], Stefan H. Kappe[3], Ian H. Cheeseman[5], Ashley M. Vaughan[3], Timothy J. Anderson[2], Michael T. Ferdig[1]

[1]Eck Institute for Global Health, Department of Biological Sciences, University of Notre Dame, Notre Dame, IN, United States, [2]Disease Intervention and Prevention Program, Texas Biomedical Research Institute, San Antonio, TX, United States, [3]Center for Global Infectious Disease Research, Seattle Children's Research Institute, Seattle, WA, United States, [4]Shoklo Malaria Research Unit, Mahidol-Oxford Tropical Medicine Research Unit, Mahidol University, Mae Sot, Thailand, [5]Host-Pathogen Interactions Program, Texas Biomedical Research Institute, San Antonio, TX, United States

1068

EFFECTIVENESS OF RECTAL ARTESUNATE IMPLEMENTED AS PRE-REFERRAL TREATMENT FOR SEVERE MALARIA IN CHILDREN IN THREE AFRICAN COUNTRIES

Manuel W. Hetzel[1], Proscovia Athieno[2], Phyllis Awor[2], Nina Brunner[1], Giulia Delvento[1], Jean-Claude Kalenga[3], Joseph Kimera[2], Mark Lambiris[1], Tristan Lee[1], Jean Okitawutshu[3], Elizabeth Omoluabi[4], Aita Signorell[1], Antoinette Tshefu[3], Valentina Buj[5], Theodoor Visser[6], Christian Lengeler[1], Christian Burri[1]

[1]Swiss Tropical and Public Health Institute, Basel, Switzerland, [2]Makerere University School of Public Health, Kampala, Uganda, [3]Kinshasa School of Public Health, Kinshasa, Democratic Republic of the Congo, [4]Akena Associates, Abuja, Nigeria, [5]UNICEF, New York, NY, United States, [6]Clinton Health Access Initiative, Boston, MA, United States

1069

DISSECTING THE RELATIVE CONTRIBUTIONS OF PFCRT AND PLASMEPSIN II/III COPY NUMBER ON PIPERAQUINE SENSITIVITY USING A GENETIC CROSS

Haley Dahlhoff[1], Lisa A. Checkley[1], Xue Li[2], Sudhir Kumar[3], Puspendra P. Singh[1], Katelyn M. Vendrely[1], Douglas A. Shoue[1], Mackenzie A. Sievert[1], Ann Reyes[2], Katie Button-Simons[1], Biley A. Abatiyow[3], Meseret T. Haile[3], Stefan H. Kappe[3], François Nosten[4], Ian H. Cheeseman[2], Tim J. Anderson[2], Ashely M. Vaughan[3], Michael T. Ferdig[1]

[1]Eck Institute for Global Health, University of Notre Dame, Notre Dame, IN, United States, [2]Texas Biomedical Research Institute, San Antonio, TX, United States, [3]Center for Global Infectious Disease Research, Seattle Children's Research Institute, Seattle, WA, United States, [4]Centre for Tropical Medicine and Global Health, Nuffield Department of Medicine Research building, University of Oxford, Oxford, United Kingdom

1070

MARKED DECREASE IN ANTIBIOTIC USAGE FOLLOWING INTENSIVE MALARIA CONTROL IN A COHORT OF UGANDAN CHILDREN

Paul J. Krezanoski[1], Michelle E. Roh[1], John Rek[2], Joaniter Nankibarwa[2], Emmanuel Arinatwe[2], Sarah G. Staedke[3], Susan Naiga[2], Claire Chandler[3], Michelle S. Hsiang[1], David Smith[4], Moses Kamya[5], Grant Dorsey[1]

[1]University of California, San Francisco, San Francisco, CA, United States, [2]Infectious Disease Research Collaboration, Kampala, Uganda, [3]London School of Hygiene & Tropical Medicine, London, United Kingdom, [4]University of Washington, Seattle, WA, United States, [5]Makerere University College of Health Sciences, Kampala, Uganda

1071

MAPPING PARTNER DRUG RESISTANCE TO GUIDE ANTIMALARIAL COMBINATION THERAPY POLICIES IN SUB-SAHARAN AFRICA

Hanna Ehrlich, Amy K. Bei, Daniel M. Weinberger, Joshua L. Warren, Sunil Parikh
Yale University, New Haven, CT, United States

Malaria – Diagnosis

1072

ANALYSIS OF THE DISCREPANCY BETWEEN MICROSCOPY AND RDT FOR THE DETECTION OF *PLASMODIUM FALCIPARUM* IN TWO DIFFERENT ENDEMIC SETTINGS OF DANGASSA AND KOILA, MALI

Fousseyni Kane, Mahamoudou Toure, Daouda Sanogo, Sory Ibrahim Diawara, Idrissa Konate, Nafomon Sogoba, Seydou Doumbia
West African International Center for Excellence in Malaria Research (ICEMR-WA), University of Sciences, Techniques and Technologies of Bamako, Bamako, Mali

1073

LABORATORY DIAGNOSTIC CAPACITY AND PROFICIENCY IN MALARIA MICROSCOPY IN KENYA: IMPLICATIONS FOR ROLLOUT OF QUALITY ASSURANCE PROGRAM

Regina Kandie[1], Gatakaa Hellen[2], Kiplagat Rosebella[3], Ngindu Augustine[2], Yamo Emmanuel[2], Dickson Mwakangalu[1], Lolade Oseni[4], Gladys Tetteh[4], Ballard Sarah-Blythe[5], Wacira Daniel[6]
[1]Division of National Malaria Program, Nairobi, Kenya, [2]PMI Impact Malaria Project, Nairobi, Kenya, [3]National Malaria Reference Laboratory, Nairobi, Kenya, [4]PMI Impact Malaria Project, Baltimore, MD, United States, [5]US President's Malaria Initiative, US Centers for Disease Control and Prevention, Nairobi, Kenya, [6]US President's Malaria Initiative, United States Agency for International Development, Nairobi, Kenya

1074

LEVERAGING GEOSPATIAL MAPPING TO OPTIMIZE THE CONTINUITY OF MALARIA CARE DURING COVID-19 PANDEMIC BY COMMUNITY-BASED HEALTH WORKERS IN MASHONALAND EAST, ZIMBABWE

Busisani Dube[1], Paul Matsvimbo[1], Brighton Gambinga[2], Munyaradzi Mareke[2], George Machacha[1], Abaden Svisva[2], Eliza Walwyn-Jones[2], Dominic Lucero[2], Patience Dhliwayo[1], Joseph Mberikunahe[1]
[1]National Malaria Control Program, Harare, Zimbabwe, [2]Clinton Health Access Initiative, Boston, MA, United States

1075

ADHERENCE TO CASE MANAGEMENT GUIDELINES BASED ON RESULTS OF MALARIA RAPID DIAGNOSTIC TESTS IN SUB-SAHARAN AFRICA FROM 2010-2020: A SYSTEMATIC REVIEW

Michael Humes
USAID - PMI, Washington, DC, United States

1076

A TABLET-BASED HEALTH NETWORK QUALITY IMPROVEMENT SYSTEM (HNQIS) FOR DATA-DRIVEN DECISION MAKING AND TARGETED OUTREACH TRAINING SUPPORTIVE SUPERVISION (OTSS+) AT LOW PERFORMING SITES IN THE DEMOCRATIC REPUBLIC OF CONGO (DRC)

Ange Landela[1], Séraphine Kutumbakana Kimwesa[1], Anselme Manyong Kapit[1], Lennie Kyomuhangi[2], Julie Buekens[2], Jordan M. Smith[2], Nicole Carbone[3], Luigi Nunez[3], Charlotte Eddis[3], Dieudonne Mumba Ngoyi[4], Godefroid Tshiswaka Bondo[5], Francois-Xavier Mwema[6], Eric Mukomena Sompwe[6], Renion Saye[7]
[1]PMI Impact Malaria, MCDI, Kinshasa, Democratic Republic of the Congo, [2]PMI Impact Malaria, MCDI, Silver Spring, MD, United States, [3]PMI Impact Malaria, PSI, Washington, DC, United States, [4]Institut National de Recherche Biomedicale, Kinshasa, Democratic Republic of the Congo, [5]USAID, Kinshasa, Democratic Republic of the Congo, [6]National Malaria Control Program, MOH, Kinshasa, Democratic Republic of the Congo, [7]PMI Impact Malaria, MCDI, Bamako, Mali

1077

IMPROVING MALARIA CASE MANAGEMENT PRACTICES AND REPORTING IN THE PRIVATE SECTOR IN UGANDA

Robert Mugerwa
MOH, Kampala, Uganda

1078

DETECTING AND CLASSIFYING CELLS WITH A MULTI-CLASS MASK R-CNN IN THIN SMEAR MICROSCOPY FOR MALARIA DIAGNOSIS

Yasmin M. Kassim[1], Hang Yu[1], Feng Yang[1], Kamolrat Silamut[2], Richard J. Maude[3], Stefan Jaeger[1]
[1]National Library of Medicine, National Institutes of Health, Bethesda, MD, United States, [2]Mahidol-Oxford Tropical Medicine Research Unit, Mahidol University, Bangkok, Thailand, [3]Centre for Tropical Medicine and Global Health, Nuffield Department of Medicine, University of Oxford, Oxford, United Kingdom

1079

MALARIA DIAGNOSIS QUALITY CONTROL AT HEALTH FACILITIES IN RWANDA

Jean-Louis Ndikumana Mangara[1], Aline Uwimana[1], Michee Kabera[1], Jean Damascene Niyonzima[1], Aniceth Rucogoza[1], Tharcisse Munyaneza[1], Emmanuel Ruzindana[1], Jean Bosco Mucaca[1], Maurice Twahirwa[1], Noella Umulisa[2], Aimable Mbituyumuremyi[1]
[1]Rwanda Biomedical Center, Kigali, Rwanda, [2]Jhpiego/Impact Malaria, Kigali, Rwanda

1080

MAGNETO-OPTICAL RESPONSE TO MAGNETIC FIELD ACROSS ALL HUMAN MALARIAS SPECIES USING GAZELLE PLATFORM

Brian T. Grimberg[1], Tyler Witte[2], Stephanie Bledsoe[2], D'Arbra Blankenship[1], Daren Bledsoe[2]
[1]Case Western Reserve University, Cleveland, OH, United States, [2]Hemex Health, Portland, OR, United States

1081

HEALTHCARE PROVIDERS CHALLENGE TO CORRECTLY INTERPRET MALARIA RDT RESULTS IN NIGERIA

Wellington A. Oyibo[1], Sonachi Ezeiru[2], Diwe Ekweremadu[2], Temitope Ipinmoye[2], Victor Adebayo[2], Olatayo Abikoye[2], Oladipo Oladosu[1], Chinonye Anabike[1], Simon Ijezie[3], Nnenna Ogbulafor[3], Emmanuel Shekarau[3], Perpatua Uhomoibh[3], Bala Audu[3]
[1]ANDI Centre of Excellence for Malaria Diagnosis, College of Medicine of the University of Lagos, Nigeria, Lagos, Nigeria, [2]Catholic Relief Services (CRS)(Principal Recipient of the Global Fund, Malaria in Nigeria), Federal Capital Territory, Abuja, Nigeria, Abuja, Nigeria, [3]National Malaria Control Programme, Federal Ministry of Health, Abuja, Nigeria

1082

DEVELOPMENT OF A RAPID DIAGNOSIS TEST FOR *PLASMODIUM VIVAX*

Karli Redinger, Jürgen Bosch, Peter Zimmerman, Rajeev Mehlotra, Quentin Watson, Marlin Linger
Case Western Reserve University, Cleveland, OH, United States

1083

THE STANDARD G6PD TEST (SD BIOSENSOR) SHOWS GOOD REPEATABILITY AND REPRODUCIBILITY IN A MULTI-LABORATORY COMPARISON

Benedikt Ley[1], Ari Winasti Satyagraha[2], Mohammad G. Kibria[3], Jillian Armstrong[4], Greg Bizij[5], Germana Bancone[6], Mariusz Wojnarski[7], Amy K. Bei[4], Marcelo Brito[8], Gonzalo Domingo[5], Xavier Ding[9], Michael von Fricken[10], Gornpan Gornsawun[6], Brandon Lam[11], Didier Menard[12], Sampa Pal[5], Sunil Parikh[4], Lydia V. Panggalo[2], Daniel Pfeffer[1], Ric N. Price[1], Alessandra da Silva Orfano[4], Martina Wade[4], Kuntawunginn Worachet[13], Wuelton Monteiro[8], Aqsa Yar[12], Mohammad S. Alam[3], Rosalind E. Howes[9]

[1]Menzies School of Health Research, Darwin, Australia, [2]Eijkman Institute of Molecular Biology, Jakarta, Indonesia, [3]International Center for Diarrheal Disease Research, Dhaka, Bangladesh, [4]Yale School of Public Health, New Haven, CT, United States, [5]PATH, Seattle, WA, United States, [6]Shoklo Malaria Research Unit, Mahidol-Oxford Tropical Medicine Research Unit, Faculty of Tropical Medicine, Mahidol University, Mae Sot, Thailand, [7]Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, [8]Fundação de Medicina Tropical Dr. Heitor Vieira Dourado, Manaus, Brazil, [9]Foundation for Innovative New Diagnostics, Geneva, Switzerland, [10]George Mason University, Fairfax, VA, United States, [11]Johns Hopkins University School of Medicine, Baltimore, MD, United States, [12]Institut Pasteur, Paris, France, [13]Armed Forces Research Institute of Medical Sciences, Bnagkok, Thailand

1084

DETECTION OF A SUBSTANTIAL NUMBER OF*PFHRP*2 GENE DELETIONS AMONG SUBMICROSCOPIC INFECTIONS IN ETHIOPIA

Lemu Golassa[1], Gezahegn Solomon Alemayehu[1], Kayla Blackburn[2], Karen Lopez[3], Cheikh C. Dieng[3], Eugenia Lo[3], Daniel Janies[3]
[1]Addis Ababa University, Addis Ababa, Ethiopia, [2]Department of Bioinformatics and Genomics, University of North Carolina at Charlotte, Charlotte, NC, United States, [3]University of North Carolina at Charlotte, Charlotte, NC, United States

1085

INTEGRATING G6PD POINT-OF-CARE TESTING INTO MALARIA CASE MANAGEMENT TO SUPPORT RADICAL CURE: AN ASSESSMENT OF HEALTH WORKER SKILLS AND KNOWLEDGE IN LAOS AND VIETNAM

Emily Gerth-Guyette[1], Sarah Cassidy-Seyoum[2], Huygen Nguyen[3]
[1]PATH, Seattle, WA, United States, [2]UCSF Global Programs for Research and Training, Vientiene, Lao People's Democratic Republic, [3]PATH, Hanoi, Viet Nam

Malaria – Epidemiology

1086

PAST EFFECTS OF CLIMATE AND INTERVENTIONS ON MALARIA IN UGANDA

Margaux Sadoine[1], Audrey Smargiassi[1], Ying Liu[1], Grant Dorsey[2], Guillaume Dueymes[3], Philippe Gachon[4], Adrienne Epstein[2], Jaffer Okiring[5], Kate Zinszer[1]
[1]School of Public Health of the Université de Montréal and Centre for Public Health Research (CReSP), Montréal, QC, Canada, [2]University of California, San Francisco, CA, United States, [3]Université du Québec à Montréal, Montréal, QC, Canada, [4]University of Québec at Montréal and Center for the Study and Simulation of Regional-Scale Climate (ESCER), Montréal, QC, Canada, [5]Infectious Diseases Research Collaboration, Kampala, Uganda

1087

LONGITUDINAL GENETIC EPIDEMIOLOGY SURVEILLANCE WITH A SNP-BASED MOLECULAR BARCODE DETECTS WIDESPREAD COTRANSMISSION OF *P. FALCIPARUM* MALARIA PARASITES IN THIÈS, SENEGAL

Wesley Wong[1], Rachel F. Daniels[1], Sarah K. Volkman[1], Dyann F. Wirth[1], Daniel L. Hartl[2]
[1]Harvard T.H. Chan School of Public Health, Boston, MA, United States, [2]Harvard University, Cambridge, MA, United States

1088

MALARIA IN THE PERIPARTUM PERIOD AND ASSOCIATED CLINICAL OUTCOMES FOR MOTHER AND BABY IN A HIGHLY ENDEMIC REGION OF THE BRAZILIAN LEGAL AMAZON, ACRE STATE

Mary K. Lynn[1], Julio A. Seijas Chávez[2], Melissa S. Nolan[1], Maria J. Francalino Rocha[3], Muana da Costa Araújo[4], Fernando L. Affonso Fonseca[5], Gabriel Z. Laporta[5]
[1]University of South Carolina, Columbia, SC, United States, [2]Hospital da Mulher e da Criança do Juruá, Cruzeiro do Sul, Brazil, [3]Universidade Federal do Acre, Cruzeiro do Sul, Brazil, [4]Vigilância Entomológica da Secretaria Municipal de Saúde, Cruzeiro do Sul, Brazil, [5]Centro Universitário da Faculdade de Medicina do ABC, Santo André, Brazil

1089

UNMASC: UGANDA MALARIA ACTIONABLE SURVEILLANCE IN THE TIME OF CORONAVIRUS

Jessica Briggs[1], Isaac Ssewanyana[2], Martha Nassali[2], Samuel Gonahasa[2], Isaiah Nabende[2], Emmanuel Victor Kamya[2], Jane Frances Namuganga[2], Catherine Maiteki-Sebuguzi[3], Peter Mutungi[2], Moses Kamya[2], Adrienne Epstein[1], Bryan Greenhouse[1], Sarah Staedke[4], Grant Dorsey[1]
[1]University of California, San Francisco, San Francisco, CA, United States, [2]Infectious Diseases Research Collaboration, Kampala, Uganda, [3]National Malaria Control Division, Kampala, Uganda, [4]London School of Hygiene & Tropical Medicine, London, United Kingdom

1090

ASSESSING THE UTILITY OF ANTENATAL CARE SURVEILLANCE IN TANZANIA FOR MONITORING COVERAGE OF MALARIA CONTROL INTERVENTIONS

Samwel Lazaro Nhiga[1], Alen Kinyina[2], Melkior Assenga[2], Ryan Lash[3], Annette Almeida[2], Chonge Kitojo[4], Lia Florey[5], Erik Reaves[6], Miriam Kombe[7], Stephanie Suhowatsky[8], Kevin Griffith[5], Mary Drake[8], Ruth Lemwayi[2], Sijenunu Aron[1], Frank Chacky[1], Patrick Walker[9], Julie Gutman[3]
[1]National Malaria Control Program, Dar es Salaam, United Republic of Tanzania, [2]Jhpiego, Dar es Salaam, United Republic of Tanzania, [3]Malaria Branch, Division of Parasitic Diseases and Malaria, Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States, [4]President's Malaria Initiative, USAID, Dar es Salaam, United Republic of Tanzania, [5]President's Malaria Initiative, USAID, Washington, DC, United States, [6]Malaria Branch, Division of Parasitic Diseases and Malaria, Center for Global Health, Centers for Disease Control and Prevention and President's Malaria Initiative, Dar es Salaam, United Republic of Tanzania, [7]United States Agency for International Development, Dar es Salaam, United Republic of Tanzania, [8]Jhpiego, Baltimore, MD, United States, [9]Imperial College, London, United Kingdom

1091

THE MALARIA ATTRIBUTABLE FRACTION OF FEVER IN A UGANDAN COHORT STUDY

John Rek[1], David Galick[2], Emily Hilton[3], John M. Henry[3], Austin Carter[3], Joaniter I. Nankabirwa[1], Emmanuel Arinaitwe[1], Maato Zedi[1], Sylvia Namazzi[1], Jaffer Okiring[1], Paul Krezanoski[4], Isabel Rodriguez-Barraquer[4], Bryan Greenhouse[4], Robert C. Reiner Jr[5], Moses R. Kamya[1], Grant Dorsey[4], Jimmy Opigo[6], David L. Smith[5]
[1]Infectious Diseases Research Collaboration, Kampala, Uganda, [2]Institute for Health Metrics and Evaluation, Seattle, WA, United States, [3]Institute for Health Metrics and Evaluation,, Seattle, WA, United States, [4]University of California, San Francisco, San Francisco, CA, United States, [5]Institute of Health Metrics and Evaluation; Department of Health Metrics Sciences, School of Medicine, University of Washington, Seattle, WA, United States, [6]National Malaria Control Program, Kampala, Uganda

1092

IS ZOONOTIC TRANSMISSION OF MALARIA A RISK FOR BLOOD DONATION AND ORGAN AND TISSUE TRANSPLANTATION?

Mariana Aschar[1], Maria J. Costa-Nascimento[2], Sandra C. Montebello[3], Maria L. Farinas[1], Jose E. Levi[1], Silvia M. Di Santi[1]
[1]University of Sao Paulo, Sao Paulo, Brazil, [2]SUCEN, Sao Paulo, Brazil, [3]Fundacao Pro Sangue Hemocentro of Sao Paulo, Sao Paulo, Brazil

1093

EFFICACY OF ARTEMETHER-LUMEFANTRINE FOR UNSUPERVISED TREATMENT OF UNCOMPLICATED MALARIA IN LOW AND HIGH TRANSMISSION AREAS IN GHANA

Bernice Anane Mawuli, Linda E. Amoah, Neils Quarshie, Gordon Awandare, Yaw Afrane
University of Ghana, Accra, Ghana

1094

IMPACT OF 6-MONTH TRAVEL MORATORIUM ON *PLASMODIUM FALCIPARUM* PREVALENCE ON BIOKO ISLAND, EQUATORIAL GUINEA: A DIFFERENCE IN DIFFERENCES ANALYSIS

Dianna E.B. Hergott[1], Guillermo A. García[2], Olivier Tresor Donfack[3], Carlos A. Guerra[2], Jeremias Nzamio Mba Eyono[3], Marcos Mbulito Iyanga[3], Restituto Mba Nguema Avue[3], Cristantos Nsue Abeso[3], Teresa Ayingono Ondo Nfumu[3], Sean C. Murphy[1], Jennifer E. Balkus[1]
[1]University of Washington, Seattle, WA, United States, [2]Medical Care Development International, Silver Spring, MD, United States, [3]Medical Care Development International, Malabo, Equatorial Guinea

1095

CAN HOUSING IMPROVEMENTS FOR MALARIA CONTROL ALSO REDUCE ACUTE RESPIRATORY INFECTION AND NON-MALARIA FEVER? A COHORT STUDY IN UGANDA

Alex Musiime[1], Paul Krezanoski[2], David L. Smith[3], Melissa D. Conrad[2], Maxwell Kilama[1], Otto Geoffrey[1], Patrick Kyagamba[1], Jackson Asiimwe[1], John Rek[1], Joaniter I. Nankabirwa[1], Emmanuel Arinaitwe[1], Anne M. Akol[4], Moses R. Kamya[1], Teun Bousema[5], Sarah G. Staedke[6], Chris Drakeley[6], Steve W. Lindsay[7], Grant Dorsey[2], Lucy S. Tusting[6]
[1]Infectious Diseases Research Collaboration, Kampala, Uganda, [2]University of California, San Francisco, CA, United States, [3]University of Washington, Seattle, WA, United States, [4]Makerere University, Kampala, Uganda, [5]Radbaud University, Nijmegen, Netherlands, [6]London School of Hygiene & Tropical Medicine, London, United Kingdom, [7]Durham University, Durham, United Kingdom

1096

CEREBRAL MALARIA AND SEX-BASED DIFFERENCES IN RISK OF IN-HOSPITAL MORTALITY, POST-DISCHARGE MORTALITY, AND POST-DISCHARGE READMISSION IN YOUNG AFRICAN CHILDREN

Caitlin A. Bond[1], Dibyadyuti Datta[1], Ruth Namazzi[2], Robert Opoka[2], Chandy C. John[1]
[1]Indiana University School of Medicine, Indianapolis, IN, United States, [2]Makerere University College of Health Sciences, Kampala, Uganda

1097

PREVALENCE OF ASYMPTOMATIC MALARIA IN SOUTHERN BENIN

Dossou Akpéyédjé Yannelle[1], Sissinto Yolande Savi de Tove[2], Gilles Cottrell[3]
[1]Clinical Research Institute of Benin, Abomey-Calavi, Benin, [2]University of Benin, Abomey-Calavi, Benin, [3]Research and Development Institute, Paris, France

1098

SPATIAL HETEROGENEITY OF THE SUBMICROSCOPIC MALARIA RESERVOIR IN RURAL BAGAMOYO DISTRICT, TANZANIA

Tyler J. Rapp[1], Cyrus Sinai[1], Billy Ngasala[2], Mwajabu Loya[2], Christopher Basham[1], Sifa Ngalasa[2], Michael Emch[1], Jessica Lin[1]
[1]University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [2]Muhimbili University of Health and Allied Sciences, Dar es Saalam, United Republic of Tanzania

1099

EVALUATING THE EFFECT OF EXTRACTIVE INDUSTRIES ON MALARIA TRANSMISSION IN THE DEMOCRATIC REPUBLIC OF THE CONGO

Cedar Mitchell[1], Mark Janko[2], Melchior K. Mwandagalirwa[3], Antoinette K. Tshefu[3], Jessie K. Edwards[1], Brian Pence[1], Jonathan J. Juliano[1], Michael Emch[1]
[1]University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [2]Institute for Health Metrics and Evaluation, Seattle, WA, United States, [3]Kinshasa School of Public Health, Kinshasa, Democratic Republic of the Congo

1100

MALARIA IN REFUGEE CHILDREN IN A HOLOENDEMIC REGION OF ZAMBIA: A RETROSPECTIVE COHORT AND CROSS-SECTIONAL STUDY

Manuela Hauser[1], Jean-Bertin Bukasa Kabuya[2], Nora Fritschi[3], Walter Taminang[4], Terry Chisha[5], Wycliffe Mwape Matende[4], Gershom Chongwe[6], William J. Moss[7], Nicole Ritz[8], Matthew M. Ippolito[9]
[1]University of Basel and Children's Research Center, University Children's Hospital Zurich,, Basel, Switzerland, [2]Department of Clinical Sciences, Tropical Diseases Research Centre, Ndola, Zambia, [3]Mycobacterial and Migrant Health Research Group, University of Basel Children's Hospital, and Department of Clinical Research, University of Basel, Basel, Switzerland, [4]United Nation High Commission for Refugees, Lusaka, Zambia, [5]Zambian Ministry of Home Affairs, Lusaka, Zambia, [6]Tropical Diseases Research Centre, Ndola, Zambia, [7]Department of Epidemiology and Johns Hopkins Malaria Research Institute, Johns Hopkins Bloomberg School of Public Health,, Baltimore, MD, United States, [8]Mycobacterial and Migrant Health Research Group and Infectious Disease and Vaccinology Unit, University Children's Hospital Basel, University of Basel and Department of Pediatrics, The Royal Children's Hospital Melbourne, The University of Melbourne, Basel, Switzerland, [9]Johns Hopkins Malaria Research Institute, Johns Hopkins Bloomberg School of Public Health and Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD, United States

1101

PREVALENCE OF MULTIPLE *PLASMODIUM* SPECIES IN UGANDA - TIME TO CONSIDER SUBMICROSCOPIC INFECTIONS AND NON-*FALCIPARUM* MALARIA IN THE CONTROL AND TREATMENT STRATEGIES?

Giselle Lima-Cooper[1], Dibyadyuti Datta[1], Ruth Namazzi[2], Andrea Conroy[1], Robert Opoka[2], Chandy C. John[1]
[1]Indiana University, Indianapolis, IN, United States, [2]Makerere University, Kampala, Uganda

1102

ELUCIDATING MALARIA *PLASMODIUM* SPECIES COINFECTIONS ACROSS ZAMBIA USING MOLECULAR AND GENOMIC APPROACHES

Ilinca I. Ciubotariu[1], Daniel J. Bridges[2], Abebe A. Fola[1], Mulenga C. Mwenda[2], Brenda Mambwe[2], Conceptor Mulube[2], Moonga Hawela[3], Giovanna Carpi[1]
[1]Purdue University, Department of Biological Sciences, West Lafayette, IN, United States, [2]PATH Malaria Control and Elimination Partnership in Africa (MACEPA), Lusaka, Zambia, [3]National Malaria Elimination Centre, Zambia Ministry of Health, Chainama Hospital Grounds, Lusaka, Zambia

1103

ENVIRONMENTAL RISK OF MALARIA INFECTION ALONG THE MOZAMBIQUE AND ZIMBABWE BORDER

Kelly M. Searle[1], Alexa Steiber[1], Dominique Earland[1], Anísio Novela[2], Albino Bibe[3], João L. Ferrão[4]
[1]University of Minnesota, Minneapolis, MN, United States, [2]Direcção Distrital de Saúde de Sussundenga, Manica, Sussundenga, Mozambique, [3]Escola Secondária de Sussundenga, Sussundenga, Mozambique, [4]Instituto Superior de Ciências de Educação, Beira, Mozambique

1104

SEROLOGICAL MARKERS OF PREVIOUS EXPOSURE TO *PLASMODIUM FALCIPARUM* AND *PLASMODIUM VIVAX* IN WESTERN ETHIOPIA

Brook Jeang[1], Arlene E. Dent[2], Delenasaw Yewhalaw[3], James W. Kazura[2], Guiyun Yan[1]
[1]University of California, Irvine, Irvine, CA, United States, [2]Case Western Reserve University, Cleveland, OH, United States, [3]Jimma University, Jimma, Ethiopia

1105

ANALYSIS OF PREDICTORS OF INSECTICIDE TREATED NET USE (ITN) IN GUINEA USING MACHINE LEARNING ALGORITHMS

Ousmane Oumou Diallo[1], Ifeoma D Ozodiegwu[1], Alioune Camara[2], Beatrice Galatas[3], Jaline Gerardin[1]
[1]Northwestern University, Evanston, IL, United States, [2]National Malaria Control Program, Guinea, Conakry, Guinea, [3]Global Malaria Programme, World Health Organization, Geneva Switzerland, Geneve, Switzerland

1106

ANALYSIS OF MALARIA TRENDS WITH RESPECT TO THE IMPLEMENTATION OF CONTROL INTERVENTIONS BETWEEN 2014 AND 2020 IN DANGASSA, MALI

Mahamoudou Touré[1], Fousseyni Kané[1], Daouda Sanogo[1], Drissa Konate[1], Moussa Keita[1], Salim Kanté[1], Aboubakar K. Fomba[1], Nafomon Sogoba[1], Mahamadou Diakité[1], Jeffrey G. Shaffer[2], Seydou O. Doumbia[1]
[1]University of Sciences, Techniques and Technologies of Bamako, Bamako, Mali, [2]Tulane University, New Orleans, LA, United States

1107

DECLINING MALARIA TRANSMISSION AND ANTIBODY PROFILE KINETICS TO *PLASMODIUM FALCIPARUM*: A LONGITUDINAL STUDY IN SOUTHERN ZAMBIA FROM 2008 TO 2015

Tamaki Kobayashi[1], Harry Hamapumbu[2], Philip E. Thuma[2], Kevin Tetteh[3], Chris Drakeley[3], William J. Moss[1]
[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]Macha Research Trust, Choma, Zambia, [3]London School of Hygiene & Tropical Medicine, London, United Kingdom

1108

THE EMERGENCE OF A NEW MALARIA HOTSPOT: IMPORTED AND INDIGENOUS MALARIA IN THE BORDER STATE OF RORAIMA FROM 2016 TO 2020 AND CHALLENGES DURING THE COVID-19 PANDEMIC

Paola Marchesini[1], Erika Wetzler[2], Leopoldo Villegas[3], Sara Canavati[2]
[1]Ministry of Health, Brasilia, Brazil, [2]World Vision, Washington DC, MD, United States, [3]ASOCIS, Tumeremo, Bolivar, Bolivarian Republic of Venezuela

1109

PREDICTORS AND ASSOCIATIONS WITH MATERNAL AND BIRTH OUTCOMES OF *PLASMODIUM FALCIPARUM* INFECTION IN THE FIRST TRIMESTER AMONG NULLIPAROUS WOMEN FROM THE DEMOCRATIC REPUBLIC OF THE CONGO, KENYA, AND ZAMBIA

Sequoia I. Leuba[1], Daniel Westreich[1], Carl L. Bose[2], Kimberly A. Powers[1], Andy Olshan[1], Steve M. Taylor[3], Antoinette Tshefu[4], Adrien Lokangaka[4], Waldemar A. Carlo[5], Elwyn Chomba[6], Edward A. Liechty[7], Fabian Esamai[8], Saleem Jessani[9], Sarah Saleem[9], Robert L. Goldenberg[10], Janet L. Moore[11], Jennifer Hemingway-Foday[11], Elizabeth M. McClure[11], Marion Koso-Thomas[12], Richard J. Derman[13], Matthew K. Hoffman[14], Melissa Bauserman[2]
[1]Department of Epidemiology, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [2]Department of Pediatrics, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [3]Division of Infectious Diseases and Duke Global Health Institute, Duke University Medical Center, Durham, NC, United States, [4]Kinshasa School of Public Health, Kinshasa, Democratic Republic of the Congo, [5]University of Alabama at Birmingham, Birmingham, AL, United States, [6]University Teaching Hospital, Lusaka, Zambia, [7]School of Medicine, Indiana University, Indianapolis, IN, United States, [8]Department of Child Health and Paediatrics, Moi University School of Medicine, Eldoret, Kenya, [9]Department of Community Health Sciences, Aga Khan University, Karachi, Pakistan, [10]Department of Obstetrics and Gynecology, Columbia University, New York, NY, United States, [11]Social, Statistical and Environmental Sciences, RTI International, Research Triangle Park, NC, United States, [12]Eunice Kennedy Shriver National Institute of Child Health and Human Development, Bethesda, MD, United States, [13]Thomas Jefferson University, Philadelphia, PA, United States, [14]Department of Obstetrics and Gynecology, Christiana Care, Newark, DE, United States

1110

RESIDING AND TRAVELING AT THE ZIMBABWE-MOZAMBIQUE BORDER: A STUDY OF BORDER MALARIA IN MUTASA DISTRICT, ZIMBABWE

Ellen Ferriss[1], Sungano Mharakurwa[2], Shungu Munyati[3], Lovemore Gwanzura[4], Amy Wesolowski[1], William J. Moss[1]
[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]Africa University, Mutare, Zimbabwe, [3]Biomedical Research and Training Institute, Harare, Zimbabwe, [4]University of Zimbabwe, Harare, Zimbabwe

1111

DETERMINING ANTIGEN DIVERSITY AND IMMUNE SELECTION TARGETS OF LEADING *PLASMODIUM VIVAX* VACCINE CANDIDATES AND SEROSURVEILLANCE MARKERS

Paolo N. Bareng[1], Myo Naung[2], Somya Mehra[3], Alyssa E. Barry[1]
[1]Institute for Mental and Physical Health and Clinical Translation (IMPACT), School of Medicine, Deakin University, Victoria, Australia, [2]Division of Population Health and Immunity, Walter and Eliza Hall Institute of Medical Research, Victoria, Australia, [3]Life Sciences Discipline, Burnet Institute, Victoria, Australia

Malaria – Immunology

1112

CONTROLLED HUMAN MALARIA INFECTIONS WITH NF54 AND 7G8 STRAINS ELICIT DIFFERENTIAL ANTIBODY RESPONSES TO *PLASMODIUM FALCIPARUM* PEPTIDES

DeAnna Friedman-Klabanoff[1], Travis L. Jensen[2], Kirsten E. Lyke[1], Matthew B. Laurens[1], Joana C. Silva[3], Emily M. Stucke[1], Amed Ouattara[1], Casey E. Gelber[2], Johannes B. Goll[2], Jigar J. Patel[4], John C. Tan[4], Gregory A. Deye[5], Shannon Takala-Harrison[1], Mark A. Travassos[1], Andrea A. Berry[1]
[1]Center for Vaccine Development and Global Health, University of Maryland School of Medicine, Baltimore, MD, United States, [2]The Emmes Company, Rockville, MD, United States, [3]Institute for Genome Sciences, University of Maryland School of Medicine, Baltimore, MD, United States, [4]Nimble Therapeutics, Inc., Madison, WI, United States, [5]Parasitology and International Programs Branch, Division of Microbiology and Infectious Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

(ACMCIP Abstract)

1113

DEEP IMMUNOPROFILING OF TFH CELLS ASSOCIATED WITH *PLASMODIUM FALCIPARUM* PFSEA-1A AND PFGARP RESPONSES FROM ADULTS AND CHILDREN IN KENYA

Catherine Suzanne Christine Forconi[1], Erastus Kirwa[2], Hannah W. Wu[3], John Michael Onge'cha[2], Jonathan Kurtis[3], Ann Moormann[1]
[1]University of Massachusetts Medical School, Worcester, MA, United States, [2]Center for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya, [3]Department of Pathology and Laboratory Medicine, Brown University, Providence, RI, United States

1114

PLASMODIUM LIVER STAGE-TARGETED ANTIBODIES CAN REDUCE PARASITE LIVER BURDEN AND SYNERGIZE WITH ANTI-CSP ANTIBODIES TO PROVIDE ENHANCED STERILE PROTECTION

Thomas Martinson[1], Maya Aleshnick[1], Isabella Updyke-Welch[1], Alexander Watson[2], Nicholas Dambrauskas[2], Noah D. Sather[2], **Brandon K. Wilder**[1]
[1]Oregon Health and Science University, Portland, OR, United States, [2]Seattle Children's Research Institute, Seattle, WA, United States

(ACMCIP Abstract)

1115

EVIDENCE OF ACTIVATION OF HOFBAUER CELLS IN ACTIVE PLACENTAL MALARIA

Bartholomew N. Ondigo[1], Paul S. Blank[2], Ian N. Moore[3], Sundar Ganesan[4], Kevin W. Bock[3], Almahamoudou Mahamar[5], Oumar Attaher[5], Bacary S. Diarra[5], Youssoufa Sidibe[5], Alassane Dicko[5], Patrick E. Duffy[6], Michal Fried[6]
[1]Laboratory of Malaria Immunology and Vaccinology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Department of Biochemistry and Molecular Biology, Egerton University, Kenya, Bethesda, MD, United States, [2]Section on Integrative Biophysics, Division of Basic and Translational Biophysics, Eunice Kennedy Shriver National Institute of Child Health and Human Development, National Institutes of Health, Bethesda, MD, United States, [3]Comparative Medicine Branch, Infectious Disease Pathogenesis Section, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States, [4]Research Technologies Branch, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, [5]Malaria Research & Training Center, Faculty of Medicine, Pharmacy and Dentistry, University of Sciences Techniques and Technologies of Bamako, Bamako, Mali, [6]Laboratory of Malaria Immunology and Vaccinology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

(ACMCIP Abstract)

1116

LONGITUDINAL MEASUREMENTS CHARACTERIZE ROLE OF INFLAMMATORY DYSREGULATION IN SEVERE MALARIAL ANEMIA

Kristen M. Wilding[1], Samuel Anyona[2], Evans Raballah[3], Qiuying Cheng[4], Ivy Hurwitz[4], Alexandra Yingling[4], Ananias Escalante[5], Kristan Schneider[6], Collins Ouma[7], Benjamin H. McMahon[1], Douglas J. Perkins[4]
[1]Los Alamos National Laboratory, Los Alamos, NM, United States, [2]Department of Medical Biochemistry, School of Medicine, Maseno University, Maseno, Kenya, [3]Department of Medical laboratory Sciences, School of Health Sciences, Masinde Muliro University of Science and Technology, Kakamega, Kenya, [4]Center for Global Health, Department of Internal Medicine, University of New Mexico Health Sciences Center, Albuquerque, NM, United States, [5]Temple University, Philadelphia, PA, United States, [6]Department of MNI, University of Applied Sciences Mittweida, Mittweida, Germany, [7]Department of Biomedical Sciences and Technology, School of Public Health and Community Development, Maseno University, Maseno, Kenya

(ACMCIP Abstract)

1117

A PARASITE PROTEIN THAT LOCALIZES TO THE LIVER STAGE NUCLEUS IS ESSENTIAL FOR ITS COMPLETE MATURATION

Debashree Goswami[1], Silvia A. Arrendondo[1], Janna Gibson[1], William Betz[1], Sean C. Murphy[2], Stefan H.I. Kappe[3], Ashley M. Vaughan[3]
[1]Seattle Childrens Research Institute, Seattle, WA, United States, [2]Department of Laboratory Medicine, University of Washington, Seattle, WA, United States, [3]Seattle Childrens Research Institute, Department of Pediatrics, University of Washington, Seattle, WA, United States

1118

ANTIBODIES TO PFEXP1 AND PFMSP1 ASSOCIATED WITH LACK OF INFECTIVITY IN CONTROLLED HUMAN MALARIA INFECTION IN EQUATOGUINEAN ADULTS

Natasha KC[1], Kayla McLeod[1], Sumana Chakravarty[1], Tooba Murshedkar[1], Maximillian Mpina[2], Elizabeth Nyakarungu[3], Salim Abdulla[3], Said Jongo[3], Tobias Schindler[4], Claudia Daubenberger[4], Jose Raso Bijeri[5], Vicente Urbano[5], Maria Silvia A. Lopez Mikue[5], Martin Eka Ondo[5], Matilda Riloha[5], Juan Carlos Momo[5], Wonder Philip Phiri[6], Guillermo A. Garcia[6], Bonifacio Manguire Nlavo[7], Galit Alter[8], Raul Chuquiyauri Haro[1], B. Kim Lee Sim[1], Peter Billingsley[1], LW Preston Church[1], Thomas L. Richie[1], Stephen L. Hoffman[1]
[1]Sanaria Inc, Rockville, MD, United States, [2]Swiss Tropical and Public Health Institute, Basel, Switzerland, [3]Ifakara Health Institute, Bagamoyo Research and Training Centre, Bagamoyo, United Republic of Tanzania, [4]Swiss Tropical and Public Health Institute, Basel, Swaziland, [5]Ministry of Health and Social Welfare, Malabo, Equatorial Guinea, [6]Medical Care Development International, Silver Spring, MD, United States, [7]Marathon Oil, Houston, TX, United States, [8]Ragon Institute of MGH, MIT and Harvard, Cambridge, MA, United States

1119

THE IMPACT OF LOW MALARIA TRANSMISSION INTENSITY ON THE DEVELOPMENT OF ANTIBODY TO *P. FALCIPARUM* IN PREGNANCY

Meseret W. Kassa[1], André Barateiro[2], Jamille G. Dombrowsk[2], Elizabeth H. Aitken[1], Cláudio R. Marinho[2], Stephen J. Rogerson[1]
[1]Department of Infectious Diseases, The Peter Doherty Institute for Infection and Immunity, University of Melbourne, Melbourne, Australia, [2]Department of Parasitology, Institute of Biomedical Sciences, University of São Paulo, São Paulo, Brazil

(ACMCIP Abstract)

1120

LIVER STAGE *PLASMODIUM* INFECTION-INDUCED IFN-I SIGNALING REMODELS INTRAHEPATOCYTIC SIGNALING TO IMPAIR HEPATIC CD8 T CELL MEMORY

Nana K. Minkah, Laura Reynolds, Vera Okolo, Ashley M. Vaughan, Stefan H. Kappe
Seattle Children's Research Institute, Seattle, WA, United States

(ACMCIP Abstract)

1121

ESTABLISHING A RELIABLE *PLASMODIUM KNOWLESI* (PK) SPOROZOITE (SPZ)-BASED IMMUNIZATION AND CHALLENGE MODEL IN RHESUS MACAQUES

Sumana Chakravarty[1], Natasha KC[1], Urvashi Rai[1], Sean C. Murphy[2], Stephen L. Hoffman[1]
[1]Sanaria Inc., Rockville, MD, United States, [2]Department of Laboratory Medicine, University of Washington, Seattle, WA, United States

Malaria – Operational

1122

THE ECONOMIC BURDEN OF MALARIA IN PREGNANCY IN ENDEMIC COUNTRIES: EVIDENCE FROM NIGERIA AND DEMOCRATIC REPUBLIC OF CONGO

Laia Cirera, Elisa Sicuri, Franco Pagnoni, Clara Menéndez
ISGlobal, Barcelona, Spain

1123

A DESCRIPTION OF MALARIA-RELATED KNOWLEDGE, PERCEPTIONS, PRACTICES, AND TREATMENT- SEEKING BEHAVIORS OF MOBILE MIGRANTS WORKERS IN JAZAN, SAUDI ARABIA

Shaymaa Abdalal[1], Joseph Keating[1], Mohammad Shammaky[2], Hassan Ozayr[2], Hussan Alkhayri[2]
[1]Tulane University of Louisiana, New Orleans, LA, United States, [2]Center of Vector Born disease , Public Health Department Ministry of Health, Jazan, Saudi Arabia

1124

A PATIENT FROM THE DEMOCRATIC REPUBLIC OF CONGO WHO TRAVELED TO CONNECTICUT 3 MONTHS AGO NOW PRESENTS WITH ARTHRALGIAS AND HEADACHE

Jessica J. Tuan
Yale University School of Medicine, New Haven, CT, United States

1125

COMMUNITY MALARIA RDT BELIEFS IN WESTERN KENYA: HOW DOES EXPERIENCE WITH TESTING AFFECT CONFIDENCE IN, AND ADHERENCE, TO RDTS?

Judith Nekesa Mangeni[1], Indrani Saran[2], Lucy Abel[1], Steve Taylor[3], Andrew Obala[1], Wendy P. O'Meara[3]
[1]Moi University, Eldoret, Kenya, [2]Boston University College, Boston, MA, United States, [3]Duke University, Durham, NC, United States

1126

NON-MONETARY STRATEGIES FOR MOTIVATION OF COMMUNITY HEALTH WORKERS IMPLEMENTING INTEGRATED COMMUNITY CASE MANAGEMENT OF MALARIA, PNEUMONIA AND DIARRHOEA IN UGANDA

Alex Ndyabakira[1], Betty Nambuusi[1], Rebecca Babirye[1], Joel Kato[1], Damian Rutazaana[2], Henry Katamba[2], Catherine Maiteki[2], Jimmy Opigo[2], Phellister Nakamya[1], Ruth Nabwire[2], Maureen Amutuhaire[2], Fred Kitutu[3], JohnBosco Asiimwe[4]
[1]Program for Accessible Health Communication and Education, Kampala, Uganda, [2]Ministry of Health, Kampala, Uganda, [3]Makerere University School of Health Sciences, Kampala, Uganda, [4]School of Statistics and planning, Makerere University Kampala, Kampala, Uganda

1127

THE EFFECT OF THE INTEGRATED COMMUNITY CASE MANAGEMENT STRATEGY ON UNDER-FIVE MORBIDITY IN RURAL UGANDA

Phellister Nakamya[1], Alex Ndyabakira[1], Betty Nambuusi[1], Daniel kyabayinze[2], Ruth Nabwire[2], Mathias Kasule[2], Johnbosco Asiimwe[3], Rebecca Babirye[1], Joel Kato[1], Maureen Amutuhaire[2], Jimmy Opigo[2]
[1]Programme for Accessible Health Communication and Education (PACE Uganda), Kampala, Uganda, [2]Ministry Of Health Uganda, Kampala, Uganda, [3]School of Statistics & Planning, Makerere University, Kampala, Kampala, Uganda

1128

STRENGTHENING POST TRAINING CONTINUOUS QUALITY IMPROVEMENT PROCESSES FOR BETTER CAPTURE AND REPORTING OF INPATIENT MALARIA DATA: A CASE FROM MIGORI COUNTY REFERRAL HOSPITAL IN KENYA

Alphonce Nyakech[1], Joyce N'ganga[2], Fredrick Keya[2], Augustine Ngindu[1], Maureen Mabiria[1], Dickson Mwakangalu[1], Sarah-Blythe Ballard[3], Gladys Tetteh[4], Lolade Oseni[4], Florence Ngere[2]
[1]PMI Impact Malaria Project, Nairobi, Kenya, [2]MOH/KEMRI Clinical Information Network, Migori, Kenya, [3]US President's Malaria Initiative, US Centers for Disease Control and Prevention, Nairobi, Kenya, [4]PMI Impact Malaria Project, Baltimore, MD, United States

1129

IMPROVING INPATIENT MALARIA DATA REPORTING AND OUTCOME MEASUREMENT ACCURACY THROUGH CLINICAL MENTORSHIP OF HEALTHCARE WORKERS IN KENYA, 2019-2020

Maureen Mabiria[1], Florentius Ndinya[2], Fredrick Odhiambo[3], Hellen Gatakaa[1], Augustine Ngindu[1], Dickson Mwakangalu[1], Sarah-Blythe Ballard[4], Gladys Tetteh[5], Lolade Oseni[5]
[1]PMI Impact Malaria Project, Nairobi, Kenya, [2]Jaramogi Oginga Odinga Teaching and Referral Hospital, Kisumu, Kenya, [3]Division of National Malaria Program, Kisumu, Kenya, [4]US President's Malaria Initiative, US Centers for Disease Control and Prevention, Nairobi, Kenya, [5]PMI Impact Malaria Project, Baltimore, MD, United States

1130

A UNIQUE CHEMOPROPHYLAXIS APPROACH FOR MALARIA PREVENTION AMONG NON-IMMUNE OIL AND GAS WORKERS

Muhammad W. Fazail, Candace McAlester, Susan Ngunjiri, Damola Adesakin, Richard H. Gelatt, Malick Diara
ExxonMobil, Spring, TX, United States

1131

GENOTYPING *PLASMODIUM FALCIPARUM* MATURE GAMETOCYTES USING AMPLICON DEEP SEQUENCING

Jimmy Vareta, Biraj Shrestha, Amed Ouattara, Miriam Laufer, Shannon Takala-Harrison
University of Maryland Baltimore, Baltimore, MD, United States

1132

MAPPING HOUSE LOCATION WITH REMOTE SENSING AND MACHINE LEARNING METHOD IN WESTERN KENYA

Ming-Chieh Lee, Guiyun Yan
University of California, Irvine, Irvine, CA, United States

1133

ESTABLISHMENT AND USE OF MALARIA E-TOOLKIT TO INCREASE ACCESS TO STRATEGIC MALARIA RESOURCES IN NIGERIA

Oluwatobiloba Akerele[1], Linda Okafor[2], Abba Umar[2], Uchenna Nwokenna[2], Kazeem Ayankola[2], Yakubu Cherima[2], Olusesan Ishola-Gbenla[2], Abimbola Olayemi[2], Maya Gershtenson[3], Meenakshi Mehra[3], Perpetua Uhomoibhi[4], Chukwu Okoronkwo[4], Modiu Aro[4], Abel Ajeigbe[4], Thomas Hall[3], Ratha Loganathan[3]
[1]Management Sciences for Health, Calabar, Nigeria, [2]Management Sciences for Health, Abuja, Nigeria, [3]Management Sciences for Health, Arlington, VA, United States, [4]National Malaria Elimination Programme, Abuja, Nigeria

1134

STRENGTHENED CAPACITY ENHANCES HEALTH WORKERS' ABILITY FOR MALARIA CASE MANAGEMENT IN CROSS RIVER STATE, NIGERIA

Etieno Etuk[1], Victor Bassey[1], Aniefiok Akpasa[1], Linda-Kaka Enyia[1], Aniefiok Akpasa[1], Augustine Firima[1], Kenechukwu Ugbene[1], Asuquo Ekwe[2], Dorathy Ekom[2], Abba Umar[3], Uchenna Nwokenna[3], Kazeem Ayankola[3], Abimbola Olayemi[3], Paul Waibale[4], Thomas Hall[5], Ratha Loganathan[5]
[1]Management Sciences for Health, Calabar, Nigeria, [2]State Malaria Elimination Programme, Cross River State, Calabar, Nigeria, [3]Management Sciences for Health, Abuja, Nigeria, [4]Management Sciences for Health, Kampala, Uganda, [5]Management Sciences for Health, Arlington, VA, United States

1135

STRENGTHENING COORDINATION SYSTEMS AND PROCESSES FOR BETTER FINANCING OF MALARIA IN NIGERIA THROUGH THE MALARIA ANNUAL OPERATIONAL PLAN DEVELOPMENT AND MONITORING PROCESS - CASE STUDIES OF FOUR STATES

Esther Ayandipo[1], Ime Akpan[2], Victor Bassey[3], Grace Nwankwo[4], Abba Umar[5], Uchenna Nwokenna[5], Abimbola Olayemi[5], Kazeem Ayankola[5], Paul Waibale[6], Oyewole Lawal[7], Iwara Iwara[8], Michael Urom[9], Godfrey Akro[10], Emeka Nsofor[11], Muyiwa Tegbe[12], Thomas Hall[13], Ratha Loganathan[13]

[1]Management Sciences for Health, Ibadan, Nigeria, [2]Management Sciences for Health, Uyo, Nigeria, [3]Management Sciences for Health, Calabar, Nigeria, [4]Management Sciences for Health, Abakaliki, Nigeria, [5]Management Sciences for Health, Abuja, Nigeria, [6]Management Sciences for Health, Kampala, Uganda, [7]State Ministry of Health, Oyo State, Ibadan, Nigeria, [8]State Ministry of Health, Cross River State, Calabar, Nigeria, [9]State Ministry of Health, Ebonyi State, Abakaliki, Nigeria, [10]State Ministry of Health, Akwa Ibom State, Uyo, Nigeria, [11]ThinkWell, Lagos, Nigeria, [12]ThinkWell, Baltimore, MD, United States, [13]Management Sciences for Health, Arlington, VA, United States

1136

RELIABILITY OF MALARIA INDICATORS IN HEALTH DISTRICTS IN BURKINA FASO: EFFECTS OF AN INTEGRATED QUALITY ASSURANCE PROGRAM

Siaka Debe[1], Christelle Gogue[2], René N. Kinda[1], Sonia Ilboudo[1], Gerard W. Nonkani[1], Adama Ganou[1], Gauthier Tougri[3], N'Fale Sagnon[1], Moussa W. Guelbeogo[1], Molly Robertson[4], Adama Gansané[1]

[1]Centre National de Recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso, [2]PATH, Washington, DC, United States, [3]Progamme National de Lutte contre le Paludisme, Ouagadougou, Burkina Faso, [4]PATH, Seattle, WA, United States

1137

A CASE STUDY OF TOXIC EPIDERMAL NECROLYSIS (TEN) FOLLOWING ADMINISTRATION OF DIHYDROARTEMISIN-PIPERAQUINE (DP) IN A MASS TREATMENT CAMPAIGN IN UGANDA

Fred Bukenya[1], Ronald Mulebeke[2], Humphrey Wanzira[1], Thomas Eganyu[1], Richard Elliott[3], Adoke Yeka[2], Dorothy Echodu[4]

[1]Pilgrim Africa, Kampala, Uganda, [2]Makerere University School of Public Health, Kampala, Uganda, [3]Boise State University, Boise, ID, United States, [4]Pilgrim Africa, Seattle, WA, United States

Malaria – Prevention

1138

EFFECTIVENESS AND SAFETY OF INTERMITTENT PREVENTIVE TREATMENT FOR MALARIA USING EITHER DIHYDROARTEMISININ-PIPERAQUINE OR ARTESUNATE-AMODIAQUINE IN REDUCING MALARIA RELATED MORBIDITIES AND IMPROVING COGNITIVE ABILITY IN SCHOOL-AGED CHILDREN IN TANZANIA: A CONTROLLED RANDOMIZED TRIAL

Geofrey Makenga[1], Vito Baraka[1], Filbert Fransis[1], Samwel Gesase[1], George Mtove[1], Rashidi Madebe[1], Edna Kyaruzi[2], Daniel T. Minja[1], John P. Lusingu[1], Jean-Pierre Van geertruyden[3]

[1]National Institute for Medical Research, Tanga, United Republic of Tanzania, [2]College of Education (DUCE), University of Dar es Salaam, Dar es salaam, United Republic of Tanzania, [3]Global Health Institute, University of Antwerp, Antwerp, Belgium

1139

PRELIMINARY FINDINGS ON IMPACT OF SEASONAL MALARIA CHEMOPREVENTION ON MALARIA INCIDENCE AMONG CHILDREN 5 TO 10 YEARS OF AGE IN A HIGH MALARIA PREVALENCE REGION IN MALI (SIKASSO)

Beh Kamate[1], Mohamadine A. Maiga[1], Chebou Diallo[1], Samba Coumare[1], Abdrahamane Diallo[2], Renion Saye[3], Oumar Yattara[1], Curt von Boguslawski[4], Jules Mihigo[5], Aliou Diallo[5], Diahara Traoré[6], Vincent Sanogo[6], Charlotte Eddis[7], Tabitha Kibuka[7], Jadmin Mostel[7], Idrissa Cissé[6]

[1]PMI Impact Malaria, PSI, Bamako, Mali, [2]PMI Impact Malaria, Jhpiego, Bamako, Mali, [3]PMI Impact Malaria, MCDI, Bamako, Mali, [4]PSI, Bamako, Mali, [5]USAID, Bamako, Mali, [6]National Malaria Control Program, MOH, Bamako, Mali, [7]PMI Impact Malaria, PSI, Washington, DC, United States

1140

MOLECULAR MECHANISMS OF *PLASMODIUM* CANDIDATE PROTEINS INTERACTION DURING PARASITE INVASION OF MIDGUTS

Yacob Keleta, Guodong Niu, Jun Li

Florida International University, Miami, FL, United States

(ACMCIP Abstract)

1141

TRENDS IN COVERAGE, OWNERSHIP AND USE OF LONG-LASTING INSECTICIDAL NETS WITH, AND WITHOUT, PIPERONYL BUTOXIDE (PBO) AFTER A UNIVERSAL COVERAGE CAMPAIGN IN UGANDA: A SECONDARY ANALYSIS OF DATA FROM A PRAGMATIC CLUSTER-RANDOMIZED TRIAL (LLINEUP)

Samuel Gonahasa[1], Catherine Maiteki-Sebuguzi[2], Grant Dorsey[3], Jimmy Opigo[2], Simon Peter Kigozi[1], Janet Hemingway[4], Moses R. Kamya[1], Martin Donnelly[4], Sarah G. Staedke[5]

[1]Infectious Diseases Research Collaboration, Kampala, Uganda, [2]Ministry of Health (MOH/NMCD), Kampala, Uganda, [3]University of California, San Francisco, San Francisco, CA, United States, [4]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [5]London School of Hygiene & Tropical Medicine, London, United Kingdom

1142

FINDINGS FROM AN EFFECTIVENESS-IMPLEMENTATION HYBRID (EIH) TYPE I EVALUATION OF THE FEASIBILITY, ACCEPTABILITY AND PROTECTIVE EFFICACY OF SEASONAL MALARIA CHEMOPREVENTION IN TWO DISTRICTS IN KARAMOJA, UGANDA

Anthony Nuwa[1], Jimmy Opigo[2], Maureen Nakirunda[1], Kevin Baker[3], David Salandini[1], Tonny Kyagulanyi[1], Craig Bonnington[3], Christian Rassi[3], Madeleine Marasciulo-Rice[4], Godfrey Magumba[1], Musa Odongo[1], Jane Achan[3], Sol Richardson[3], Jane Nabakooza[2], Denis Rubahika[2], James Tibenderana[3]

[1]Malaria Consortium Uganda, Kampala, Uganda, [2]National Malaria Control Division, MOH, Kampala, Uganda, [3]Malaria Consortium UK, London, United Kingdom, [4]Malaria Consortium US, Raleigh, NC, United States

1143

MALARIA CHEMOPREVENTION IN KENYAN CHILDREN WITH SICKLE CELL ANEMIA: A RANDOMIZED, OPEN-LABEL, 12-MONTH TRIAL COMPARING DAILY PROGUANIL, MONTHLY SULFADOXINE-PYRIMETHAMINE/AMODIAQUINE, AND MONTHLY DIHYDROARTEMISININ-PIPERAQUINE

Steve M. Taylor[1], Sarah Korwa[2], Cindy Green[3], Sheila Clapp[3], Angie Wu[3], Joseph K. Kirui[2], Wendy P. O'Meara[1], Festus M. Njuguna[2]

[1]Duke University, Durham, NC, United States, [2]Moi University, Eldoret, Kenya, [3]Duke Clinical Research Institute, Durham, NC, United States

1144

EFFECT OF LARGE-SCALE MASS DRUG ADMINISTRATION FOR MALARIA ON MORTALITY AND MORBIDTY IN ANGUMU HEALTH ZONE, ITURI, DEMOCRATIC REPUBLIC OF CONGO

Yves Katuala[1], **Lise Grout**[2], Trish Newport[3], Priscillah Gitahi[4], Tom Adoum Mahamat[4], Jean Jacques Mandagot[4], Michel Quere[3], Sophie Wodon[3], Iza Ciglenecki[3], Mathieu Bastard[5], Francis Baelongandi[6], Louis Tshulo[7], Herman Jakisa[7], Esther Sterk[3], Etienne Gignoux[5]

[1]Médecins Sans Frontières, Kisangani, Democratic Republic of the Congo, [2]Epicentre, Paris, France, [3]Médecins Sans Frontières, Geneva, Switzerland, [4]Médecins Sans Frontières, Bunia, Democratic Republic of the Congo, [5]Epicentre, Geneva, Switzerland, [6]Ministry of Public Health, Kisangani, Democratic Republic of the Congo, [7]Ministry of Public Health, Bunia, Democratic Republic of the Congo

1145

ASSESSING COVERAGE OF SEASONAL MALARIA CHEMOPREVENTION IN GHANA IN 2020

George Adu[1], Nana Peprah[1], Boakye-Yiadom Adomako[1], Mohammed Wahjib[1], Sammy Oppong[1], Abubakari Ihsan[1], Ibrahima MBaye[2], Abena Poku-Awuku[3], Andre-Marie Tchouatieu[3], Corinne Merle[4], Paul Milligan[5], Susana Scott[5], Jean Louis NDiaye[2], Keziah L. Malm[1]

[1]National Malaria Control Programme, Accra, Ghana, [2]Universite de Thiès, Thiès, Senegal, [3]Medicines for Malaria Venture, Geneva, Switzerland, [4]UNDP/UNICEF/ World Bank/WHO Special Programme for Research and Training in Tropical Diseases (TDR)/ World Health Organization (WHO), Geneva, Switzerland, [5]London School of Hygiene&Tropical Medicine, London, United Kingdom

1146

A RECOMBINATION SYSTEM FOR THE CREATION OF STABLE ANTIPLASMODIAL PARATRANSGENIC *ASAIA SP.*

Thomas P. Kelly, David J. Lampe

Duquesne University, Pittsburgh, PA, United States

1147

IDENTIFYING AN OPTIMAL DIHYDROARTEMISININ-PIPERAQUINE DOSING REGIMEN FOR MALARIA PREVENTION IN YOUNG UGANDAN CHILDREN

Erika Wallender[1], Ali Mohamed Ali[1], Emma Hughes[1], Abel Kakuru[2], Prasanna Jagannathan[3], Mary Kakuru Muhindo[2], Bishop Opira[2], Meghan Whalen[1], Liusheng Huang[1], Moses Kamya[4], Grant Dorsey[1], Francesca Aweeka[1], Philip J. Rosenthal[1], Rada Savic[1]

[1]University of California, San Francisco, San Francisco, CA, United States, [2]Infectious Diseases Research Collaboration, Kampala, Uganda, [3]Stanford University, Palo Alto, CA, United States, [4]Makerere University and Infectious Diseases Research Collaboration, Kampala, Uganda

1148

PERSPECTIVES OF HEALTHCARE PROVIDERS ON FACTORS ENABLING OR INHIBITING THE UPTAKE OF INTERMITTENT PREVENTIVE TREATMENT OF MALARIA FOR PREGNANT WOMEN IN OYO STATE, NIGERIA

Olabisi Kalejaye[1], Taiwo Olarinde[1], Abba Umar[2], Paul Waibale[3], Kazeem Ayankola[2], Uchenna Nwokenna[2], Esther Ayandipo[1], Elizabeth Adeleke[4], Abimbola Olayemi[2], Thomas Hall[5], Ratha Loganathan[5]

[1]Management Sciences for Health, Ibadan, Nigeria, [2]Management Sciences for Health, Abuja, Nigeria, [3]Management Sciences for Health, Kampala, Uganda, [4]State Ministry of Health, Oyo State, Ibadan, Nigeria, [5]Management Sciences for Health, Arlington, VA, United States

1149

IN HOSPITAL UTILIZATION OF LLINS IN THE NORTHWEST OF DEMOCRATIC REPUBLIC OF THE CONGO

Nono Mvuama[1], Josué Zanga[2], Patricia Konga[3], Emery Metelo[4], Philippe Lukanu[5], Paul Mansiangi[1]

[1]Kinshasa School of Public Health, Faculty of Medicine, University of Kinshasa, Kinshasa, Democratic Republic of the Congo, [2]Department of Tropical Medicine, Faculty of Medicine, University of Kinshasa, Kinshasa, Democratic Republic of the Congo, [3]Provincial Health Division of Mongala, Lisala, Democratic Republic of the Congo, [4]Faculty of Medicine, University of Bandundu, Kwilu, Democratic Republic of the Congo, [5]SANRU asbl, Kinshasa, Democratic Republic of the Congo

Malaria – Strategies for Elimination

1150

MALARIA *PLASMODIUM* CARRIAGE AFTER THE IMPLEMENTATION OF SEASONAL MALARIA CHEMOPREVENTION IN SENEGAL: CASE OF THE SARAYA HEALTH DISTRICT FROM 2013 TO 2015

Isaac Akhénaton Manga[1], Fassia Tairou[1], Khadime Sylla[1], Marie Pierre Diouf[1], Babacar Faye[1], Omar Gaye[1], Jean Louis Ndiaye[2]

[1]Service de parasitologie et mycologie UCAD, Dakar, Senegal, [2]Service de parasitologie et mycologie UFR Santé Université de Thiès, Thiès, Senegal

1151

ENGAGING THE PRIVATE SECTOR IN ACHIEVING ZERO MALARIA, COUNTRY CASE STUDIES FROM COTE D'IVOIRE, DRC, LIBERIA AND UGANDA

Sophie Faye, Catherine Clarence, Awa Dieng, Mignote Haile, Lisa Nichols

Abt Associates, Rockville, MD, United States

1152

IMPROVING PREDICTION OF POPULATION LOCATION FOR HOUSE-HOLD BASED SERVICE DELIVERY: DESCRIPTIVE ANALYSIS AND MODELING USING GEOTEMPORAL DATA

Anne C. Martin[1], James Nyirenda[1], Hannah Meridith[2], Christina Riley[1]

[1]Akros, Lusaka, Zambia, [2]Duke Global Health Institute, Duke University, Durham, NC, United States

1153

PRIVATE SECTOR ENGAGEMENT TOWARDS MALARIA CONTROL: PERSPECTIVES FROM STATE ACTORS AND ASSOCIATIONS OF PRIVATE HEALTHCARE PROVIDERS IN AKWA IBOM STATE, NIGERIA

Ime Akpan[1], Enobong Ndekhedehe[1], Augustine Firima[2], Abba Umar[3], Uchenna Nwokenna[3], Kazeem Ayankola[3], Abimbola Olayemi[3], Paul Waibale[4], Oluwatosin Adeyemo[5], Ndifreke Mbaba[6], Matt Griffith[5], Thomas Hall[7], Ratha Loganathan[7]

[1]Management Sciences for Health, Uyo, Nigeria, [2]Management Sciences for Health, Calabar, Nigeria, [3]Management Sciences for Health, Abuja, Nigeria, [4]Management Sciences for Health, Kampala, Uganda, [5]Banyan Global, Washington, DC, DC, United States, [6]Banyan Global, Uyo, Nigeria, [7]Management Sciences for Health, Arlington, VA, United States

1154

UNLOCKING THE POTENTIAL OF PRIVATE SECTOR HEALTH FACILITIES IN MALARIA CONTROL: FINDINGS FROM A MAPPING STUDY IN OYO STATE, SOUTH WEST NIGERIA

Taiwo Olarinde[1], Esther Ayandipo[1], Augustine Firima[2], Abba Umar[3], Paul Waibale[4], Uchenna Nwokenna[3], Kazeem Ayankola[3], Olubunmi Ayinde[5], Olusesan Ishola-Gbenla[3], Abimbola Olayemi[3], Titilayo Famade[6], Oluwatosin Adeyemo[7], Matt Griffith[8], Thomas Hall[9], Ratha Loganathan[9]
[1]Management Sciences for Health, Ibadan, Nigeria, [2]Management Sciences for Health, Calabar, Nigeria, [3]Management Sciences for Health, Abuja, Nigeria, [4]Management Sciences for Health, Kampala, Uganda, [5]State Ministry of Health, Oyo State, Ibadan, Nigeria, [6]Banyan Global, Ibadan, Nigeria, [7]Banyan Global, Brighton, United Kingdom, [8]Banyan Global, Washington DC, MD, United States, [9]Management Sciences for Health, Arlington, VA, United States

1155

PREVALENCE OF MALARIA INFECTION AND COVERAGE OF MALARIA CONTROL INTERVENTIONS AMONG PREGNANT WOMEN ATTENDING THEIR FIRST ANTENATAL CARE VISIT IN THREE HEALTH DISTRICTS OF BURKINA FASO: INTERIM RESULTS

René N. Kinda[1], Christelle Gogue[2], Siaka Debe[1], Adama Ganou[1], Sonia Ilboudo[1], Aladari Sagnon[1], Casimir Tarama[1], Mafama Siribie[1], Gauthier Tougri[3], N'Fale Sagnon[1], Moussa W. Guelbeogo[1], Julie R. Gutman[4], Molly Robertson[5], Adama Gansané[1]
[1]Centre National de Recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso, [2]PATH, Washington, DC, United States, [3]Programme National de Lutte contre le Paludisme, Ouagadougou, Burkina Faso, [4]Malaria Branch, Division of Parasitic Diseases and Malaria, Center for Global Health, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States, [5]PATH, Seattle, WA, United States

1156

IMPACT OF TARGETED DELIVERY OF INTERVENTIONS TO MALARIA HIGH RISK POPULATIONS IN NAMIBIA

Jennifer L. Smith[1], Henry Ntuku[1], Francois Rerolle[1], Cara Smith-Gueye[1], Jerry O. Jacobson[1], Petrina Uusiku[2], Immo Kleinschmidt[3], Davis Mumbengegwi[4], Roly Gosling[1], Adam Bennett[1]
[1]University of California San Francisco, San Francisco, CA, United States, [2]National Ministry of Health and Social Services, Windhoek, Namibia, [3]London School of Hygiene & Tropical Medicine, London, United Kingdom, [4]University of Namibia, Windhoek, Namibia

1157

THE IMPACT OF POPULATION-BASED INDOOR RESIDUAL SPRAYING, WITH AND WITHOUT A MASS TREATMENT CAMPAIGN, ON KEY MALARIA INDICATORS IN A HIGH TRANSMISSION SETTING IN NE UGANDA

Dorothy C. Echodu[1], Adoke Yeka[2], Kathryn Colborn[3], Benjamin Amoah[4], Humphrey Wanzirah[5], Thomas Eganyu[5], Richard Elliott[6], Fred Bukenya[5], Wycliff Odude[5], Kilama Maxwell[7], Joaniter Nankabirwa[7], Ronald Mulebeke[7], Samuel Gonahasa[7]
[1]Pilgrim Africa, Seattle, WA, United States, [2]University of Makerere, Kampala, Uganda, [3]Department of Biostatistics, University of Colorado Denver, Denver, CO, United States, [4]University of Lancaster, Lancaster, United Kingdom, [5]Pilgrim Africa, Kampala, Uganda, [6]Boise State University, Boise, ID, United States, [7]IDRC, Kampala, Uganda

1158

PERFORMANCE OF ZAMBIA'S NATIONAL MALARIA ELIMINATION PROGRAMME COMMUNITY HEALTH WORKERS

Travis Porter[1], Elizabeth Chiyende[2], Todd Jennings[2], Marie-Reine Rutagwera[2], Chris Lungu[2], Michael Hainsworth[3], Busiku Hamainza[4], Thomas P. Eisele[1], John M. Miller[2]
[1]Tulane University, New Orleans, LA, United States, [2]PATH, Lusaka, Zambia, [3]PATH, Seattle, WA, United States, [4]National Malaria Elimination Centre, Lusaka, Zambia

1159

FREEDOM FROM MALARIA INFECTION: A NOVEL FRAMEWORK FOR QUANTIFYING MALARIA ELIMINATION, AN EXAMPLE FROM INDONESIA

Luca Nelli[1], Henry Surendra[2], Riris Andono Ahmad[3], Risalia Reni Arisanti[3], Dyah Ayu Shinta Lesmanawati[3], Jason Matthiopoulos[1], Isabel Byrne[4], Elin Dumont[4], Chris Drakeley[4], Lindsey Wu[5], Gillian Stresman[4]
[1]University of Glasgow, Glasgow, United Kingdom, [2]Eijkman-Oxford Clinical Research Unit, Jakarta, Indonesia, [3]Universitas Gadjah Mada, Yogyakarta, Indonesia, [4]London School of Hygiene & Tropical Medicine, London, United Kingdom, [5]WHO Global Malaria Program, Geneva, Switzerland

Malaria – Vaccines

1160

DOES REBOUND MALARIA EXPLAIN THE HETEROGENEITY IN RTS,S/AS01 MALARIA VACCINE EFFICACY?

Griffin J. Bell[1], Stephaney Gyaase[2], David Dosoo[2], Musah Osei[2], Kenneth Wiru[2], Paulin Essone[3], Fabrice Mougeni[3], Pamela Minsoko[3], Bright Adu[4], Benedicta Mensah[4], Cyrus Sinai[5], Varun Goel[5], Karamoko Niare[6], Jonathan Juliano[7], Michael Hudgens[1], Anita Ghansah[4], Portia Kamthunzi[8], Selidji Todagbe Agnandji[3], Kwaku Poku Asante[2], Michael Emch[1], Jeffrey Bailey[6]
[1]UNC Gillings School of Global Public Health, Chapel Hill, NC, United States, [2]Kintampo Health Research Centre, Kintampo, Ghana, [3]Centre de Recherches Médicales de Lambaréné, Lambaréné, Gabon, [4]Noguchi Memorial Institute for Medical Research, Accra, Ghana, [5]UNC Chapel Hill, Chapel Hill, NC, United States, [6]Brown University, Providence, RI, United States, [7]UNC School of Medicine, Chapel Hill, NC, United States, [8]UNC Project - Malawi, Lilongwe, Malawi

1161

HUMAN-CENTERED DESIGN PROCESS AND SOLUTIONS TO PROMOTE MALARIA TESTING AND TREATMENT-SEEKING BEHAVIOR IN GUYANA HINTERLANDS

Joann Simpson[1], Shirley Yan[2], Lyndsey Mitchum[2], Jennifer Orkis[2], TrishAnn Davis[2], Sean Wilson[1], Neil Trotman[3], Helen Imhoff[3], Horace Cox[3], Gabrielle Hunter[2], Bolanle Olapeju[2], Camille Adams[1], Douglas Storey[2]
[1]Breakthrough ACTION Guyana, Georgetown, Guyana, [2]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [3]Guyana National Malaria Program, Georgetown, Guyana

1162

DESIGN AND CHARACTERIZATION OF SELF-ASSEMBLING PROTEIN NANOPARTICLE PRESENTING *PLASMODIUM FALCIPARUM* TRAP SUBDOMAINS IN CROSS-TERMINI DISPLAY

Cosette G. Schneider[1], Justin A. Taylor[1], Ishita N. Waghela[1], Xiaoyan Zou[2], Peter Burkhard[3], Evelina Angov[1]
[1]Walter Reed Army Institute of Research, Silver Spring, MD, United States, [2]Naval Medical Research Center, Silver Spring, MD, United States, [3]Alpha-O Peptides, Riehen, Switzerland

(ACMCIP Abstract)

1163

INFLUENCE OF TRUST ON THE ACCEPTANCE OF THE MALARIA VACCINE IN THE KASSENA-NANKANA DISTRICTS OF GHANA

Eustace Bugase, Paulina Tindana
University of Ghana, Accra, Ghana

1164

IMPACT OF A DELAYED AND FRACTIONATED THIRD DOSE OF R21/MATRIX-M ADJUVANT IN UK ADULTS

Duncan G. Bellamy, Lisa Stockdale, Mehreen Datoo, Jeremy Aboagye, Helen Sanders, Rebecca Makinson, Navin Venkatramann, Meera Madhaven, Amy Flaxman, Nick Edwards, Ian Poulton, Megan Baker, Fernando Ramos-Lopez, Jenny Reimer, Umesh Shaligram, Adrian V. Hill, Katie J. Ewer
University of Oxford, Oxford, United Kingdom

1165

A NOVEL PHYSIOLOGICAL MODEL TO STUDY *P. FALCIPARUM* INTERACTIONS IN PLACENTAL MALARIA

Rebecca Reif, Sumaiyah Shaha, Yuliya Fakhr, Catherine Mitran, Madeleine Wiebe, Denise Hemmings, Stephanie Yanow
University of Alberta, Edmonton, AB, Canada

1166

POTENT HUMAN MONOCLONAL ANTIBODIES TARGET DIFFERENT DOMAINS OF MALARIA TRANSMISSION BLOCKING VACCINE CANDIDATE PFS48/45

Amanda Fabra-García[1], Roos de Jong[1], Marta Szabat[2], Stefanie Vogt[2], Aoise O'Neill[2], Stephanie Pfaffen[2], Sherie Duncan[2], Veronique Lecault[2], Carl Hansen[2], Karina Teelen[1], Rianne Stoter[1], Marga van de Vegte-Bolmer[1], Geert-Jan van Gemert[1], Judith Bolscher[3], Martijn Vos[3], Marloes de Bruijni[3], John Rek[4], Margaret Feeney[5], Bryan Greenhouse[5], Rick King[6], Randall MacGill[6], Robert Sauerwein[3], Teun Bousema[1], **Matthijs Jore**[1]
[1]Radboudumc, Nijmegen, Netherlands, [2]AbCellera, Vancouver, BC, Canada, [3]TropIQ Health Sciences, Nijmegen, Netherlands, [4]Infectious Disease Research Collaboration, Kampala, Uganda, [5]UCSF, San Francisco, CA, United States, [6]PATH Malaria Vaccine Initiative, Washington, DC, United States

1167

FIRST LIVER AND BLOOD STAGE INFECTION OF *AOTUS LEMURINUS GRISEIMEMBRA* WITH ASEPTIC, PURIFIED, CRYOPRESERVED NF54 *PLASMODIUM FALCIPARUM* SPOROZOITES

Patrick E. Duffy[1], Lynn E. Lambert[1], Tarik Ouahes[1], Sachy Orr-Gonzales[1], Jillian Neal[1], Irfan Zaidi[1], Sumana Chakravarty[2], Natasha KC[2], Eric James[2], B. Kim Lee Sims[2], Stephen L. Hoffman[2]
[1]National Institutes of Health, Bethesda, MD, United States, [2]Sanaria Inc., Rockville, MD, United States

1168

STRUCTURAL AND IMMUNOLOGICAL DIFFERENCES OBSERVED IN TWO RECOMBINANT PFS25 MALARIAL PROTEINS USED IN HUMAN CLINICAL TRIALS

Nicholas Macdonald[1], Kavita Singh[2], Karine Reiter[1], Richard Shimp[1], Vu Nguyen[1], Apostolos Gittis[2], Martin Burkhardt[1], Lisa R. Olano[3], Baoshan Zhang[4], Motoshi Suzuki[3], Raul Herrera[1], Mackenzie Moler[1], Olga Muratova[1], Patrick E. Duffy[1], David Garboczi[2], **David Narum**[1]
[1]Laboratory of Malaria Immunology and Vaccinology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, [2]Structural Biology Section, Research Technologies Branch, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, [3]Protein Chemistry Section, Research Technologies Branch, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, [4]Vaccine Research Center, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

(ACMCIP Abstract)

1169

IMMUNOGENICITY AND PROTECTIVE EFFICACY OF COMBINED *PLASMODIUM FALCIPARUM* PRE-ERYTHROCYTIC AND TRANSMISSION-BLOCKING DNA VACCINES DELIVERED BY *IN VIVO* ELECTROPORATION

Yi Cao[1], Clifford Hayashi[1], Fidel Fidel Zavala[2], Hayk Simonyan[3], Colin N. Young[1], Yukari Usuda[1], Jacob An Parys[1], Nirbhay Kumar[1]
[1]Department of Global Health, Milken Institute School of Public Health, George Washington University, Washington DC, MD, United States, [2]Department of Molecular Microbiology and Immunology, Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD, United States, [3]Pharmacology and Physiology, School of Medicine, George Washington University, Washington DC, MD, United States

1170

IDENTIFICATION OF A NOVEL EPITOPE IN THE CIRCUMSPOROZOITE PROTEIN (CSP) C-TERMINAL REGION BOUND BY RTS,S AS01 INDUCED HUMAN ANTIBODIES

Randall S. MacGill[1], Tossapol Pholcharee[2], David Oyen[3], Nathan Beutler[2], Wayne Volkmuth[4], Daniel Emerling[4], Thomas Rogers[3], C Richter King[1], Ian Wilson[3]
[1]PATH, Washington DC, MD, United States, [2]The Scripps Research Inst, La Jolla, CA, United States, [3]Scripps Research Inst, La Jolla, CA, United States, [4]Atreca Inc., South San Francisco, CA, United States

1171

OPEN LABEL TRIAL TO ESTABLISH A BLOOD-STAGE CONTROLLED HUMAN MALARIA INFECTION MODEL AND DETERMINE ITS SAFETY IN HEALTHY TANZANIAN ADULTS WITH VARYING PRIOR EXPOSURE TO *P. FALCIPARUM* (VAC 083).

Florence Milando, Neema Balige, Saumu Ahmed, Kamaka Kassimu, Ally Olotu
Ifakara Health Institute, Dar es Salaam, United Republic of Tanzania

1172

EVALUATION OF IMMUNOGENICITY AND PROTECTIVE EFFICACY OF DNA VACCINES ENCODING FULL LENGTH AND TRUNCATED *PLASMODIUM FALCIPARUM* CIRCUMSPOROZOITE PROTEIN ADMINISTERED *VIA IN VIVO* ELECTROPORATION

Clifford Hayashi[1], Yi Cao[1], Hayk Simonyan[2], Colin N. Young[2], Yukari Usuda[1], Fidel Zavala[3], Nirbhay Kumar[1]
[1]Department of Global Health, Milken Institute School of Public Health, George Washington University, Washington, DC, United States, [2]Pharmacology and Physiology, School of Medicine, George Washington University, Washington, DC, United States, [3]Johns Hopkins Malaria Research Institute, Baltimore, MD, United States

(ACMCIP Abstract)

1173

PROLONGING MALARIA IMMUNITY WITH MOUSE CYTOMEGALOVIRUS VACCINATION

Komi Gbedande[1], Samad A. Ibitokou[1], Michael G. Brown[2], Mariapia Degli-Esposti[3], Robin Stephens[1]
[1]Department of Internal Medicine, Division of Infectious Diseases, University of Texas Medical Branch, Galveston, TX, United States, [2]Department of Medicine, University of Virginia, Charlottesville, VA, United States, [3]Centre for Experimental Immunology, Lions Eye Institute, Nedlands, Australia

(ACMCIP Abstract)

1174

ANTI-PFGARP IS ASSOCIATED WITH DECREASED *P. FALCIPARUM* PARASITEMIA IN KENYAN CHILDREN

Hannah W. Wu[1], Sunthorn Pond-tor[1], Fredrick Olewe[2], Christina Nixon[1], Ronald Stuart[1], Jenna Zuromski[1], Jennifer F. Friedman[1], Catherine Forconi[3], Ann Moormann[3], Bernhards Ogutu[4], John M. Ong'echa[5], Jonathan D. Kurtis[1]
[1]Center for International Health Research, Brown University Medical School, Providence, RI, United States, [2]Ahero Clinical Trials Unit, Kenya Medical Research Institute, Ahero, Kenya, [3]Department of Medicine, UMass Medical School, Worcester, MA, United States, [4]Centre for Clinical Research, Kenya Medical Research Institute, Kisumu, Kenya, [5]Centre for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya

1175

ROLE OF CD4 T CELLS IN PFS230 VACCINE ANTIBODY RESPONSE

Bergeline C. Nguemwo Tentokam[1], Charles Anderson[1], Zoltan Beck[2], Lynn Lambert E. Lambert[1], Kelly M. Rausch[1], Olga Muratova[1], Emma Barnafo[1], David L. Narum[1], Irfan Zaidi[1], Gary R. Matyas[2], Mangala Rao[2], Carl R. Alving[2], Alan Sher[3], Dragana Jankovic[3], Patrick E. Duffy[1]
[1]Laboratory of Malaria Immunology and Vaccinology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, [2]U.S. Military HIV Research Program, Walter Reed Army Institute of Research, Silver Spring, MD, United States, [3]Immunobiology Section, Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

(ACMCIP Abstract)

1176

DEVELOPMENT OF AN INTRANASAL/ORAL SPIRULINA-BASED PFCSP MALARIA VACCINE

Annette M. Seilie[1], Chaitra Parthiban[1], Tracy Saveria[2], James M. Roberts[2], Michael Tasch[2], Sean C. Murphy[1]
[1]Department of Laboratory Medicine and Pathology, University of Washington, Seattle, WA, United States, [2]Lumen Bioscience Inc., Seattle, WA, United States

Malaria – Vector Control

1177

EVALUATING THE ENTOMOLOGICAL IMPACT OF THE 2019 PMI-SUPPORTED IRS CAMPAIGN IN ZAMBIA ON MALARIA TRANSMISSION PARAMETERS

Mohamed N. Bayoh[1], Nduka Iwuchukwu[1], Rabecca Ngwira[1], Willy Ngulube[2], Allison Belemvire[3], Paul Psychas[4], Daniel Impoinvil[5], Ben Johns[6], Kelley Ambrose[7], Aklilu Seyoum[6]
[1]1U.S. President's Malaria Initiative (PMI) VectorLink Project, Abt Associates, Lusaka, Zambia, [2]National Malaria Elimination Program, Lusaka, Zambia, [3]PMI, USAID, Washington, DC, United States, [4]PMI, Malaria Branch, Centers for Disease Control and Prevention (CDC), Lusaka, Zambia, [5]PMI, Malaria Branch, Centers for Disease Control and Prevention (CDC), Atlanta, GA, United States, [6]U.S. President's Malaria Initiative (PMI) VectorLink Project, Abt Associates, Rockville, MD, United States, [7]U.S. President's Malaria Initiative (PMI) VectorLink Project, Abt Associates, Cambridge, MA, United States

1178

OPTIMISATION OF SGRNA EXPRESSION WITH RNA POL III REGULATORY ELEMENTS FOR THE DEVELOPMENT OF A SPLIT DRIVE IN *ANOPHELES STEPHENSI*

Joshua X. Ang, Estela Gonzalez, Katherine Nevard, Lewis Shackleford, Mireia Larrosa, Matthew Edwards, Michelle A. Anderson, Luke Alphey
The Pirbright Institute, Pirbright, United Kingdom

1179

ADVANCING EVIDENCE FOR THE GLOBAL IMPLEMENTATION OF SPATIAL REPELLENTS (AEGIS)

John P. Grieco[1], Eric Ochomo[2], Steve Harvey[3], Suzanne Van Hulle[4], Issaka Sagara[5], Korelege Hasitha Aravinda Tissera[6], D. S. Anoja F. Dheerasinghe[6], Nicole L. Achee[1]
[1]University of Notre Dame, Notre Dame, IN, United States, [2]Kenya Medical Research Institute, Kisumu, Kenya, [3]Johns Hopkins Bloomberg School of Public Health and Johns Hopkins Center for Communication Programs, Baltimore, MD, United States, [4]Catholic Relief Services, Baltimore, MD, United States, [5]Malaria Research and Training Center, University of Science, Techniques and Technologies, Bamako, Mali, [6]National Dengue Control Unit, Epidemiology Unit, Ministry of Health, Colombo, Sri Lanka

1180

FIVE-YEAR IMPACT OF TARGETED INDOOR RESIDUAL SPRAYING WITH PIRIMIPHOS-METHYL IN AN AREA OF HIGH MALARIA TRANSMISSION IN LUAPULA PROVINCE, ZAMBIA

Jessica L. Schue[1], Mike Chaponda[2], Mbanga Muleba[2], Jean-Bertine Kabuya[2], James Sichivula Lupiya[2], Tamaki Kobayashi[3], Amy Wesolowski[3], Timothy Shields[3], Jennifer C. Stevenson[4], Douglas E. Norris[4], William J. Moss[3]
[1]Johns Hopkins Bloomberg School of Public Health Department of International Health, Baltimore, MD, United States, [2]Tropical Diseases Research Centre, Ndola, Zambia, [3]Johns Hopkins Bloomberg School of Public Health Department of Epidemiology, Baltimore, MD, United States, [4]Johns Hopkins Bloomberg School of Public Health Department of Molecular Microbiology and Immunology, Baltimore, MD, United States

1181

COMPARATIVE EFFICACY OF SIX DIFFERENT TYPES PYRETHROID PIPERONYL BUTOXIDE (PBO) AGAINST PYRETHROID RESISTANT MALARIA VECTORS IN WEST AND CENTRAL AFRICA

Abel Agbevo[1], Benjamin Menze[2], Augustin Fongnikin[1], Alphonsine Koffi[3], **Corine A. Ngufor**[1]
[1]CREC/LSHTM Collaborative Research Programme, Cotonou, Benin, [2]Centre for Research in Infectious Diseases, Yaounde, Cameroon, [3]Institute Pierre Richet, Bouake, Côte D'Ivoire

1182

UNIVERSAL LONG-LASTING INSECTICIDAL NETS COVERAGE ON BIOKO ISLAND: THE CHALLENGE OF THE NET USE GAP

Carlos A. Guerra[1], Olivier Tresor Donfack[2], Marcos Mbulito Iyanga[2], Jordan M. Smith[1], Restituto Mba Avue[2], Liberato Motobe Vaz[2], Lucas Ondo[2], Jose Antonio Mba Ela[2], Jeremias Nzamio Mba Eyono[2], Godwin Fuseini[2], Wonder P. Phiri[2], Guillermo A. García[1]
[1]Medical Care Development International, Silver Spring, MD, United States, [2]Medical Care Development International, Malabo, Equatorial Guinea

1183

CHALLENGE OF ESTABLISHING AN EXPERIMENTAL MOSQUITO FEEDING MODEL OF *PLASMODIUM FALCIPARUM* IN AN URBAN CENTER IN MALAWI

Jessy Goupeyou-Youmsi[1], Joyce Nyirongo[1], Lauren L. Cohee[2], Karl Seydel[3], Robert S. McCann[2], Mark L. Wilson[4], Edward D. Walker[3], Clarissa Valim[5], Don P. Mathanga[1], Themba Mzilahowa[1], Miriam K. Laufer[2]
[1]College of Medicine University of Malawi, Blantyre, Malawi, [2]University of Maryland School of Medicine, Baltimore, MD, United States, [3]Michigan State University, East Lansing, MI, United States, [4]University of Michigan School of Public Health, Ann Arbor, MI, United States, [5]Boston University School of Public Health, Boston, MA, United States

1184

PILOTING A NOVEL GEOSPATIAL PLATFORM TO SUPPORT INDOOR RESIDUAL SPRAYING (IRS) FOR MALARIA CONTROL IN CUANDO CUBANGO, ANGOLA

Christina Riley[1], Alinda Lauer[1], Franco Martin[2], Cani Pedro[2], Sérgio Lopes[3], Ana Direito[3], Manuel Lando[3]
[1]Akros, Lusaka, Zambia, [2]National Malaria Control Program, Luanda, Angola, [3]The MENTOR Initiative, Luanda, Angola

1185

INTERIM RESULTS FROM A MIXED-METHOD ANALYSIS OF INSECTICIDE-TREATED NET USE ACROSS SIXTEEN DISTRICTS IN BURKINA FASO, RWANDA, MOZAMBIQUE, AND NIGERIA

Kyra Arnett[1], Jenny Shannon[1], Nami Kawakyu[1], Federica Guglielmo[2], Adama Gansané[3], Moubassira Kagoné[3], Aimable Mbituyumuremyi[4], Chantal Ingabire[5], Baltazar Candrinho[6], Hannah Koenker[7], Perpetua Uhomoibhi[8], Okefu O. Okoko[8], Audu B. Mohammed[8], Dele Babarinde[9], Sylvanus Otikwu[9], Ali Onoja[9], Molly Robertson[1]
[1]PATH, Seattle, WA, United States, [2]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [3]Centre National de Recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso, [4]Rwanda Biomedical Centre Malaria and Other Parasitic Diseases Division, Ministry of Health, Kigali, Rwanda, [5]University of Rwanda, Kigali, Rwanda, [6]National Malaria Control Program, Ministry of Health, Maputo, Mozambique, [7]Tropical Health LLP, Baltimore, MD, United States, [8]National Malaria Elimination Programme, Federal Ministry of Health, Abuja, Nigeria, [9]Ibolda Health International, Abuja, Nigeria

1186

DEVELOPMENT OF A SUSTAINABLE ALTERNATIVE MATERIAL FOR LONG-LASTING INSECTICIDAL NETS: CELLULOSE-BASED INSECTICIDAL FIBER YARN FOR MALARIA CONTROL

Sydney Brake[1], Diego Gomez Maldonado[1], Sarah Zohdy[2], Maria S. Peresin[1]
[1]Auburn University, Auburn, AL, United States, [2]President's Malaria Initiative, Centers for Disease Control and Prevention, Atlanta, GA, United States

1187

LEVERAGING ROUTINE DATA FOR MALARIA VECTOR CONTROL EVALUATION: METHODOLOGICAL CONSIDERATIONS FOR CONDUCTING OBSERVATIONAL ANALYSES

Emily Beylerian[1], Christelle Gogue[2], Sarah Burnett[2], Molly Robertson[1]
[1]PATH, Seattle, WA, United States, [2]PATH, Washington, DC, United States

1188

ABUNDANCE, BITING ACTIVITY AND PREFERENCE OF *ANOPHELES* SPECIES IN TWO IMPORTANT MALARIA ENDEMIC REGIONS OF COLOMBIA

Stefani Piedrahita[1], Nelson Naranjo-Diaz[1], Juan Camilo Hernandez[1], Daniela Castañeda[1], Gabriela Bolaños[1], Vanessa Vargas[1], Natalí Alvarez[1], Sara Bickersmith[2], Dra. Jan Conn[2], Margarita Correa[1]
[1]Grupo de Microbiología Molecular, Escuela de Microbiología, Universidad de Antioquia, Medellín, Colombia, [2]The Griffin Laboratory, Wadsworth Center, New York State Department of Health, Albany, NY, United States

1189

OVERVIEW OF MALARIA TRANSMISSION FROM AN OBSERVATIONAL STUDY IN FOUR SUB-SAHARAN AFRICAN COUNTRIES

Julia Mwesigwa[1], Christelle Gogue[2], Joseph Wagman[2], Kenzie Tynuv[2], Peder Digre[3], Baltazar Candrinho[4], Aimable Mbituyumuremyi[5], Joseph S. Hermann[5], Binete Savaio[6], Okefu O. Okoko[7], Perpetua Uhomoibhi[7], Emmanuel Obi[7], Audu B. Mohammed[7], Dele Babarinde[8], Ali Onoja[8], Adama Gansané[9], Christen Fornadel[10], Molly Robertson[3]
[1]PATH, Kampala, Uganda, [2]PATH, Washington, DC, United States, [3]PATH, Seattle, WA, United States, [4]National Malaria Control Program, Ministry of Health, Maputo, Mozambique, [5]Rwanda Biomedical Centre Malaria and Other Parasitic Diseases Division, Ministry of Health, Kigali, Rwanda, [6]PATH, Maputo, Mozambique, [7]National Malaria Elimination Programme, Federal Ministry of Health, Abuja, Nigeria, [8]Ibolda Health International, Abuja, Nigeria, [9]Centre National de Recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso, [10]IVCC, Liverpool, United Kingdom

1190

ESTIMATING THE MALARIA PREVENTION IMPACT OF NEW NETS: BASELINE RESULTS FROM OBSERVATIONAL ANALYSES TO EVALUATE THE EVIDENCE GENERATED DURING PILOTED DUAL ACTIVE INGREDIENT INSECTICIDE-TREATED NET DISTRIBUTION IN NIGERIA

Okefu O. Okoko[1], Peder Digre[2], Perpetua Uhomoibhi[1], Ibrahim Maikore[1], Emmanuel Obi[1], Adedapo Adeogun[3], Ali Onoja[4], Dele Babarinde[4], Ibrahim Abdulrahman[4], Sylvanus Otikwu[4], Samson Awolola[3], Babatunde Salako[3], Adesola Musa[3], Hannah Koenker[5], Christelle Gogue[6], Joseph Wagman[6], Molly Robertson[2], Audu B. Mohammed[1]
[1]National Malaria Elimination Programme, Federal Ministry of Health, Abuja, Nigeria, [2]PATH, Seattle, WA, United States, [3]Nigerian Institute of Medical Research, Lagos, Nigeria, [4]Ibolda Health International, Abuja, Nigeria, [5]Tropical Health LLP, Baltimore, MD, United States, [6]PATH, Washington, DC, United States

1191

BED NET INDICATORS AND MALARIA PREVALENCE AMONG CHILDREN AGED 6 TO 59 MONTHS ONE YEAR AFTER INTRODUCTION OF DUAL ACTIVE INGREDIENT INSECTICIDE-TREATED BED NETS IN THREE HEALTH DISTRICTS AREAS OF BURKINA FASO: PRELIMINARY RESULTS

Harouna Sore[1], Christelle Gogue[2], Siaka Debe[1], René N. Kinda[1], Adama Ganou[1], Casimir Tarama[1], Gauthier Tougri[3], N'Fale Sagnon[1], Moussa W. Guelbeogo[1], Molly Robertson[4], Adama Gansané[1]
[1]Centre National de Recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso, [2]PATH, Washington, DC, United States, [3]Programme National de Lutte contre le Paludisme, Ouagadougou, Burkina Faso, [4]PATH, Seattle, WA, United States

1192

ENTOMOLOGICAL SURVEY IN THREE HEALTH DISTRICTS IN BURKINA FASO WITH PYRETHROID, PIPERONYL BUTOXIDE-PYRETHROID, AND INTERCEPTOR G2 ITNS DEPLOYED

Madou Tapsoba[1], Joseph Wagman[2], Antoine Sanou[1], Soumanaba Zongo[1], Hyacinthe K. Toe[1], René N. Kinda[1], Fatoumata Cissé[1], Gauthier Tougri[3], Christelle Gogue[2], N'Fale Sagnon[1], Adama Gansané[1], Molly Robertson[4], Moussa W. Guelbeogo[1]
[1]Centre National de Recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso, [2]PATH, Washington, DC, United States, [3]Programme National de Lutte contre le Paludisme, Ouagadougou, Burkina Faso, [4]PATH, Seattle, WA, United States

1193

OBSERVATIONAL ANALYSIS OF THE IMPACT OF INSECTICIDE ROTATION FOR AN INDOOR RESIDUAL SPRAYING PROGRAM IN THE UPPER WEST REGION OF GHANA 2016-2019

Kenzie Tynuv[1], Joseph Wagman[1], Julia Mwesigwa[2], Christelle Gogue[1], Andrew Saibu[3], Keziah Malm[4], Ignatius Williams[5], Samuel Asiedu[5], Titus Tagoe[6], Christen Fornadel[7], Molly Robertson[8]
[1]PATH, Washington, DC, United States, [2]PATH, Kampala, Uganda, [3]IVCC, Accra, Ghana, [4]National Malaria Control Program, Ministry of Health, Accra, Ghana, [5]AngloGold Ashanti Malaria Control Limited, Obuasi, Ghana, [6]Ghana Health Service, Accra, Ghana, [7]IVCC, Liverpool, United Kingdom, [8]PATH, Seattle, WA, United States

1194

BASELINE ENTOMOLOGICAL LANDSCAPE ACROSS 16 NEW NETS PROJECT PILOT DISTRICTS: PRELIMINARY DATA ON VECTOR BIONOMICS

Joseph Wagman[1], Moussa W. Guelbeogo[2], Antoine Sanou[2], Madou Tapsoba[2], Adama Gansané[2], Sagnon N'Fale[2], Emmanuel Hakizimana[3], Aimable Mbituyumuremyi[3], Dulcisaria Jotamo[4], Baltazar Candrinho[4], Okefu O. Okoko[5], Perpetua Uhomoibhi[5], Emmanuel Obi[5], Audu B. Mohammed[5], Adedapo Adeogun[6], Samson Awolola[6], Adesola Musa[6], Babatunde Salako[6], Julia Mwesigwa[7], Christelle Gogue[1], Kenzie Tynuv[1], Peder Digre[8], Christen Fornadel[9], Molly Robertson[8]
[1]PATH, Washington, DC, United States, [2]Centre National de Recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso, [3]Rwanda Biomedical Centre Malaria and Other Parasitic Diseases Division, Ministry of Health, Kigali, Rwanda, [4]National Malaria Control Program, Ministry of Health, Maputo, Mozambique, [5]National Malaria Elimination Programme, Federal Ministry of Health, Abuja, Nigeria, [6]Nigerian Institute of Medical Research, Lagos, Nigeria, [7]PATH, Kampala, Uganda, [8]PATH, Seattle, WA, United States, [9]IVCC, Liverpool, United Kingdom

1195

THE POPULATION INTERPLAY OF TWO MALARIA VECTORS IN NE UGANDA AND THEIR MEASURED DECLINES WITH VECTOR CONTROL

Richard Elliott[1], Wycliff Odude[2], Kilama Maxwell[2], Thomas Eganyu[2], Kathryn Colborn[3], Humphrey Wanzira[2], Fred Bukenya[2], Ronald Mulebeke[4], Adoke Yeka[4], Dorothy Echodu[5]
[1]Boise State University, Boise, ID, United States, [2]Pilgrim Africa, Kampala, Uganda, [3]University of Colorado Anschutz Medical Campus, Aurora, CO, United States, [4]Makerere University School of Public Health, Kampala, Uganda, [5]Pilgrim Africa, Seattle, WA, United States

1196

MALARIA PARASITES CAN BE KILLED NON THERMALLY WITH MICROWAVES

Carmenza Spadafora[1], Lorena Coronado[1], Kevin Chaw[1], Jose Stoute[2], Carlos Donado[1]
[1]INDICASAT AIP, Panama City, Panama, [2]Penn State University, Hershey, PA, United States

(ACMCIP Abstract)

Bacteriology – Other Bacterial Infections

1197

MICROBIOLOGICAL QUALITY CONTROL OF INTENSIVE CARE UNIT ENVIRONMENT AT THE EPIDEMIC TREATMENT CENTER OF COVID IN ARISTIDE LE DANTEC HOSPITAL

Ousseynou Gueye
Aristide Le Dantec University Hospital Center, Dakar, Senegal

1198

PILOT RETROSPECTIVE MOLECULAR DIAGNOSIS OF NEGATIVE GENEXPERT AND AFB SPUTA OF TB SYMPTOMATIC PATIENTS IN MANILA PHILIPPINES

Crespoo Mbe-cho Ndiabamoh
Biotechnology Center, Yaounde Cameroon, Cameroon

1199

DOES FIBERSOL-2 EFFICACIOUS IN REDUCING DURATION OF WATERY DIARRHOEA AND STOOL OUTPUT IN CHILDREN 1-3 YEARS OLD? A RANDOMIZED, PARALLEL, DOUBLE-BLINDED, PLACEBO- CONTROLLED, TWO ARM CLINICAL TRIAL

Abu Sadat Mohammad Sayeem Bin Shahid, Abu Syed Golam Faruque, Mohammod Jobayer Chisti
icddr,b, Dhaka, Bangladesh

1200

CHANGES IN THE GUT MICROBIOME IN ANGOLAN CHILDREN WITH SICKLE CELL DISEASE

Miguel Brito[1], Mariana Delgadinho[2], Catarina Ginete[1], Jocelyne Vasconcelos[3], Brigida Santos[3]
[1]ESTeSL/IPL - Escola Superior de tEcnologia da Saúde de Lisboa, Instituto Politecnico de Lisboa, Lisbon, Portugal, [2]ESTeSL/IPL - Escola Superior de Tecnologia da Saúde de Lisboa, Instituto Politecnico de Lisboa, Lisbon, Portugal, [3]CISA -Angolan Health Research Center, Caxito, Angola

(ACMCIP Abstract)

1201

TRENDS IN ANTIMICROBIAL RESISTANCE OF PATHOGENS CAUSING SURGICAL SITE INFECTIONS IN EGYPT

Rania Nada[1], Alaa Ismail[2], Noha Asem[3], Samia Girgis[2], Hanan El Mohammady[1], Isabelle Nakhla[1]
[1]U.S. Naval Medical Research Unit – No. 3, Cairo, Egypt, [2]Faculty of Medicine, Ain Shams University, Cairo, Egypt, [3]Faculty of Medicine, Cairo University, Cairo, Egypt

1202

IMMUNOMODULATORY EFFECT OF LEPIDIUM MEYENII IN THE INFLAMMATORY RESPONSE OF HUMAN MACROPHAGES TO MYCOBACTERIA

Jorge Cervantes, Habiba Khan, Jose Barragan, Esdras Rodriguez, Carlos Hernandez, Jessica Hungate
Paul L. Foster School of Medicine, El Paso, TX, United States

(ACMCIP Abstract)

1203

SUSCEPTIBILITY AND EXPOSURE TO LEPROSY: AN EXAMINATION OF NUTRIENT DEFICIENCIES, PARASITIC COINFECTION, AND WASH CONDITIONS

Megan K. Wasson[1], Cassidy Whitson[1], Bridget Miller[1], Wondwossen Abebe[2], Belay Tessema[2], Lisa E. Emerson[1], Puneet Anantharam[1], Annisa B. Tesfaye[2], Jessica K. Fairley[3]
[1]Emory University Rollins School of Public Health, Atlanta, GA, United States, [2]University of Gondar, Gondar, Ethiopia, [3]Emory University School of Medicine, Atlanta, GA, United States

1204

CHARACTERIZATION OF MRSA AND ESBL PATHOGENS FROM PATIENTS WITH SURGICAL SITE INFECTIONS IN ACCRA, GHANA

Terrel Sanders[1], Beverly Egyir[1], Anne Fox[1], Naiki Attram[1], Jeannette Bentum[1], Edward Nyarko[2], Chaselynn Watters[1]
[1]NAMRU-3, Accra, Ghana, [2]Ghana Armed Forces 37 Military Hospital, Accra, Ghana

1205

GENOMIC EPIDEMIOLOGY AND ANTIMICROBIAL RESISTANCE IN*NEISSERIA GONORRHOEAE* ISOLATES FROM GHANA

Terrel Sanders[1], Bright Agbodzi[1], Beverly Egyir[2], Helena Dela[1], Clara Yeboah[1], Selassie Kumordjie[1], Eric Behene[1], Anne Fox[1], Michael Wiley[1], Naiki Attram[1], Chaselynn Watters[1]
[1]NAMRU-3, Marion, SC, United States, [2]NMIMR, Marion, SC, United States

1206

OVERCOMING THE UTILITY BARRIERS OF MICROSCOPIC AGGLUTINATION TEST (MAT) FOR THE DIAGNOSIS OF LEPTOSPIROSIS IN LOW INCOME SETTINGS

Shalka Srimantha Lanka Acharige, Dinesha Jayasundara, Janith Warnasekara, Farika De Silva, Chamila Kappagoda, Indika Senevirathne, Suneth Agampodi
Rajarata University of Sri Lanka, Anuradhapura, Sri Lanka

Bacteriology – Systemic Infections

1207

STAPHYLOCOCCUS AUREUS BACTERIURIA IS MORE COMMON IN MALES. PERSISTENT AND RECURRENT INFECTIONS ARE UNCOMMON WITH A HIGHER INCIDENCE IN OLDER AGE GROUPS: A STUDY OF 633 CASES

Don W. Kannangara, Dhyanesh Pandya, Roopa Anmolsingh
St Luke's University Health network, Warren Campus, Phillipsburg, NJ, United States

1208

DEVELOPMENT OF A NANOPORE SEQUENCING ASSAY FOR THE QUANTIFICATION OF HOST-RESPONSE FEATURES THAT PREDICT MORTALITY IN SEPSIS SUBJECTS

Josh G. Chenoweth[1], Thomas Hall[2], Gary Fogel[3], Christine Marzan[2], Derren Barken[3], Joost Brandsma[1], Deborah Striegel[1], Misato Miyamasu[1], Kevin Schully[4], Charmagne Beckett[5], Benjamin Espinosa[4], Danielle Clark[1]
[1]Henry M. Jackson Foundation for the Advancement of Military Medicine, Bethesda, MD, United States, [2]Janus-I Science, Inc, Vista, CA, United States, [3]Natural Selection, Inc, San Diego, CA, United States, [4]Biological Defense Research Directorate, Naval Medical Research Center-Frederick, Ft. Detrick, MD, United States, [5]Naval Medical Research Center, Infectious Diseases Directorate, Silver Spring, MD, United States

1209

A CASE OF STREPTOCOCCUS VIRIDANS MULTIFOCAL ABSCESSES WITHOUT BACTEREMIA AND ENDOCARDITIS

Amanda Winn, Keely Johnson, Marilyn Fabbri
Elmhurst Hospital, Queens, NY, United States

Bacteriology – Trachoma

1210

CHANGE IN SEROLOGICAL METRICS FOR CHLAMYDIA TRACHOMATIS BEFORE AND AFTER MASS DRUG ADMINISTRATION WITH AZITHROMYCIN IN KIRIBATI

Brook Goodhew[1], Rabebe Tekeraoi[2], Raebwebwe Taoaba[2], Rab Tun[2], Ana Bakhtiari[3], Robert Butcher[4], Chrissy H. Roberts[4], Sarah Guagliardo[1], Sarah Gwyn[1], Anthony W. Solomon[5], Emma Harding-Esch[4], Diana L. Martin[6]
[1]CDC, Atlanta, GA, United States, [2]Kiribati Ministry of Health and Medical Services, Tarawa, Kiribati, [3]Task Force for Global Health, Atlanta, GA, United States, [4]London School of Hygiene & Tropical Medicine, London, United Kingdom, [5]WHO, Geneva, Switzerland, [6]CDC, Decatur, GA, United States

1211

SEROLOGICAL RESPONSES TO TRACHOMA ANTIGENS PRIOR TO THE START OF MASS DRUG ADMINISTRATION: RESULTS FROM POPULATION-BASED BASELINE SURVEYS, NORTH DARFUR STATE, SUDAN

Angelia M. Sanders[1], Balgesa E. Elshafie[2], Zeinab Abdalla[3], Erica B. Goodhew[4], Andrew W. Nute[1], Nabil A. Aziz[3], E. Kelly Callahan[1], Diana L. Martin[4], Scott D. Nash[1]
[1]The Carter Center, Atlanta, GA, United States, [2]Sudan Federal Ministry of Health, Khartoum, Sudan, [3]The Carter Center, Khartoum, Sudan, [4]United States Center for Disease Control and Prevention, Atlanta, GA, United States

Clinical Tropical Medicine

1212

ENDOTHELIAL ACTIVATION IS REDUCED BY HYDROXYUREA THERAPY AND PREDICTS TRANSCRANIAL DOPPLER VELOCITY IN THE NOHARM STUDY: A PROSPECTIVE CLINICAL TRIAL OF HYDROXYUREA IN UGANDAN CHILDREN WITH SICKLE CELL ANEMIA

Thomas F. Siegert[1], Robert O. Opoka[2], Teresa Latham[3], Adam Lane[3], Russell E. Ware[4], Chandy C. John[5], Andrea Conroy[5]
[1]Division of Medicine-Pediatrics, Department of Pediatrics, The Warren Alpert Medical School of Brown University, Providence, RI, United States, [2]Department of Paediatrics and Child Health, Makerere University College of Health Sciences, Kampala, Uganda, [3]Cincinnati Children's Hospital Medical Center, University of Cincinnati College of Medicine, Cincinnati, OH, United States, [4]Division of Hematology, Department of Pediatrics, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, United States, [5]Department of Pediatrics, Ryan White Center for Pediatric Infectious Disease and Global Health, Indiana University School of Medicine, Indianapolis, IN, United States

1213

BIOLOGICAL AND CLINICAL CHARACTERISTICS OF SUBJECTS TESTED POSITIVE FOR LEPTOSPIROSIS AMONG ACUTELY FEBRILE OUTPATIENTS ATTENDING PRIMARY CARE CLINICS DURING THE RAINFALL SEASON IN BURKINA FASO, WEST AFRICA

Sylvie Zida[1], Dramane Kania[2], Karine Bolloré[3], Ousséni Bandaogo[2], Amadou Dicko[2], Bachirou Tinto[2], Jacques Traoré[2], Henri Gautier Ouédraogo[1], Edouard Tuaillon[3]
[1]Institut de Recherche en Sciences de la Santé, Ouagadougou, Burkina Faso, [2]Centre Muraz, Bobo Dioulasso, Burkina Faso, [3]UMR 1058 INSERM/EFS/Montpellier University, Montpellier, France

1214

DOOR-TO-DOOR CHILD IMMUNIZATION: AN ACCEPTABLE ALTERNATE WAY TO CONTINUE CHILD IMMUNIZATION SERVICES FOR VULNERABLE POPULATION OF INFORMAL SETTLEMENTS IN NAIROBI, KENYA

Rashed Shah[1], Abraham Rono[2], Misiko Linda[2]
[1]Save the Children, Washington DC, DC, United States, [2]Save the Children International, Nairobi, Kenya, Kenya

1215

ESTIMATING THE PROPORTION OF CHILDREN LESS THAN FIVE YEARS OLD WHO ARE FULLY IMMUNIZED ACCORDING TO EXPANDED PROGRAMME ON IMMUNIZATION IN 13 HIGH MALARIA TRANSMISSION COMMUNITIES IN MALABO DISTRICT, BIOKO ISLAND

Esther L. Eburi-Losoha[1], Maria Silvia A. Lopez Mikue[2], Vicente Urbano[2], Ali Hamad[3], Antonio Enrique N. Sama[1], Wonder P. Phiri[1], Guillermo A. García[4], Thomas Richie[5], Peter F. Billingsley[5], Thabit Athuman[3], Juan Carlos Momo[2], Bonifacio Manguire[6], Kamaka Ramadhani[3], Marcel Tanner[7], Salim Abdulla[3], Stephen Hoffman[5], Said Jongo[3], Claudia Daubenberger[7], Sonja Merten[7]
[1]Medical Care Development International, Malabo, Equatorial Guinea, [2]Ministry of Health and Social Welfare of Equatorial Guinea, Malabo, Equatorial Guinea, [3]Ifakara Health Institute, Bagamoyo, United Republic of Tanzania, [4]Medical Care Development International, Silver Spring, MD, United States, [5]Sanaria, Rockville, MD, United States, [6]Marathon Oil Corporation, Malabo, Equatorial Guinea, [7]Swiss Tropical and Public Health Institute, Basel, Switzerland

1216

INTEGRATED MANAGEMENT OF CHILDHOOD ILLNESS (IMCI) DANGER SIGNS AND PAEDIATRIC SEVERITY SCORES IN INPATIENT AND OUTPATIENT FEBRILE CHILDREN FROM FOUR COUNTRIES IN AFRICA AND ASIA

Shunmay Yeung[1], Quique Bassat[2], Oliver Baerenbold[1], Sham Lal[1], Elizabeth J. Fitchett[3], Sara Ajanovic Andelic[2], Núria Balanza[2], John A. Crump[4], Samantha Lissauer[5], Ruud Nijman[6], Heidi Hopkins[1], David C. Mabey[1]
[1]London School of Hygiene & Tropical Medicine (LSHTM), London, United Kingdom, [2]ISGlobal, Hospital Clínic - Universitat de Barcelona, Barcelona, Spain, [3]UCL GOS Institute of Child Health, London, United Kingdom, [4]Centre for International Health, University of Otago, Dunedin, New Zealand, [5]Malawi Liverpool Wellcome Clinical Research Programme, Blantyre, Malawi, [6]Imperial College London, London, United Kingdom

1217

DIAGNOSIS AND MANAGEMENT OF ENTEROBIASIS IN MILITARY TREATMENT FACILITIES

Madeline Renee Fleit[1], Jamie Fraser[2], Patrick Hickey[3], Edward Mitre[4]
[1]Walter Reed National Military Medical Center, Bethesda, MD, United States, [2]The Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc., Bethesda, MD, United States, [3]Department of Pediatrics, Uniformed Services University of the Health Sciences, Bethesda, MD, United States, [4]Department of Microbiology and Immunology, Uniformed Services University of the Health Sciences, Bethesda, MD, United States

1218

ADDRESSING THE MENTAL HEALTH OF PERSONS LIVING WITH LYMPHATIC FILARIASIS IN LEOGANE, HAITI: EVALUATION OF A CHRONIC DISEASE SELF-MANAGEMENT PILOT PROGRAM

Sarah Bazur-Leidy[1], Luccene Desir[1], Martha Desir[1], Samhita Kumar[1], Tsion Horra[1], Mary Ottley[1], Rebecca Castor[1], Paul Weiss[2], Marc-Aurele Telfort[3], Murielle Gilbert[1], Gregory Noland[1], Eve Byrd[1]
[1]The Carter Center, Atlanta, GA, United States, [2]Emory University, Atlanta, GA, United States, [3]Haiti Ministry of Health, Leogane, Haiti

1219

ROUTINE IMMUNIZATION STATUS AND FACTORS ASSOCIATED WITH TIMELY IMMUNIZATION AMONG CHILDREN AGED 10 -17 MONTHS OLD IN BAGAMOYO, TANZANIA

Neema Emmanuel Balige, Florence Milando, Ally Olotu, Kamaka Kassim
Ifakara Health Institute, Dar es salaam, United Republic of Tanzania

1220

AN INVESTIGATION OF PREGNANCY OUTCOMES AMONG LASSA FEVER PATIENTS IN SIERRA LEONE

Madison S. Drogy[1], Donald Grant[2], Lansana Kanneh[2], Veronica Koroma[2], Fatima Kamara[2], Emily Engel[1], Nell G. Bond[1], Jeffrey G. Shaffer[3], John Schieffelin[1]
[1]Tulane University School of Medicine, New Orleans, LA, United States, [2]Kenema Government Hospital, Kenema, Sierra Leone, [3]Tulane University School of Public Health, Department of Biostatistics and Data Science, New Orleans, LA, United States

1221

UPDATE ON ENVIRONMENTAL TRAITS, FREQUENCY AND LIVING CONDITIONS ASSOCIATED WITH RICKETTSIA AND LEPTOSPIRA INFECTIONS IN YUCATAN, MEXICO

Emiliano Rivero Otamendi[1], Hannia R. Echazarreta Bolado[1], Claudia D. Fuentelzas Rosado[1], Brenda J. Marín Valenzuela[1], Karla R. Dzul Rosado[2], Nina Méndez Dominguez[3]
[1]Marist University of Merida, Mérida, Mexico, [2]CIR Hideyo Noguchi, Mérida, Mexico, [3]Hospital Regional de Alta Especialidad de la Península de Yucatán, Mérida, Mexico

1222

A COMPARISON OF THREE NUTRITIONAL ASSESSMENT TOOLS AMONG RENAL PATIENTS AT THE KOMFO ANOKYE TEACHING HOSPITAL, GHANA

Marina A. Tandoh[1], Lydia Manu[1], Justina Owusu[2], Odeafo Asamoah-Boakye[1]
[1]Department of Biochemistry and Biotechnology (Human Nutrition and Dietetics), Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, [2]Department of Nutrition and Food Science, University of Ghana, Legon, Accra, Ghana

1223

OTORHINOLARYNGOLOGICAL SERVICE ON SPECIAL NEEDS INDIVIDUALS: OTOSCOPIC APPROACH

Immaculata Ogechi Akpalaba
University of Medical Sciences, Ondo State, Ondo, Nigeria

1224

COVID-19 SEROPREVALENCE IN TWO MALARIA ENDEMIC RURAL COMMUNITIES IN MALI, WEST AFRICA

Bourama Kamate
University of Science Technical And Technologies of Bamako (USTTB), Bamako, Mali

1225

RICKETTSIA AND *LEPTOSPIRA* COINFECTION IN A 12-YEARS-OLD FEMALE FROM YUCATAN, MEXICO: CLINICAL CASE REPORT

Jairo Isaih Mendoza Argáez[1], Karla R. Dzul Rosado[2], Maria Fidelia Cardenas Marrufo[3], Cesar Lugo Caballero[2], Alberto Álvarez Baeza[1], Nina Méndez Domínguez[4], Fernando Puerto Manzano[3], Juan José Arias León[3]
[1]Universidad Marista de Mérida, Mérida, Mexico, [2]Center for Regional Research "Dr. Hideyo Noguchi" Biomedical Unit, Mérida, Mexico, [3]Faculty of Medicine. Universidad Autónoma de Yucatán, Mérida, Mexico, [4]Hospital Regional de Alta Especialidad de la Península de Yucatán, Mérida, Mexico

1226

EPIDEMIOLOGICAL CHARACTERIZATION OF HUMAN SETTLEMENTS EXPOSED TO TRIATOMINAE SPECIES AND *TRYPANOSOMA CRUZI* IN THE COLOMBIAN CARIBBEAN

Margarita M. Ochoa-Diaz[1], Monica Suarez-Sotomayor[2], Melisa Eyes Escalante[3]
[1]Post-Doctoral in Tropical Medicine, Research Group Biodiversidad del Caribe Colombiano, Universidad del Atlántico, Barranquilla, Colombia, [2]Faculty of Medicine, Universidad del Sinú seccional Cartagena, Research Group GIBACUS, Cartagena, Colombia, [3]Faculty of Basic Science, Biology Program, Tropical Medicine Doctorate, Research Group Biodiversidad del Caribe Colombiano, Universidad del Atlántico, Barranquilla, Colombia

Helminths – Nematodes – Filariasis (Immunology)

1227

DISCOVERY FOR *LOA LOA* CROSS-REACTIVE BIOMARKERS RESPONSIBLE FOR FALSE-POSITIVE LYMPHATIC FILARIASIS RAPID DIAGNOSTIC TESTS

Linda Yemeli Djune[1], Marla Hertz[2], Hugues Clotaire Nana-Djeunga[1], Robert Sprung[3], Jean Gabin Bopda[1], Joseph Kamgno[1], Philip Budge[2]
[1]Centre for Research on Filariasis and other Tropical Diseases, Yaounde, Cameroon, [2]Division of Infectious Diseases, Department of Medicine, Washington University School of Medicine, St. Louis, Missouri, USA, St Louis, MO, United States, [3]Division of Endocrinology, Metabolism and Lipid Research, Department of Internal Medicine, Washington University School of Medicine, St. Louis, MO, USA., St Louis, MO, United States

(ACMCIP Abstract)

1228

EXPRESSION AND CHARACTERIZATION OF OV-103 AND OV-RAL-2, TWO LEADING VACCINE CANDIDATES FOR ONCHOCERCIASIS

Bin Zhan[1], Wen_Hsiang Chen[1], Junfei Wei[1], Zhuyun Liu[1], Peter J. Hotez[1], Sara Lustigman[2], Maria Elena Bottazzi[1]
[1]Baylor College of Medicine, Houston, TX, United States, [2]New York Blood Center, New York, NY, United States

(ACMCIP Abstract)

1229

INCREASING IMMUNE ACTIVATION IN PATIENTS WITH ADVANCED STAGE FILARIAL LYMPHEDEMA

Sacha Horn[1], Anja Feichtner[1], Abdallah Ngenya[2], Max Demetrius[2], Yussuf Mgaya[2], Jubin Osei-Mensah[3], Vera S. Opoku[3], Ute Klarmann-Schulz[4], Janina Kuehlwein[4], Manuel Ritter[4], Achim Hoerauf[4], Michael Hoelscher[1], Akili Kilinga[2], Alexander Y. Debrah[3], Inge Kroidl[1]
[1]Division of Infectious Diseases and Tropical Medicine, Medical Center of the University of Munich (LMU), Munich, Germany, [2]National Institute for Medical Research (NIMR), Dar es Salaam, United Republic of Tanzania, [3]Kumasi Centre for Collaborative Research in Tropical Medicine (KCCR), Kumasi, Ghana, [4]Institute for Medical Microbiology, Immunology and Parasitology (IMMIP), University Hospital Bonn (UKB), Bonn, Germany

Helminths – Nematodes – Filariasis (Other)

1230

DEVELOPMENT OF A MULTIPLEX BEAD ASSAY (MBA) FOR DETECTION OF SPECIFIC ANTI-*ONCHOCERCA VOLVULUS* IMMUNOGLOBULIN IN HUMAN SERA

Sylvia Ossai, Yong Wang, John Noh, Olga Stuchlik, Matthew S. Reed, Pavel Svoboda, Jan Pohl, William E. Secor, Sukwan Handali
Centers for Disease Control and Prevention, Atlanta, GA, United States

(ACMCIP Abstract)

1231

SURVIVAL OF ADULT FEMALE WORMS OF *ONCHOCERCA OCHENGI* IN GERBILS AND HAMSTERS: IMPLICATIONS FOR THE DEVELOPMENT OF AN *IN VIVO* MACROFILARICIDE SCREENING MODEL

Glory E. Mbah[1], Rene B. Ayiseh[2], Faustin P. Manfo[2], Tessy-Koko Kulu[2], Fabrice N. Njotu[2], Elvis Monya[2], Emmanuel M. Ndi[2], Evans N. Mainsah[2], Judy Sakanari[3], Sara Lustigman[4], Fidelis Cho-Ngwa[5]
[1]Department of Biology, Higher Teacher Training College, University of Bamenda, Bamenda, Cameroon, [2]ANDI Centre of Excellence for Onchocerciasis Drug Research, Biotechnology Unit, Faculty of Science, University of Buea, Buea, Cameroon, [3]Department of Pharmaceutical Chemistry, University of California, San Francisco, CA, United States, [4]New York Blood Center, Lindsey F. Kimball Research Institute, New York City, NY, United States, [5]National Higher Polytechnic Institute (NAHPI), University of Bamenda, Bamenda, Cameroon

1232

COMPARISON OF STANDARD AND MODIFIED HUMAN LANDING CATCH (HLC) TECHNIQUES FOR BLACKFLIES IN THE ERA OF ONCHOCERCIASIS ELIMINATION

Kareen Atekem[1], Philippe Nwane[2], Ruth Dixon[3], Rogers Nditanchou[1], Aude Wilhelm[3], Elena Schmidt[3], Daniel Boakye[4]
[1]Sightsavers, Yaounde, Cameroon, [2]Centre for Research on Filariasis and other Tropical Diseases (CRFilMT), Yaounde, Cameroon, [3]Sightsavers, Haywards Heath, United Kingdom, [4]The End Fund, New York, NY, United States

1233

METALLOPROTEASE INHIBITORS AS POTENTIAL MACROFILARICIDAL TREATMENTS FOR LYMPHATIC FILARIASIS

Matthew S. Moser[1], Christina Bulman[2], Chelsea Fischer[2], Judy Sakanari[2], Edward Mitre[1]
[1]Uniformed Services University of the Health Sciences, Bethesda, MD, United States, [2]University of California, San Francisco, San Francisco, CA, United States

1234

REPLACEMENT OF MISSING VALUES FOR ONE-TIME-MEASUREMENT OUTCOMES IN ONCHOCERCIASIS CLINICAL TRIALS

Barbara Gruetzmacher[1], Sabine Specht[2], Alexander Y. Debrah[3], Matthias Schmid[4], Achim Hoerauf[5], Ute Klarmann-Schulz[5]
[1]Institute for Medical Microbiology, Immunology and Parasitology, University Hospital Bonn, Bonn, Germany, [2]Institute for Medical Microbiology, Immunology and Parasitology, University Hospital Bonn, Bonn, Germany; Drugs for Neglected Diseases initiative (DNDi), Geneva, Switzerland, [3]Faculty of Allied Health Sciences, Kwame Nkrumah University of Science and Technology; Kumasi Center for Collaborative Research (KCCR), Kumasi, Ghana, [4]Institute for Medical Biometry, Informatics and Epidemiology, University Hospital Bonn, Bonn, Germany, [5]Institute for Medical Microbiology, Immunology and Parasitology, University Hospital Bonn; German Center for Infection Research (DZIF), Bonn-Cologne site, Bonn, Germany

1235

MODELLING THE MASS DRUG ADMINISTRATION AND ALTERNATIVE INTERVENTIONS FOR THE ELIMINATION OF LYMPHATIC FILARIASIS IN AMERICAN SAMOA: AN AGENT-BASED SIMULATION STUDY

Angus McLure[1], Patricia M. Graves[2], Callum Shaw[1], Colleen Lau[3], Kathryn Glass[1]
[1]Australian National University, Canberra, Australia, [2]James Cook University, Cairns, Australia, [3]University of Queensland, Brisbane, Australia

Helminths – Nematodes – Intestinal Nematodes

1236

STRONGYLOIDES STERCORALIS, STILL A PROBLEM IN THE SOUTHEAST UNITED STATES?

Almutasem Hamed, Katelyn E. Madigan, John W. Sanders
Wake Forest University, Winston Salem, NC, United States

1237

COMPARISON BETWEEN QUANTITATIVE POLYMERASE CHAIN REACTION AND SODIUM NITRATE FLOTATION MICROSCOPY IN DIAGNOSING SOIL-TRANSMITTED HELMINTH INFECTIONS

Adam W. Bartlett[1], Rebecca Traub[2], Salvador Amaral[3], Sze Fui Hii[2], Naomi Clarke[1], Patsy Zendejas-Heredia[2], Paul Arkell[3], Merita Monteiro[4], Virginia da Conceicao[3], Carolina da Costa Maia[5], Maria Imaculada Soares[5], Josefina D. Prisca Guterres[5], Joshua R. Francis[3], Susana Vaz Nery[1]
[1]Kirby Institute, Sydney, Australia, [2]University of Melbourne, Melbourne, Australia, [3]Charles Darwin University, Darwin, Australia, [4]Ministry of Health, Dili, Timor-Leste, [5]National Health Laboratory, Dili, Timor-Leste

1238

USING POPULATION-BASED SURVEY DATA TO MAKE EVIDENCE-BASED PROGRAMMATIC DECISIONS TOWARD THE ELIMINATION OF SOIL-TRANSMITTED HELMINTHIASIS

Sultani H. Matendechero[1], Denver Mariga[1], **Cara Tupps**[2], Sanjaya Dhakal[2], Stephen Mwatha[1], Joseph Otieno Oloo[1], Josphine Ihahi[1], Paul Emerson[2]
[1]Division of Vector Borne and Neglected Tropical Diseases, Kenya Ministry of Health, Nairobi, Kenya, [2]Children Without Worms at the Task Force for Global Health, Atlanta, GA, United States

1239

PREVENTIVE CHEMOTHERAPY FOR THE CONTROL OF STRONGYLOIDIASIS IN SCHOOL-AGE CHILDREN: ESTIMATING THE IVERMECTIN NEED

Donal Bisanzio[1], Antonio Montresor[2], Michael French[1], Richard Reithinger[1], Paola Rodari[3], Zeno Bisoffi[3], Dora Buonfrate[3]
[1]RTI International, Washington, DC, United States, [2]Department of Control of Neglected Tropical Diseases, World Health Organization, Geneva, Switzerland, [3]Department of Infectious – Tropical Diseases and Microbiology, IRCCS Sacro Cuore Don Calabria Hospital, Negrar, Verona, Italy

1240

USING DEEP AMPLICON SEQUENCING TO SCREEN FOR THE PRESENCE OF BENZIMIDAZOLE RESISTANCE IN HOOKWORM POPULATIONS IN NORTHWEST ETHIOPIA

Abhinaya Venkatesan[1], Russell Avramenko[1], Rebecca Chen[1], Abebe Bayih[2], Ayalew Zeleke[2], Solomon Afework[2], John Gilleard[1]
[1]University of Calgary, Calgary, AB, Canada, [2]University of Gondar, Gondar, Ethiopia

(ACMCIP Abstract)

1241

DEVELOPMENT OF CRYSTAL PROTEIN TREATMENTSFOR GASTROINTESTINAL NEMATODES

Jeffrey Chicca, Carli Garceau, Florentina Rus, Ernesto Soto-Villatoro, Nicholas Cazeault, Hanchen Li, Kelly A. Flanagan, David Gazzola, Gary Ostroff, Raffi V. Aroian
University of Massachusetts Medical School, Worcester, MA, United States

1242

RETROSPECTIVE REVIEW OF TOXOCARIASIS AT TEXAS CHILDREN'S HOSPITAL

Mary B. Fortini, Megan N. Carey, Karina M. Robinson, Timothy A. Erickson, Sarah M. Gunter, Jill E. Weatherhead
Baylor College of Medicine, Houston, TX, United States

1243

DETERMINING EFFICACY OF ALBENDAZOLE IN DAK LAK PROVINCE, VIETNAM, USING QUANTITATIVE PCR

Clare E. Dyer[1], Naomi E. Clarke[1], Dinh Ng-Nguyen[2], Dilrukshi Herath[3], Rebecca J. Traub[3], Susana Vaz Nery[1]
[1]University of New South Wales Sydney, Sydney, Australia, [2]Tay Nguyen University, Buôn Ma Thuột, Viet Nam, [3]University of Melbourne, Melbourne, Australia

Kinetoplastida – Epidemiology (Including Leishmania and Trypanosomes)

1244

PREVALENCE OF AMERICAN VISCERAL LEISHMANIASIS (AVL) IN AN INDIGENOUS POPULATION OF THE COLOMBIAN CARIBBEAN COAST

Linda M. Chams, Alberto S. Mestra, Carlos J. Castro
Grupo de Investigaciones Microbiológicas y Biomédicas de Córdoba (GIMBIC)-Universidad de Córdoba, Monteria, Colombia

1245

EXPERIENCES WITH DIAGNOSIS AND TREATMENT OF CHAGAS' DISEASE AT A COLORADO TEACHING HOSPITAL- CLINICAL FEATURES OF PATIENTS WITH POSITIVE SEROLOGIC TESTING

Peter Hyson, Lilian Vargas Barahona, Jonathan Schultz, Carlos Franco-Paredes, Kellie Hawkins, Andres Henao-Martinez
University of Colorado School of Medicine, Aurora, CO, United States

1246

CUTANEOUS LEISHMANIASIS IN KENYA: A STUDY OF KNOWLEDGE, ATTITUDES, & PRACTICES IN TWO FOCAL SUB-COUNTIES

Ramadahan Mwatela Kitondo[1], Hellen MPH M. Nyakundi,[2], Joseph K. Wang'ombe,[3], Moses M. Atuko[4], Damaris Matoke,[5], Daniel Masiga[6], Richard G. Wamai[7]
[1]JKUAT(ITROMID), Nairobi, Kenya, [2]University of Nairobi School of Public Health, Nairobi, Kenya, [3]University of Nairobi School of Public Health., Nairobi, Kenya, [4]County of baringo, Baringo, Kenya, [5]Kenya Medical Research Institute/ICIPE, Nairobi, Kenya, [6]International Centre of Insect Physiology and Ecology, Nairobi, Kenya, [7]Northeastern University, Boston, MA, United States

1247

CHRONIC CHAGAS CARDIOMYOPATHY MORBIDITY AND MORTALITY BURDEN IN LATIN AMERICA

Sindhu Chadalawada[1], Omar Samara[2], Anthony Monzon[2], Deepika Gudapati[3], Lilian Vargas[2], Peter Hyson[2], Stefan Sillau[2], Luisa Mestroni[2], Matthew Taylor[2], Maria da Consolação Vieira Moreira[4], Kristen DeSanto[2], Carlos Franco-Paredes[2], Anis Rassi Jr.[5], Andrés F. Henao-Martínez[2]

[1]Alameda Health System - Highland Hospital, Oakland, CA, United States, [2]University of Colorado School of Medicine, Aurora, CO, United States, [3]NRI Medical College, Guntur, India, [4]Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, [5]Anis Rassi Hospital, Goiânia, Brazil

1248

END-GAME STRATEGIES AGAINST *GAMBIENSE* HUMAN AFRICAN TRYPANOSOMIASIS IN THE MANDOUL FOCUS OF CHAD: A MATHEMATICAL AND ECONOMIC MODELING STUDY

Marina Antillon[1], Ronald E. Crump[2], Ching-I Huang[2], Paul R. Bessell[3], Alex Shaw[3], Xia Wang-Steverding[2], Iñaki Tirados[3], Philippe Solano[4], Steve J. Torr[3], Albert Picado[5], Joseph Ndung'u[5], Mallaye Peka[6], Severin Mbainda[6], Fabrizio Tediosi[1], Kat S. Rock[2]

[1]Swiss TPH, Basel, Switzerland, [2]University of Warwick, Coventry, United Kingdom, [3]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [4]Institute of Research for Development, Marseille, France, [5]FIND, Geneva, Switzerland, [6]PNLTHA Chad, Moundou, Chad

1249

SURVEILLANCE OF *TRYPANOSOMA CRUZI* INFECTION IN TRIATOMINE VECTORS, FERAL DOGS AND CATS, AND WILD ANIMALS IN AND AROUND EL PASO COUNTY, TEXAS AND NEW MEXICO

Felipe Rodriguez, Rosa Maldonado

University of Texas at El Paso, El Paso, TX, United States

(ACMCIP Abstract)

1250

PUBLIC AWARENESS ON DISEASE AND TRANSMISSION OF LEISHMANIASIS: A NATIONWIDE SURVEY IN SRI LANKALEISHMANIASIS: A NATION-WIDE SURVEY IN SRI LANKA

Rajika Dewasurendra[1], Nilakshi Samaranayake[1], Hermali Silva[1], Nuwani Manamperi[2], Sanath Senanayake[1], Upul Senerath[3], Panduka Karunanayake[4], Nissanka de Silva[5], Guofa Zhou[6], Nadira Karunaweera[1]

[1]Department of Parasitology, Faculty of Medicine, University of Colombo, Colombo 08, Sri Lanka, [2]Department of Parasitology, Faculty of Medicine, University of Kelaniya, Ragama, Sri Lanka, [3]Department of Community Medicine, Faculty of Medicine, University of Colombo, Colombo 08, Sri Lanka, [4]Department of Clinical Medicine, Faculty of Medicine, University of Colombo, Colombo 08, Sri Lanka, [5]Department of Zoology, Faculty of Applied Sciences, University of Sri Jayawardenapura, Nugegoda, Sri Lanka, [6]Program in Public Health, University of California, Irvin, CA, United States

Kinetoplastida – Immunology (Including Leishmania and Trypanosomes)

1251

THE ROLE OF DIHYDROLIPOYL DEHYDROGENASE (DLD) IN THE IMMUNOPATHOGENESIS OF *LEISHMANIA MAJOR* INFECTION

Somtochukwu Stella Onwah, Zhirong Mou, Ping Jia, Jude E. Uzonna

University of Manitoba, Winnipeg, MB, Canada

(ACMCIP Abstract)

Pneumonia, Respiratory Infections and Tuberculosis

1252

IN VITRO EFFICACY OF SELECTED ANTIMALARIALS AND OTHER ANTIPARASITIC COMPOUNDS AGAINST CIRCULATING SARS-COV-2 VIRUS IN PANAMA

Mario Quijada[1], Yaneth Pitti[1], Yamilka Diaz[1], Marlene Castillo[1], Carolina de la Guardia[2], Sandra Lopez[1], Ariel Magallón[1], **Nicanor Obaldia**[1]

[1]Instituto Conmemorativo Gorgas de Estudios de la Salud, Panama, Panama, [2]Indicasat-AIP, Panama, Panama

1253

TRANSCRIPTOMIC ANALYSIS TO IDENTIFY CANDIDATE GENES ASSOCIATED TO PYRAZINAMIDE RESISTANCE IN MYCOBACTERIUM TUBERCULOSIS

Fernando Mamani[1], Ana Paula Vargas[1], Eduardo Gushiken[1], Roberto Alcantara[2], Robert H. Gilman[3], Mirko Zimic[1], Patricia Sheen[1]

[1]Universidad Peruana Cayetano Heredia, Lima, Peru, [2]Universidad Peruana de Ciencias Aplicadas, Lima, Peru, [3]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

1254

RESPIRATORY PATHOGEN DETECTION AMONG FEBRILE INPATIENTS IN NORTHERN TANZANIA, 2016-2019

Yan Zhuang[1], Marina Zahari[2], Marcus Mah[1], Yihui Chen[1], John Crump[3], Manuela Carugati[3], Michael Maze[4], John Bonnewell[3], Deng Madut[3], Bingileki Lwezaula[5], Blandina Mmbaga[6], Venance Maro[6], Gavin Smith[1], Martin Linster[1], **Matthew P. Rubach**[3]

[1]Duke-NUS Medical School, Singapore, Singapore, [2]National University of Singapore, Singapore, Singapore, [3]Duke University, Durham, NC, United States, [4]University of Otago, Christchurch, New Zealand, [5]Mawenzi Regional Referral Hospital, Moshi, United Republic of Tanzania, [6]Kilimanjaro Christian Medical Centre, Moshi, United Republic of Tanzania

1255

SARS-COV-2 ANTIBODY PROFILES IN CONVALESCENT COVID-19 PATIENTS TESTING POSITIVE BY PCR AT POINT G TEACHING HOSPITAL, BAMAKO, MALI: A SURVEY PERFORMED FROM OCTOBER 2020 TO JANUARY 2021

M'Bouye Doucoure[1], Amatigue Zeguime[1], John Woodford[2], David Cook[2], Souleymane Traore[1], Moussa L Traore[1], Sintry Sanogo[1], Moussa B Kanoute[1], Sidiki Perou[1], Adama Ouattara[1], Mamady Kone[1], Sibiri Sissoko[1], Intimbeye Tembine[1], Abdoulaye Katile[1], Bourama Kamate[1], Mahamadoun Assadou[1], Kourane Sissoko[1], Jennifer Hume[2], Irfan Zaidi[2], Justin Doritchamou[2], Sara Healy[2], Jennifer Kwan[3], Jordyn Manucci[4], Mahamadou S Sissoko[1], Boubacar Traore[1], Abdoulaye Djimde[1], Alassane Dicko[1], Patrick Duffy[2], Issaka Sagara[1]

[1]MRTC/USTTB, Bamako, Mali, [2]LMIV/NIAID/NIH, Bethesda, MD, United States, [3]LCIV/NIAID/NIH, Bethesda, MD, United States, [4]DIR/NIAID/NIH, Rockville, MD, United States

1256

INCIDENCE AND HOUSEHOLD TRANSMISSION OF SARS-COV-2 IN A COMMUNITY COHORT IN PONCE, PUERTO RICO

Chelsea G. Major[1], Dania M. Rodríguez[1], Liliana Sánchez-González[1], Kinda Zureick[2], Vanessa Rodríguez-Estrada[3], Tatiana Morales-Ortíz[3], Carolina Torres[1], Kasey Kinzel[1], Nicole M. Pérez-Rodríguez[1], Nicole Medina-Lopes[1], Kyle Ryff[1], Rafael Tosado-Acevedo[1], Jorge Muñoz-Jordan[1], Laura E. Adams[1], Vanessa Rivera-Amill[3], Melissa A. Rolfes[2], Gabriela Paz-Bailey[1]

[1]Division of Vector Borne Diseases, Centers for Disease Control and Prevention, San Juan, PR, United States, [2]Centers for Disease Control and Prevention COVID-19 Emergency Response Team, Atlanta, GA, United States, [3]Ponce Health Sciences University and Saint Luke's Episcopal Hospital Consortium, Ponce, PR, United States

1257

REASONS FOR CONSENTING TO PARTICIPATE IN COMMUNITY RESEARCH AIMED TO PREVENT TUBERCULOSIS

Luz Quevedo Cruz[1], Maria del Rosario Montoya Villanueva[1], Adelina Herlinda Lozano Chavez[1], Jessica Liria Franco Gutierrez[1], Wilber Enrique Flores Saavedra[1], Carolina Felicita Tovar Perez[1], Segundo Carlos Pozo Correa[1], Pilar Raquel Tapia Mamani[1], Maria Cecilia Haro Berrospi[1], Rosario Sosa Ccanto[1], Eric Steve Ramos Maguiña[1], Lenin Ceferino Bernaola Silva[1], Nataly Aracely Bailon Gonzales[1], Keren Soledad Alvarado Torres[1], Teresa Rocio Valencia Norabuena[1], Aurora Maribel Rivero Moron[1], Jonathan Michael Gomez Suarez[1], Paula Patricia Carballo Jimenez[2], Matthew J Saunders[2], Carlton Anthony Evans[2], Sumona Datta[3]

[1]Asociación Benéfica Prisma, lima, Peru, [2]Infectious Diseases & Immunity, Wellcome Trust Imperial College Centre for Global Health Research, London, United Kingdom, [3]Department of Clinical Sciences, Liverpool School of Tropical Medicine, Liverpool, United Kingdom

1258

IMPACT OF SARS-COV-2 IN PERIPHERAL BLOOD ON IMMUNE RESPONSES AND DISEASE SEVERITY IN HOSPITALIZED PATIENTS WITH COVID-19

Amber Castillo[1], Ivy Hurwitz[1], Qiuying Cheng[1], Alexandra V. Yingling[1], Janae Martinez[1], Clinton O. Onyango[2], Caroline Ndege[3], Perez Olewe[4], Elly O. Munde[5], Samuel B. Anyona[6], Evans Ramallah[7], Collins Ouma[8], J. Pedro Teixeira[9], Anthony Worsham[10], Michelle Harkins[9], Phillip Seidenberg[11], Jens O. Langsjoen[10], Kristan Schneider[12], Christophe G. Lambert[1], Douglas J. Perkins[1]

[1]Center for Global Health, Department of Internal Medicine, University of New Mexico Health Sciences Center, Albuquerque, NM, United States, [2]Department of Biomedical Sciences and Technology, School of Public Health and Community Development, Maseno University, Maseno, Kenya, [3]University of New Mexico-Maseno Global Health Programs Laboratories, Kisumu and Siaya, Kenya, [4]Department of Biomedical Sciences, School of Health Sciences, Jaramogi Oginga Odinga University of Science and Technology, Bondo, Kenya, [5]Department of Clinical Medicine, Kirinyaga University, Kerugoya, Kenya, [6]Department of Medical Biochemistry, School of Medicine, Maseno University, Maseno, Kenya, [7]Department of Medical Laboratory Sciences, School of Health Sciences, Masinde Muliro University of Science and Technology, Kakamega, Kenya, [8]Department of Biomedical Sciences and Technology, School of Public Health and Community Development, Maseno University, Maseno, Kenya, Department of Biological Sciences, Maseno, Kenya, [9]Division of Pulmonary, Critical Care, and Sleep Medicine, Department of Internal Medicine, University of New Mexico Health Sciences Center, Albuquerque, NM, United States, [10]Division of Hospital Medicine, Department of Internal Medicine, University of New Mexico Health Sciences Center, Albuquerque, NM, United States, [11]Department of Emergency Medicine, University of New Mexico Health Sciences Center, Albuquerque, NM, United States, [12]Department of MNI, University of Applied Sciences Mittweida, Mittweida, Germany

1259

SEVERE ACUTE RESPIRATORY SYNDROME - COVID-19: CLINICAL AND EPIDEMIOLOGICAL CHARACTERISTICS IN THE TWO EPIDEMIC WAVES, INSTITUTO DE INFECTOLOGIA EMÍLIO RIBAS-IIER, SÃO PAULO, BRAZIL, 2020 AND 2021

Ana Freitas Ribeiro[1], Roberta Figueiredo Cavalin[2], Tamara Nassar da Silva[1], Giulia Soler Bianchi[1], Victoria Spínola Duarte de Oliveira[1], Giap Passos F. Pereira Gomes[1], Ana Angélica B.Portela Lindoso[1], Jamal Muhamad A.H. Suleiman[1], Marileide Januaria de Vasconcelos[1]

[1]Instituto de Infectologia Emílio Ribas, São Paulo, Brazil, [2]Instituto de Infectologia Emilio Ribas, São Paulo, Brazil

1260

LATE SURGES IN COVID-19 CASES AND VARYING TRANSMISSION POTENTIAL DUE TO PUBLIC HEALTH POLICY CHANGES IN 5 MIDWEST STATES, MARCH 10, 2020-JANUARY 10, 2021

Xinyi Hua[1], Aubrey D. Kehoe[1], Joana Tome[1], Mina Motaghi[1], Sylvia K. Ofori[1], Po-Ying Lai[2], Sheikh Taslim Ali[3], Gerardo Chowell[4], Anne C. Spaulding[5], Isaac Chun-Hai Fung[1]

[1]Georgia Southern University, Statesboro, GA, United States, [2]Boston University, Boston, MA, United States, [3]The University of Hong Kong, Hong Kong, China, [4]Georgia State University, Atlanta, GA, United States, [5]Emory University, Atlanta, GA, United States

1261

DNA METHYLATION PATTERNS OF CIRCULATING IMMUNE CELLS AS A POTENTIAL TOOL IN THE DIAGNOSIS OF TUBERCULOSIS

Yomara Romero[1], Shumaila Sayyab[2], Mayuko Saito[3], Robert Gilman[4], Maria Lerm[2], Melissa Méndez[1]

[1]Laboratorio de Investigación en Enfermedades Infecciosas, LID, Universidad Peruana Cayetano Heredia, Lima, Peru, [2]Division of Inflammation and Infection, Linköping University, Linköping, Sweden, [3]Department of Virology, Tohoku University Graduate School of Medicine, Sendai 980-8575, Japan, [4]Department of International Health, Johns Hopkins School of Public Health, Baltimore, MD, United States

1262

SARS-COV-2 SEROASSAY OPTIMIZATION AND PERFORMANCE IN A POPULATION WITH HIGH BACKGROUND REACTIVITY IN MALI

Amatigue Zegiume[1], M'Bouye Doucoure[1], John Woodford[2], David Cook[2], Souleymane Traore[1], Moussa L Traore[1], Sintry Sonogo[1], Moussa B Kanoute[1], Sidiki Perou[1], Adama Ouattara[1], Mamady Kone[1], Sibiri Sissoko[1], Intimbeye Tembine[1], Abdoulaye Katile[1], Bourama Kamate[1], Mahamadoun Hamady Assadou[1], kourane Sissoko[1], Irfan Zaidi[2], Justin Doritchamou[2], Sara Healy[2], Jennifer Kwan[3], Jennifer Hume[2], Mahamadou S Sissoko[1], Boubacar Traore[1], Boubacar Traore[1], Jordyn Manucci[4], Abdoulaye Djimde[1], Abdoulaye Djimde[1], Alassane Dicko[1], Patrick Duffy[2], Issaka Sagara[1]

[1]MRTC/USTTB, Bamako, Mali, [2]LMIV/NIAID, Bethesda, MD, United States, [3]LCIM/NIAID, Bethesda, MD, United States, [4]DIR/NIAID, Rockville, MD, United States

Schistosomiasis and Other Trematodes – Epidemiology and Control

1263

COMPARISON OF THE URINE POINT-OF-CARE CIRCULATING CATHODIC ANTIGEN ASSAY TO THE STANDARD KATO KATZ STOOL TEST IN A SCHISTOSOMIASIS CONTROL PROGRAM IN WESTERN KENYA

Anne Straily[1], Emmy A. Kavere[2], Dollycate Wanja[2], Ryan E. Wiegand[1], Susan P. Montgomery[1], Alex Mwaki[2], Alie Eleveld[2], W. Evan Secor[1], Maurice R. Odiere[3]

[1]Centers for Disease Control and Prevention (CDC), Atlanta, GA, United States, [2]Safe Water and AIDS Project, Kisumu, Kenya, [3]Centre for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya

1264

ASSOCIATION OF FEMALE GENITAL SCHISTOSOMIASIS WITH THE CERVICOVAGINAL MICROBIOTA AND SEXUALLY TRANSMITTED INFECTIONS IN ZAMBIAN WOMEN

Amy S. Sturt[1], Emily L. Webb[1], Lisa Himschoot[2], Comfort R. Phiri[3], Joyce Mapani[4], Maina Mudenda[4], Eyrun F. Kjetland[5], Tobias Mweene[3], Bruno Levecke[2], Govert J. van Dam[6], Paul L. Corstjens[6], Helen Ayles[3], Richard J. Hayes[1], Lisette van Lieshout[6], Isaiah Hansingo[4], Suzanna C. Francis[1], Piet Cools[2], Amaya L. Bustinduy[1]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]University of Ghent, Ghent, Belgium, [3]Zambart, Lusaka, Zambia, [4]Livingstone Central Hospital, Livingstone, Zambia, [5]Oslo University Hospital, Oslo, Norway, [6]Leiden University Medical Center, Leiden, Netherlands

1265

FEMALE GENITAL SCHISTOSOMIASIS AND HIV-1 INCIDENCE IN ZAMBIAN WOMEN: A RETROSPECTIVE COHORT STUDY

Amy S. Sturt[1], Emily L. Webb[1], Comfort R. Phiri[2], Maina Mudena[3], Joyce Mapani[4], Barry Kosloff[2], Maina Cheeba[2], Kwame Shanaube[2], Justin Bwyala[5], Eyrun F. Kjetland[6], Suzanna C. Francis[1], Paul L. Corstjens[7], Govert J. van Dam[7], Lisette van Lieshout[7], Isaiah Hansingo[4], Helen Ayles[2], Richard J. Hayes[1], Amaya L. Bustinduy[1]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]Zambart, Lusaka, Zambia, [3]Livingstone Central Hospital, Lusaka, Zambia, [4]Livingstone Central Hospital, Livingstone, Zambia, [5]Zambart, Livingstone, Zambia, [6]Oslo University Hospital, Oslo, Norway, [7]Leiden University Medical Center, Leiden, Netherlands

1266

IMPLICATIONS OF OVERCOMING EXISTING CHALLENGES IN MAPPING SCHISTOSOMIASIS: THE EXPERIENCE OF RWANDA

Eugene Ruberanziza[1], Jean Bosco Mbonigaba[1], Michee Kabera[1], Alphonse Mutabazi[1], Elias Nyandwi[2], Aimable Mbituyumuremyi[1], Jamie Tallant[3]
[1]Rwanda Biomedical Centre/Ministry of Health, Kigali, Rwanda, [2]University of Rwanda, Kigali, Rwanda, [3]END Fund, New York, NY, United States

1267

BEHAVIORAL RESPONSES TO A SEASONAL ENVIRONMENT REDUCE FREQUENCY BUT INCREASE EXTENT OF WATER CONTACT IN A SCHISTOSOMIASIS-ENDEMIC REGION OF WEST AFRICA

Andrea Lund[1], M. Moustapha Sam[2], Alioune Sy[3], Omar Sow[4], Susanne Sokolow[5], Sylvia Bereknyei Merrell[6], Janine Bruce[6], Nicolas Jouanard[7], Simon Senghor[8], Gilles Riveau[9], Giulio De Leo[10], David Lopez-Carr[11]
[1]Colorado School of Public Health, Aurora, CO, United States, [2]Centre de Recherche Biomédicale - Espoir Pour La Sante, Saint-Louis, Senegal, [3]Centre de Recherche Biomédicale - Espoir Pour la Santé, Saint-Louis, Senegal, [4]Stanford University, Stanford, CA, United States, [5]Woods Institute for the Environment, Stanford University, Stanford, CA, United States, [6]Pediatric Advocacy Program, Department of Pediatrics, Stanford School of Medicine, Stanford, CA, United States, [7]Station d'Innovation Aquacole, Saint-Louis, Senegal, [8]Centre de Recherche Biomédicale – Espoir Pour La Santé, Saint-Louis, Senegal, [9]Université de Lille, CNRS, INSERM, CHU Lille, Institute Pasteur de Lille, Center for Infection and Immunity of Lille, Lille, France, [10]Hopkins Marine Station, Stanford University, Pacific Grove, CA, United States, [11]Department of Geography, University of California - Santa Barbara, Santa Barbara, CA, United States

1268

LONGITUDINAL ANALYSIS OF OCCUPATIONAL EXPOSURE TO*SCHISTOSOMEJAPONICUM* THROUGH IRRIGATED AGRICULTURE IN A SITE OF REEMERGENT AND PERSISTENT TRANSMISSION IN SICHUAN, CHINA

Andrea Lund[1], Elise Grover[1], Yang Liu[2], Ding Lu[2], Elizabeth J. Carlton[1]
[1]Colorado School of Public Health, Aurora, CO, United States, [2]Sichuan Centers for Disease Control, Chengdu, China

1269

MALARIA AND HELMINTH COINFECTIONS AMONG CHILDREN LIVING IN LOW AND MIDDLE INCOME COUNTRIES: A SYSTEMATIC REVIEW WITH METAANALYSIS

Muhammed O. Afolabi[1], Boni M. Ale[2], Edgard D. Dabira[3], Schadrac C. Agbla[4], Amaya L. Bustinduy[1], Jean-Louis A. Ndiaye[5], Brian Greenwood[1]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]Holo Healthcare Limited, Nairobi, Kenya, [3]Medical Research Council at London School of Hygiene & Tropical Medicine, Banjul, Gambia, [4]University of Liverpool, Liverpool, United Kingdom, [5]University of Thies, Thies, Senegal

1270

FACTORS ASSOCIATED WITH KNOWLEDGE OF SCHISTOSOMIASIS IN CHILDREN AND ADULTS IN THE KALABANCORO HEALTH DISTRICT IN 2020

Fatoumata Koundou Maiga[1], Abdoul Fatao Diabete[2], Moussa Sangare[2], Housseini Dolo[2], Ilo Dicko[3], Modibo Keita[4], Lamine Diarra[2], Lamine Soumaoro[5], Yacouba Sanogo[5], Issa Guindo[6], Mahamadou Traore[7], Ousmane Faye[8], Seydou Doumbia[9], Yaya Ibrahim Coulibaly[10]
[1]Department of Teaching and Research in Public Health and Specialties, Faculty of Medicine and Odontostomatology of Bamako; Health District of Kalabancoro, Koulikoro, Mali, Bamako, Mali, [2]Department of Teaching and Research in Public Health and Specialties, Faculty of Medicine and Odontostomatology of Bamako; Filarisis Unit, International Center of Excellence in Research, Bamako, Mali, Bamako, Mali, [3]University Clinical Research Center, Point G, Bamako, Mali, Bamako, Mali, [4]Hellen Keller International of Mali, Bamako, Bamako, Mali, [5]Filarisis Unit, International Center of Excellence in Research, Bamako, Mali, Bamako, Mali, [6]Health District of Kalabancoro, Koulikoro, Mali, Bamako, Mali, [7]National Schistosomiasis and Soil-transmitted Control Program, General Directorate of Health and Public Hygiene, Bamako, Mali, Bamako, Mali, [8]Hospital of Dermatology of Bamako, Bamako, Mali, Bamako, Mali, [9]Faculty of Medicine and Odontostomatology, Bamako, Bamako, Mali, [10]Department of Teaching and Research in Public Health and Specialties, Faculty of Medicine and Odontostomatology of Bamako; Filarisis Unit, International Center of Excellence in Research, Bamako, Mali; Hospital of Dermatology of Bamako, Bamako, Mali, Bamako, Mali

1271

THE MEASURING OF TREATMENT COVERAGE FOR SCHISTOSOMIASIS WITH PREVENTIVE CHEMOTHERAPY IN BONG, LOFA AND NIMBA COUNTIES IN 2018 IN LIBERIA

Anthony Kerkula Bettee
Ministry of Health, Congo Town, Monrovia, Liberia

1272

DIFFERENTIAL SUSCEPTIBILITY OF BOVINES TO SCHISTOSOMA JAPONICUM IN A CHALLENGE INFECTION MODEL

Mario Jiz[1], John Ezra dela Cruz[1], Joseph Valencia[1], Daria Manalo[1], Sarah Li[2], Hannah Wu[3], Jonathan D. Kurtis[3]
[1]Research Institute of Tropical Medicine, Metro Manila, Philippines, [2]NIH-NIAID Schistosomiasis Resource Center, Biomedical Research Institute, Rockville, MD, United States, [3]Center for International Health Research, Brown University Medical School, Providence, RI, United States

1273

GLOBAL BURDEN OF SCHISTOSOMIASIS 1990-2020: A MODELLING ANALYSIS FOR THE GLOBAL BURDEN OF DISEASE STUDY 2020, RELEASE 1

Ewerton Cousin, Cathleen Keller, Stephanie R. Zimsen, Taren Gorman, Martina Vargas, Emily Hilton, Trent Yarosevich, Jonathan Mosser
Institute for Health Metrics and Evaluation, Seattle, WA, United States

1274

THE PERSISTENCE OF SCHISTOSOMIASIS IN A LARGE METROPOLITAN AREA OF BRAZIL. RESPONSE OF *S. MANSONI* POPULATION STRUCTURE TO A CHANGING URBAN ENVIRONMENT

Fernanda M. Cedraz[1], Luciano K. Silva[1], Mitermayer G. Reis[1], **Ronald E. Blanton**[2], Lucio M. Barbosa[1]
[1]Oswaldo Cruz Foundation Bahia, Salvador, Brazil, [2]Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States

(ACMCIP Abstract)

Late-Breaker Abstract Session 96

Late-Breakers in Basic Sciences

Meeting Room 9
Saturday, November 20
11 a.m. - 12:15 p.m. U.S. Eastern Time Zone

This session is specifically designed for brief presentations of new data obtained after the closing date for abstract submission. See the Meeting App or Late-Breaker Abstract Presentation Schedule booklet (available online) for the presentation schedule.

CHAIR

Wei-Kung Wang
University of Hawaii at Manoa, Honolulu, HI, United States

Justin Yai Doritchamou
NIAID, Rockville, MD, United States

Break

Saturday, November 20
12:30 p.m. – 12:45 p.m. U.S. Eastern Time Zone

Scientific Session 97

Malaria: Innovations in Malaria Prevention and Control

Meeting Room 1
Saturday, November 20
12:45 p.m. - 2:30 p.m. U.S. Eastern Time Zone

CHAIR

Jean-Bosco Ouedraogo
IRSS, Direction Regionale, Bobo-Dioulasso, Burkina Faso

Alassane Dicko
University of Science Techniques and Technologies, Bamako, Mali

12:45 p.m.

1275

RESULTS FROM A HYBRID IMPLEMENTATION AND EFFECTIVENESS PILOT STUDY TO ASSESS THE FEASIBILITY, ACCEPTABILITY AND PROTECTIVE EFFECT OF SEASONAL MALARIA CHEMOPREVENTION IN NAMPULA PROVINCE, MOZAMBIQUE

Baltazar Candrinho[1], Kevin Baker[2], Maria Rodrigues[3], Sol Richardson[2], Craig Bonnington[2], Alexandra Wharton-Smith[2], Mercia Sitoe[3], Christian Rassi[2], Maddy Marasciulo[2], Sonia Enosse[4], Francisco Saute[5], Pedro Aide[6], Arantxa Roca-Feltrer[2]
[1]National Malaria Control Programme, Mauputo, Mozambique, [2]Malaria Consortium, London, United Kingdom, [3]Malaria Consortium, Maputo, Mozambique, [4]National Institute of Health (Instituto Nacional de Saúde), Maputo, Mozambique, [5]Centro de Investigação em Saúde de Manhiça (CISM), Manhica, Mozambique, [6]Centro de Investigação em Saúde de Manhiça (CISM), Maputo, Mozambique

12:55 p.m.

1276

BUILDING DATA INTEGRATION AND VISUALIZATION PLATFORMS TO HELP EMERGENCY OPERATION CENTERS MONITOR MALARIA DURING PUBLIC HEALTH EMERGENCIES - EXPERIENCE FROM THE DEMOCRATIC REPUBLIC OF THE CONGO

Garyn de Bondt[1], Hornel Lama[2], Jicko Bondole[1], Marie-Julie Lambert[2], Jimmy Anzolo[1], Thomas Warichet[2], Romain Olekhnovitch[2], Henry Nkutu[1], Grégoire Lurton[3], Trad Hatton[1], Kammerle Schneider[4], Nicolas de Borman[2], Hana Bilak[5], Hyacinthe Kaseya[6], Gisèle Mbuyi[7], Erick Katanga[8], Eric S. Mukomena[6], Aron Aruna[7]
[1]PATH, Kinshasa, Democratic Republic of the Congo, [2]Bluesquare, Brussels, Belgium, [3]Bluesquare, Brussels, Democratic Republic of the Congo, [4]PATH, Seattle, WA, United States, [5]PATH, Geneva, Switzerland, [6]National Malaria Control Programme, Kinshasa, Democratic Republic of the Congo, [7]Epidemiological Surveillance Department, Ministry of Health, Kinshasa, Democratic Republic of the Congo, [8]Health Management Information Systems Department, Ministry of Health,, Kinshasa, Democratic Republic of the Congo

1:05 p.m.

1277

EFFECTIVENESS OF A NATIONAL MASS DISTRIBUTION CAMPAIGN OF LONG-LASTING INSECTICIDE-TREATED NETS AND INDOOR RESIDUAL SPRAYING ON CLINICAL MALARIA IN MALAWI, 2018-2020

Hillary M. Topazian[1], Austin Gumbo[2], Jessie K. Edwards[1], Katerina Brandt[1], Varun Goel[1], Michael Kayange[2], Tisungane Mvalo[3], Michael Emch[1], Audrey Pettifor[1], Jennifer S. Smith[1], Jonathan J. Juliano[1], Irving F. Hoffman[1]
[1]University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [2]National Malaria Control Programme, Malawi Ministry of Health, Lilongwe, Malawi, [3]University of North Carolina Project-Malawi, Lilongwe, Malawi

1:15 p.m.

1278

IMPROVING THE QUALITY AND USE OF MALARIA SURVEILLANCE DATA: RESULTS FROM EVALUATING THE EFFECTIVENESS AND ACCEPTABILITY OF A NEW INTEGRATED MALARIA INFORMATION STORAGE SYSTEM IN SELECTED DISTRICTS IN MOZAMBIQUE

Ann-Sophie Stratil[1], Maria Rodrigues[2], Kevin Baker[1], Neide Canana[2], Sarmento Armando[2], Sergio Gomane[2], Edson Zandamela[2], Arantxa Roca-Feltrer[1], Baltazar Candrinho[3]
[1]Malaria Consortium, London, United Kingdom, [2]Malaria Consortium, Maputo, Mozambique, [3]National Malaria Control Programme, Ministry of Health, Maputo, Mozambique

1:25 p.m.

1279

SUB-HEALTH CENTERMALARIA SURVEILLANCE: SETUP AND COMMUNITY USE CASES OF A MOBILE SURVEILLANCE APPLICATION

Japhet M. Matoba[1], Anton Kvit[2], Mukuma J. Lubinda[1], Caison Sing' anga[1], Phil Thuma[3], Andre Hackerman[2], Edgar Simulundu[1], Tamaki Kobayashi[2], William J. Moss[2]
[1]Macha Research Trust, Choma, Zambia, [2]Johns Hopkins University Bloomberg School Of Public Health, Baltimore, MD, United States, [3]Macha Research Trust/Johns Hopkins University Bloomberg School Of public Health, Choma, Zambia

1:35 p.m. 1280

MALARIA FRONTLINE PROJECT IMPLEMENTATION: LESSONS LEARNED FROM ZAMFARA AND KANO STATES, NIGERIA, 2016-2019

Adefisoye Oluwaseun Adewole, Ndadilnasiya Waziri, Saheed Gidado, Amina Umar, Usaini Bala, Simple Edwin, Gideon Ugbenyo, Adam Attahiru, Isaac Igbaver, Patrick Nguku
African Field Epidemiology Network, Abuja, Nigeria

1:45 p.m. 1281

A PHASE IIIB COMPARATIVE TRIAL OF SEASONAL VACCINATION WITH THE MALARIA VACCINE RTS,S/AS01, SEASONAL MALARIA CHEMOPREVENTION AND OF THE TWO INTERVENTIONS COMBINED

Daniel Chandramohan[1], Issaka Zongo[2], Issaka Sagara[3], Matthew Cairns[1], Serge Yerbanga[2], Modibo Diarra[3], Frederic Nikiema[2], Amadou Tapily[3], Frederic Sompougdou[2], Djibrilla Issiaka[3], Charles Zoungrana[2], Koualy Sanogo[3], Alassane Haro[2], Mahamadou Kaya[3], Abdoul Aziz Sienou[2], Seydou Traore[3], Almahamadou Mahamar[3], Ismaila Thera[3], Kalifa Diarra[3], Amagana Dolo[3], Irene Kuepfer[1], Paul Snell[1], Paul Milligan[1], Christian Ockenhouse[4], Opokua Ofori-Anyinam[5], Halidou Tinto[2], Abdoulaye Djimde[3], Jean-Bosco Ouedraogo[2], Alassane Dicko[3], **Brian Greenwood**[1]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]Institut de Recherche en Sciences de la Santé, Bobo-Dioulasso, Burkina Faso, [3]Malaria Research & Training Centre, Bamako, Mali, [4]PATH, Seattle, WA, United States, [5]GSK Vaccines, Rixensart, Belgium

Symposium 98

Camera Traps, GPS Loggers and Drones: Affordable Tech Solutions for Low-Budget Spillover Surveillance

Meeting Room 2
Saturday, November 20
12:45 p.m. - 2:30 p.m. U.S. Eastern Time Zone

Zoonotic infections make up a significant proportion of emerging diseases, disproportionately affecting those living in developing countries where resources to predict, detect or prevent spillover events are scarce or non-existent. Thus, understanding how humans, animals, and vectors overlap in space and time is of great interest to scientists and public health officials. Tools to monitor the movement patterns of potential hosts, estimate contact between them, and to understand how each interact with their environment have been available for years; however, the use of such tools has largely remained siloed within the field of ecology or been considered too costly or technologically cumbersome except in the most well-funded public health research groups. Advances in computer software, drone, and GPS technologies have changed one part of this paradigm - the cost and barriers to entry to use these tools are lower than ever; yet, their adoption and integration still lag within ministries of health or other front-line disease programs. This symposium will provide an overview of how commercially available camera traps, GPS loggers, proximity loggers, and drones can be used to monitor the space-time overlap between human and animal hosts to make inferences about infectious disease transmission and risk. Specific, field-verified use-cases will be drawn upon to contextualize how the data captured by each device can expand our understanding of a multi-host disease system. Examples will include wildlife field cameras and leishmaniasis in the Amazon forest, GPS data loggers and urban rabies in southern Peru, GPS contact loggers and canine social networks in rural Chad, and drones and simian malaria in highly disturbed forests in Malaysian Borneo. Where applicable, panelists will discuss how results from field trials translated to meaningful action in the surrounding communities. Given the tools and technologies presented are relatively affordable and easy to use, each speaker will dedicate a portion of their talk to helping the audience understand how to incorporate the technologies and analytics into their current disease surveillance or research programs. Panelists will suggest additional use-cases outside of their detailed case-studies.

CHAIR

Justin Thomas Lana
Clinton Health Access Initiative, Panama City, Panama

Jessica Floyd
University of Southampton, Southhampton, United Kingdom

12:45 p.m.
INTRODUCTION

12:55 p.m.
SMILE, YOU'RE ON CANID CAMERA! USING WILD-LIFE TRAIL CAMERAS TO ASSESS SPACE TIME OVERLAP OF DOGS, HUMANS, AND WILDLIFE IN A LEISHMANIA SPP. ENDEMIC REGION OF NORTHERN PERU

Justin Thomas Lana
Clinton Health Access Initiative, Panama City, Panama

1:15 p.m.
LOW-COST GPS COLLARS TO INVESTIGATE THE IMPACT OF DOG MOVEMENT ON URBAN RABIES OUTBREAKS

Ricardo Castillo-Neyra
University of Pennsylvania, Philadelphia, PA, United States

1:35 p.m.
COMBINING DATA FROM PROXIMITY AND GPS UNITS TO PROVIDE INSIGHTS FOR THE MANAGEMENT OF DOG-MEDIATED DISEASES IN RURAL CHAD

Jared Wilson-Aggarwal
University of Leeds, Leeds, United Kingdom

1:55 p.m.
A CASE STUDY ON USING DRONES TO INVESTIGATE ZOONOTIC *P. KNOWLESI* EMERGENCE IN MALAYSIAN BORNEO

Isabel Byrne
LSHTM, London, United Kingdom

Scientific Session 99

Schistosomiasis II

Meeting Room 3
Saturday, November 20
12:45 p.m. - 2:30 p.m. U.S. Eastern Time Zone

CHAIR

Amy S. Sturt
VA Palo Alto Healthcare Systems, Palo Alto, CA, United States

Elizabeth Carlton
Environmental and Occupational Health, University of Colorado, Denver, Aurora, CO, United States

12:45 p.m.
BURROUGHS WELLCOME FUND-ASTMH FELLOWSHIP PRESENTER

1282

EFFECTS OF SCHISTOSOMA MANSONI AND PRAZIQUANTEL TREATMENT ON THE GASTROINTESTINAL MUCOSA: A COHORT STUDY IN RURAL TANZANIA

Khanh Pham[1], Gideon Mtalitinya[2], Christine Aristide[3], Efeose A. Airewale[3], Deborah Nyakaru[3], Paige McMahon[3], Paul L.A.M. Corstjens[4], Claudia de Dood[4], Govert J. van Dam[5], John M. Changalucha[6], Humphrey D. Mazigo[7], Hyasinta Jaka[7], Jennifer A. Downs[3]
[1]New York-Presbyterian/Weill Cornell Medical Center, New York, NY, United States, [2]Ghana Family Polyclinic, Mwanza, United Republic of Tanzania, [3]Center for Global Health, Weill Cornell Medicine, New York, NY, United States, [4]Department of Cell and Chemical Biology, Leiden University Medical Center, Leiden, Netherlands, [5]Department of Parasitology, Leiden University Medical Center, Leiden, Netherlands, [6]Mwanza Intervention Trials Unit, Mwanza, United Republic of Tanzania, [7]Bugando Medical Centre, Mwanza, United Republic of Tanzania

12:55 p.m.

1283

HOST TISSUE PROTEOMICS REVEAL INSIGHTS INTO THE MOLECULAR BASIS OF SCHISTOSOMA HAEMATOBIUM-INDUCED BLADDER PATHOLOGY

Derick N. Osakunor, Kenji Ishida, Olivia Lamanna, Aswini Panigrahi, Michael Hsieh
Children's National Medical Center, Washington, DC, United States

(ACMCIP Abstract)

1:05 p.m.

1284

HOST METABOLIC ALTERATIONS FROM EARLY SCHISTOSOMA HAEMATOBIUM INFECTION IN PRESCHOOL-AGED CHILDREN

Derick N. Osakunor[1], Takafira Mduluza[2], Douglas Osei-Hyiaman[3], Karl Burgess[4], Mark Woolhouse[4], Francisca Mutapi[4]
[1]Children's National Medical Center, Washington, DC, United States, [2]University of Zimbabwe, Mount Pleasant, Harare, Zimbabwe, [3]National Institutes of Health, Bethesda, MD, United States, [4]University of Edinburgh, Edinburgh, United Kingdom

(ACMCIP Abstract)

1:15 p.m.

1285

IN UTERO METABOLIC RESPONSES TO MATERNAL *S. JAPONICUM* OCCUR IN A SEX-DEPENDENT MANNER

Emily McDonald[1], Zorimel Vargas[1], Palmera Baltazar[2], Veronica Tallo[2], Jennifer Friedman[1]
[1]Rhode Island Hospital, Providence, RI, United States, [2]Research Institute of Tropical Medicine, Manila, Philippines

1:25 p.m.

1286

THE ROLE OF MICROBIAL TRANSLOCATION IN THE PATHOGENESIS OF S. MANSONI ASSOCIATED MORBIDITY

Jacqueline Araújo Fiuza[1], Susannah Colt[2], Jonathan Kurtis[2], Letícia Gambogi de Ornellas[1], Leonardo Matoso[3], Gisele Andrade[3], Andréa Gazzinelli[3], Jennifer Friedman[2], Rodrigo Corrêa-Oliveira[1]
[1]René Rachou Institute/FIOCRUZ, Belo Horizonte, Brazil, [2]Lifespan Center for International Health Research,, Providence, RI, United States, [3]Escola de Enfermagem, Universidade Federal de Minas Gerais, Belo Horizonte, Brazil

1:35 p.m.

1287

INTRANASAL ADMINISTRATION OF AN ADENOVIRUS-VECTOR EXPRESSING CATHEPSIN B PROTECTS FROM SCHISTOSOMIASIS INFECTION IN A PRE-CLINICAL MODEL

Dilhan J. Perera[1], Adam S. Hassan[1], Mehdy Elahi[2], Christine Gadoury[2], Risini Weeratna[3], Renald Gilbert[2], Momar Ndao[1]
[1]Research Institute McGill University Health Center, Montreal, QC, Canada, [2]National Research Council Canada; Human Health Therapeutics Research Center, Montreal, QC, Canada, [3]National Research Council Canada; Human Health Therapeutics Research Center, Ottawa, QC, Canada

(ACMCIP Abstract)

1:45 p.m.

1288

DIMINISHING CROSS-REACTIVITY IN SCHISTOSOMIASIS SEROLOGY BY APPLYING A SINGLE GLYCAN TARGET APPROACH

Anna O. Kildemoes[1], Tom Veldhuizen[1], Mio Tanaka[2], Lisette van Lieshout[1], Daniel Camprubí-Ferrer[3], Jose Munoz[3], Jan Clerinx[4], Leo Visser[1], Shinjiro Hamano[2], Sammy M. Njenga[5], Meta Roestenberg[1], Angela van Diepen[1], Cornelis H. Hokke[1]
[1]Leiden University Medical Center, Leiden, Netherlands, [2]Institute of Tropical Medicine, Nagasaki University, Nagasaki, Japan, [3]Barcelona Institute for Global Health, Universitat de Barcelona, Barcelona, Spain, [4]Institute of Tropical Medicine, Antwerpen, Belgium, [5]Kenya Medical Research Institute, Nairobi, Kenya

Symposium 100

Missing No More: Understanding Health Access Barriers Through Different Platforms

Meeting Room 4
Saturday, November 20
12:45 p.m. - 2:30 p.m. U.S. Eastern Time Zone

Service providers reach community members with health interventions through a variety of platforms, including at health facilities, community distribution posts, and schools. Understanding who is missed, and why, in these platforms is critical in addressing coverage gaps and ensuring equitable access to care. Considerations of gender equity and social inclusion (GESI) are key to analyzing if groups or individuals are missing because of an access issue, or because of refusal, a demand issue. Symposium sessions will include a multi-country overview of coverage data that helps identify trends in accessing mass drug administration (MDA) to control neglected tropical diseases. A presentation from Nepal will examine MDA compliance data from coverage surveys, prevalence surveys and focus group discussions, with an aim towards improving equitable and inclusive distribution strategies. Results from a pilot activity in Tanzania will highlight an approach that reviewed local service

use registers and applied a behavior change approach to a school-based service delivery platform, whereby GESI issues were identified and addressed, in a bid to change intent to access and take future rounds of treatment. Lastly, the symposium will feature results from a facility-based platform in Kenya, whereby support to health providers to improve gender-based violence identification, management, and response resulted in a marked increase in service access and uptake (from 5% average at baseline to 60% average, across a six-month period, helping a provincial hospital achieve 111% of their target of GBV survivors identified and managed).

CHAIR

Taroub Faramand
WI-HER, LLC, Vienna, VA, United States

Sara Pappa
WI-HER, LLC, Vienna, VA, United States

12:45 p.m.
INTRODUCTION

12:55 p.m.
MISSING PERSONS: WHAT WE HAVE LEARNED ABOUT MDA ABSENTEEISM FROM 10+ YEARS OF COVERAGE EVALUATION SURVEYS

Diana Lu
Research Triangle Institute (RTI) International, Washington DC, DC, United States

1:15 p.m.
IDENTIFYING THE MISSED, REACHING THE UNREACHED: MULTIPLE APPROACHES TO ASSESS AND STRENGTHEN A COMMUNITY-BASED PLATFORM TO REACH THE LAST MILE IN LYMPHATIC FILARIASIS ELIMINATION IN NEPAL

Lila Bikram Thapa
Ministry and of Health and Population (MOHP), Nepal, Nepal

1:35 p.m.
CHANGING BEHAVIORS, CHANGING INTENT: APPLYING A GENDER- AND EQUITY-BASED APPROACH TO REACHING THOSE WHO HAVE BEEN MISSED THROUGH A SCHOOL-BASED PLATFORM

Isaac K. Njau
Ministry of Health, Community Development, Gender, Elderly and Children (MOHCDGEC), Dodoma, United Republic of Tanzania

1:55 p.m.
IMPROVING IDENTIFICATION, MANAGEMENT, AND RESPONSE OF GENDER-BASED VIOLENCE SURVIVORS IN KENYA: EXAMPLE OF PROVINCIAL GENERAL HOSPITAL, NAKURU COUNTY, KENYA

Luseka Mwanzi
WI-HER, LLC, Nakuru, Kenya

Scientific Session 101

Dengue: Vaccines and Immunity

Meeting Room 5
Saturday, November 20
12:45 p.m. - 2:30 p.m. U.S. Eastern Time Zone

CHAIR

Marnix Van Loock
Global Public Health R&D, Janssen Pharmaceutica NV, Beerse, Belgium

Kirsten E. Lyke
Center for Vaccine Development, University of Maryland, BALTIMORE, MD, United States

12:45 p.m. **1289**

A PHASE 1 OPEN-LABEL TRIAL WITH DENGUE-1-VIRUS LIVE VIRUS HUMAN CHALLENGE ASSESSMENT OF HEALTHY U.S. ADULTS PREVIOUSLY PRIMED WITH TETRAVALENT DENGUE VIRUS PURIFIED INACTIVATED VACCINE AND BOOSTED WITH TETRAVALENT DENGUE VIRUS LIVE ATTENUATED VACCINE FORMULATION

Kirsten E. Lyke[1], Joel V. Chua[2], Monica McArthur[1], Faith Pa'ahana-Brown[1], Kathy A. Strauss[1], Gregory D. Gromowski[3], Rafael A. De La Barrera[4], Jeffrey W. Froude[4], Simon Pollett[3], Richard G. Jarmen[5], Robert Edelman[6], Michael A. Koren[3]
[1]University of Maryland, Center for Vaccine Development, Baltimore, MD, United States, [2]University of Maryland, Institute for Human Virology, Baltimore, MD, United States, [3]Viral Diseases Branch, Walter Reed Army Institute of Research, Silver Spring, MD, United States, [4]Pilot Bioproduction Facility, Walter Reed Army Institute of Research, Silver Spring, MD, United States, [5]Strategic Planning Office, Walter Reed Army Institute of Research, Silver Spring, MD, United States, [6]University of Maryland, Center for Vaccine Development, BALTIMORE, MD, United States

12:55 p.m. **1290**

CUMULATIVE SAFETY ASSESSMENT OF THE TAKEDA TETRAVALENT DENGUE VACCINE CANDIDATE IN PARTICIPANTS 4 TO 60 YEARS OLD

Sanjay S. Patel[1], Martina Rauscher[1], Hang Peng[2]
[1]Takeda Pharmaceuticals, Glattpark-Opfikon (Zurich), Switzerland, [2]Takeda Pharmaceuticals International Inc., Cambridge, MA, United States

1:05 p.m. **1291**

UNPRECEDENTED PRECLINICAL EFFICACY OF JNJ-1802, A NOVEL PAN-SEROTYPE DENGUE ANTIVIRAL SMALL MOLECULE, AGAINST DENGUE VIRUS IN NON-HUMAN PRIMATE AND MURINE MODELS

Olivia Goethals[1], Suzanne J. F. Kaptein[2], Bart Kesteleyn[3], Jean-Francois Bonfanti[4], Tim H. M. Jonckers[3], Arnaud Marchand[5], Ernst Verschoor[6], Babs Verstrepen[6], Liesbeth Van Wesenbeeck[3], Oliver Ackaert[7], Roel Straetemans[3], Sophie Lachau-Durand[3], Peggy Geluykens[3], Marjolein Crabbe[3], Kim Thys[3], Dorothée Bardiot[5], Bart Stoops[3], Kai Dallmeier[2], Robert J. Putnak[8], Michael K. McCracken[8], Gregory D. Gromowski[8], Wiriya Rutvisuttinunt[8], Richard G. Jarman[8], Nicos Karasavvas[8], Franck Touret[9], Gilles Querat[9], Xavier de Lamballerie[9], Dominik Kiemel[10], Laurent Chatel-Chaix[10], Max Münster[10], Gregg Milligan[11], David Beasley[11], Nigel Bourne[11], Alan D. T. Barrett[11], Pierre Raboisson[3], Kenny Simmen[3], Patrick Chaltin[12], Ralf Bartenschlager[13], Willy Bogers[6], Johan Neyts[14], **Marnix Van Loock**[1]
[1]Janssen Global Public Health, Janssen Pharmaceutica NV, Beerse, Belgium, [2]KU Leuven, Department of Microbiology, Immunology and Transplantation, Rega Institute for Medical Research, Laboratory of Virology and Chemotherapy, Leuven, Belgium, [3]Janssen Research & Development, Janssen Pharmaceutica NV, Beerse, Belgium, [4]Janssen Infectious Diseases Discovery, Janssen-Cilag, Val de Reuil, France, [5]Cistim Leuven vzw, Bioincubator 2, Leuven, Belgium, [6]Department of Virology, Biomedical Primate Research Centre, Rijswijk, Netherlands, [7]Janssen Quantitative Sciences, Janssen

Pharmaceutica NV, Beerse, Belgium, [8]Viral Diseases Branch, Walter Reed Army Institute of Research, Silver Spring, MD, United States, [9]Unité des Virus Émergents (UVE: Aix-Marseille Univ–IRD 190–Inserm 1207–IHU Méditerranée Infection), Marseille, France, [10]Department of Infectious Diseases, Molecular Virology, Heidelberg University, Heidelberg, Germany, [11]Sealy Institute for Vaccine Sciences, The University of Texas Medical Branch Health, Galveston, TX, United States, [12]Cistim Leuven vzw, Bioincubator 2; Centre for Drug Design and Discovery (CD3), KU Leuven, Bioincubator 2, Leuven, Belgium, [13]Department of Infectious Diseases, Molecular Virology, Heidelberg University; German Center for Infection Research, Heidelberg partner site, Heidelberg, Germany, [14]KU Leuven, Department of Microbiology, Immunology and Transplantation, Rega Institute for Medical Research, Laboratory of Virology and Chemotherapy; Global Virus Network, Leuven, Belgium

1:15 p.m. **1292**

EFFECTIVENESS OF A TETRAVALENT DENGUE VACCINE, BRAZIL, 2016 - 2019

Expedito J. Luna[1], Irina Riediger[2], Fernanda Crosewski[3], Denise Garrett[4], Jose C. Moraes[5]
[1]Universidade de Sao Paulo, Sao Paulo, Brazil, [2]Laboratório Central do Estado do Parana, Sao Jose dos Pinhais, Brazil, [3]Secretaria de Estado da Saude do Parana, Curitiba, Brazil, [4]Sabin Vaccine Institute, Washington DC, MD, United States, [5]Faculdade de Ciencias Medicas da Santa Casa de Sao Paulo, Sao Paulo, Brazil

1:25 p.m. **1293**

STRUCTURE-GUIDED STABILIZED DENV2 ENVELOPE SUBUNIT VACCINE ELICITS DENV2 NEUTRALIZING ANTIBODY *IN VIVO*.

Devina J. Thiono[1], Stephan T. Kudlacek[1], Demetrios L. Samaras[1], Shaomin Tian[1], Michael K. McCracken[2], Sandrine A. Soman[2], Gregory D. Gromowski[2], Richard G. Jarman[2], John Forsberg[1], Thanh T. Phan[1], Brian Kuhlman[1], Aravinda M. de Silva[1]
[1]University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [2]Walter Reed Army Institute of Research, Silver Spring, MD, United States

1:35 p.m. **1294**

IMMUNE PROFILING OF HOST RESPONSE TO TRIVALENT AND TETRAVALENT DENGUE CANDIDATE VACCINE AND DENGUE CHALLENGE

Ruixue Hou[1], Lewis E. Tomalin[1], Seunghee Kim-Schuzle[1], Ana Fernandez-Sesma[1], Anna P. Durbin[2], Mayte Suárez-Fariñas[1]
[1]Icahn School of Medicine at Mount Sinai, New York, NY, United States, [2]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

1:45 p.m. **1295**

MONOMERIC IGA1 ANTAGONIZES IGG1-MEDIATED ENHANCEMENT OF DENV-3 INFECTION *IN VITRO*

Adam Wegman[1], HengSheng Fang[1], Heather Friberg[2], Gregory Gromowski[2], Jeffrey Currier[2], Alan Rothman[3], Stephen Thomas[1], Timothy Endy[1], Adam Waickman[1]
[1]SUNY Upstate Medical University, Syracuse, NY, United States, [2]Walter Reed Army Institute of Research, Silver Spring, MD, United States, [3]University of Rhode Island, Kingston, RI, United States

Symposium 102

Ex vivo Assessment of Drug Susceptibility of the Antimalarial Drug Pipeline

Meeting Room 6
Saturday, November 20
12:45 p.m. - 2:30 p.m. U.S. Eastern Time Zone

Antimalarial drug resistance is most advanced in Southeast Asia, but the emergence and spread of resistance to other regions, especially Africa, is of great concern. *Ex vivo* assessment of drug susceptibility, measured in the laboratory immediately after collection of parasites from a patient with malaria, offers a valuable means of characterizing drug action, in parallel with characterization of genotypes associated with drug resistance and with clinical trials testing antimalarial drug efficacy. *Ex vivo* assessments offer longitudinal characterization of susceptibility of circulating parasites to key components of antimalarial regimens. In addition, *ex vivo* assessments are a key component of the antimalarial drug development strategy. This symposium will focus on *ex vivo* assays to characterize activities of new compounds under study. In addition to studies of activities against culture adapted parasites, it is critical to consider the range of susceptibilities of parasites now circulating in endemic countries to these lead compounds under development as the next generation of antimalarials. In general, *ex vivo* susceptibilities to new compounds have been excellent, but varied activities have been seen for many compounds, and in some cases decreased activity has correlated with parasite genetic polymorphisms in potential drug targets or transporters. This symposium will review studies characterizing *ex vivo* susceptibilities of field isolates to standard antimalarials and to the pipeline of new lead antimalarials. Further, descriptions of the correlations between *ex vivo* susceptibility data and parasite genotypes will be provided. Taken together, the genotype and phenotype data offer important insights to guide the design and development of the next generation of antimalarials. Speakers at the symposium will highlight advances in the study of *ex vivo* susceptibility of the antimalarial drug pipeline and related molecular studies of isolates from Africa, Asia, and South America.

CHAIR

Philip Rosenthal
University of California, San Francisco, San Francisco, CA, United States

Maëlle Duffey
Medicines for Malaria Venture (MMV), Meyrin, Switzerland

12:45 p.m.
INTRODUCTION

12:55 p.m.
GENOTYPE-PHENOTYPE ASSOCIATIONS FOR EAST AFRICAN MALARIA PARASITES

Oriana Kreutzfeld
University of California, San Francisco, San Francisco, CA, United States

1:20 p.m.

CHARACTERIZING THE DRUG SUSCEPTIBILITY OF MALARIA PARASITES IN WEST AFRICA

Laurent Dembelé
Malaria Research and Training Center (MRTC) of Bamako, Bamako, Mali

1:45 p.m.

CHARACTERIZING BRAZILIAN *PLASMODIUM* PARASITES AND THEIR RESPONSE TO VARIOUS NEW DRUG CANDIDATES AGAINST MALARIA

Caroline Aguiar
Universidade de São Paulo, Sao Paulo, Brazil

2:10 p.m.

PROFILING NEW ANTIMALARIALS AGAINST CAMBODIAN PARASITES

Camille Roesch
Pasteur Institute of Cambodia, Phnom Penh, Cambodia

Scientific Session 103

Bacteriology: Enteric Infections

Meeting Room 7
Saturday, November 20
12:45 p.m. - 2:30 p.m. U.S. Eastern Time Zone

CHAIR
Sharia M. Ahmed
University of Utah, Salt Lake City, UT, United States

Jeffrey Donowitz
Virginia Commonwealth University, Richmond, VA, United States

12:45 p.m. 1296

DEFINING POLYSACCHARIDE-SPECIFIC ANTIBODY TARGETS AGAINST VIBRIO CHOLERAE O139 IN HUMANS FOLLOWING O139-CHOLERA AND FOLLOWING VACCINATION WITH A COMMERCIAL BIVALENT ORAL CHOLERA VACCINE, AND EVALUATION OF CONJUGATE VACCINES TARGETING O139

Mohammad Kamruzzaman[1], Meagan Kelly[2], Richelle C. Charles[2], Jason B. Harris[2], Stephen B. Calderwood[2], Aklima Akter[1], Rajib Biswas[1], Hasanul M. Kaisar[1], Taufiqur R. Bhuiyan[1], Louise C. Ivers[2], Ralph Ternier[3], Jean-Gregory Jerome[3], Hélene B. Pfister[4], Xiaowei Lu[4], Sameh E. Soliman[4], Bart Ruttens[4], Rina Saksena[4], Jana Mečárová[5], Alžbeta Čížová[5], Firdausi Qadri[1], Slavomír Bystrický[5], Pavol Kováč[4], Peng Xu[4], Edward T. Ryan[2]
[1]International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, [2]Division of Infectious Diseases, Massachusetts General Hospital, Boston, MA, United States, [3]Partners In Health/Zanmi Lasante, Cange, Haiti, [4]NIDDK, LBC, National Institutes of Health, Bethesda, MD, United States, [5]Institute of Chemistry, Slovak Academy of Sciences, Bratislava, Slovakia

12:55 p.m. 1297

EFFECTIVENESS OF TYPHOID CONJUGATE VACCINE AGAINST CULTURE-CONFIRMED TYPHOID IN A PERI-URBAN SETTING IN KARACHI: A CASE-CONTROL STUDY

Rabab Batool[1], Mohammad Tahir Yousafzai[1], Sonia Qureshi[1], Miqdad Ali[1], Tahira Sadaf[1], Junaid Mehmood[1], Per Ashorn[2], Farah Naz Qamar[1]
[1]Aga Khan University Hospital, Karachi, Pakistan, [2]Tampere University of Applied Sciences, Tampere, Finland

1:05 p.m. 1298

ANTIMICROBIAL RESISTANT TYPHOID AS A CAUSE OF ACUTE FEBRILE ILLNESS (AFI) IN BANGLADESH

Pritimoy Das[1], M Ziaur Rahman[1], Sayera Banu[1], Mahmudur Rahman[1], Daniel W. Martin[2], Mahabub Ul Anwar[2], Adam L. Cohen[2], Michael Friedman[2]
[1]International Centre for Diarrhoeal Disease Research, Bangladesh (icddr,b), Dhaka, Bangladesh, [2]Centers for Disease Control and Prevention (CDC), Atlanta, GA, United States

1:15 p.m. 1299

ANTIBIOTICS IMPROVE GROWTH IN TANZANIAN CHILDREN WITH SMALL INTESTINE BACTERIAL OVERGROWTH

Jeffrey Donowitz[1], Samuel Huang[2], Sarah E. Elwood[3], Anne W. Wanjuhi[3], Jean Gratz[3], Samwel Jatosh[4], Siphael Katengu[4], Paschal Mdoe[4], Eric R. Houpt[3], James Platts-Mills[3], Elizabeth Rogawski McQuade[3], Estomih Mduma[4], Mark D. DeBoer[3]
[1]Children's Hospital of RIchmond at Virginia Commonwealth University, Richmond, VA, United States, [2]Virginia Commonwealth University, Richmond, VA, United States, [3]University of Virginia, Charlottesville, VA, United States, [4]Haydom Lutheran Hospital, Haydom, United Republic of Tanzania

1:25 p.m. 1300

EXPANDING THE VACCINE VALUE PROPOSITION BY QUANTIFYING THE BURDEN OF ANTIBIOTIC USE THAT CAN BE ATTRIBUTED TO SHIGELLA AND IS POTENTIALLY AVERTABLE BY VACCINES

Elizabeth Tacket Rogawski McQuade[1], Stephanie Brennhofer[1], Joseph A. Lewnard[2], James A. Platts-Mills[1]
[1]University of Virginia, Charlottesville, VA, United States, [2]University of California, Berkeley, Berkeley, CA, United States

1:35 p.m. 1301

A CLINICAL PREDICTION RULE TO GUIDE DIAGNOSTIC TESTING IN CHILDREN UNDER-5 PRESENTING WITH DIARRHEA IN LMICS

Sharia M. Ahmed[1], Benjamin Brintz[1], Patricia Pavlinac[2], James A. Platts-Mills[3], Karen L. Kotloff[4], Daniel T. Leung[1]
[1]University of Utah, Salt Lake City, UT, United States, [2]University of Washington, Seattle, WA, United States, [3]University of Virginia, Charlottesville, VA, United States, [4]University of Maryland, Baltimore, MD, United States

1:45 p.m. 1302

DEVELOPMENT AND VALIDATION OF A CLINICAL PREDICTION MODEL FOR ACUTE VIRAL DIARRHEA IN BANGLADESH

Stephanie C. Garbern[1], Md. Taufiqul Islam[2], Kamrul Islam[2], Ashraful I. Khan[2], Mami Taniuchi[3], James A. Platts-Mills[3], Firdausi Qadri[2], Daniel T. Leung[4]
[1]Alpert Medical School of Brown University, Providence, RI, United States, [2]International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, [3]University of Virginia, Charlottesville, VA, United States, [4]University of Utah, Salt Lake City, UT, United States

Symposium 104

Honoring Don Krogstad: A Tribute to a Special Person Who Dedicated His Entire Life to Malaria Control

Meeting Room 8
Saturday, November 20
12:45 p.m. - 2:30 p.m. U.S. Eastern Time Zone

This symposium has four parts: 1). an introduction describing how Don Krogstad contributed to build a scientific environment in disease-endemic countries such as Mali. That introduction is then followed by three presentations describing Don Krogstad's work and collaboration in Africa and US. The presentations are based on his life and achievements. 2). Development of clinical research and the training of host country investigators in disease-endemic regions, 3). antimalarial drug development: from bench to field. 4). Time for tribute. 5). Collaborators will speak about Don Krogstad.

CHAIR

Ousmane A. Koita, Ousmane A. Koita
University of Bamako, Bamako, Mali

Seydou O. Doumbia
University of Bamako, Bamako, Mali

12:45 p.m.
INTRODUCTION

12:55 p.m.
DON KROGSTAD AND SCIENTIFIC CAPACITY BUILDING IN DISEASE ENDEMIC COUNTRIES

Ousmane A. Koita
University of Bamako, Bamako, Mali

1:15 p.m.
DON KROGSTAD AND FIELD TRAINING IN STUDY DESIGN AND EPIDEMIOLOGY

Seydou O. Doumbia
University of Bamako, Bamako, Mali

1:35 p.m.
RESEARCH AND MENTORING AT THE HEART OF DON KROGSTAD

Jackeline Alger
Universidad Nacional Autónoma de Honduras, Tegucigalpa, Honduras

1:55 p.m.
DON KROGSTAD, TRIBUTE TO A GREAT SCIENTIST

Frances J. Mather
Tulane University, New Orleans, LA, United States

Scientific Session 105

Mosquitoes-Vector Biology-Epidemiology II

Meeting Room 9
Saturday, November 20
12:45 p.m. - 2:30 p.m. U.S. Eastern Time Zone

CHAIR

Nina L. Dennington
The Pennsylvania State University, University Park, PA, United States

Joelle Rosser
Stanford University, Stanford, CA, United States

12:45 p.m. 1303

POPULATION SYNCHRONY AS AN ARBOVIRUS RISK METRIC IN CONNECTICUT, USA

Joseph McMillan, Philip Armstrong
The Connecticut Agricultural Experiment Station, New Haven, CT, United States

12:55 p.m. 1304

NATURAL AEDES-BORNE VIRUS INFECTION IN *AEDES AEGYPTI* WITH IMPLICATIONS FOR ESTIMATES OF TRANSMISSION RISK

Oscar D. Kirstein[1], Guadalupe Ayora Talavera[2], Karina J. Ciau-Carrilo[2], Ester Rodríguez-Martín[2], Zhuoran Wei[1], Azael Che Mendoza[3], Anne L. Piantadosi[4], Pablo Manrique-Saide[3], Gonzalo Vazquez-Prokopec[1]
[1]Department of Environmental Sciences. Emory University, Atlanta, GA, United States, [2]Laboratorio de Virología. Centro de Investigaciones Regionales "Dr. Hideyo Noguchi", Universidad Autónoma de Yucatán, Mérida, Yucatán, Mexico, [3]Unidad Colaborativa de Bioensayos Entomológicos, Universidad Autónoma de Yucatán, Mérida, Yucatán, Mexico, [4]Emory University, Atlanta, GA, United States

1:05 p.m. 1305

SKIN IMMUNE SIGNATURES AFTER *AEDES AEGYPTI* MOSQUITO BITE IN CAMBODIAN VOLUNTEERS IS CONSISTENT WITH AN ANTI-INFLAMMATORY PROFILE

David Guerrero[1], Hoa Vo[1], Jennifer Bohl[2], Sreynik Nhik[3], Sophana Chea[3], Somnang Man[3], Sokunthea Sreng[4], Sokna Ly[4], Rekol Huy[4], Rithea Leang[4], Jesus G. Valenzuela[2], Chanthap Lon[5], Dorothee Missee[6], Fabiano Oliveira[2], Jessica Manning[2], Tineke Cantaert[1]
[1]Institute Pasteur du Cambodge, Phnom Penh, Cambodia, [2]Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States, [3]International Center of Excellence in Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Phnom Penh, Cambodia, Phnom Penh, Cambodia, [4]International Center of Excellence in Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Phnom Penh, Cambodia, [5]International Center of Excellence in Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health,, Phnom Penh, Cambodia, [6]Institut de Recherche pour le Développement, Université de Montpellier, Montpellier, France

1:15 p.m. 1306

UNDERSTANDING RESPONSES TO A CHANGING CLIMATE USING COMMON GARDEN AND SELECTION EXPERIMENTS ON AEDES MOSQUITOES

Nina L. Dennington[1], Matthew Thomas[2]
[1]The Pennsylvania State University, University Park, PA, United States, [2]York Environmental Sustainability Institute, York, United Kingdom

1:25 p.m. 1307

REEMERGENCE OF YELLOW FEVER VIRUS IN SOUTHEASTERN BRAZIL, 2017-2018: WHAT SPARKED THE SPREAD?

Joelle Rosser[1], Karin Nielsen-Saines[2], Trevon Fuller[3]
[1]Stanford University, Stanford, CA, United States, [2]David Geffen UCLA School of Medicine, Los Angeles, CA, United States, [3]University of California, Los Angeles, Institute of the Environmental and Sustainability, Los Angeles, CA, United States

1:35 p.m. 1308

MOSQUITOES ARE EXCITO-REPELLED UPON CONTACT WITH TOPICAL REPELLENTS: A 3D VIDEO TRACKING ANALYSIS OF MOSQUITOES EXPOSED TO COMMON TOPICAL REPELLENTS IN THE STANDARD ARM-IN-CAGE TEST

Mathurin Baptiste Fatou[1], Steven Nicholas Fry[2], Pie Müller[1]
[1]Swiss Tropical and Public Health Institute, Basel, Switzerland, [2]Tösstalstrasse 88, Winterthur, Switzerland

1:45 p.m. 1309

FIRST REPORT OF HIGH SURVIVAL AND FECUNDITY RATES OF MALARIA VECTOR MOSQUITOES IN IRRIGATED AREAS OF ETHIOPIA

Dawit Hawaria Logita[1], Solomon Kibret[2], Delenasaw Yewhalaw[3], Guiyun Yan[2]
[1]Yirgalem Hospital Medical College, Hawasa, Ethiopia, [2]University of California, Calfornia, CA, United States, [3]Jimma University, Jimma, Ethiopia

Symposium 106

Progress and Challenges for Elimination of Lymphatic Filariasis and Onchocerciasis in West Africa

Meeting Room 10
Saturday, November 20
12:45 p.m. - 2:30 p.m. U.S. Eastern Time Zone

Onchocerciasis and lymphatic filariasis (LF) are two filarial diseases that overlap significantly in Africa. The World Health Organization (WHO) has targeted both diseases for elimination, with mass drug administration (MDA) as the primary treatment strategy. Commitment towards this goal was boosted by the recently launched WHO 2021-2030 NTD Roadmap. This ambitious goal will require considerable effort from endemic countries and stakeholders over a prolonged period. In co-endemic countries, the diseases are often treated concurrently through MDA with ivermectin (IVM) for onchocerciasis, coupled with albendazole for LF. The length of time that MDA needs to be administered before it can be safely stopped, however, differs for LF and onchocerciasis. When sufficient coverage is achieved, MDA for LF can be stopped after as few as five annual rounds of treatment. Difficulties can arise in districts, where MDA was interrupted following successful elimination of LF, but subsequent onchocerciasis elimination mapping shows that onchocerciasis persists and MDA of IVM is required. In settings where successful epidemiological and entomological assessments for onchocerciasis indicate that MDA can be stopped, it may be not possible to interrupt MDA with IVM due to ongoing transmission of LF. Assessing the status quo of current potential transmission of onchocerciasis and LF in West Africa, and cross-border and cross-cutting challenges (i.e. ecological, political, socio-economic) may be essential for improved control and elimination efforts. For example, for onchocerciasis, many endemic countries have not yet achieved country-wide elimination despite >40 years of interventions. While each country has its specific control strategies and challenges, combining insights and efforts from West African countries may provide new opportunities for a collaborative effort to eliminate onchocerciasis and LF from the region. Key questions include: What hurdles do co-endemic countries face? What next steps need to be taken to achieve the elimination of both diseases in West Africa? How can elimination be accelerated in West Africa and elsewhere? In this symposium, we will first provide an overview of the achievements to date from West African countries in terms of onchocerciasis infection prevalence and entomological indicators. We will then bring three key speakers from onchocerciasis and LF-endemic countries together to discuss key challenges to elimination, and the dynamics of continuing the treatments with IVM for onchocerciasis in the LF post-treatment phase when needed. Important lessons can be learned from these countries' experiences, which can be used to accelerate onchocerciasis and LF elimination and improve MDA-stopping strategies for both filarial diseases.

CHAIR
Achille Kabore
FHI360, DIstrict of Columbia, DC, United States
Wilma A. Stolk
Erasmus MC, Rotterdam, Netherlands

12:45 p.m.
INTRODUCTION

12:55 p.m.
ACHIEVEMENTS SINCE THE START OF INTERVENTIONS AND CHALLENGES IN THE ELIMINATION OF ONCHOCERCIASIS IN WEST-AFRICA
Natalie Vivian Vinkeles Melchers
Erasmus MC, University Medical Center Rotterdam, Rotterdam, Netherlands

1:10 p.m.
CURRENT STATUS OF ONCHOCERCIASIS TRANSMISSION IN MALI: ACHIEVING ELIMINATION TARGETS
Housseini Dolo
Faculty of Medicine and Odonto Stomatology Lymphatic Filariasis Research Unit - International Center of Excellence in Research, Bamako, Mali

1:25 p.m.
LF HOTSPOTS IN LYMPHATIC FILARIASIS AND ONCHOCERCIASIS CO-ENDEMIC DISTRICTS IN GHANA
Judith Saare
Ghana Health Services, Accra, Ghana

1:40 p.m.
CHALLENGES OF CATCHING UP WITH LF PROGRAMMING IN AREAS CO-ENDEMIC FOR LF AND ONCHOCERCIASIS
Aboulaye Meite
Ministry of health and public hygiene- Neglected tropical diseases programs, Abidjan, Côte D'Ivoire

Symposium 107

Schistosomiasis Morbidity Indicators for Redefining Control and Elimination as a Public Health Problem: Findings of the MORBID Pilot Study

Meeting Room 11
Saturday, November 20
12:45 p.m. - 2:30 p.m. U.S. Eastern Timezone

The pilot study for the Morbidity Operational Research for Bilharziasis Implementation Decisions (MORBID) project aims to better understand the association between schistosomiasis infection (both Schistosoma mansoni and S. haematobium) and resulting disease to help define morbidity control. Since the 1980s, the focus of schistosomiasis preventive chemotherapy (PC) programs has been on control of morbidity related to the disease as defined by intensity of infection. This strategy was based on evidence from cohort studies conducted in Machakos, Kenya that showed an association between intensity of S. mansoni infection and risk of disease. Researchers found a significant association of high egg counts and blood-in-stool, splenomegaly, and hepatomegaly compared to individuals with low or no visible egg counts. Importantly, however, low egg counts or the absence of visible eggs did not equate to an absence of disease, only a reduction in risk of morbidity. Despite this, morbidity control has remained focused on reducing prevalence of heavy intensity infections while de-emphasizing disease in populations with lower egg counts. It is now recognized that schistosomiasis-related morbidity is more far reaching and impactful than previously understood. This knowledge has twice led the World Health Organization (WHO) to adjust treatment targets for PC to open eligibility to larger populations. Regardless, the focus of programs has remained reduction of heavy intensity infections and currently defines elimination as a public health problem (EPHP) as having <1% heavy intensity infections. The WHO 2021-2030 Neglected Tropical Disease (NTD) Roadmap lays out the strategic goals for the next 10 years for NTDs. For schistosomiasis, the 2030 global target of EPHP is still defined by prevalence of heavy intensity infections. What this means in terms of presence or absence of disease is not clear. To further our understanding of the pathophysiology of schistosomiasis, the MORBID study aims to: i) more clearly define the impact of schistosomiasis infection on affected populations, ii) distinguish between normal "background" morbidity and what can be attributed to schistosomiasis, and iii) provide schistosomiasis control programs with an evidence base that allows them to optimally target interventions. This symposium will present the findings of the pilot study for MORBID, conducted to assess the feasibility and utility of a larger scale study. The pilot study assessed both existing data as well as new data collected in Malawi and Kenya utilizing multiple diagnostic and assessment tools. Including what may be the largest study utilizing portable ultrasound to date and a specific sub-study in Malawi focusing on the clinical diagnosis of female genital schistosomiasis.

CHAIR
Charles H. King
Case Western Reserve University, Cleveland, OH, United States
Pauline N. Mwinzi
World Health Organization, Brazzaville, Republic of the Congo

12:45 p.m.
INTRODUCTION

12:55 p.m.
IN MEMORIAM
Fiona M. Fleming
SCI Foundation, London, United Kingdom

1:05 p.m.
ASSOCIATIONS BETWEEN MORBIDITY AND INFECTION IN HISTORICAL MONITORING AND EVALUATION COHORTS
Ryan E. Wiegand
Division of Parasitic Diseases and Malaria, US Centers for Disease Control and Prevention, Atlanta, GA, United States

1:15 p.m.
MORBID KENYA: SOME OBSERVATIONS FROM A PILOT STUDY ON ABDOMINAL ULTRASOUND AND OTHER MORBIDITY MARKERS IN A FIELD INVESTIGATION OF SCHISTOSOMIASIS-RELATED MORBIDITY AT THE COMMUNITY LEVEL IN WESTERN KENYA
Maurice R. Odiere
Kenya Medical Research Institute, Kisumu, Kenya

1:35 p.m.
MORBID MALAWI: RESULTS, INTERPRETATIONS AND NEXT STEPS
Akuzike Zingani Ghambi
CHAD Malawi, Blantyre, Malawi

1:55 p.m.
MORBID SUB-STUDY: FEMALE GENITAL SCHISTOSOMIASIS IN MALAWI- PILOT STUDY IN TWO SCHISTOSOME HAEMATOBIUM ENDEMIC SETTINGS
Amaya Lopez Bustinduy
London School of Hygiene &Tropical Medicine, London, United Kingdom

Break

Saturday, November 20
2:30 p.m. – 3 p.m. U.S. Eastern Time Zone

Symposium 108

Improving Reverse Logistics of the Last Mile Supply Chain for NTD Medicines in Endemic Areas: Lessons Learned and Best Practices

Meeting Room 1
Saturday, November 20
3 p.m. - 4:45 p.m. U.S. Eastern Time Zone

Preventive chemotherapy Neglected Tropical Diseases (NTD) depend on distribution of NTD medicines to populations living in at risk areas. NTD medicines are administered through mass drug administration campaigns at community distribution points at specified time once or multiple times yearly according to the endemicity level as recommended by World Health Organization (WHO). Efficient medicine supply and allocation at the right time are essential to avoid stock out at the thousands of delivery points and to reach the desired coverage while minimizing wastage. Once the distribution is completed, remaining medicines are typically returned to more central warehouses, usually upstream with standard storage conditions. This process is called reverse logistics and enables the NTD program to reconcile and report on available stock, proceed with the disposal of expired or damaged medicines and to store usable surplus for subsequent distribution uniquely important for accountability and transparency with the donated medicines to NTD programs. Reverse logistics planning is as important as distribution planning to allow for safe and adequate storage of remaining drugs. However, reverse logistics constitute a challenge for most of NTD endemic countries. Drug inventory, waste disposal and forecasting are common challenges to NTD program implementation directly impacted by reverse logistics practices or lack thereof. These are mainly due to difficulties in tracking the remaining medicines in the field at peripheral level; medicines inventories are managed without proper stock cards and are not reported back to the national level. In addition, NTDPs usually maintain parallel supply chain systems to deliver drugs for MDAs which do not leverage competencies, processes, and resources within the health logistics management information systems. The symposium will present several approaches to reverse logistics: 1). Challenges related to reverse logistics in 2 countries, Ghana, and Cote d'Ivoire, with 2 models of integration of the NTD drug management and supply chain into the national health systems. 2). A pilot solution to electronically collect post-MDA inventory information in Kenya. 3). A drug donation program's support to medicines monitoring and evaluation to improve inventory reporting to WHO.

CHAIR

Kisito Ogoussan
FHI 360, Washington, DC, United States

Penny Smith
USAID, Washington, DC, United States

3 p.m.
INTRODUCTION

3:10 p.m.
GHANA'S EXPERIENCE IN REVERSE LOGISTICS: BEST PRACTICES RELATED TO NTD MEDICINES AND COMMODITIES MANAGEMENT IN AN INTEGRATED NATIONAL HEALTH SYSTEM
Judith Saare
Ghana Health Service/Neglected Tropical Disease Program, Accra, Ghana

3:35 p.m.
COTE D'IVOIRE'S EXPERIENCE AND CHALLENGES REGARDING REVERSE LOGISTICS
Virginie Traoré-Ettiegne
FHI 360, Abidjan, Côte D'Ivoire

4 p.m.
KENYA'S USE OF THE DISTRICT NTD MEDICINE INVENTORY TRACKING TOOL TO IMPROVE DOWNSTREAM REVERSE LOGISTICS DATA FLOW
Hadley Matendechero Sultani
Ministry of Health, Nairobi, Kenya

4:25 p.m.
FINDINGS OF ANALYSIS IN PZQ TABLET DISTRIBUTION, TRACKING AND REPORTING, IN SUPPORT OF A PHASED PROCESS TO COVER EXISTING GAPS, INCREASE MEDICINE ACCOUNTABILITY AND IMPROVE REPORTING PROCESSES
Johannes Waltz
Merck KGaA, Darmstadt, Germany

Symposium 109

Opportunities and Challenges in Using SARS-CoV-2 Environmental Surveillance for Public Health Decision-Making

Meeting Room 2
Saturday, November 20
3 p.m. - 4:45 p.m. U.S. Eastern Time Zone

Environmental surveillance (ES) of sewage & fecal sludge to monitor the presence of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) has the potential to complement clinical efforts to understand the prevalence of the virus to inform governmental response. However, interpretation of ES data varies & may not be effectively incorporated into public health decision-making. The session will explore some of the barriers & opportunities in low and middle-income countries (LMICs) for the implementation of ES data into actionable outcomes. This symposium will explore three themes: Approaches to conducting ES in LMICs. Dr. Anscombe will explore data collected in Blantyre, Malawi, starting in May 2020. The data highlights how ES can rapidly, effectively, & economically provide key insights into circulating viral pathogens & inform public health measures such as vaccine rollout. She will also discuss the use of sequencing in

environmental samples. Professor Nisar will share how his team leveraged an existing polio environmental sampling network to demonstrate ES for SARS-CoV-2 in Karachi. He will explain how they applied the current blue line tracings to optimize sample collection sites, how they harmonized methods with the polio surveillance network in Pakistan, and how collaboration with Pakistan NIH and the WHO polio program increases the utilization of data and offers the potential for scale-up of ES. Dr. Joshi will present findings from ES in Nepal targeting sewage & receiving rivers & the correlation of environmental data with clinical data from COVID-19 cases in Kathmandu. This presentation will explore how the resulting ES data are shared with public health authorities of the government of Nepal, to support public health decision-making with possible interventions to contain transmission of SARS-Cov-2. Methods of conducting costing & cost-effectiveness: Dr. Mvundura will provide an overview of the methods & anticipated outputs from a costing analysis to be conducted in Nepal. The costs generated from this work will be used as inputs into an evaluation comparing the potential cost-effectiveness of wastewater-based surveillance versus mass clinical testing for early detection of SARS-CoV-2 infection. This presentation will include the analytical framework for the cost-effectiveness analysis, the costing methods and results. Potential use cases & limitations of ES for in LMICs. Dr. Meschke will explore how the current SARS-CoV-2 pandemic has generated a surge in interest in ES, resulting in research being performed concurrently with implementation. This presentation will outline the potential ES use cases that have been defined to further the pandemic response & discuss the potential limitations of the implementation of ES in LMICs.

CHAIR

Vajra Allan
PATH, Seattle, WA, United States

John Scott Meschke
University of Washington, Seattle, WA, United States

3 p.m.
INTRODUCTION

3:10 p.m.
ENVIRONMENTAL SURVEILLANCE OF SARS-COV-2 IN MALAWI
Catherine Anscombe
Malawi-Liverpool Wellcome Trust Center, Blantyre, Malawi

3:25 p.m.
CONDUCTING AND UTILIZING SARS-COV-2 ENVIRONMENTAL SURVEILLANCE IN KATHMANDU
Dev Raj Joshi
Tribhuvan University, Kathmandu, Nepal

3:40 p.m.
LEVERAGING POLIO ENVIRONMENTAL SAMPLING INFRASTRUCTURE IN PAKISTAN TO PERFORM SURVEILLANCE FOR SARS-COV-2
M. Imran Nisar
Aga Khan University, Karachi, Pakistan

3:55 p.m.
ESTIMATING THE INCREMENTAL COSTS OF ADDING SARS-COV-2 SURVEILLANCE INTO AN EXISTING WASTEWATER-BASED ENVIRONMENTAL SURVEILLANCE PROGRAM: EVIDENCE FROM NEPAL.
Mercy Mvundura
PATH, Seattle, WA, United States

4:10 p.m.
POTENTIAL USE CASES AND LIMITATIONS OF ESFOR SARS-COV-2 IN LMICS
John Scott Meschke
University of Washington, Seattle, WA, United States

Scientific Session 110

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Parasite Immunology - Cellular Immunology

Meeting Room 3
Saturday, November 20
3 p.m. - 4:45 p.m. U.S. Eastern Time Zone

SUPPORTED WITH FUNDING FROM THE BURROUGHS WELLCOME FUND

CHAIR

Alexandra Ehrens
IMMIP, University Hospital Bonn, Bonn, Germany

Thomas Nutman
National Institutes of Health, Bethesda, MD, United States

3 p.m. **1405**

THE IMPACT OF ANTIGEN DOSE ON THE GENERATION, FUNCTION AND LONGEVITY OF LEISHMANIA-SPECIFIC CD4+ MEMORY T CELLS
Zhirong Mou[1], Jude E. Uzonna[2]
[1]College of Medicine, University of Manitoba, Winnipeg, MB, United States, [2]College of Medicine, University of Manitoba, Winnipeg, MB, Canada

3:10 p.m. **1406**

PD-1 LIMITS TREG IMMUNE SUPPRESSION DURING ACUTE TOXOPLASMOSIS
Joseph Perry[1], J.t. Clark[2], J. Gullicksrud[2], J. DeLong[2], L. Shallberg[2], B. Douglas[2], A. Hart[1], C. Konradt[2], J. Park[2], A. Glatman-Zaretzky[2], R. de Waal Malefyt[3], D.a. Christian[2], A.h. Sharpe[4], C.a. Hunter[2]
[1]Department of Medicine, University of Pennsylvania, Philadelphia, PA, United States, [2]Department of Pathobiology, University of Pennsylvania, Philadelphia, PA, United States, [3]Merck & Co, Kenilworth, NJ, United States, [4]Department of Immunology, Harvard Medical School, Boston, MA, United States

3:20 p.m. **1407**

GUT MICROBIOTA COMPOSITION MODULATES THE SPLENIC GERMINAL CENTERS DURING PLASMODIUM INFECTIONS THROUGH IMMUNE DISTRACTION
Rafael Polidoro, Morgan L. Waide, Nathan W. Schmidt
Indiana University School of Medicine, Indianapolis, IN, United States

3:30 p.m.

1310

MICROFILARIAE-INDUCED EOSINOPHIL EXTRACELLULAR DNA TRAPS ARE INDUCED VIA THE DECTIN-1 RECEPTOR, NADPH OXIDASE AND THE INFLAMMASOME

Alexandra Ehrens[1], Benjamin Lenz[1], Anna-Lena Neumann[1], Wiebke Strutz[1], Coralie Martin[2], Daniel Kulke[3], Achim Hoerauf[1], Marc P. Hübner[1]
[1]University Hospital Bonn, Bonn, Germany, [2]Muséum National d'Histoire Naturelle, Paris, France, [3]Iowa State University College of Veterinary Medicine, Ames, IA, United States

(ACMCIP Abstract)

3:40 p.m.

1311

ADOPTIVE TRANSFER OF IMMUNE CELLS INTO RAGIL-2RG-DEFICIENT MICE: A NOVEL APPROACH TO INVESTIGATE IMMUNITY AGAINST HUMAN AND RODENT FILARIAE

Anna Filz[1], Laura Layland[1], Kathrin Arndts[1], Lisa Wadephul[1], Ruth Tamadaho[1], Dennis Borrero-Wolff[1], Valerine Chunda[2], Achim Hoerauf[1], Samuel Wanji[2], Manuel Ritter[1]
[1]Institute for Medical Microbiology, Immunology and Parasitology (IMMIP), University Hospital Bonn (UKB), Bonn, Germany, [2]Parasite and Vector Biology Research Unit, Department of Microbiology and Parasitology, Faculty of Science, University of Buea, Buea, Cameroon

(ACMCIP Abstract)

3:50 p.m.

1312

RNASEQ-BASED ANALYSES OF THE EFFECT OF *BRUGIA MALAYI* MICROFILARIAL-DERIVED EXTRACELLULAR VESICLES ON HUMAN MONOCYTES AND DENDRITIC CELLS

Alessandra Ricciardi, Gayatri Sanku, Neelam Redekar, Justin Lack, Thomas Nutman
National Institute of Health, Bethesda, MD, United States

(ACMCIP Abstract)

4 p.m.

1313

IL-11 REGULATES INNATE MUCOSAL IMMUNITY IN ACUTE HELMINTH INFECTION

Jonah Kupritz[1], Kimberly Zaldana[1], Erik Karmele[2], Fabricio Oliveira[3], Olena Kamenyeva[4], Thomas B. Nutman[1], Pedro H. Gazzinelli-Guimaraes[1]
[1]Laboratory of Parasitic Diseases, NIAID, National Institutes of Health, Bethesda, Maryland, MD, United States, [2]Laboratory of Molecular Immunology, NIAID, National Institutes of Health, Bethesda, Maryland, MD, United States, [3]Laboratory of Immunology and Genomics of Parasites, Department of Parasitology, ICB, UFMG, Belo Horizonte, Brazil, [4]Biological Imaging Section, Research Technology Branch, NIAID, National Institutes of Health, Bethesda, Maryland, MD, United States

(ACMCIP Abstract)

Symposium 111

Earth Observations for Infectious Disease Early Warnings: What Can We Learn From Climate and Disaster Communities?

Meeting Room 4
Saturday, November 20
3 p.m. - 4:45 p.m. U.S. Eastern Time Zone

Despite advances in treatment, diagnostics, and infectious disease modeling, the burden of vector borne diseases (VBDs) continues to increase across the Americas. Extreme hydro-meteorological events, climate variability/change and rapid land use/land cover change, driven in large part by human actions, are influencing the emergence and re-emergence of VBDs, such as dengue fever and malaria, by altering the behavior of hosts, pathogens and vectors. Earth observations from space, coupled with state of the art monitoring and forecast systems, can be used to predict when, where and who may be at greatest risk of disease outbreaks. These tools, known broadly as climate services for the health sector, can be used by public health practitioners to target early interventions in the most vulnerable communities. The health sector is increasingly recognizing the potential to partner with experts from non-health disciplines, such as climate science, earth science, and disaster risk reduction (DRR), to develop early warning systems (EWS) for VBDs. Transdisciplinary teams of professionals are collaborating to co-create tools and services tailored for the needs of the health sector. Political will is needed to sustain these partnerships, particularly from the health sector. Despite ample evidence of the effects of climate on health, the operationalization of EWSs for VBDs remains nascent. Key barriers include lack of a political mandate in the health sector to address the effects of climate on health and lack of resources including trained personnel to operationalize an EWS. However, the health sector can learn from the successes of the DRR sector, which brings important expertise in the operationalization of EWSs for disasters. This symposium will bring together experts in policy, research, DRR and climate service delivery to discuss the use of earth observations for health, with a focus on EWS for VBDs. Presenters will convey the implications of the Sendai Framework for Disaster Risk Reduction for the health sector, and will share their experiences developing a multi sectoral approach to climate services for health. Speakers will discuss examples from across the Latin America and Caribbean region including small island developing states, the Amazon region of Peru, urban Ecuador, Brazil, and the conterminous United States and transboundary regions. Experts will showcase results of multi-institutional and transdisciplinary collaborations from city to regional scales, linking best practices and methods from the DRR sector and climate services to inform public health response strategies. This session will be of interest to public health practitioners interested in developing tools to predict and respond to climate-sensitive health outcomes.

CHAIR

Anna M. Stewart Ibarra
Inter-American Institute for Global Change Research, Montevideo, Uruguay

Rachel Lowe
London School of Hygiene & Tropical Medicine, London, United Kingdom

3 p.m.
INTRODUCTION

3:10 p.m.
COUPLING DISASTER RISK REDUCTION WITH MANAGEMENT OF EMERGING INFECTIOUS DISEASE EPIDEMICS

Mercy J. Borbor
Escuela Superior Politécnica del Litoral, Guayaquil, Ecuador

3:25 p.m.

NEXT-GENERATION MONITORING AND FORECASTING SYSTEM FOR ENVIRONMENTAL SUITABILITY OF AEDES-BORNE DISEASE TRANSMISSION

Angel G. Muñoz
Columbia University, New York, NY, United States

3:40 p.m.

INTERSECTORAL PARTNERSHIPS TO ADDRESS HYDROMETEOROLOGICAL HAZARDS AND HEALTH OUTCOMES IN THE CARIBBEAN REGION

Roche Mahon
Caribbean Institute for Meteorology and Hydrology, Bridgetown, Barbados

3:55 p.m.

EARLY WARNING SYSTEM FOR MALARIA IN THE AMAZON REGION

William Pan
Duke University, Durham, NC, United States

4:10 p.m.

COMBINED EFFECTS OF HYDROMETEOROLOGICAL HAZARDS AND URBANISATION ON DENGUE RISK IN BRAZIL

Rachel Lowe
London School of Hygiene & Tropical Medicine, London, United Kingdom

Scientific Session 112

Dengue - Transmission and Virus-Host Interactions

Meeting Room 5
Saturday, November 20
3 p.m. - 4:45 p.m. U.S. Eastern Time Zone

CHAIR

Lewis E. Tomalin
Icahn School of Medicine at Mount Sinai, New York, NY, United States

Leah Katzelnick
NIH/NIAID, Bethesda, MD, United States

3 p.m. 1314

COMPARING IMMUNE RESPONSES TO PRIMARY INFECTION WITH DENGUE, CHIKUNGUNYA AND ZIKA VIRUSES

Lewis E. Tomalin[1], Sandra Bos[2], Adeeb H. Rahman[1], Yitong Chen[1], Daniela Michlmayr[2], Magelda Montoya[3], Guillermina Kuan[4], Angel Balmaseda[5], Eva Harris[2], Mayte Suarez-Farinas[1]
[1]Icahn School of Medicine at Mount Sinai, New York, NY, United States, [2]University of California Berkeley, Berkeley, CA, United States, [3]Sustainable Sciences Institute, Managua, Nicaragua, [4]Sustainable Sciences Institute, Centro de Salud Socrates Flores Vivas, Ministry of Health, Managua, Nicaragua, [5]Sustainable Sciences Institute, Laboratorio Nacional de Virologia, Centro Nacional de Diagnostico y Referencia, Ministry of Health,, Managua, Nicaragua

3:10 p.m. 1315

PEPTIDE-BASED SEROLOGIC PLATFORMS CAPABLE TO DIFFERENTIALLY IDENTIFY DENGUE AND ZIKA INFECTIONS IN AN ENDEMIC REGION

Alice Freitas Versiani[1], Irene Bosch[2], Leonardo A. Trigo[1], Matheus H. Avila[1], Andreia F. Reis[1], Andresa L. Santos[1], Fernanda S. Dourado[1], Beatriz C. Marques[1], Nathalia Zini[1], Cassia F. Estofolete[1], Flavio G. Da Fonseca[3], Lee Gehrke[2], Nikos Vasilakis[4], Mauricio L. Nogueira[1]
[1]School of Medicine of Sao Jose do Rio Preto, Sao Jose do Rio Preto, Brazil, [2]Massachusetts Institute of Technology, Cambridge, MA, United States, [3]Federal University of Minas Gerais, Belo Horizonte, Brazil, [4]University of Texas Medical Branch, Galveston, TX, United States

3:20 p.m. 1316

CHIMERIC DENGUE VIRUS REAGENTS REVEAL IMPORTANT STRUCTURAL TARGETS OF DENV3 HOMOTYPIC IMMUNITY

Jennifer E. Munt[1], Cameron Adams[1], Ellen Young[1], Yixuan J. Hou[1], Nurgun Kose[2], Robert Carnahan[2], Boyd Yount[1], Deanna Zhu[1], Michael J. Ricciardi[3], Diogo M. Magnani[4], Long Ping V. Tse[1], Stephanie Dong[1], David I. Watkins[5], James E. Crowe Jr.[1], Aravinda DeSilva[1], Ralph S. Baric[1]
[1]University of North Carolina, Chapel Hill, NC, United States, [2]Vanderbilt University Medical Center, Nashville, TN, United States, [3]George Washington University, Washington, DC, United States, [4]University of Massachusetts Medical School, Worcester, MA, United States, [5]George Washington University, Washington D.C., DC, United States

3:30 p.m. 1317

ANTIGENIC EVOLUTION OF DENGUE VIRUSES OVER MULTIPLE DECADES

Leah Katzelnick[1], Ana Coello Escoto[1], Angkana Huang[2], Bernardo Garcia-Carreras[3], Nayeem Chowdhury[3], Irina Maljkovic Berry[4], Chris Chavez[5], Philippe Buchy[6], Veasna Duong[7], Philippe Dussart[7], Gregory Gromowski[4], Louis Macareo[2], Butsaya Thaisomboonsuk[2], Stefan Fernandez[2], Derek Smith[8], Richard Jarman[4], Stephen Whitehead[1], Henrik Salje[8], Derek Cummings[3]
[1]National Institutes of Health, Bethesda, MD, United States, [2]Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, [3]University of Florida, Gainesville, FL, United States, [4]Walter Reed Army Institute of Research, Silver Spring, MD, United States, [5]University of Florida, Florida, FL, United States, [6]GlaxoSmithKline (GSK) Vaccines, Singapore, Singapore, [7]Institut Pasteur in Cambodia, Phnom Penh, Cambodia, [8]University of Cambridge, Cambridge, United Kingdom

3:40 p.m. 1318

ANTIBODY FUCOSYLATION PREDICTS DISEASE SEVERITY IN SECONDARY DENGUE INFECTION

Stylianos Bournazos[1], Hoa Thi My Vo[2], Duong Veasna[2], Heidi Auerswald[2], Sowath Ly[2], Anavaj Sakuntabhai[3], Philippe Dussart[2], Jeffrey Ravetch[1], **Tineke Cantaert**[2]
[1]The Rockefeller University, New York, NY, United States, [2]Institut Pasteur du Cambodge, Phnom Penh, Cambodia, [3]Institut Pasteur, Paris, France

3:50 p.m. 1319

DISRUPTION OF SPATIOTEMPORAL DEPENDENCE IN DENGUE TRANSMISSION BY WMEL WOLBACHIA IN YOGYAKARTA, INDONESIA

Suzanne M. Dufault[1], Citra Indriani[2], Stephanie K. Tanamas[3], Riris Andono Ahmad[2], Adi Utarini[2], Nicholas P. Jewell[1], Cameron P. Simmons[3], Katherine L. Anders[3]
[1]Division of Biostatistics, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, [2]World Mosquito Program Yogyakarta, Centre for Tropical Medicine, Faculty of Medicine, Public Health and Nursing, Universitas Gadjah Mada, Yogyakarta, Indonesia, [3]World Mosquito Program, Institute of Vector-borne Disease, Monash University, Clayton, Australia

4 p.m. 1320

LAND USE, INFRASTRUCTURE, AND THE HETEROGENEOUS BURDEN OF DENGUE VIRUS INFECTION WITHIN A HIGHLY-ENDEMIC COMMUNITY

Kathryn B. Anderson[1], Darunee Buddhari[2], Sopon Iamsirithaworn[3], Henrik Salje[4], Derek A. Cummings[5], Anon Srikiatkhachorn[6], Taweewun Hunsawong[2], Direk Khampaen[7], Rotjana Khontong[8], Stefan Fernandez[2], Stephen J. Thomas[1], Alan L. Rothman[6], Timothy P. Endy[1]

[1]SUNY Upstate Medical University, Syracuse, NY, United States, [2]Armed Forces Research Institute for Medical Sciences, Bangkok, Thailand, [3]Department of Disease Control, Thai Ministry of Public Health, Bangkok, Thailand, [4]University of Cambridge, Cambridge, United Kingdom, [5]University of Florida, Gainesville, FL, United States, [6]University of Rhode Island, Providence, RI, United States, [7]Office of Disease Prevention and Control 3, Nakhonsawan, Thailand, [8]Kamphaeng Phet Provincial Hospital, Kamphaeng Phet, Thailand

Symposium 113

Genetic Approaches to Elucidating *Plasmodium falciparum* Antimalarial Modes of Action, Drug Resistance and Fitness

Meeting Room 6
Saturday, November 20
3 p.m. - 4:45 p.m. U.S. Eastern Time Zone

This symposium proposal is focused on the development of new genetic and genomic approaches to studying *Plasmodium falciparum* biology and antimalarial action and drug resistance. It will begin with a presentation by Sachel Mok who has led a large effort to leverage *P. falciparum* genetic crosses in humanized mice to study mechanisms of parasite resistance to antimalarial therapeutics. Her presentation will present her latest data on phenotypic, genetic and genomic analyses that have mapped determinants of parasite resistance to multiple antimalarials including artemisinin, piperaquine, quinine and chloroquine using contemporary drug-resistant clinical isolates from Southeast Asia. The second talk by Ashley Vaughan also leverages the generation of multiple *P. falciparum* genetic crosses to examine determinants of parasite fitness and development throughout the parasite life cycle. His team's work also applies bulk segregant analysis to identify genetic determinants of antimalarial resistance and to guide efficient progeny-focused validations to dissect complex genetic architectures. The third presentation by Marcus Lee will focus on the use of barcoding technology to define parasite resistance to experimental antimalarials that are being explored for future drug discovery research. The fourth presentation by Charisse Flerida Pasaje will detail her research at MIT with Jacquin Niles, which has used conditional knockdown approaches to drive target-directed antimalarial drug discovery as well as define targets of antiplasmodial compounds under investigation by the Bill & Melinda Gates Foundation-funded Malaria Drug Accelerator (MalDA) consortium.

CHAIR

David A. Fidock
Columbia University Irving Medical Center, New York, NY, United States

Mike T. Ferdig
University of Notre Dame, Notre Dame, IN, United States

3 p.m.
INTRODUCTION

3:10 p.m.
MAPPING ANTIMALARIAL DRUG RESISTANCE DETERMINANTS USING *P. FALCIPARUM* GENETIC CROSSES IN HUMANIZED MICE

Sachel Mok
Columbia University Irving Medical Center, New York, NY, United States

3:35 p.m.
LEVERAGING *P. FALCIPARUM* GENETIC CROSSES TO UNDERSTAND FITNESS AND LIFE CYCLE PROGRESSION

Ashley Vaughan
Seattle Children's Research Institute, Seattle, WA, United States

4 p.m.
BARCODING APPROACHES TO DEFINING ANTIMALARIAL ACTION AND PARASITE RESISTANCE

Marcus C. Lee
Wellcome Sanger Institute, Hinxton, United Kingdom

4:25 p.m.
CONDITIONAL KNOCKDOWN APPROACHES TO DISSECTING THE ANTIMALARIAL EARLY DISCOVERY PIPELINE

Charisse Flerida Pasaje
Massachusetts Institute of Technology, Cambridge, MA, United States

Scientific Session 114

Bacteriology: Trachoma, Systemic Infections and Other Bacterial Infections

Meeting Room 7
Saturday, November 20
3 p.m. - 4:45 p.m. U.S. Eastern Time Zone

CHAIR

Christine Tedijanto
F.I. Proctor Foundation, University of California, San Francisco, San Francisco, CA, United States

Jessica Fairley
Emory University, Atlanta, GA, United States

3 p.m. 1321

WAIT AND WATCH: A POTENTIAL TRACHOMA SURVEILLANCE STRATEGY FROM AMHARA, ETHIOPIA

Eshetu Sata[1], Zebene Ayele[1], Andrew W. Nute[2], Demelash Gessese[1], Mulat Zerihun[1], Ambahun Chernet[1], Berhanu Melak[1], Kimberly A. Jensen[2], Mahteme Haile[3], Taye Zeru[3], Melkamu Beyen[4], Adisu Abebe Dawed[4], Hiwot Debebe[4], Fikre Seife[5], Zerihun Tadesse[1], E. Kelly Callahan[2], **Scott D. Nash**[2]

[1]The Carter Center, Addis Ababa, Ethiopia, [2]The Carter Center, Atlanta, GA, United States, [3]Amhara Public Health Institute, Research and Technology Transfer Directorate, Bahir Dar, Ethiopia, [4]Amhara Regional Health Bureau, Health Promotion and Disease Prevention, Bahir Dar, Ethiopia, [5]Federal Ministry of Health, Disease Prevention and Control Directorate, Addis Ababa, Ethiopia

3:10 p.m. 1322

STATE AND LOCAL GOVERNMENT AREA ESTIMATES FOR TRACHOMA SEROPREVALENCE IN 1 TO 9-YEAR-OLDS IN NIGERIA USING MULTIPLEX BEAD ASSAY

Nishanth Parameswaran[1], Ndidi Agala[2], Andrew N. Thomas[2], Chimaoge Achugbu[3], Ado G. Abubakar[2], Stacie M. Greby[4], Nnaemeka C. Iriemenam[4], Gretchen M. Cooley[5], Sarah E. Gwyn[5], Ryan E. Wiegand[5], Sarah A. Guagliardo[5], Diana L. Martin[5]
[1]CDC Foundation, Atlanta, GA, United States, [2]IHVN, Abuja, Nigeria, [3]Nigeria Centre for Disease Control, Abuja, Nigeria, [4]Centers for Disease Control and Prevention, Abuja, Nigeria, [5]Centers for Disease Control and Prevention, Atlanta, GA, United States

3:20 p.m. 1323

PREDICTING FUTURE COMMUNITY-LEVEL OCULAR CHLAMYDIA TRACHOMATIS INFECTION PREVALENCE USING SEROLOGICAL, CLINICAL, MOLECULAR AND GEOSPATIAL DATA

Christine Tedijanto[1], Solomon Aragie[2], Zerihun Tadesse[2], Mahteme Haile[3], Taye Zeru[3], Scott D. Nash[4], Dionna M. Wittberg[1], Hugh J. Sturrock[5], Thomas M. Lietman[1], Jeremy D. Keenan[1], Benjamin F. Arnold[1]
[1]Francis I. Proctor Foundation, University of California San Francisco, San Francisco, CA, United States, [2]The Carter Center Ethiopia, Addis Ababa, Ethiopia, [3]Amhara Public Health Institute, Bahir Dar, Ethiopia, [4]The Carter Center, Atlanta, GA, United States, [5]Locational, Poole, United Kingdom

3:30 p.m. 1324

NEONATAL INFECTION ASSOCIATED WITH CHILD DEATHS FROM SUB SAHARAN AFRICA AND SOUTH ASIA: INITIAL FINDINGS FROM CHILD HEALTH AND MORTALITY PREVENTION SURVEILLANCE

Muntasir Alam[1], Kyu Han Lee[2], Sana Mahtab[3], Blau Dianna M.[4], Mischka Garel[5], Afruna Rahman[1], Vicky L. Baillie[3], Bukiwe Nana Thwala[3], Portia Mutevedzi[3], Florence V. Murila[6], Magdalene Kuria[7], Beth A. Tippet Barr[8], Dickens Onyango[7], Victor Akelo[8], Inacio Mandomando[9], Quique Bassat[10], Sara Ajanovic[10], Rosauro Varo[10], Antonio Sitoe[9], Nega Assefa[11], J. Anthony G. Scott[12], Lola Madrid[11], Dadi Marami[11], Surafel Fentaw[13], Ikechukwu Ogbuanu[14], Carrie Jo Cain[15], Julius Ojulong[16], Dickens Kowuor[14], Samba Sow[17], Adama Mamby Keita[17], Milagritos Tapia[18], Ashka Mehta[18], Karen Kotloff[18], Emily Gurley[19], Shams El Arifeen[1], Robert F. Breiman[5], Cynthia G. Whitney[5], Shabir Madhi[3]
[1]icddr,b, Dhaka, Bangladesh, [2]Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [3]MRC Vaccines and Infectious Diseases Analytics (VIDA) Research Unit, Johannesburg, South Africa, [4]Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States, [5]Emory Global Health Institute, Emory University, Atlanta, GA, United States, [6]University of Nairobi, Nairobi, Kenya, Nairobi, Kenya, [7]Kisumu County Department of Health, Kisumu, Kenya, [8]US Centers for Disease Control and Prevention-Kenya, Kisumu, Kenya, [9]Centro de Investigação em Saúde de Manhiça [CISM], Maputo, Mozambique, [10]ISGlobal - Hospital Clínic, Unversitat de Barcelona, Barcelona, Spain, [11]College of Health and Medical Sciences, Haramaya University, Harar, Ethiopia, [12]Department of Infectious Disease Epidemiology, London School of Hygiene & Tropical Medicine, London, United Kingdom, [13]Ethiopian Public Health Institute, Addis Ababa, Ethiopia, [14]Crown Agents, Freetown, Sierra Leone, [15]World Hope International, Makeni, Sierra Leone, [16]ICAP – Columbia University, Makeni, Sierra Leone, [17]Centre pour le Développement des Vaccins (CVD-Mali), Ministère de la Santé, Bamako, Mali, [18]Center for Vaccine Development and Global Health, University of Maryland School of Medicine, Baltimore, MD, United States, [19]Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health], Baltimore, MD, United States

3:40 p.m. 1325

INITIAL VALIDATION OF A NOVEL RECOMBINASE POLYMERASE AMPLIFICATION-LATERAL FLOW ASSAY FOR DIAGNOSIS OF HUMAN BRUCELLOSIS

Clark H. Cunningham[1], Osahon Iyamu[2], Elise King[2], Ross M. Boyce[1], Jonathan J. Juliano[1], Emily J. Ciccone[1]
[1]University of North Carolina School of Medicine, Chapel Hill, NC, United States, [2]University of North Carolina, Chapel Hill, NC, United States

3:50 p.m. 1326

HIGH RESOLUTION METABOLOMICS HIGHLIGHTS DIFFERENCES IN LIPID AND NUTRITIONAL METABOLISM ACROSS THE LEPROSY SPECTRUM PROVIDING AVENUES FOR ADVANCES IN LEPROSY HOST-PATHOGEN RESEARCH

Jessica K. Fairley[1], José A. Ferreira[2], Thomas R. Ziegler[1], Dean P. Jones[1], Lucia A. Fraga[3], ViLinh T. Ly[1], Sandra Lyon[2], Jeffrey M. Collins[1]
[1]Emory University School of Medicine, Atlanta, GA, United States, [2]Faculdade da Saúde e Ecologia Humana, Vespasiano, Brazil, [3]Universidade Federal de Juiz de Fora-Campus GV, Governador Valadares, Brazil

4 p.m. 1327

METAPROTEOMIC ANALYSIS OF HUMAN BRONCHOALVEOLAR LAVAGE FLUID REVEALS MICROBIOMES ASSOCIATED WITH SUSCEPTIBILITY AND PROTECTION AGAINST TB INFECTION

Javan Ochieng Okendo, Clemens Hermann, Nicola Mulder, Jonathan Blackburn
University of Cape Town, Cape Town, South Africa

(ACMCIP Abstract)

ASTMH Annual Business Meeting 115

Meeting Room 8
Saturday, November 20
3 p.m. - 4 p.m. U.S. Eastern Time Zone

Open to all attendees! Come learn about the work ASTMH is doing on your behalf.

Kent Kester
International AIDS Vaccine Initiative, New York, NY, United States

Karen Goraleski
ASTMH, Arlington, VA, United States

Scientific Session 116

Mosquitoes - Biochemistry and Molecular Biology

Meeting Room 9
Saturday, November 20
3 p.m. - 4:45 p.m. U.S. Eastern Time Zone

CHAIR

Hyeogsun Kwon
Iowa State University, Ames, IA, United States

Yuemei Dong
Johns Hopkins University, Baltimore, MD, United States

3 p.m.

1328

PROSTAGLANDIN E2 SIGNALING REGULATES OENOCYTOID IMMUNE FUNCTION THAT IS ESSENTIAL FOR ESTABLISHING *ANOPHELES GAMBIAE* INNATE IMMUNITY

Hyeogsun Kwon, David R. Hall, Ryan C. Smith
Iowa State University, Ames, IA, United States

3:10 p.m.

1329

INVESTIGATING THE ENERGETIC COSTS OF INSECTICIDE-RESISTANCE IN CALIFORNIA *AEDES AEGYPTI*

Erin Taylor Kelly, Geoffrey M. Attardo
UC Davis, Davis, CA, United States

3:20 p.m.

1330

CHARACTERIZATION OF ANOPHELES CHAPERONIN COMPLEX PREFOLDIN, A POTENTIAL BROAD-SPECTRUM *PLASMODIUM* BLOCKING TARGET IN ANOPHELINE MOSQUITOES

Yuemei Dong, Seokyoung Kang, Simone Sandiford, Purnima Ravisankar, Shengzhang Dong Dong, Andrew Pike, George Dimopoulos
Johns Hopkins School of Public Health, Malaria Research Institute, Baltimore, MD, United States

3:30 p.m.

1331

THE ROLE OF MOSQUITO SALIVA IN THE ACTIVATION OF FIBRINOLYSIS

Zarna Rajeshkumar Pala, Thiago L. Alves E Silva, Paola Carolina Valenzuela Leon, Ines Martin-Martin, Eric Calvo, Joel Vega-Rodriguez
National Institutes of Health, Rockville, MD, United States

3:40 p.m.

1332

MOSQUITO LIPOGENIC AND LIPOLYTIC PATHWAYS ARE CRITICAL METABOLIC CHECKPOINTS FOR ANOPHELES REPRODUCTION AND *PLASMODIUM* TRANSMISSION

Maurice A. Itoe[1], Kristine Werling[2], Robert W. Shaw[1], Amy Deik[3], Clary Clish[3], Flaminia Catteruccia[1]
[1]Harvard T.H. Chan School of Public Health, Boston, MA, United States, [2]Pennsylvania State University, State College, PA, United States, [3]Broad Institute of Harvard and MIT, Cambridge, MA, United States

3:50 p.m.

1333

CTL4 CONTROLS TEP1-INDEPENDENT MELANIZATION OF HUMAN MALARIA PARASITES

Maria L Simoes, Yuemei Dong, Godfree Mlambo, George Dimopoulos
Johns Hopkins University, Baltimore, MD, United States

4 p.m.

1334

A LABRUM-INTERACTING PROTEIN CONTROLS PROBING IN AEDES MOSQUITOES

Irene Arnoldi[1], Giulia Mancini[2], Marco Fumagalli[2], Luigi Scietti[2], Federico Forneris[2], **Paolo Gabrieli**[3]
[1]IUSS, Pavia, Italy, [2]University of Pavia, Pavia, Italy, [3]University of Milan, Milan, Italy

Symposium 117

Lassa Fever as a Seasonal Endemic Disease in West Africa: Update on Epidemiology and Vaccine Development

Meeting Room 10
Saturday, November 20
3 p.m. - 4:45 p.m. U.S. Eastern Time Zone

Lassa fever (LF) is a zoonotic disease caused by the Lassa virus (LASV), a rodent-borne arenavirus. Surveillance data over the past years underline the relevance of LF has an endemic seasonal disease in West African countries. Preventive vaccines that are safe and effective against LF also in special / sub-populations at risk (including children and pregnant women) are urgently needed. Accurate data on the LF incidence, transmission, population seropositivity and spectrum of disease severity including human case fatality rate are necessary for planning advanced stage vaccine development including controlled vaccine efficacy trials as well as future public health measures. This symposium will provide an update on LF surveillance data in Nigeria and will inform about CEPI's prospective LF epidemiology program conducted in Benin, Guinea, Liberia, Nigeria and Sierra Leone. Furthermore, the progress made with vaccine development will be reviewed. Aspects related to the role of vaccines as preventive and reactive interventions will then be discussed in the panel.

CHAIR

Jakob P. Cramer
CEPI, London, United Kingdom

John Nkengasong
Africa Centres for Disease Control and Prevention, Addis Ababa, Ethiopia

3 p.m
INTRODUCTION

3:10 p.m.
LASSA FEVER SURVEILLANCE IN NIGERIA

Adebola Olayinka
Nigeria CDC, Abuja, Nigeria

3:25 p.m.
ENABLE LASSA RESEARCH PROGRAMME: PROGRESS MADE IN YR1 OF A PROSPECTIVE MULTI-COUNTRY COHORT STUDY

Mandi Henshaw
CEPI, Olso, Norway

3:40 p.m.
ADVANCEMENT OF A LASSA FEVER VACCINE CANDIDATE BASED ON THE LIVE VESICULAR STOMATITIS VIRUS CHIMERA PLATFORM

Swati Gupta
IAVI, New York City, NY, United States

3:55 p.m.
A MEASLES VECTOR BASED VACCINE TO PREVENT LASSA FEVER
Katrin Ramsauer
Themis Bioscience GmbH, a subsidiary of Merck & Co., Inc., Kenilworth, New Jersey USA, Vienna, Austria

4:10 p.m.
SAFETY PROFILE AND IMMUNE RESPONSES OF DNA VACCINE INO-4500 IN PHASE 1 STUDIES OF HEALTHY VOLUNTEERS IN THE UNITED STATES AND GHANA
Kathleen Walker
Inovio Pharmaceuticals, Plymouth Meeting, PA, United States

Symposium 118

Implementing Neglected Tropical Disease Mass Drug Administration and Disease-Specific Assessments Under the COVID-19 Pandemic

Meeting Room 11
Saturday, November 20
3 p.m. - 4:45 p.m. U.S. Eastern Time Zone

The COVID-19 pandemic has affected countries across the globe with serious impact to human life, the economy, and the resilience of health systems. Countries have taken dramatic measures to prevent transmission and protect lives, such as national/regional lockdown, travel bans, social distancing and limited mass gathering. National neglected tropical disease (NTD) programs implement community-based activities to eliminate/control NTDs such as mass drug administration (MDA) and disease-specific assessments (DSA). These activities have the risk of spreading SARS-CoV-2 if appropriate measures are not taken, and therefore, following the recommendations from the World Health Organization (WHO) in April 2020 were suspended and postponed by national programs until further notice. With updated interim guidance from WHO on July 27, 2020, countries' NTD programs and partners started the process to develop tools in order to resume paused activities. Missing a MDA round could impact the timing for reaching elimination goals by a year or more depending on the baseline prevalence and missing DSAs could delay critical program decisions on treatment. Delays also meant risk of expiration of drugs and diagnostic tools like filariasis test strips (FTS). However, implementing NTD activities during a global pandemic potentially faced low acceptance from communities. The traditional strategies to implement MDA and DSA were not possible without mitigation measures. Prompt and synergic actions were essential to achieve the resumption of NTD activities between National NTD Programs (NNTDP) and partners. Partners have supported NNTDP to develop tools like the risk assessment and mitigation action (RAMA) for making a decision of "go or no go" for supported districts and supervisor checklist for supervising the activities. Countries also developed mitigation plans or standard operation procedure (SOP) to guide the implementation of activities. This symposium brings together key speakers from four countries to share their experience on mitigating COVID-19 risk during implementation of MDA and DSAs. The best practices and lessons learned will be helpful for the NTD world as the COVID-19 pandemic is still ongoing.

CHAIR
Angela M. Weaver
Helen Keller International, New York, NY, United States
Philip W. Downs
Sightsavers, Durham, NC, United States

3 p.m.
INTRODUCTION

3:10 p.m.
USING DIGITAL TOOLS TO STRENGTHEN SUPERVISION AND MONITOR COVID-19 MITIGATION STRATEGIES DURING SCHOOL AND COMMUNITY BASED MASS DRUG ADMINISTRATION CAMPAIGNS: EXPERIENCE FROM NIGERIA
Christian O. Nwosu
Sightsavers, Kaduna, Nigeria

3:30 p.m.
CHALLENGES, LESSONS LEARNED AND RESULT OF IMPLEMENTING NEGLECTED TROPICAL DISEASE MASS DRUG ADMINISTRATION DURING COVID-19 PANDEMIC IN GUINEA CONAKRY, 2020
Fatoumata Sakho
National Neglected Tropical Diseases Program/ Ministry of Health, Conakry, Guinea

3:50 p.m.
IMPLEMENTATION OF ONCHOCERCIASIS ASSESSMENT SURVEYS IN TOGO DURING THE COVID-19 PANDEMIC. LESSONS LEARNED
Pelagie M. Boko-Collins
Sightsavers, Cotonou, Benin

4:10 p.m.
OVERCOME CHALLENGES TO IMPLEMENTATION OF LYMPHATIC FILARIASIS TRANSMISSION ASSESSMENT SURVEY (TAS2) DURING COVID-19 PANDEMIC
Blandine Clarisse Ebene
National Program for OV-LF Control \ Ministry of Public Health, Yaounde, Cameroon

Special Session

Clinical Group Speed Networking Session

Saturday, November 20
5:15 p.m. – 7 p.m. U.S. Eastern Time Zone

CHAIR
Hannah Steinberg
University of Illinois, Chicago, Chicago, IL, United States

Sunday, November 21

ASTMH Information Desk

Lobby
Sunday, November 21
7 a.m. - Noon U.S. Eastern Time Zone

Exhibit Hall

Visit the Exhibit Hall to view the schedule for each exhibit booth and connect with our exhibitors and learn about their products and services.

Press Room

The ASTMH media team is available for assistance at the following:

- Bridget DeSimone, **bdesimone@burness.com**
  tel: +1 202-468-0766
- Preeti Singh **psingh@burness.com**
  tel: +1 703-862-2515
- Anna Chen, **achen@burness.com**
  tel: +1 215-262-7670

Review research highlights and more:
https://astmhpressroom.wordpress.com/annual-meeting-2021/

Symposium 119

Integrating Molecular Data into Malaria Surveillance: Progress in Senegal

Meeting Room 1
Sunday, November 21
8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

Efforts to reduce malaria burden have generally stalled in recent years. Robust malaria surveillance systems are necessary to inform intervention strategies, maximize gains, and monitor progress toward malaria burden reduction. Increasingly molecular data types, including genomic and serologic data are being generated at scales and on timelines that could be of practical value to malaria surveillance and control strategies, however integrating information from these sources into current surveillance frameworks remains a challenge. In particular, current surveillance systems largely rely on epidemiological indicators such as parasite prevalence and incidence rates. However, as transmission dynamics change, and particularly at low incidence (<5/1000) levels, molecular indicators including genetic and serological signals may provide more accurate estimation of disease burden and dynamics. Integration and validation of molecular data with epidemiological and other important information such as environmental factors, human mobility, and vector patterns is critical for guiding use of these molecular and serological surveillance methods. Epidemiological modeling can inform integration of these different data types and identify key parameters that drive parasite population dynamics and provide actionable information to guide further intervention strategies. Speakers in this session are experts in elements of malaria molecular surveillance and modeling, and working to integrate these into malaria surveillance and control strategies in Senegal. The speakers will discuss ongoing work to develop a sustainable, country-driven integrated surveillance system incorporating molecular data for monitoring malaria intervention impact and informing strategies to reduce malaria burden. Discussions will also include efforts to build synergies with broader molecular infectious disease surveillance for other causes of fever in Senegal.

CHAIR

Awa Bineta Deme
University Cheikh Anta DIOP, Dakar, Senegal

Richard W. Steketee
U.S. President's Malaria Initiative (PMI), Washington, WA, United States

8 a.m.
INTRODUCTION

8:10 a.m.
MALARIA SURVEILLANCE SYSTEM IN SENEGAL--PROGRESS AND CHALLENGES TOWARD INTEGRATION OF MOLECULAR EPIDEMIOLOGY

Fatou Ba Fall
National Malaria Control Program Senegal, Dakar, Senegal

8:25 a.m.
DESIGNING GENOMIC SURVEILLANCE SYSTEMS FOR INTEGRATION WITH EPIDEMIOLOGICAL DATA TO GUIDE MALARIA CONTROL STRATEGY

Julie Thwing
Centers for Disease Control and Prevention, Atlanta, GA, United States

8:40 a.m.
USE OF MULTIPLEX SEROLOGY AND INTEGRATED SURVEILLANCE OF MALARIA AND OTHER INFECTIOUS DISEASES

Aida S. Badiane
University Cheikh Anta DIOP, Dakar, Senegal

8:55 a.m.
USE OF EPIDEMIOLOGICAL MODELING TO INTEGRATE EPIDEMIOLOGIC AND MOLECULAR SURVEILLANCE DATA TO IDENTIFY KEY INDICATORS FOR PROGRAMMATIC DECISION-MAKING

Caitlin Bever
Institute for Disease Modeling, Seattle, WA, United States

Symposium 120

Robust National Public Health Institutes as a Force for Change in Public Health

Meeting Room 2
Sunday, November 21
8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

National public health institutes, or NPHIs, are focal points for essential public health functions within a country. Sitting under or closely linked to a country's Ministry of Health (MOH), NPHIs promote efficiency and impact of public health services. Through coordinating functions such as surveillance and emergency operations, NPHIs can address issues such as fragmentation of public health activities by providing a cohesive voice for public health and a single accountable institution for managing public health activities. This coordination and cohesiveness is particularly critical during emergencies such as the ongoing COVID-19 pandemic, when government leaders rely on the science-driven information and recommendations from NPHIs to inform policy and programmatic actions. Speakers will reflect on their country's or organization's NPHI development efforts, as well as global and regional efforts by the International Association of National Public Health Institutes (IANPHI), the Africa Centers for Disease Control and Prevention (Africa CDC), and the U.S. Centers for Disease Control and Prevention (U.S. CDC). They will link these efforts to current or recent public health events, including the COVID-19 pandemic. The representative from Africa CDC will highlight the history of the agency, the importance of NPHIs as the foundation for its organizational structure, and its ongoing work to strengthen and support NPHIs as critical for national and regional responses. The speaker from Uganda, who is the vice-chair of the IANPHI Africa Regional Network, will highlight the value of IANPHI's global network of NPHIs, as well as the strong relationship between Uganda's NPHI and its MOH. The Colombian speaker, who represents an institution established for more than 100 years, will discuss the impact of strengthening the functions of the country's NPHI and the linkages among them. The representative from Mozambique will speak about the impact of the NPHI's work on public policy and decision-making in the country. The symposium will be chaired by U.S. CDC, which serves as the NPHI for the United States and has for the past decade supported NPHI development efforts in more than 30 countries around the world.

CHAIR

Shelly Bratton
US Centers for Disease Control and Prevention, Atlanta, GA, United States

Olga Lucia Henao
Centers for Disease Control and Prevention, Atlanta, GA, United States

8 a.m.
INTRODUCTION

8:10 a.m.
NPHIS AT THE FOUNDATION OF AFRICA CDC'S OPERATING MODEL
Raji Tajudeen
Africa Centres for Disease Control and Prevention, Addis Ababa, Ethiopia

8:30 a.m.
NPHI AND MOH COLLABORATION TO ENHANCE THE PUBLIC'S HEALTH
Alex Riolexus Ario
Uganda Ministry of Health, National Institute of Public Health, Kampala, Uganda

8:50 a.m.
STRENGTHENING PUBLIC HEALTH FUNCTIONS WITHIN AN NPHI
Marta Lucia Ospina
Instituto Nacional de Salud, Bogota, Colombia

9:10 a.m.
NPHI SURVEILLANCE INITIATIVES INFORM HEALTH POLICY DECISION-MAKING
Eduardo Samo Gudo
Instituto Nacional de Saude, Maputo, Mozambique

Scientific Session 121

Kinetoplastida: Molecular Biology and Immunology

Meeting Room 3
Sunday, November 21
8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

CHAIR

Walderez O. Dutra
UFMG, Belo Horizonte, MG, Brazil

Parna Bhattacharya
FDA, Bethesda, MD, United States

8 a.m. 1335

EVALUATION OF SAFETY AND EFFICACY OF NEW WORLD LEISHMANIA MEXICANA CENTRIN GENE DELETED (LMEXCEN-/-) LIVE ATTENUATED PARASITES AS A PROPHYLACTIC VACCINE AGAINST VISCERAL LEISHMANIASIS

Subir Karmakar[1], Nevien Ismail[1], Wenwei Zhang[2], Oliveira Fabiano[3], Greta Volpedo[4], Shinjiro Hamano[5], Greg Matlashewski[6], Shaden Kamhawi[3], Jesus Valenzuela[3], Abhay Satoskar[4], **Ranadhir Dey**[1], Hira Nakhasi[1]
[1]CBER/FDA, Silver Spring, MD, United States, [2]McGill university, Montreal, QC, Canada, [3]NIAID/NIH, Twinbrook, MD, United States, [4]Ohio State University, Columbus, OH, United States, [5]Nagasaki University, Nagasaki, Japan, [6]McGill University, Montreal, QC, Canada

(ACMCIP Abstract)

8:10 a.m. 1336

IN SILICO IDENTIFICATION OF PEPTIDES THAT INTERACT WITH HLA-DRB1 ALLELES ASSOCIATED WITH CHAGAS DISEASE CARDIOMYOPATHY

Thaiany Goulart Silva[1], Guilherme Ferreira Evangelista[2], Kenneth John Gollob[2], Walderez Ornelas Dutra[1]
[1]Federal University of Minas Gerais, Belo Horizonte, Brazil, [2]AC Camargo Cancer Center, São Paulo, Brazil

(ACMCIP Abstract)

8:20 a.m.

1337

REVEALING THE LOCATION AND CONFIRMING THE PRESENCE OF TC24 IN DIFFERENT PARASITIC LIFE STAGES OF TRYPANOSOMA CRUZI

Leroy Versteeg[1], Rakesh Adhikari[1], Cristina Poveda[1], Maria Jose Villar-Dragon[1], Kathryn Jones[1], Peter Hotez[1], Maria Elena Bottazzi[1], Edwin Tijhaar[2], Jeroen Pollet[1]
[1]Baylor College of Medicine, Houston, TX, United States, [2]Wageningen University, Wageningen, Netherlands

(ACMCIP Abstract)

8:30 a.m.

1338

COMPARISON OF FUNCTIONAL CHARACTERISTICS OF CD4+ AND CD8+ T-CELLS IN CHAGAS DISEASES CARDIOMYOPATHY AND IDIOPATHIC HEART DISEASES AND THEIR ASSOCIATION WITH PATHOLOGY

Eula Graciele Amorim Neves, Carolina Cattoni Koh, Ana Carolina Carvalho Silva, Thaiany Goulart de Souza Silva, Teresiama Velikkakam, Maria do Carmo Pereira Nunes, Walderez Ornelas Dutra
Federal University of Minas Gerais, Belo Horizonte-Minas Gerais, Brazil

(ACMCIP Abstract)

8:40 a.m.

1339

TOLL LIKE RECEPTOR-9 (TLR-9) SIGNALING PLAYS AN IMPORTANT ROLE IN LIVE ATTENUATED LEISHMANIA VACCINE INDUCED PROTECTIVE IMMUNITY

Parna Bhattacharya, Nevien Ismail, Sreenivas Gannavaram, Ranadhir Dey, Hira L. Nakhasi
FDA, Silver Spring, MD, United States

8:50 a.m.

1340

ENDOGENOUS NEUTROPHIL ACTIVATION IN SUBCLINICAL LEISHMANIA BRAZILIENSIS INFECTION

Jacilara Conceicao[1], Pedro Carneiro[2], Andreza Dórea[2], Walker Nonato[2], Aline Muniz[2], Ednaldo Lago[2], Edgar Carvalho[3], Mary Wilson[1], Olívia Bacellar[2]
[1]University of Iowa, Iowa City, IA, United States, [2]Immunology Service, Federal University of Bahia, Salvador, Brazil, [3]Gonçalo Moniz Research Center - Fiocruz Bahia, Salvador, Brazil

9 a.m.

1341

CROSSTALK BETWEEN MYELOID CELLS AND CD4 AND CD8 T CELLS IN THE CONTEXT OF IMMUNE EXHAUSTION

Diogo Valadares
University of Iowa, Iowa City, IA, United States

(ACMCIP Abstract)

Scientific Session 122

Pneumonia, Respiratory Infections and Tuberculosis I

Meeting Room 4
Sunday, November 21
8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

CHAIR

Davidson H. Hamer
Center for Global Health and Development, Boston University, Boston, MA, United States

Monica Lu
Johns Hopkins University School of Medicine, Baltimore, MD, United States

8 a.m.

BURROUGHS WELLCOME FUND-ASTMH FELLOWSHIP PRESENTER

1342

NUTRITIONAL SUPPLEMENTATION COST-EFFECTIVELY DECREASES TUBERCULOSIS INCIDENCE AND MORTALITY IN INDIA: THE RATION OPTIMIZATION TO IMPEDE TUERCULOSIS (ROTI-TB) MODEL

Pranay Sinha[1], Subitha L. Lakshminaryanan[2], Chelsie Cintron[1], Prakash B. Narasimhan[2], Lindsey M. Locks[3], Nalin Kulatilaka[4], Kimberly Maloomian[5], Senbagavalli P. Babu[2], Madeline E. Carwile[1], Anne F. Liu[6], C. Robert Horsburgh, Jr.[7], Carlos Acuna-Villaorduna[1], Benjamin P. Linas[1], Natasha S. Hochberg[1]
[1]Boston Medical Center, Boston, MA, United States, [2]Jawaharlal Institute for Postgraduate Medical Education and Research, Puducherry, India, [3]Boston University College of Health & Rehabilitation Sciences, Boston, MA, United States, [4]Boston University Questrom School of Business, Boston, MA, United States, [5]Kimba's Kitchen, West Palm Beach, FL, United States, [6]Brigham and Women's Hospital, Boston, MA, United States, [7]Boston University School of Public Health, Boston, MA, United States

8:10 a.m.

1343

DIETARY INTAKE AND PNEUMOCOCCAL VACCINE RESPONSE AMONG CHILDREN (5-7 YEARS) IN MSAMBWENI DIVISION, KWALE COUNTY, KENYA

Eleonora Migliore[1], Vivian K. Amaitsa[2], Francis M. Mutuku[3], Indu Malhotra[4], Dunstan Mukoko[4], Anika Sharma[1], Prathik Kalva[1], Amrik S. Kang[1], Charles H. King[5], A. Desiree LaBeaud[1]
[1]Stanford University School of Medicine, Department of Pediatrics, Division of Infectious Diseases, Stanford, CA, United States, [2]Kenyatta University, Department of Community Health, Nairobi, Kenya, [3]Technical University of Mombasa, Department of Environment and Health Sciences, Mombasa, Kenya, [4]Ministry of Health, Vector Borne Disease Control Unit, Nairobi, Kenya, [5]Case Western Reserve University, Center for Global Health and Diseases, Cleveland, OH, United States

8:20 a.m.

1344

THE GUATEMALA AGRICULTURAL WORKERS AND RESPIRATORY LLLNESS IMPACT (AGRI) STUDY: CLINICAL AND SOCIOECONOMIC IMPACT OF RESPIRATORY ILLNESS IN A COHORT OF GUATEMALAN AGRICULTURAL WORKERS

Daniel Olson[1], Mirella Calvimontes[2], Molly M. Lamb[3], Gerber Guzman[2], Edgar E. Barrios[2], Andrea Chacon[2], Neudy Rojop[2], Melissa Gomez[2], Kareen Arias[2], Guillermo A. Bolanos[2], Frederick G. Hayden[4], Hani Mansour[5], Kathryn M. Edwards[6], Lee Newman[3], Edwin J. Asturias[1]
[1]University of Colorado School of Medicine, Aurora, CO, United States, [2]Fundacion para la Salud Integral de los Guatemaltecos, Retalhuleu, Guatemala, [3]Colorado School of Public Health, Aurora, CO, United States, [4]University of Virginia School of Medicine, Charlottesville, VA, United States, [5]University of Colorado - Denver, Denver, CO, United States, [6]Vanderbilt University School of Medicine, Nashville, TN, United States

8:30 a.m. 1345

"COUGHING? IT MIGHT BE TB": ADDRESSING COUGH-RELATED STIGMA IN THE TIME OF COVID-19 THROUGH SOCIAL AND BEHAVIOR CHANGE IN NIGERIA

Bolatito Aiyenigba[1], Joseph Edor[1], Justin DeNormandie[1], Charles Ugwuanyi[1], Jennifer Orkis[2], Linda Osaji[1], Debby Nongo[3], Temitayo Odusote[3], Itohowo Uko[4]
[1]Breakthrough ACTION - Nigeria, Abuja, Nigeria, [2]Johns Hopkins Center for Communication Programs, Baltimore, MD, United States, [3]United States Agency for International Development, Abuja, Nigeria, [4]National Tuberculosis and Leprosy Control Programme Federal Ministry of Health, Abuja, Nigeria

8:40 a.m. 1346

IT'S A FAMILY AFFAIR: HIGH RATES OF INTRA-HOUSEHOLD TRANSMISSION OF SARS-COV-2 IN A HYBRID CLUSTER - COHORT STUDY IN CENTRAL NEW YORK

Michael Conroy, Harry Taylor, Anjlee Panjwani, Andrea Shaw, Natalia DeMaria, Julia Cramer, Megan Harris, Daniel Lichtenstein, Stephen Thomas, Frank Middleton, Kathryn Anderson
SUNY Upstate, Syracuse, NY, United States

8:50 a.m. 1347

INCREASED COVID-19 DISEASE SEVERITY IN HOSPITALIZED AMERICAN INDIAN/ALASKA NATIVE PATIENTS

Alexandra V. Yingling[1], Janae Martinez[1], Amber Castillo[1], Qiuying Cheng[1], Michelle Harkins[2], J. Pedro Teixeira[2], Christophe Lambert[1], Anthony Worsham[3], Phillip Seidenberg[4], Kristan Schneider[5], Jens Langsjoen[3], Ivy Hurwitz[1], Douglas J. Perkins[1]
[1]Center for Global Health, Department of Internal Medicine, University of New Mexico Health Sciences Center, Albuquerque, NM, United States, [2]Division of Pulmonary, Critical Care, and Sleep Medicine, Department of Internal Medicine, University of New Mexico Health Sciences Center, Albuquerque, NM, United States, [3]Division of Hospital Medicine, Department of Internal Medicine, University of New Mexico Health Sciences Center, Albuquerque, NM, United States, [4]Department of Emergency Medicine, University of New Mexico Health Sciences Center, Albuquerque, NM, United States, [5]Department of MNI, University of Applied Sciences Mittweida, Mittweida, Germany

9 a.m. 1348

CROSS-REACTIVITY OF PRE-COVID-19 PANDEMIC SERA FROM A MALARIA-ENDEMIC AREA ON TWO SARS-COV-2 SEROLOGICAL ASSAYS

Laura C. Steinhardt[1], Fehintola Ige[2], Nnaemeka Iriemenam[3], Stacie Greby[3], Yohhei Hamada[4], Mabel Uwandu[2], Maureen Aniedobe[2], Kristen Stafford[5], Alash'le Abimiku[6], Nwando Mba[7], Ndidi Agala[6], Olumide Okunoye[3], Augustine Mpamugo[8], Mahesh Swaminathan[3], Edewede Onokevbagbe[8], Temitope Olaleye[6], Ifeanyichukwu Odoh[6], Barbara Marston[1], McPaul Okoye[3], Ibrahim Abubakar[4], Molebogeng Rangaka[4], Eric Rogier[1], Rosemary Audu[2]
[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Nigerian Institute of Medical Research, Lagos, Nigeria, [3]Centers for Disease Control and Prevention, Abuja, Nigeria, [4]University College of London, London, United Kingdom, [5]UMB, Baltimore, MD, United States, [6]IHVN, Abuja, Nigeria, [7]Nigeria Centre for Disease Control, Abuja, Nigeria, [8]UMB, Abuja, Nigeria

Symposium 123

Undernutrition in Children: The Role of Enteric Dysfunction

Meeting Room 5
Sunday, November 21
8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

Environmental Enteric Dysfunction (EED) is largely an asymptomatic disorder characterized by gut inflammation, intestinal permeability, and poor nutrient absorption. EED is highly prevalent in children in resource limited settings and is an important cause of poor growth. Its etiology is not known, but lead candidates include environmental microbial contamination, intestinal infections, and injurious host response to gut microbes. EED studies have been hampered by lack of interrogation of the target organ – the gut. The EED Biopsy Initiative (EEDBI) Consortium aims to elucidate the pathophysiology of EED and discover and validate biomarkers of EED. To do this, the Consortium intensively studied endoscopic intestinal biopsies from children suffering from growth faltering and not responding to nutritional interventions despite thorough medical evaluation. Study sites include Dhaka, Bangladesh, Lusaka, Zambia, and Matiari, Pakistan. North American centers also enrolled children undergoing clinically indicated endoscopies as a comparison group. A novel EED histology scoring system was applied to 709 biopsies from 437 children across the five centers to characterize the histopathology of EED across and between the three EED-prevalent sites. Other cross-site investigations included intestinal transcriptomics, immunohistochemistry, and quantitative mucosal morphometry as well as assessments of candidate biomarkers from less invasively obtained specimens (blood, urine, and stool). In this Symposium, four EEDBI investigators will present findings from inter-site analyses to: 1) Describe the histopathologic features of EED, differences in features by site, and a proposed refined semi-quantitative EED histology composite scoring system. 2) Characterize gut inflammation in EED by intestinal biopsy gene expression. 3) Correlate candidate biomarkers and intestinal histopathology to identify markers that can potentially be used to diagnose children with EED and follow intervention response. 4). Present data to date from one of the cohorts that provide insights into microbiome alterations in EED and stunted growth. Illumination of pathophysiologic processes involved in EED based on interrogation of target tissue represents a novel and rare opportunity to identify therapeutic targets and biomarkers to understand this highly consequential disorder.

CHAIR

Donna M. Denno
University of Washington, Seattle, WA, United States

Najeeha Iqbal
Aga Khan University, Karachi, Pakistan

8 a.m.
INTRODUCTION

8:10 a.m.
PATHOPHYSIOLOGY OF EED: A STORY ACROSS THREE COUNTRIES USING A NOVEL COMPOSITE EED HISTOLOGY SCORING SYSTEM
Paul Kelly
University of Zambia, Lusaka, Zambia

8:35 a.m.
GUT INFLAMMATION IN EED AS CHARACTERIZED BY INTESTINAL BIOPSY GENE EXPRESSION
Chelsea Marie
University of Virginia, Charlottesville, VA, United States

9 a.m.
CIRCULATING AND FECAL BIOMARKERS CORRELATED WITH INTESTINAL HISTOPATHOLOGY IN MALNOURISHED CHILDREN WITH ENTEROPATHY
Mustafa Mahfuz
International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

9:25 a.m.
GUT MICROBIOTA ASSOCIATED WITH EED AND STUNTING
Tahmeed Ahmed
International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

Scientific Session 124

Mosquitoes: Insecticide Resistance and Control

Meeting Room 6
Sunday, November 21
8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

CHAIR
Lindsey Kay Mack
University of California Davis, Davis, CA, United States

Antoine Sanou
Centre National de Recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso

8 a.m. **1349**

REVIEWING THE EVIDENCE FOR AND AGAINST SELECTION OF SPECIFIC PYRETHROIDS FOR PROGRAMMATIC PURPOSES
Rosemary Susan Lees[1], Natalie Lissenden[1], Thomas Churcher[2], Penelope Hancock[3], Hanafy Ismail[1], Mara Kont[2], Ben Lambert[3], Audrey Lenhart[4], Philip McCall[1], Catherine Moyes[3], Mark Paine[1], Giorgio Praulins[1], David Weetman[1]
[1]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [2]Imperial College London, London, United Kingdom, [3]University of Oxford, Oxford, United Kingdom, [4]Centres for Disease Control, Atlanta, GA, United States

8:10 a.m. **1350**

EFFICACY OF A SPATIAL REPELLENT FOR CONTROL OF AEDES-BORNE VIRUS TRANSMISSION: A CLUSTER RANDOMIZED TRIAL IN IQUITOS, PERU
Amy C. Morrison[1], Robert C. Reiner[2], William H. Elson[3], Helvio Astete[4], Carolina Guevara[4], Clara del Aguila[5], Isabel Basan[4], Crystyan Siles[4], Patricia Barrera[4], Anna B. Kawiecki[1], Christopher M. Barker[1], Gissella M. Vasquez[6], Karin Escobedo-Vargas[6], Carmen Flores-Mendoza[6], Alfredo A. Huaman[4], Mariana Leguia[7], Maria E. Silva[4], Sarah A. Jenkins[4], Wesley R. Campbell[4], Eugenio J. Abente[4], Robert D. Hontz[4], Valerie A. Paz-Soldan[8], John P. Grieco[9], Neil F. Lobo[9], Thomas W. Scott[3], Nicole L. Achee[9]
[1]Department of Pathology, Microbiology, and Immunology, School of Veterinary Medicine, University of California, Davis, CA, United States, [2]Department of Health Metrics Sciences, University of Washington, Seattle, WA, United States, [3]Department of Entomology and Nematology, University of California, Davis, CA, United States, [4]Department of Virology and Emerging Infectious Diseases, U.S. Naval Medical Research Unit No. 6, Lima, Peru, [5]Dirección General de Saneamiento Ambiental (DIGESA), Iquitos, Peru, [6]Department of Entomology, U.S. Naval Medical Research Unit No. 6, Lima, Peru, [7]Genomics Laboratory, Pontificia Universidad Católica del Perú, Lima, Peru, [8]Department of Global Community Health and Behavioral Sciences, Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States, [9]Department of Biological Sciences, Eck Institute for Global Health, University of Notre Dame, Notre Dame, IN, United States

8:20 a.m. **1351**

INVESTIGATING BIRD-DELIVERED IVERMECTIN AS A NOVEL URBAN WEST NILE VIRUS CONTROL STRATEGY
Karen Holcomb[1], Chilinh Nguyen[2], Nicholas Komar[3], Nicholas Panella[3], Brian D. Foy[2], Christopher M. Barker[1]
[1]Davis Arbovirus Research and Training Lab, University of California Davis, Davis, CA, United States, [2]Arthropod-borne and Infectious Diseases Laboratory, Colorado State University, Fort Collins, CO, United States, [3]Centers for Disease Control and Prevention, Division of Vector-Borne Infectious Diseases, Fort Collins, CO, United States

8:30 a.m. **1352**

GENE EXPRESSION TEMPORAL ANALYSIS OF PYRETHROID RESPONSE IN CALIFORNIAN *AEDES AEGYPTI*
Lindsey Kay Mack, Geoffrey M. Attardo
University of California Davis, Davis, CA, United States

8:40 a.m. **1353**

MAPPING THE FREQUENCY OF GENETIC MUTATIONS CONFERRING INSECTICIDE TARGET SITE RESISTANCE IN AFRICAN MALARIA VECTOR SPECIES
Penelope A. Hancock[1], Catherine L. Moyes[2]
[1]Imperial College London, London, United Kingdom, [2]University of Oxford, Oxford, United Kingdom

8:50 a.m. **1354**

INSECTICIDE SUSCEPTIBILITY OF *ANOPHELES GAMBIAE* S.L. POPULATION IN HEALTH DISTRICTS AFTER DEPLOYMENT OF NEW GENERATION NETS IN BURKINA FASO
Antoine Sanou[1], Joe Wagman[2], Madou Tapsoba[1], Soumanaba Zongo[1], Nfale Sagnon[1], Christelle Gogue[2], Gauthier Tougri[3], Adama Gansane[1], Geraldine M. Foster[4], W. Moussa Guelbéogo[1], Roberton Molly[2], Hilary Ranson[4]
[1]Centre National de Recherche et de Formation sur le Paludisme (CNRFP), Ouagadougou, Burkina Faso, [2]PATH, Washington, WA, United States, [3]National Malaria Control Programme, Ouagadougou, Burkina Faso, [4]Liverpool School of Tropical medicine, Liverpool, United Kingdom

9 a.m. 1355

VECTRON™ T500 (BROFLANILIDE), A NEW INSECTICIDE FOR INDOOR RESIDUAL SPRAYINGPROVIDES IMPROVED AND PROLONGED CONTROL OF PYRETHROID-RESISTANT MALARIA VECTORS IN BENIN

Renaud Govoetchan[1], Augustin Fongnikin[2], Martial Gbegbo[2], Corine Ngufor[1]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]Centre de Recherche Entomologique de Cotonou, Cotonou, Benin

Symposium 125

Dihydroartemisinin-piperaquine as an Alternative Drug for Intermittent Preventive Treatment for the Control of Malaria in Pregnancy in Areas of High Sulphadoxine-Pyrimethamine Resistance in East and Southern Africa

Meeting Room 7
Sunday, November 21
8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

Malaria in pregnancy has devastating consequences for the mother and fetus. WHO recommends intermittent preventive treatment (IPTp) with sulphadoxine-pyrimethamine (SP) for preventing malaria in pregnancy, but high-level SP resistance threatens its efficacy in parts of East and Southern Africa. Over the last decade, several trials using amodiaquine, mefloquine, and chloroquine for IPTp showed that none of these long-acting antimalarials were suitable alternatives to replace SP for IPTp due to their poor tolerability. The exception is dihydroartemisinin-piperaquine (DP), which currently is the only promising alternative candidate for use as IPTp. Exploratory trials from Kenya and Uganda showed that IPTp-DP was more effective than SP in reducing malaria infection, but these trials were not powered to assess the treatment effect on birth outcomes. In 2015, WHO recommended that further trials were needed to determine the effect of IPTp-DP on adverse pregnancy outcomes. This symposium will present data from a new large multicentre 'IMPROVE' trial (N=4,680 women) and related studies of IPTp with monthly DP, with or without a single course of azithromycin, for the control of malaria, sexually transmitted and reproductive tract infections in pregnancy in areas of high SP resistance in Kenya, Malawi, and Tanzania. In addition, the results from a meta-analysis of data from the IMPROVE trial combined with all other completed trials (N=6) will be presented. Results from a mediation analysis to decompose the antimalarial and non-malarial effects of IPTp with SP on pregnancy and infant outcomes will also be presented.

CHAIR
Jenny Hill
Liverpool School of Tropical Medicine, Liverpool, United Kingdom
Abel Kakuru
Infectious Diseases Research Collaboration, Kampala, Uganda

8 a.m.
INTRODUCTION

8:10 a.m.
INTERMITTENT PREVENTIVE THERAPY (IPTP) WITH SULPHADOXINE-PYRIMETHAMINE VERSUS DIHYDROARTEMISININ-PIPERAQUINE WITH OR WITHOUT AZITHROMYCIN FOR THE PREVENTION OF MALARIA AND STIS/RTIS IN PREGNANCY IN KENYA, MALAWI & TANZANIA: A RANDOMIZED TRIAL

Mwayiwawo Madanitsa
College of Medicine, University of Malawi, Blantyre, Malawi

8:30 a.m.
EFFICACY OF INTERMITTENT PREVENTIVE THERAPY WITH DIHYDROARTEMISININ-PIPERAQUINE VS SULPHADOXINE-PYRIMETHAMINE FOR THE PREVENTION OF MALARIA IN PREGNANCY KENYA, MALAWI, TANZANIA, AND UGANDA: A META-ANALYSIS.

Feiko O. ter Kuile
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

8:50 a.m.
OVERALL, ANTI-MALARIAL, AND NON-MALARIAL EFFECT OF INTERMITTENT PREVENTIVE TREATMENT DURING PREGNANCY WITH SULFADOXINE-PYRIMETHAMINE: A MEDIATION ANALYSIS

Michelle Roh
University of California San Francisco, San Francisco, CA, United States

9:10 a.m.
CARDIOTOXICITY OF DIHYDROARTEMISININ-PIPERAQUINE WHEN USED FOR IPTP FOR THE PREVENTION OF MALARIA IN PREGNANCY: AN INDIVIDUAL PARTICIPANT DATA META-ANALYSIS.

Julie Gutman
Centers for Disease Control and Prevention, Atlanta, GA, United States

Scientific Session 126

Clinical Tropical Medicine: Vectorborne Disease

Meeting Room 8
Sunday, November 21
8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

CHAIR
Mark Kortepeter
Uniformed Services University, Bethesda, MD, United States
Max McClure
Stanford Medicine, Palo Alto, CA, United States

8 a.m. 1356

SAFETY OF SINGLE DOSE MOXIDECTIN COMBINATION THERAPY FOR BANCROFTIAN FILARIASIS

Catherine M. Bjerum[1], Benjamin Koudou[2], Allassane Ouattara[2], Toki Pascal Gabo[3], Peter U. Fischer[4], Gary J. Weil[4], Christopher L. King[1], Philip Budge[4]
[1]Case Western Reserve University, Cleveland, OH, United States, [2]Swiss Center for Scientific Research, Abidjan, Côte D'Ivoire, [3]Agboville Regional Hospital, Agboville, Côte D'Ivoire, [4]Washington University in St. Louis, St. Louis, MO, United States

8:10 a.m.

1357

MOXIDECTIN EFFICACY IN SINGLE DOSE COMBINATION THERAPIES WITH ALBENDAZOLE AND DIETHYLCARBAMAZINE FOR TREATMENT OF LYMPHATIC FILARIASIS IN CÔTE D'IVOIRE: PRELIMINARY RESULTS FROM A RANDOMIZED CONTROLLED TRIAL

Benjamin G. Koudou[1], Philip Budge[2], Allassane Ouattara[1], Toki Pascal Gabo[3], Peter U. Fischer[2], Christopher L. King[4], Gary J. Weil[2], Catherine Bjerum[4]
[1]Swiss Center for Scientific Research, Abidjan, Côte D'Ivoire, [2]Washington University in St. Louis, St. Louis, MO, United States, [3]Agboville Regional Hospital, Agboville, Côte D'Ivoire, [4]Case Western Reserve University, Cleveland, OH, United States

8:20 a.m.

1358

TRANSCRIPTOMIC ANALYSIS REVEALS ACTIVATION OF CONSERVED IMMUNE PATHWAYS IN THE HUMAN SKIN RESPONSE TO THE BITES OF DIVERGENT VECTOR SPECIES OF GLOBAL HEALTH IMPORTANCE

Joshua R. Lacsina[1], Thiago S. DeSouza-Vieira[1], James P. Oristian[2], Tiago D. Serafim[1], Johannes P. Doehl[1], Claudio Meneses[1], Samantha Herbert[3], Maria M. Disotuar[1], Jessica E. Manning[1], Luca T. Giurgea[4], Lindsay Czajkowski[4], Alison Han[4], Holly Ann Baus[4], Shaden Kamhawi[1], Fabiano Oliveira[1], Matthew J. Memoli[4], Jesus G. Valenzuela[1]
[1]Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, Rockville, MD, United States, [2]University of Georgia, Athens, GA, United States, [3]University of Miami Miller School of Medicine, Miami, FL, United States, [4]LID Clinical Studies Unit, Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

8:30 a.m.

1359

HUMORAL IMMUNITY AGAINST *AEDES AEGYPTI* SALIVA ASSOCIATED WITH DEVELOPMENT OF INAPPARENT DENGUE: A LONGITUDINAL OBSERVATIONAL COHORT IN CAMBODIA

Jessica Manning[1], Sophana Chea[2], Daniel M. Parker[3], Allyson Mateja[4], Somnang Man[2], Sreynik Nhek[2], Sokunthea Sreng[2], Sreyngim Lay[2], Michael P. Fay[5], Sokna Ly[2], Rathanak Sath[2], Huch Chea[2], Rekol Huy[2], Jesus G. Valenzuela[3], Hok Kry[6], Chanthap Lon[2], Rithea Leang[2], Fabiano Oliveira[1]
[1]Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, Maryland, USA, Rockville, MD, United States, [2]National Center of Parasitology, Entomology, and Malaria Control, Phnom Penh, Cambodia, Phnom Penh, Cambodia, [3]Department of Population Health and Disease Prevention, University of California, Irvine, California, USA, California, CA, United States, [4]Clinical Monitoring Research Program Directorate, Frederick National Laboratory for Cancer Research, Frederick, Maryland, USA, Frederick, MD, United States, [5]Biostatistics Branch, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, Maryland, USA, Bethesda, MD, United States, [6]Kampong Speu District Referral Hospital, Chbar Mon, Kampong Speu, Cambodia, Kampong Speu, Cambodia

8:40 a.m.

1360

SAFETY AND IMMUNOGENICITY OF AGS-V PLUS, A MOSQUITO SALIVA PEPTIDE VACCINE AGAINST ARBOVIRAL DISEASES

DeAnna J. Friedman-Klabanoff[1], Megan Birkhold[2], Mara T. Short[3], Timothy R. Wilson[3], Joshua R. Lacsina[3], Fabiano Oliveira[3], Shaden Kamhawi[3], Jesus G. Valenzuela[3], Sally Hunsberger[4], Allyson Mateja[5], Gregory Stoloff[6], Olga Pleguezuelos[6], Matthew J. Memoli[7], Matthew B. Laurens[1]
[1]Center for Vaccine Development and Global Health, University of Maryland School of Medicine, Baltimore, MD, United States, [2]Department of Surgery, University of Maryland School of Medicine, Baltimore, MD, United States, [3]Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States, [4]Biostatistics Research Branch, Division of Clinical Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States, [5]Clinical Monitoring Research Program Directorate, Frederick National Laboratory for Cancer Research, Frederick, MD, United States, [6]Imutex Ltd, London, United Kingdom, [7]LID Clinical Studies Unit, Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

8:50 a.m.

1361

RISK-STRATIFYING YELLOW FEVER PATIENTS AT THE TIME OF ADMISSION

Max A. McClure[1], Izabela M. Rezende[2], Amrik S. Kang[2], Leonardo S. Pereira[3], Adriana Cenachi[3], Pedro A. Alves[4], Andréa Teixeira-Carvalho[5], Olindo A. Martins-Filho[5], Betânia P. Drumond[3], A. Desiree LaBeaud[2]
[1]Department of Medicine, Stanford University School of Medicine, Palo Alto, CA, United States, [2]Department of Pediatrics, Division of Infectious Diseases, Stanford University School of Medicine, Palo Alto, CA, United States, [3]Laboratório de Vírus, Instituto de Ciências Biológicas, Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, [4]Imunologia de Doenças Virais, Instituto René Rachou, Fundação Oswaldo Cruz/FIOCRUZ, Belo Horizonte, Brazil, [5]Grupo Integrado de Pesquisas em Biomarcadores, Instituto René Rachou, Fundação Oswaldo Cruz/FIOCRUZ, Belo Horizonte, Brazil

9 a.m.

1362

PERI-URBAN TRANSMISSION OF DENGUE IN THE CAMBODIAN 2019 EPIDEMIC: A PHYLOGEOGRAPHIC APPROACH TO UNDERSTAND ARBOVIRAL OUTBREAKS

Cara Brook[1], Jennifer A. Bohl[2], Graham Northrup[1], Sreyngim Lay[3], Sophana Chea[3], Vida Ahyong[4], Daniel M Parker[5], Somnang Man[3], Sokunthea Sreng[3], Dara Kong[3], Fabiano Oliveira[2], Liz Fahsbender[4], Rithea Leang[6], Rekol Huy[6], Chanthap Lon[3], Cristina M. Tato[7], Joseph L. DeRisi[7], Michael Boots[1], Jessica Manning[2]
[1]University of Berkeley, Berkeley, California, USA, California, CA, United States, [2]Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, Maryland, USA, Rockville, MD, United States, [3]International Center of Excellence in Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Phnom Penh, Cambodia, Phnom Penh, Cambodia, [4]Chan Zuckerberg Biohub, San Francisco, California, USA, California, CA, United States, [5]Department of Population Health and Disease Prevention, University of California, Irvine, California, USA, California, CA, United States, [6]National Center of Parasitology, Entomology, and Malaria Control, Phnom Penh, Cambodia, Phnom Penh, Cambodia, [7]Chan Zuckerberg Initiative, San Francisco, California, USA, California, CA, United States

Scientific Session 127

One Health: Interface of Human Health/Animal Diseases

Meeting Room 9
Sunday, November 21
8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

CHAIR
Gayani Tillekeratne
Durham, NC, United States

Kristy Murray
Baylor College of Medicine, Houston, TX, United States

8 a.m. 1363

FLUOROQUINOLONE RESISTANT ESCHERICHIA COLI RECOVERED AT THE INTERFACE BETWEEN HUMANS, POULTRY AND THEIR SHARED ENVIRONMENT- A POTENTIAL PUBLIC HEALTH RISK

Mabel Kamweli Aworh[1], Jacob K. Kwaga[2], Rene S. Hendriksen[3], Emmanuel C. Okolocha[2], Chikwe Ihekweazu[4], Siddhartha Thakur[5]
[1]Department of Veterinary & Pest Control Services, Federal Ministry of Agriculture & Rural Dev, Abuja, Nigeria, [2]Department of Veterinary Public Health and Preventive Medicine, Ahmadu Bello University, Zaria, Nigeria, [3]WHO, FAO, EU, Reference Laboratory for Antimicrobial Resistance, National Food Institute, Technical University of Denmark, Kgs. Lyngby, Denmark, Lyngby, Denmark, [4]Nigeria Center for Disease Control, Abuja, Nigeria, [5]Population Health and Pathobiology College of Veterinary Medicine, NC State 1060 William Moore Drive, Raleigh, NC 27609, NC, United States

8:10 a.m. 1364

SURVEILLANCE FOR ZOONOTIC INFLUENZA A VIRUSES IN LIVE BIRD MARKETS, NORTHERN VIETNAM

Robert D. Hontz[1], Dao Duy Tung[2], Kristen K. Coleman[3], Vuong N. Bui[2], Than The Son[3], Hung Nguyen-Veit[4], Emily R. Robie[5], Jose A. Garcia-Rivera[6], Pham Duc Phuc[7], Gregory C. Gray[5]
[1]U.S. Naval Medical Research Unit TWO (NAMRU-2), Singapore, Singapore, [2]National Institute of Veterinary Research, Hanoi, Viet Nam, [3]Duke-NUS Medical School, Singapore, Singapore, [4]International Livestock Research Institute, Hanoi, Viet Nam, [5]Duke University, Durham, NC, United States, [6]U.S. Naval Medical Research Unit TWO (NAMRU-2), Phnom Penh, Cambodia, [7]Hanoi University of Public Health, Hanoi, Viet Nam

8:20 a.m. 1365

DETECTION AND MOLECULAR CHARACTERIZATION OF ZOONOTIC AND PANDEMIC SWINE INFLUENZA VIRUS IN JOS: IMPLICATION FOR PUBLIC HEALTH

Jeremiah O. Ijomanta[1], Clement A. Meseko[1], Emmanuel C. Okolocha[2], Caleb A. Kudi[2]
[1]National Veterinary Research Institute, Vom, Plateau State, Nigeria., Jos, Nigeria, [2]Faulty of Veterinary Medicine, Ahmadu Bello University., Zaria, Nigeria

8:30 a.m. 1366

PLAGUE INFECTION IN URBAN SMALL MAMMALS AND FLEAS IN MADAGASCAR

Soanandrasana Rahelinirina[1], Mireille Harimalala[1], Mamy Gabriel Randriamanantsoa[2], Romain Girod[1], Minoarisoa Rajerison[1]
[1]Institut Pasteur de Madagascar, Antananarivo, Madagascar, [2]National Plague Control Program, Ministry of Public Health, Antananarivo, Madagascar

8:40 a.m. 1367

SCOPE AND OPPORTUNITIES FOR A ONE HEALTH APPROACH FOR GUINEA WORM CONTROL

Matthew R. Boyce, Ellen P. Carlin, Jordan Schermerhorn, Claire J. Standley
Georgetown University, Washington, DC, United States

8:50 a.m. 1368

URBANIZATION SHAPES THE ABUNDANCE AND DIVERSITY OF RODENT-BORNE PATHOGENS IN MALAYSIAN BORNEO: IMPLICATIONS FOR ZOONOTIC DISEASE RISK

Cadhla Firth[1], Kim R. Blasdell[2], Ayda Susana Ortiz-Baez[3], Amy Hahs[4], Susan GW Laurance[5], Stephen L. Doggett[6], Serge Morand[7], Edward C. Holmes[3], David Perera[8]
[1]EcoHealth Alliance, New York, NY, United States, [2]The Commonwealth Scientific and Industrial Research Organisation, Geelong, Australia, [3]University of Sidney, Sidney, Australia, [4]University of Melbourne, Melbourne, Australia, [5]James Cook University, Cairns, Australia, [6]Westmead Hospital, Sidney, Australia, [7]Montpellier University, Montpellier, France, [8]Universiti Malaysia Sarawak, Kota Samarahan, Malaysia

9 a.m. 1369

EMERGENCE OF ZOONOSES: WOULD GOLD MINING BE A CONTRIBUTING FACTOR?

Maylis Douine[1], Yann Lambert[1], Louise Mutricy[1], Muriel Galindo[1], Mathieu Picardeau[2], Mona Saout[3], Roxane Schaub[1], Mathieu Nacher[1], Stephen Vreden[4], Martha Suarez-Mutis[5], Loïc Epelboin[6]
[1]Centre d'Investigation Clinique Antilles-Guyane, Inserm 1424, Cayenne Hospital, Cayenne, French Guiana, [2]National reference center for leptospirosis, Institut Pasteur de Paris, Paris, France, [3]University Laboratory, Cayenne Hospital, Cayenne, French Guiana, [4]Foundation for the Advancement of Scientific Research in Suriname, Paramaribo, Suriname, [5]Parasitology Laboratory, Foundation Oswaldo Cruz, Rio de Janeiro, Brazil, [6]Infectious dieseases department, Cayenne Hospital, Cayenne, French Guiana

Scientific Session 128

Cestodes and Nematodes

Meeting Room 10
Sunday, November 21
8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

CHAIR
Elise O'Connell
National Institutes of Health, Bethesda, MD, United States

Jose Serpa-Alvarez
Baylor College of Medicine, Houston, TX, United States

8 a.m. 1370

DURABILITY OF SEROPOSITIVITY IN PATIENTS WITH NEUROCYSTICERCOSIS AFTER LEAVING AN ENDEMIC AREA

Nina Tang, Theodore Nash, Thomas B. Nutman, Elise Michelle O'Connell
National Institutes of Health, Bethesda, MD, United States

8:10 a.m.

1371

CROSS-SECTIONAL STUDY OF POPULATION SCREENING FOR URINARY ANTIGENS TO DETECT SUBARACHNOID NEUROCYSTICERCOSIS IN A COMMUNITY SETTING

Lauralee J. Fernandez[1], Samantha E. Allen[2], Percy Vilchez[3], Ricardo Gamboa[3], Claudio Muro[3], Yesenia Castillo[3], Pierre Dorny[4], Javier Bustos[3], Hector H. Garcia[5], Seth E. O'Neal[1], Cysticercosis Working Group[6]

[1]Oregon Health & Science University – Portland State University, School of Public Health, Portland, OR, United States, [2]School of Medicine, Oregon Health & Science University, Portland, OR, United States, [3]Center for Global Health Tumbes, Universidad Peruana Cayetano Heredia, Tumbes, Peru, [4]Department of Biomedical Sciences, Institute of Tropical Medicine, Antwerp, Belgium, [5]Center for Global Health Tumbes, Universidad Peruana Cayetano Heredia & Cysticercosis Unit, National Institute of Neurological Sciences, Lima, Peru, [6]Center for Global Health Tumbes, Universidad Peruana Cayetano Heredia, Peru, Tumbes, Peru

8:20 a.m.

1372

CYSTIHUMAN: A MODEL OF HUMAN NEUROCYSTICERCOSIS

Gabrielle M. Bonnet[1], Francesco Pizzitutti[1], Eloy Gonzales-Gustavson[2], Sarah Gabriël[3], William K. Pan[4], Javier A. Bustos[5], Hector H. Garcia[6], Seth E. O'Neal[7], for the Cysticercosis Group in Peru[8]

[1]Independent consultant with OHSU, Portland, OR, United States, [2]Tropical and Highlands Veterinary Research Institute, University of San Marcos, Huancayo, Peru, [3]Department of Veterinary Public Health and Food Safety, Ghent University, Ghent, Belgium, [4]Nicholas School of Environment and Duke Global Health Institute, Duke University, Durham, NC, United States, [5]Center for Global Health Tumbes, Universidad Peruana Cayetano Heredia, Tumbes, Peru, [6]Center for Global Health Tumbes, Universidad Peruana Cayetano Heredia & Cysticercosis Unit, National Institute of Neurological Sciences, Lima, Peru, [7]Center for Global Health Tumbes, Universidad Peruana Cayetano Heredia, Peru & School of Public Health, Oregon Health & Science University and Portland State University, Portland, OR, United States, [8]Universidad Peruana Cayetano Heredia, Lima, Peru

8:30 a.m.

1373

THE ROLE OF BENZIMIDAZOLE TREATMENT IN THE CLINICAL MANAGEMENT OF ALVEOLAR ECHINOCOCCOSIS IN GERMANY - BENEFITS AND CHALLENGES

Lynn Peters, Sanne Burkert, Julian Schmidberger, Andreas Hillenbrand, Tilmann Gräter, Benjamin Hagemann, Thomas Barth, Nina Eberhardt, Ambros Beer, Wolfgang Kratzer, Beate Grüner

University Hospital Ulm, Ulm, Germany

8:40 a.m.

1374

NOVEL HUMAN INFECTION WITH AN UNKNOWN SPECIES OF DRACUNCULUS, VIETNAM.

Sarah G. Sapp[1], Pham Thach[2], H. Rogier Van Doorn[3], Henry S. Bishop[1], Mark S. Fox[1], Vitaliano A. Cama[1], Le Van Duyet[4]

[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]National Hospital for Tropical Diseases, Hanoi, Viet Nam, [3]Oxford University Clinical Research Unit, Hanoi, Viet Nam, [4]National Hospital for Tropical Disease, Hanoi, Viet Nam

8:50 a.m.

1375

RPACAN3990, A NOVEL, HIGHLY SENSITIVE RECOMBINASE POLYMERASE ASSAY WITH A VISUALIZABLE READOUT

William Sears[1], Yvonne Qvarnstrom[2], Thomas B. Nutman[1]

[1]NIAID, Bethesda, MD, United States, [2]CDC, Atlanta, GA, United States

9 a.m.

1376

EXPLORING THE GENETIC DIFFERENCES AMONG POPULATIONS OF TRICHURIS TRICHIURA FROM LAOS, TANZANIA AND COTE D'IVOIRE WITH DIFFERING RESPONSES TO ALBENDAZOLE-IVERMECTIN COMBINATION TREATMENT

Abhinaya Venkatesan[1], Rebecca Chen[1], Brenna Reimer[1], Russell Avramenko[1], Chandni Patel[1], Eveline Hürlimann[2], Sophie Welche[2], Jennifer Keiser[2], John Gilleard[1]

[1]University of Calgary, Calgary, AB, Canada, [2]Swiss Tropical and Public Health Institute, Basel, Switzerland

(ACMCIP Abstract)

Symposium 129

Agriculture and Human Health: Research into Mitigating Risks and Optimizing Benefits

Meeting Room 11

Sunday, November 21

8 a.m. - 9:45 a.m. U.S. Eastern Time Zone

The impacts of agriculture on human health can be both positive and negative. Unprecedented population growth, especially in LMICs, and the resulting increases in demand for food has fueled rapid and unsustainable agricultural expansion. The unintended negative side effects of this agricultural expansion are well documented as increasing burdens of human illness and disease globally. In the face of rising demands for production, these negative side effects of agricultural expansion have a tendency to be overlooked or even accepted as an essential trade-off. Treating them as such can result in the benefits of agricultural development, such as economic stability and improved livelihoods, being undermined by ill health and disease in poor farming communities. Methods of achieving the same agricultural outcome without the unintended health cost must be found or developed in order to make agriculture more sustainable. CGIAR A4NH (Agriculture for Nutrition and Health) IHH (Improving Human Health) are a diverse group who focus on building collaborations between public health and agricultural researchers. Their overall aim is to mitigate risk and optimize health benefits from agricultural systems, or to find "win-win" solutions to these problems. This symposium will highlight, through a diverse set of case studies for ongoing research within the group, the three main mechanisms through which agricultural expansion is linked to human health issues; 1. Through environmental changes associated with agricultural development, such as irrigation providing breeding habitats for disease vectors. Two of the presentations will focus on research into innovative methods of quantifying malaria vector abundances, distributions and productivity within agricultural settings in Cote d'Ivoire. 2. Through transfer of pathogens to humans during agricultural production processes, such as zoonotic disease spillover to humans from livestock systems. One speaker will focus on research into elucidating the complex epidemiology of zoonotic Rift Valley fever

in pastoral farming communities in Kenya. 3. Through common challenges faced by both agriculture and health sectors. One speaker will focus on research into antimicrobial resistance (AMR), where agricultural use can create risks for humans, and on research into WASH interventions to mitigate these risks in farming communities. Each case study will present an overview of the agricultural process in question, and how it is a factor in increasing burdens on human health. They will outline their research methods and findings, and how their work is important in the context of developing sustainable ways to mitigate risks and optimize health benefits within their agricultural setting in the future.

CHAIR

Isabel Byrne
London School of Hygiene Tropical Medicine, London, United Kingdom

8 a.m.
INTRODUCTION

8:10 a.m.
RICE CULTIVATION AND MALARIA VECTORS IN COTE D'IVOIRE: MONITORING PRODUCTIVITY
Kallista Chan
London School of Hygiene Tropical Medicine, London, United Kingdom

8:30 a.m.
ANOPHELES FUNESTUS BREEDING SITES IN AN AGRICULTURAL SETTING IN COTE D'IVOIRE: A FINE SCALE INVESTIGATION USING LARVAL SURVEYS, REMOTE SENSING AND MACHINE LEARNING
Edgar Manrique
Universidad Peruana Cayetano Heredia, Lima, Peru

8:50 a.m.
THE EPIDEMIOLOGY OF RIFT VALLEY FEVER IN EAST AFRICA: UNRAVELLING THE INTERPLAY BETWEEN ENDEMIC AND EPIDEMIC OCCURRENCE PATTERNS
Bernard Bett
International Livestock Research Institute, Nairobi, Kenya

9:10 a.m.
AMR FROM A ONE HEALTH PERSPECTIVE: HUMAN HEALTH RISKS FROM ANTIMICROBIAL USE IN CROPS, AND WASH INTERVENTIONS TO REDUCE AMR IN FARMING COMMUNITIES
Ariel Brunn
London School of Hygiene Tropical Medicine, London, United Kingdom

Break

Sunday, November 21
9:45 a.m. – 10:15 a.m. U.S. Eastern Time Zone

Symposium 130

Expanding the Use of Safe and Effective Radical Cure of Relapsing Malaria: Defining Populations at Risk of Hemolysis

Meeting Room 1
Sunday, November 21
10:15 a.m. - Noon U.S. Eastern Time Zone

Eliminating *Plasmodium vivax* poses a huge challenge to malaria control programs. This will require the use of drugs to kill both blood and liver stage parasites (radical cure). The 8-aminoquinoline drugs primaquine and tafenoquine are the only available drugs that can kill liver stages. Their widespread use is limited by risk of severe hemolysis in patients with glucose-6-phosphate dehydrogenase (G6PD) deficiency and limited capacity for G6PD screening prior to treatment. Population risk of hemolysis is correlated with prevalence of deficiency and which G6PD variants are locally prevalent. Several thousand surveys of G6PD deficiency have been conducted, but these are mainly cross-sectional surveys and may not represent the target population - patients presenting with malaria. This symposium will explore how to define populations at risk of primaquine-induced hemolysis. A meta-analysis of the phenotypes of common G6PD mutations, new maps of the prevalence and genetic diversity of G6PDd, and G6PD enzyme activity in individuals with and without malaria will be presented. The concluding discussion will focus on the public health relevance and significance of the presented findings. The presentations will include discussions on 1). Characterizing the G6PD genotype-phenotype relationship and exploring clinical cofactors, findings from a meta-analysis characterizing the genotype-phenotype relationship in individuals with common G6PD variants. Results will be discussed with regard to policy interpretation of genotyping surveys. 2). Mapping the prevalence and distribution of genetic variants of G6PD deficiency – This talk will present new maps illustrating the global distribution and prevalence of G6PDd, as well as the distribution of different G6PD genetic variants. Methods used to develop these maps will be discussed briefly, along with their potential use as tools for screen and treat strategies. 3). G6PD activity in individuals with and without malaria: analysis of clinical trial, cross-sectional and case-control data from Bangladesh. This talk will explore G6PD activity measured in individuals with and without malaria, as well as afebrile aparasitaemic individuals with and without a history of malaria. The study has important implications for defining the risk of hemolysis in malaria patients. 4). Differences in the protective effect of severe G6PD mutations against *P. vivax* and *P. falciparum* malaria: implications for haemolytic risk. The results from cohort studies undertaken in Afghanistan and The Gambia will be presented, showing very different protective effects for G6PD deficiency against the two main *Plasmodium* species. The risk of hemolysis in symptomatic patients is thus correlated with the diagnosed parasite species.

CHAIR

Germana Bancone
Shoklo Malaria Research Unit, Mae Sot, Thailand

Najia Ghanci
Aga Khan University, Karachi, Pakistan

10:15 a.m.
INTRODUCTION

10:25 a.m.
CHARACTERIZING THE G6PD GENOTYPE-PHENOTYPE RELATIONSHIP & EXPLORING ASSOCIATED CLINICAL COFACTORS

Ari Winasti Satyagraha
Eijkman Institute for Molecular Biology, Jakarta, Indonesia

10:45 a.m.
MAPPING THE PREVALENCE AND DISTRIBUTION OF GENETIC VARIANTS OF G6PD DEFICIENCY

Daniel Pfeffer
Menzies School of Health Research, Darwin, Australia

11:05 a.m.
G6PD ACTIVITY IN INDIVIDUALS WITH AND WITHOUT MALARIA: ANALYSIS OF CLINICAL TRIAL, CROSS-SECTIONAL AND CASE-CONTROL DATA FROM BANGLADESH

Benedikt Ley
Menzies School of Health Research, Darwin, Australia

11:25 a.m.
DIFFERENCES IN THE PROTECTIVE EFFECT OF SEVERE G6PD MUTATIONS AGAINST *P. VIVAX* AND *P. FALCIPARUM* MALARIA: IMPLICATIONS FOR HEMOLYTIC RISK

James Watson
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

Scientific Session 132

Protozoa

Meeting Room 3
Sunday, November 21
10:15 a.m. - Noon U.S. Eastern Time Zone

CHAIR

Alejandro Castellanos-Gonzalez
University of Texas Medical Branch, Galveston, TX, United States

Hannah Steinberg
University of Illinois, Chicago, IL, United States

10:15 a.m. **1377**

INVESTIGATIONS OF THE ROLE OF DRUG RESISTANCE IN RELAPSING BABESIA MICROTI INFECTIONS

Wesley Rogers[1], Annie Leung[1], Pooja Lamda[2], Sara Krivacsy[2], Matthew Simon[1], Luis Marcos Raymundo[2], Laura Kirkman[1]
[1]Weill Cornell Medicine, New York, NY, United States, [2]Stony Brook Medicine, Stony Brook, NY, United States

10:25 a.m. **1378**

DEVELOPMENT OF A LATERAL FLOW ASSAY FOR NEUROLOGICAL TOXOPLASMOSIS

Hannah E. Steinberg[1], Amanda Haymond[2], Andrea Diestra[3], Catherine Apaza[3], Marilly Donayre Urquizo[4], Lilia Cabrera[5], Freddy Tinajeros[5], Viviana Pinedo Cancino[4], Lastenia Ruiz[4], Cesar Ramal[6], Weidong Zhou[2], Paul Russo[2], Lance Liotta[2], Nancy E. Freitag[1], Natalie M. Bowman[7], Vernon Carruthers[8], Maritza Calderon[3], Alessandra Luchini[2], Robert H. Gilman[9]
[1]University of Illinois, Chicago, Chicago, IL, United States, [2]George Mason University, Fairfax, VA, United States, [3]Universidad Peruana Cayetano Heredia, Lima, Peru, [4]Universidad Nacional de la Amazonía Peruana, Iquitos, Peru, [5]AB Prisma, Lima, Peru, [6]Hospital Regional de Loreto, Iquitos, Peru, [7]University of North Carolina, Chapel Hill, NC, United States, [8]University of Michigan, Ann Arbor, MI, United States, [9]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

(ACMCIP Abstract)

10:35 a.m. **1379**

CATALYSIS OF DRUG DISCOVERY RESEARCH AGAINST NTDS AT THE UNIVERSITY OF YAOUNDE 1: IMPACT OF THE BIOVENTURE FOR GLOBAL HEALTH (BVGH)

Fabrice Fekam Boyom
University of Yaounde 1, Yaounde, Cameroon

10:45 a.m. **1380**

ARGONAUTE MEDIATED GENE SILENCING IN CRYPTOSPORIDIUM INFECTION

Alejandro Castellanos-Gonzalez
University of Texas Medical Branch, Galveston, TX, United States

(ACMCIP Abstract)

10:55 a.m. **1381**

SINGLE ADMINISTRATION OF A BIODEGRADABLE MICRONEEDLE CAN SUBSTITUTE FOR REPEATED APPLICATION OF EYEDROPS IN THE TREATMENT OF ACANTHAMOEBA KERATITIS

Hee Kyoung Kang[1], SeungHyun Park[2], KangJu Lee[3], WonHyoung Ryu[2], **Hyun Beom Song**[1]
[1]Seoul National University College of Medicine, Seoul, Republic of Korea, [2]Yonsei University, Seoul, Republic of Korea, [3]Chonnam National University, Seoul, Republic of Korea

11:05 a.m. **1382**

RELATIONSHIP OF GALECTIN-3 BIOMARKER FOR CLINICAL OUTCOMES IN A CHAGAS DISEASE COHORT FROM A BRAZILIAN ENDEMIC REGION

Carlos H. Moreira[1], Fabio F. Fernandes[2], Lea C. De Oliveira[1], Ana L. Bierrenbach[1], Clareci Cardoso[3], Claudia Di Lorenzo[4], Ariela M. Ferreira[5], Thallyta M. Vieira[6], Renata F. Damasceno[5], Desiree S. Haikal[5], Nayara D. Quintino[3], Maria do Carmo Nunes[7], Antonio Luiz Riberio[6], Ester C. Sabino[1]
[1]Instituto de Medicina Tropical, São Paulo, Brazil, [2]Instituto do Coracao, São Paulo, Brazil, [3]Universidade Federal de Sao Joao Del Rei, Sao Joao Del Rei, Brazil, [4]University of Sao Joao Del Rei, Sao Joao Del Rei, Brazil, [5]Universidade Estadual de Montes Claros, Montes Claros, Brazil, [6]Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, [7]Universidade Federal de Minas Gerais - UFMG, Minas Gerais, Brazil

11:15 a.m. **1383**

ELEVATED PEDIATRIC CHAGAS DISEASE BURDEN COMPLICATED BY CONCOMITANT GASTROINTESTINAL PARASITES AND MALNUTRITION IN EL SALVADOR

Melissa S. Nolan[1], Kristy O. Murray[2], Rojelio Mejia[2], Peter J. Hotez[2], Maria Jose V. Mondragon[2], Stanley Rodriguez[3], Jose Palacios[3], William E. Contreras[4], Mary K. Lynn[1], Myriam Torres[1], Carlota Monroy[5]
[1]University of South Carolina, Columbia, SC, United States, [2]Baylor College of Medicine, Houston, TX, United States, [3]University of El Salvador, San Salvador, El Salvador, [4]El Salvador Ministry of Health-Western Region (SIBASI), Sonzacate, El Salvador, [5]University of San Carlos, San Carlos, Guatemala

Scientific Session 133

Pneumonia, Respiratory Infections and Tuberculosis II

Meeting Room 4
Sunday, November 21
10:15 a.m. - Noon U.S. Eastern Time Zone

CHAIR

Douglas Perkins
University of New Mexico, Albuquerque, NM, United States

Chelsie Cintron
Boston University, Boston, MA, United States

10:15 a.m. **1384**

ELEVATED SARS-COV-2 VIREMIA IN THE AMERICAN INDIAN/ ALASKAN NATIVE POPULATION: RELATIONSHIP WITH INCREASED COVID-19 DISEASE SEVERITY

Douglas J. Perkins[1], Alexandra V. Yingling[1], Qiuying Cheng[1], Amber Castillo[1], Janae Martinez[1], Steven B. Bradfute[1], Shuguang Leng[2], Samuel B. Anyona[3], Evans Raballah[4], Michelle Harkins[5], Mark Unruh[6], Anthony Worsham[7], Christophe G. Lambert[1], J. Pedro Teixeira[5], Phillip Seidenberg[8], Kristan Schneider[9], Jens O. Langsjoen[7], Ivy Hurwitz[1]
[1]Center for Global Health, Department of Internal Medicine, University of New Mexico Health Sciences Center, Albuquerque, NM, United States, [2]Division of Epidemiology, Biostatistics and Preventative Medicine, Department of Internal Medicine, University of New Mexico Health Sciences Center, Albuquerque, NM, United States, [3]Department of Medical Biochemistry, School of Medicine, Maseno University, Maseno, Kenya, [4]Department of Medical Laboratory Sciences, School of Public Health Biomedical Sciences and Technology, Masinde Muliro University of Science and Technology, Kakamega, Kenya, [5]Division of Pulmonary, Critical Care, and Sleep Medicine, Department of Internal Medicine, University of New Mexico Health Sciences Center, Albuquerque, NM, United States, [6]Division of Nephrology, Department of Internal Medicine, University of New Mexico Health Sciences Center, Albuquerque, NM, United States, [7]Division of Hospital Medicine, Department of Internal Medicine, University of New Mexico Health Sciences Center, Albuquerque, NM, United States, [8]Department of Emergency Medicine, University of New Mexico Health Sciences Center, Albuquerque, NM, United States, [9]Department of MNI, University of Applied Sciences Mittweida, Mittweida, Germany

10:25 a.m. **1385**

TRANSCRIPTOMICS REVEALS NOVEL DIFFERENTIAL GENE EXPRESSION PATTERNS IN HOSPITALIZED AMERICAN INDIAN/ ALASKA NATIVE PATIENTS WITH COVID-19: POTENTIAL INSIGHTS INTO ENHANCED DISEASE SEVERITY

Ivy Hurwitz[1], Qiuying Cheng[1], Alexandra V. Yingling[1], Amber Castillo[1], Janae Martinez[1], J. Pedro Teixeira[2], Anthony Worsham[3], Michelle Harkins[2], Phillip Seidenberg[4], Jens O. Langsjoen[3], Kristan Schneider[5], Christophe G. Lambert[1], Douglas J. Perkins[1]
[1]Center for Global Health, Department of Internal Medicine, University of New Mexico Health Sciences Center, Albuquerque, NM, United States, [2]Division of Pulmonary, Critical Care, and Sleep Medicine, Department of Internal Medicine, University of New Mexico Health Sciences Center, Albuquerque, NM, United States, [3]Division of Hospital Medicine, Department of Internal Medicine, University of New Mexico Health Sciences Center, Albuquerque, NM, United States, [4]Department of Emergency Medicine, University of New Mexico Health Sciences Center, Albuquerque, NM, United States, [5]Department of MNI, University of Applied Sciences Mittweida, Mittweida, Germany

10:35 a.m. **1386**

AN ADENO-ASSOCIATED VIRUS (AAV)-BASED GENE DELIVERY FOR IMMEDIATE PROTECTION AGAINST PANDEMIC CORONAVIRUSES

Longping V. Tse, Sarah R. Leist, Ande West, Rita M. Meganck, Stephanie Dong, Ralph S. Baric
University of North Carolina, Chapel Hill, NC, United States

10:45 a.m. **1387**

ASSOCIATION BETWEEN HYPERINFLATION (DEFINED BY RIB COUNT) ON CHEST RADIOGRAPHS WITH VIRAL ETIOLOGY AMONG CHILDREN WITH SEVERE PNEUMONIA IN LOW-INCOME AND MIDDLE-INCOME COUNTRIES (LMICS)

Monica A. Lu[1], Melissa M. Higdon[2], Christine Prosperi[2], Maria D. Knoll[2], Nasreen Mahomed[3], Eric D. McCollum[1], The PERCH Study Group[4]
[1]Johns Hopkins University School of Medicine, Baltimore, MD, United States, [2]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [3]University of Witwatersrand, Johannesburg, South Africa

10:55 a.m. **1388**

FOOD INSECURITY IN INDIA: THE CORRELATION WITH UNDERNUTRITION AND ANTHROPOMETRY AMONG HOUSEHOLD CONTACTS OF TUBERCULOSIS CASES

Chelsie Cintron[1], Prakash Narasimhan[2], Jessica Wise[3], Komal Jain[2], Lindsey Locks[4], Nonika Rajkumari[2], Kimberley Maloomian[5], Senbagavalli Babu[2], Pranay Sinha[1], Jerrold Ellner[6], Padmini Salgame[6], Subitha Lakshminarayanan[2], Natasha Hochberg[1]
[1]Boston Medical Center, Boston, MA, United States, [2]Jawaharlal Institute of Postgraduate Medical Education and Research, Puducherry, India, [3]Boston University School of Public Health, Boston, MA, United States, [4]Boston University, Boston, MA, United States, [5]Miriam Hospital, Providence, RI, United States, [6]Rutgers New Jersey Medical School, New Brunswick, NJ, United States

11:05 a.m **1389**

DEVELOPMENT AND PERFORMANCE OF AN EMERGENCY DEPARTMENT (ED)-BASED SYNDROMIC SURVEILLANCE PLATFORM IN PUERTO RICO TO PREDICT INCREASES IN COVID-19 COMMUNITY TRANSMISSION

Hannah R. Volkman[1], Laura E. Adams[1], Janice Perez-Padilla[1], Vanessa Rivera-Amill[2], Jorge Bertran-Pasarell[3], Diego Sainz de la Peña[3], Gabriela Paz-Bailey[1]
[1]Centers for Disease Control and Prevention, San Juan, Puerto Rico, [2]Ponce Health Sciences University / Ponce Research Institute, Centro Médico Episcopal San Lucas, Ponce, Puerto Rico, [3]Hospital Auxilio Mutuo, San Juan, Puerto Rico

11:15 a.m. 1390

COVID-19 INFLUENCE ON ANC ATTENDANCE IN NTCHEU AND NKHATA BAY DISTRICTS, MALAWI

Alinafe Chibwana[1], Julie R. Gutman[2], Jobiba Chinkhumba[1], John Munthali[3], Katherine Wright[3], Ethel Chilema[3], Don P. Mathanga[1], Suzanne Powell[2], Collins Kwizombe[4], Doreen Ali[5], Sosten Lankhulani[6], Michael Kayange[5], Fannie Kachale[5], **Shelby Cash**[2]
[1]University of Malawi College of Medicine, Blantyre, Malawi, [2]Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]Management Sciences for Health, Medford, MA, United States, [4]President's Malaria Initiative, United States Agency for International Development, Lilongwe, Malawi, [5]Ministry of Health, Lilongwe, Malawi, [6]National Malaria Control Programme, Lilongwe, Malawi

Symposium 134

Empiric Azithromycin for Children at High Risk of Diarrhea-Associated Mortality: Results of the Antibiotic for Children with Severe Diarrhea (ABCD) Trial

Meeting Room 5
Sunday, November 21
10:15 a.m. - Noon U.S. Eastern Time Zone

Despite dramatic reductions in childhood mortality during the past three decades, an estimated 5.3 million children died in 2017 before reaching their 5th birthday. The decline in under 5 deaths attributed to diarrhea has been particularly pronounced, from approximately 5 million in 1980 to 0.5 million in 2017, due in part to guidelines and availability of treatment for dehydration with ORS and/or IV fluids, administration of zinc, and feeding advice. Despite these successes, there remains a subset of children at very risk of death following a medically-attended diarrheal episode. Children who survive medically-attended diarrhea are also at increased risk of linear growth faltering, which can be deleterious to long-term health and development. Guidelines regarding the use of antibiotics for diarrhea are limited to children with dysentery or suspected cholera. Limiting to these indications may miss important bacterial etiologies of diarrhea, such as non-dysenteric Shigella, ST-ETEC, and typical EPEC; infections that may be particularly deleterious in children with underlying host vulnerabilities. Expanding the use of antibiotics in a subset of young children at high risk of poor outcomes may significantly reduce residual diarrhea-associated mortality and morbidity. It is also feasible that development of data-driven guidelines for the use of targeted empiric antibiotics may also lower antimicrobial resistance by reducing use of antibiotics for diarrhea in children for whom antibiotics show no benefit. In this symposium, comprised of short oral presentations and a panel discussion, we will present the results of the Antibiotic for Children with Severe Diarrhea (ABCD) trial (ClinicalTrials.gov NCT03130114). This trial aimed to determine the efficacy of an antibiotic (azithromycin), compared to placebo, in reducing risk of death and linear growth faltering in the six months following an episode of severe diarrhea.

CHAIR
Farah Qamar
Aga Khan University, Karachi, Pakistan
Mohammad Tahir Yousafzai
Aga Khan University, Karachi, Pakistan

10:15 a.m.
INTRODUCTION

10:25 a.m.
THE EFFECT OF AZITHROMYCIN ON CHILDHOOD MORTALITY AND LINEAR GROWTH

Naor Bar-Zeev
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

10:40 a.m.
THE EFFECT OF AZITHROMYCIN ON ANTIBIOTIC RESISTANCE IN TREATED CHILDREN AND THEIR CLOSE CONTACTS

Mohammod Jobayer Chisti
icddr,b, Dhaka, Bangladesh

10:55 a.m.
ETIOLOGY-SPECIFIC EFFECTS OF AZITHROMYCIN ON ACUTE WATERY DIARRHEA IN CHILDREN UNDER 2 YEARS IN LOW- AND MIDDLE-INCOME SETTINGS

Patricia B. Pavlinac
University of Washington, Seattle, WA, United States

11:10 a.m.
PROFILING CHILDREN AT HIGHEST RISK FOR POOR OUTCOMES IN THE 6 MONTHS FOLLOWING A DIARRHEAL EPISODE

Karim P. Manji
Muhimbili University of Health and Allied Sciences, Dar es Salaam, United Republic of Tanzania

Scientific Session 135

Mosquitoes: Molecular Genetics and Genomics

Meeting Room 6
Sunday, November 21
10:15 a.m. - Noon U.S. Eastern Time Zone

CHAIR
Igor V. Sharakhov
Virginia Tech, Blacksburg, VA, United States
Keun Chae
Texas A&M University, College Station, TX, United States

10:15 a.m. 1391

EVOLUTION OF PFS47 AND THE ADAPTATION OF ANCESTRAL *PLASMODIUM FALCIPARUM* TO VECTORS OF HUMAN MALARIA

Alvaro Molina-Cruz[1], Ankit Dwivedi[2], Gaspar E. Canepa[1], Weimin Liu[3], Nadia Raytselis[1], Beatrice Hahn[3], Joana C. Silva[4], Carolina Barillas-Mury[1]
[1]LMVR / NIAID / NIH, Rockville, MD, United States, [2]Institute for Genome Sciences, University of Maryland School of Medicine, Baltimore, MD, United States, [3]University of Pennsylvania, Philadelphia, PA, United States, [4]Institute for Genome Sciences, Department of Microbiology and Immunology, University of Maryland School of Medicine, Baltimore, MD, United States

10:25 a.m. 1392

ENGINEERING A BIODEGRADABLE TRANSGENE IN THE DENGUE MOSQUITO *AEDES AEGYPTI*

Keun Chae, Chanell Dawson, Collin Valentin, Kevin M. Myles, Zach N. Adelman
Texas A&M University, College Station, TX, United States

10:35 a.m. 1393

AN IMPROVED GENOME ASSEMBLY OF THE WEST NILE VIRUS CULEX QUINQUEFASCIATUS REVEALED NEW INSIGHTS INTO CHROMOSOME AND GENOME EVOLUTION IN MOSQUITOES

Sergei S. Ryazansky[1], Anasasia N. Naumenko[1], Varvara Lukyanchikova[2], Reem A. Masri[1], Ilya I. Brusentsov[3], Dmitry A. Karagodin[2], Zhijian Tu[1], **Maria V. Sharakhova**[1]
[1]Virginia Tech, Blacksburg, VA, United States, [2]Institute of Cytology and Genetics, Novosibirsk, Russian Federation, [3]Institute of Cytology and Genetics, Blacksburg, Russian Federation

10:45 a.m. 1394

EFFECTS OF DISRUPTED CIRCADIAN CLOCK ON *AEDES AEGYPTI* BEHAVIORS

Vinaya Shetty[1], Jacob I. Meyers[1], Ying Zhang[2], Christine Merlin[2], Michel A. Slotman[1]
[1]Department of Entomology, Texas A&M University, College Station, TX, United States, [2]Department of Biology, Texas A&M University, College Station, TX, United States

10:55 a.m. 1395

PRINCIPLES OF 3D GENOME ORGANIZATION IN MALARIA MOSQUITOES

Igor V. Sharakhov[1], Varvara Lukyanchikova[1], Miroslav Nuriddinov[2], Polina Belokopytova[2], Alena Taskina[2], Jiangtao Liang[1], Maarten J. Reijnders[3], Livio Ruzzante[3], Romain Feron[3], Robert M. Waterhouse[3], Zhijian Tu[1], Veniamin Fishman[2]
[1]Virginia Tech, Blacksburg, VA, United States, [2]Institute of Cytology and Genetics SB RAS, Novosibirsk, Russian Federation, [3]University of Lausanne, Lausanne, Switzerland

11:05 a.m. 1396

USE OF A NOVEL HIGH-THROUGHPUT INVERTEBRATE AUTOMATED PHENOTYPING PLATFORM (INVAPP) ASSAY TO SHOW THAT GAL4-UAS MEDIATED OVEREXPRESSION OF SINGLE GENES IN *ANOPHELES GAMBIAE* LARVAE CAN CONFER RESISTANCE TO MULTIPLE INSECTICIDES

Beth Crawford Poulton[1], Steven D. Buckingham[2], Amalia Anthousi[3], Fraser Colman[1], Gareth J. Lycett[1], David B. Sattelle[4]
[1]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [2]Queen Mary University of London, London, United Kingdom, [3]University of Crete, Heraklion, Greece, [4]University College London, London, United Kingdom

11:15 a.m. 1397

AN AMPLICON SEQUENCING PANEL ENABLES LOW-COST POPULATION GENETICS STUDIES IN *AEDES AEGYPTI*

I'ah Donovan-Banfield[1], Andrea Gloria-Soria[2], Jeffrey R. Powell[2], **Seth N. Redmond**[3]
[1]University of Liverpool, Liverpool, United Kingdom, [2]Yale University, New Haven, CT, United States, [3]Monash University, Clayton, Australia

Symposium 136

Implementing Malaria Chemoprevention Campaigns During the COVID-19 Pandemic

Meeting Room 7
Sunday, November 21
10:15 a.m. - Noon U.S. Eastern Time Zone

In sub-Saharan Africa, almost 70% of malaria deaths in 2018 occurred in children U5. The majority of childhood malarial disease and deaths occur during and immediately after the rainy season. Mass drug administration (MDA) are receiving increasing interest in the context of malaria elimination and, in emergency situations such as the Ebola epidemic in West Africa. MDA is the administration of a full dose of antimalarial treatment, irrespective of the knowledge of symptoms, to an entire population in a given area. Seasonal malaria chemoprevention (SMC), involving administration of a full course of malaria treatment to young children at monthly intervals during the high transmission season, is now included in the national strategic plan of many sub-Saharan countries. The ongoing COVID-19 pandemic is the most sustained, disruptive, and lethal infectious disease outbreak since the 1918 influenza pandemic. While reported case incidence of COVID-19 in Africa remains modest compared with many other regions, incidence in some areas is increasing rapidly. African countries are mounting a concerted public health response to limit COVID-19 morbidity and mortality. However, with acute health-system resource limitations there is potential for indirect mortality from preventable or treatable conditions such as malaria to increase dramatically as a result of the pandemic, jeopardizing recent gains. Speakers will present findings from four countries highlighting recent innovations to support malaria chemoprevention campaigns implemented during the pandemic. Important findings and lessons learned will be presented on safely implementing SMC in Nigeria, the joint implementation of SMC and nutrition screening in Niger, adapting recent SMC implementation innovations in Senegal, and delivering malaria MDAs to displaced populations in Mozambique. Finally, a moderated discussion on the key similarities and differences between the four studies will making recommendations for future malaria chemoprevention campaigns during a pandemic situation. The first topic will explore results from a mixed methods study in two states in Nigeria to assess the quality of infection prevention and control measures practiced during delivery of SMC. Topic 2 will focus on the integration of SMC and malnutrition screening in Niger prior and during the COVID-19 pandemic, analysis of routine data collection since 2016. Topic 3 will discuss implementing Directly Observed Treatments for Three days (DOTS3) for SMC during the COVID-19 pandemic in Senegal. Lastly, Topic 4 will explore the results from a malaria MDA amongst displaced populations in Cabo Delgado province in Mozambique. For the moderated discussion, co-chairs will lead interactive discussion on the implications of the presentations on future malaria chemoprevention campaigns.

CHAIR

Kevin Baker
Malaria Consortium, London, United Kingdom

10:15 a.m.
INTRODUCTION

10:25 a.m.
RESULTS FROM A MIXED METHODS STUDY IN TWO STATES IN NIGERIA TO ASSESS THE QUALITY OF INFECTION PREVENTION AND CONTROL MEASURES PRACTICED DURING DELIVERY OF SMC

Abimbola Phillips
Malaria Consortium, Abuja, Nigeria

10:45 a.m.
INTEGRATION OF SMC AND MALNUTRITION SCREENING IN NIGER, PRIOR TO AND DURING THE COVID-19 PANDEMIC, ANALYSIS OF ROUTINE DATA COLLECTED SINCE 2016

Assane Kano
Catholic Relief Services, Niamey, Niger

11:05 a.m.
IMPLEMENTING DIRECTLY OBSERVED TREATMENTS FOR THREE DAYS (DOTS3) FOR SMC DURING THE COVID-19 PANDEMIC IN SENEGAL

Seynabou Gaye
Programme National de Lutte contre le Paludisme (PNLP), Dakar, Senegal

11:25 a.m.
RESULTS FROM A MALARIA MDA AMONGST DISPLACED POPULATIONS IN CABO DELGADO PROVINCE IN MOZAMBIQUE

Pedro C. Aide
Manhica Health Research Center (CISM), Maputo, Mozambique

Symposium 137

The Future and Quality of Clinical Parasitology

Meeting Room 8
Sunday, November 21
10:15 a.m. - Noon U.S. Eastern Time Zone

For some time, parasite diagnostics have lagged behind those for bacteria and viruses, not least because most parasitic diseases are found in resource-poor settings where empirical treatment is frequently offered. In non-endemic areas, expertise in classical, morphology-based Parasitology is confined to specialist centers with limited activity in general hospitals. Thus, the need for robust, reproducible and reliable diagnostic parasitology remains essential. Furthermore, there is an increasing need for quality management of diagnostic methods to ensure good patient care. The panel of this proposed symposium includes expert Parasitologists with additional unique knowhow in the field of quality management of diagnostic parasitology. In addition, the speakers on the panel run or manage Clinical Parasitology laboratories in endemic or non-endemic settings. Therefore, the panel is highly qualified to discuss the current status, shortfalls and next steps to enhance quality in parasite diagnostics. The symposium has 4 speakers and 2 chairs who will be able to cover parasite diagnostics and EQA within the UK, USA, India, France and Australia. The speakers will share their experiences and findings from regions that differ in demography, economic status and endemicity. The panel will be chaired by Prof Peter L. Chiodini and Dr. Jaya Shrivastava who run the EQA schemes for diagnostic Parasitology in the UK and are strong advocates for and supporters of development of parasitology EQA schemes in general and especially in low and middle-income countries. The first speaker will be Professor Pritt who will talk about the current status of clinical parasitology in the USA whilst highlighting some of the areas where laboratories do well or have challenges. The second speaker will be Professor Ajjampur who will discuss the penetration of international EQA programs within India and examine their impact on enhancing quality of diagnosis. The third speaker will be Professor Pelloux who will describe the parasitology-mycology service/laboratory in a French university hospital. He will discuss the strengths and weaknesses of clinical parasitology in France, both within hospital and university settings. The final speaker will be Professor McCarthy who is a leading Australian clinical parasitologist. He will discuss the availability and delivery of parasitology diagnostic and clinical services within Australia including workforce training, emerging trends in clinical issues plus the basic and applied research landscape. The talks will be followed by a panel discussion on the need for, and possible structure of, an International Federation of Parasitology EQA Providers.

CHAIR

Jaya England
Public Health England, London, United Kingdom

Peter L. Chiodini
Hospital for Tropical Diseases, London, United Kingdom

10:15 a.m.
INTRODUCTION

10:25 a.m.
WHAT IS A CLINICAL PARASITOLOGY SERVICE AND WHAT DOES IT CONTRIBUTE? A VIEW FROM THE USA

Bobbi Pritt
Mayo Clinic, Rochester, MN, United States

10:45 a.m.
CLINICAL PARASITOLOGY SERVICES IN INDIA: ACCESS AND AFFORDABILITY FOR THE MASSES

Sitara S. Ajjampur
Christian Medical College and Hospital, Vellore,Tamil nadu,India, Tamil nadu, India

11:05 a.m.
WHAT IS A CLINICAL PARASITOLOGY AND MYCOLOGY SERVICE IN A FRENCH UNIVERSITY HOSPITAL AND WHAT IS IT USEFUL FOR?

Herve Pelloux
Institut de Biologie et de Pathologie, Grenoble, France

11:25 a.m.
THE FUTURE AND QUALITY OF CLINICAL PARASITOLOGY: A VIEW FROM AUSTRALIA

James S. McCarthy
QIMR Berghofer Medical Research Institute, Herston, Australia

Symposium 138

Role of Animal-Based Food Supply Chains in Pathogen Exposure and Enteric Disease for Children in Sub-Saharan Africa

Meeting Room 9
Sunday, November 21
10:15 a.m. – Noon U.S. Eastern Time Zone

Animal-derived meat and dairy food products are important pathways for transmission of enteric pathogens between food production animals and humans in countries across the globe. Foodborne outbreaks from milk, meat, or produce contaminated with animal feces containing Escherichia coli 0157:H7, Salmonella enterica, Shigella sonnei, Campylobacter jejuni, and Listeria monocytogenes, occur periodically in high income countries with established food safety, surveillance, and response systems. Far less is known about the frequency of foodborne outbreaks in low and middle income countries (LMICs) and the effectiveness of existing food regulatory policies designed to ensure food safety. Animal-based food products have also been identified as a risk for emergence of zoonotic pathogens that are resistant to antibiotics that are used in food production, but that are also deemed critical therapeutics for managing human infections. Knowledge on how best to prevent foodborne zoonotic outbreaks in LMICs is hampered by a lack of food safety and surveillance data on suspected outbreaks, as well as by the complexity in the sourcing, distribution, and storage of foods. Furthermore, post-purchasing handling of food by consumers may mitigate contamination risks, as in the case of boiling food, or increase contamination through unclean hands and food storage. This symposium will open with a summary of the evidence to date on linkages between food supply chains and human health. This will be followed by three talks presenting data from studies that are investigating enteric and antimicrobial resistant bacteria transmission patterns from the food supply through exposure and detection in the guts of children in Kenya, Mozambique, and Ethiopia. The pathogens discussed across studies represent different types of high priority foodborne bacteria, including Campylobacter spp., Salmonella enterica, and Shiga toxin expressing Escherichia coli 0157, as well as characterize antibiotic resistance traits of some pathogens. We will conclude with a short panel discussion on priority actions for controlling foodborne disease in Africa.

CHAIR

Kelly K. Baker
University of Iowa, Iowa City, IA, United States

Karen Levy
University of Washington, Seattle, WA, United States

10:15 a.m.
INTRODUCTION

10:25 a.m.
OVERVIEW OF THE ROLE OF FOOD VALUE CHAINS AS A PATHWAY FOR INFECTIOUS DISEASE SPREAD IN URBANIZING AFRICAN ECONOMIES

Eric Fevre
University of Liverpool and International Livestock Research Institute, Nairobi, Kenya

10:50 a.m.
CHEEP CHEEP: THE ROLE OF THE INFORMAL CHICKEN VALUE CHAIN ON CHILD GUT HEALTH IN MAPUTO, MOZAMBIQUE

Frederica Lamar
Emory University, Atlanta, GA, United States

11:15 a.m.
SALMONELLA AND E. COLI O157 ALONG BEEF SUPPLY CHAIN IN BISHOFTU, ETHIOPIA: LINKAGE WITH DIARRHEAL ILLNESS IN PEOPLE

Fanta D. Gutema
Addis Ababa University and University of Ghent, Addis Adaba, Ethiopia

11:40 a.m.
MARKET TO MOUTH: THE ROLE OF COW MILK PRODUCTS VERSUS HOUSEHOLD FOOD HYGIENE BEHAVIORS IN THE DETECTION OF ENTERIC PATHOGENS AND ANTIMICROBIAL RESISTANCE GENES IN INFANTS AND INFANT FOODS IN URBAN KENYA

Kelly K. Baker
University of Iowa, Iowa City, IA, United States

Symposium 139

Fostering a Data-Driven Approach to Strengthen Program Planning and Implementation for the Control and Elimination of Neglected Tropical Diseases

Meeting Room 10
Sunday, November 21
10:15 a.m. - Noon U.S. Eastern Time Zone

Neglected Tropical Diseases (NTDs) affect more than 1 billion people worldwide, and have a disproportionate impact on the most vulnerable communities. Over the last decade, efforts towards controlling, eliminating, and eradicating NTDs with support from the global community, have gained significant momentum. Strategies relying on preventive chemotherapy mostly implemented as mass drug administration campaigns (MDA) and integrated disease management have led to considerable progress, with more than 1 billion people receiving treatment in 2018, and an increasing number of countries getting closer to elimination or eradication targets. Despite this progress, sustaining efforts remains a challenge, particularly since the onset of the COVID-19 pandemic, as many countries have had to cancel or postpone their MDA campaigns. For effective country strategies where interventions are targeted to places and populations at highest risk, NTD programs need to rely on accurate disease intelligence. There are however significant challenges that prevent programs from using reliable evidence for decision making. For

example, epidemiological surveys which is the primary source of case information are not conducted frequently. Routine case management data or intervention data are not reported on a timely basis at the level of spatial disaggregation needed to inform decisions. Case, intervention, vector, and survey data are collected by multiple partners, reported in parallel systems, and not interpreted together. The limited access to high quality information and lack of data integration limits visualization, review, and interpretation of NTD information. Along with the limited use of advanced analytics products such as modelling or risk mapping, such challenges can prevent the use of information by NTD programs to better target MDA campaigns or surveys, understand the impact of interventions, or assess the true burden of diseases. This symposium will present perspectives from country NTD programs and their partners on how they address these data challenges and the progress towards using quality and timely information for program planning and implementation. An initial presentation will cover gaps that remain in the effective use of data, identified during recent scoping exercises in select countries in Sub-Saharan Africa and the Americas. The second talk will focus on the ESPEN regional initiative to promote data sharing and foster data use culture among NTD programs in sub-Saharan Africa. Finally, the Kenya NTD program will present their efforts to address data quality challenges during an MDA campaign for Schistosomiasis, while the NTD program in India will focus on the challenges in States preparedness for MDA campaigns for Lymphatic Filariasis.

CHAIR

Arnaud Le Menach
Clinton Health Access Initiative, Boston, MA, United States

Jorge Cano
WHO Regional Office for Africa, Brazzaville, Republic of the Congo

10:15 a.m
INTRODUCTION

10:25 a.m.
OPPORTUNITIES FOR STRENGTHENING NTD SURVEILLANCE SYSTEMS: ASSESSMENT OF EXISTING DATA SYSTEMS IN AFRICA AND MESOAMERICA

Sameen Babur
Clinton Health Access Initiative, Boston, MA, United States

10:45 a.m.
PROGRESS TOWARDS TO THE USE OF DATA FOR THE CONTROL AND ELIMINATION OF NTDS AND REMAINING CHALLENGES IN SUB-SAHARAN AFRICA

Jorge Cano
WHO Regional Office for Africa, Brazzaville, Republic of the Congo

11:05 a.m.
ADDRESSING CHALLENGES IN QUALITY AND TIMELINESS OF NTD DATA: EXPERIENCES FROM PILOTING A DATA-DRIVEN APPROACH FOR SCHISTOSOMIASIS MDA CAMPAIGN IN KENYA

Sultani Hadley Matendechero
Division of Vector Borne and Neglected Tropical Diseases and National NTD Program Manager at the Ministry of Health, Nairobi, Kenya

11:25 a.m.
ADDRESSING CHALLENGES IN STATES PREPAREDNESS FOR MASS DRUG ADMINISTRATION (MDA) CAMPAIGNS FOR LYMPHATIC FILARIASIS IN INDIA THROUGH ROUTINE AVAILABILITY OF HIGH-QUALITY DASHBOARDS AND AUTOMATED PLANNING TOOL FOR ACTIONABLE RESPONSE

Neeraj Dhingra
Department and Programme at National Vector Borne Disease Control Programme (NVBDCP), at Ministry of Health and Family Welfare, Delhi, India

Symposium 140

Eliminating Malaria in the Guiana Shield during COVID-19 Times: How Can We Accelerate It?

Meeting Room 11
Sunday, November 21
10:15 a.m. - Noon U.S. Eastern Time Zone

Malaria has been a public health problem in the Americas region, especially in the Guiana Shield (GS) where most malaria cases of the continent occur. The GS subregion includes Guyana, Suriname, French Guyana, southern Venezuela, as well as parts of Colombia, and Brazil. This subregion is rich in industrial minerals and shares similar types of geography, populations, and one of the highest biodiversity in the world. Malaria transmission is heterogeneous with indigenous, mobile and migrant groups as the main key affected population. There have been significant changes, particularly in the last 10 years, with countries with areas in both extremes of the malaria transmission spectrum (malaria-free/elimination to high transmission). Most national malaria control programs are robust, utilizing highly technical skills and strategic information for action and with a strong political will towards the elimination target. There has been excellent progress towards malaria elimination with Suriname included in the E-2020 initiative as having the potential to achieve interruption of the transmission of malaria. In contrast, Venezuela has the biggest resurgence of malaria in the western hemisphere. Multidrug resistance *Plasmodium falciparum* is considered a thread; vivax malaria elimination remains a major challenge in remote areas. This talk will discuss the reasons progress has stalled/worsened in some countries and will emphasize the need for innovative approaches to malaria control and elimination. This symposium will discuss how malaria elimination can be accelerated and what new approaches may be utilized in the GS subregion. This symposium's speakers come from a wide range of disciplines including medicine, pharmacology, tropical & infectious diseases, entomology, public health, and demography. All speakers are senior experts involved in the malaria elimination efforts in the Guiana Shield.

CHAIR

Leopoldo C. Villegas
ASOCIS, Tumeremo, Estado Bolivar, Bolivarian Republic of Venezuela

Helene Hiwat
Ministry of Health Suriname, Paramaribo, Suriname

10:15 a.m.
INTRODUCTION

10:25 a.m.
CHALLENGES IN MALARIA ELIMINATION: THE BRAZILIAN PERSPECTIVE.
Paola B. Marchesini
Ministry of Health, BRASILIA, Brazil

10:40 a.m.
HETEROGENEOUS MALARIA TRANSMISSION AND MINING: LESSONS LEARNED IN GUYANA
Horace Cox
Ministry of Health, Georgetown, Guyana

10:55 a.m.
MALARIA ELIMINATION EFFORTS IN FRENCH GUIANA
Lise Musset
Intitut Pasteur de la Guyane, Cayenne cedex, French Guiana

11:10 a.m.
MALARIA ELIMINATION IN SURINAME: THE LAST MILE.
Helene Hiwat
Ministry of Health Suriname, Paramaribo, Suriname

ASTMH 2021 ANNUAL MEETING ADJOURNS
Sunday, November 21
Noon U.S. Eastern Time Zone

SEE YOU NEXT YEAR AT THE 2022 ANNUAL MEETING!
October 30 - November 3, 2022 (Sunday through Thursday)
Washington State Convention Center
Seattle, Washington, United States

Presenter Index I:
Plenary, Symposium, Career Chats and Special Sessions (Speakers and Session Chairs)

The number(s) following each individual's name indicates the session number.

See page 288 for the list of abstract authors of abstracts presented during Scientific Sessions and Poster Sessions.

A

Addiss, David 17
Adu-Krow, William 64
Agudelo Higuita, Nelson 79
Agudelo Restrepo, Carlos 79
Aguiar, Caroline 102
Aguilar, Patricia 21, 89
Ahiya, Avantika 73
Ahmed, Tahmeed 123
Aide, Pedro 136
Aiemjoy, Kristen 70
Ajjampur, Sitara 137
Akhmetzhanov, Andrei 74
Alarcon, Rodolfo 89
Alger, Jackeline 104
Ali, Mohammad 81
Allan, Vajra 109
Alonso, Pedro 57
Anscombe, Catherine 109
Ansdell, Vernon 82
Arnold, Kaylee 34
Asemanyi-Mensah, Kofi 80
Asiedu, Kingsley 68
Attardo, Geoffrey 34
Awor, Phyllis 7

B

Ba Fall, Fatou 119
Babur, Sameen 139
Badiane, Aida 119
Baker, Kelly 138
Baker, Kevin 136
Bancone, Germana 130
Bardosh, Kevin 38
Bartholomay, Lyric 23
Bar-Zeev, Naor 134
Bausch, Daniel 46
Bawa, John Tanko 76
Bei, Amy Career Chats II
Berry, Andrea 25
Bett, Bernard 129
Bever, Caitlin 119
Bhargava, Anurag 90
Birkett, Ashley 33
Blauwkamp, James 73
Bloom, Marshal 89
Blue, Gwendolyn 38
Boko-Collins, Pelagie 118
Borbor, Mercy 111
Borbor-Cordova, Mercy 38
Bottazzi, Maria Elena 40
Brady, Molly 45
Bratton, Shelly 120
Brault, Aaron 89
Bravo, Francisco 29
Brooks, Alan 94
Brunn, Ariel 129
Bruno, Fernando 64
Bryan, Joe 79
Buezo Montero, Sara 23
Buj, Valentina 7
Bustinduy, Amaya 107
Byrne, Isabel 98, 129

C

Camara, Alioune 70
Canepa, Mariela 37
Cano, Jorge 139
Cardinal, M. Victoria 78
Carroll, Dennis 75
Castillo-Neyra, Ricardo 98
Chabi, Joseph 12
Chailloux, Alexandre 2
Challenger, Joseph 43
Chan, Kallista 129
Chávez-López, Maria de Guadalupe 68
Chen, Lin 41
Chiodini, Peter 137
Chisti, Mohammod Jobayer 134
Christensen, Bruce 23
Christofferson, Rebecca 21
Chu, Cindy 130
Chu, May 63
Clarke, Sian 93
Collins, Jim 62
Collins, Katharine 43
Commons, Robert 27
Conron, Emily 42
Cossa, Odete 35
Cowie, Robert 82
Cox, Horace 140
Cramer, Jakob 117
Currier, Jeffrey 25

D

Daba, Mekdes 37
Daily, Johanna Moving Back Home: Finding and Funding the Dream
Daszak, Peter 32
Debela, Melaku 80
del Portillo, Hernando 33
Dembelé, Laurent 102
Deme, Awa 119
Denno, Donna 123
Desruisseaux, Mahalia 73
Devine, Angela 27
Dhingra, Neeraj 139
Diawara, Halimatou 52
Dicko, Alassane 52
Dittrich, Sabine Career Chats IV
Dolo, Housseini 106
Dorkenoo, Monique 45
Douam, Florian 40
Doumbia, Seydou 104
Downs, Philip 118
Draper, Simon 33
Duffey, Maëlle 102
Duffy, Patrick 52
Dumonteil, Eric 78
Duraisingh, Manoj 73
Dye-Braumuller, Kyndall 23

E

Ebene, Blandine Clarisse 118
Eckert, Erin 86
Edmiston, Melissa 45
Ehrlich, Hanna 38, Career Chats I, Career Chats II, Career Chats III, Career Chats IV
England, Jaya 137
Epée, Emillienne 45
Evarestus, Lilibeth 81

F

Fagbami, Lola 73
Fall, Mawo 86
Faramand, Taroub 100
Fasina, Abiola Moving Back Home: Finding and Funding the Dream
Fawzi, Wafaie 90
Ferdig, Mike 113
Fernandez, María del Pilar 78
Fernando, Sachini 63
Fevre, Eric 138
Fidock, David 113
Flannery, Erica Career Chats III
Flannery, Erika 31
Fleming, Fiona 107
Flerida Pasaje, Charisse 113
Floyd, Jessica 98
Franssen, Susanne 83
Freedman, David 13
Fried, Michal 52
Fung, Isaac Chun-Hai 74
Furrer, Eliane 76

G

Gadarowski, Mary Beth 40
Garba Djirmay, Amadou 47
Garrett, Denise 70
Gaye, Seynabou 136
Gbalegba, Constant 12
Gebhardt, Mary 34
Gerberg, Lilia 12
Ghambi, Akuzike Zingani 107
Ghanci, Najia 130
Ghebreyesus, Tedros Adhanom 1
Gitari, Eric 53
Goraleski, Karen 42, 64, 115
Gosling, Roly 93
Gower, Emily 2
Graham, Barney 13
Grillet, María 57
Guerrant, Richard 90
Gupta, Swati 117
Gutema, Fanta 138
Gutman, Julie 37, 125
Gyapong, Margaret 47, 76

H

Hamainza, Busiku 28
Hamel, Mary 76
Hamer, Gabriel 23
Hamer, Sarah 34
Hanley, Kathryn 32
Hanson, Christy 92
Harichandra, Hiruni 63
Hay, Roderick 68
Healy, Sara 43
Helfrich, Alison 41
Henao, Olga 120
Henostroza, German 18, 29
Henshaw, Mandi 117
Hertz, Gideon 42
Hill, Jenny 125
Hiwat, Helene 140
Hochberg, Natasha 90
Hoerauf, Achim 92
Hsieh, Michael 62
Hume, Jennifer 43
Humphries, Debbie 90

I

Iqbal, Najeeha 123
Ishengoma, Deus Career Chats II

J

Jacobson, Julie 1, 16, 37, 42, 47, 57, 94
Jalang'o, Rose 76
Jamet, Helen 28
Jeronimo, Selma 83
Joseph, Priya 18
Joshi, Dev 109
Jumbam, Desmond 17

K

Kabore, Achille 106
Kah Fosah Achu, Dorothy 93
Kakuru, Abel 125
Kalu, Akpaka 86
Kalua, Khumbo 2
Kamya, Deus 63
Kano, Assane 136
Karema, Corine 57
Katile, Abdoulaye 43
Kelly, Paul 123
Kester, Kent 115
Khatib, Aisha 29
Khilji, Sara Moving Back Home: Finding and Funding the Dream
King, Charles 107
Kirby, Matthew 12
Koita, Ousmane 104
Kökény, Mihály 64
Kolaczinski, Jan 39
Kolker, Jimmy 75
Kraay, Alicia 74
Kramer, Laura 32
Krentel, Alison 47
Kreutzfeld, Oriana 102
Kuppalli, Krutika Career Chats II
Kushwaha, Anurag 83
Kwakye-Nuako, Godwin 83
Kyle, Dennis 31

L

LaBeaud, A. Desiree 21, 38
Lamar, Frederica 138
Lamb, Molly 63
Lana, Justin 98
Le Menach, Arnaud 139
Leaf, Alison Career Chats I
Lee, Marcus 113
Lee Sim, B. Kim 33
Legua, Pedro 18
Lengeler, Christian 7
Leonard, Elizabeth 44
Levens, Joshua 75
Levi, José 79
Levy, Karen 138
Ley, Benedikt 130
Lopez, Job 34
Lowe, Rachel 111
Lu, Diana 100
Luna, Expedito 70
Lupone, Tina 40
Lynd, Amy 12

M

MacInnis, Bronwyn Career Chats I, Career Chats II, Career Chats III, Career Chats IV
Madanitsa, Mwayiwawo 125
Madikizela, Lindiwe 44
Mahfuz, Mustafa 123
Mahon, Roche 111
Maldonado-Ruiz, Paulina 23
Malm, Keziah 39
Maloba, Franklin 73
Manji, Karim 134
Manrique, Edgar 129
Marchesini, Paola 140
Marie, Chelsea 123
Marinissen, Maria Julia Career Chats IV
Martin, Gregory 41
Mascaro, Jennifer 17
Massangaje, Marilia 2
Matendechero, Sultani Hadley 139
Mathanga, Don 76
Mauricio de Rezende, Izabela 32
Mayer, Johannes 62
Mbabazi, Pamela Sabina 37
McCarthy, James 137
McNeill, J. R. 38
McPherson, Scott 2
Meite, Aboulaye 106
Menendez, Clara 35, 93
Meschke, John 109
Messenger, Louisa 78
Miller, Matthew 25
Miura, Kazutoyo 43
Mnzava, Abraham 39
Modisenyane, Moeketsi 44
Mok, Sachel 113
Moncada Navas, Wendy 79
Mondy, Mathias 28
Moonasar, Patrick 44
Moses, Fabu 75
Muñoz, Angel 111
Musset, Lise 140
Mvundura, Mercy 109
Mwanzi, Luseka 100
Mwesigwa, Betty 70
Mwingira, Upendo 86
Mwinzi, Pauline 107
Mwita, Stella 100

Presenter Index I:
Plenary, Symposium, Career Chats and Special Sessions (Speakers and Session Chairs)

The number(s) following each individual's name indicates the session number.

See page 288 for the list of abstract authors of abstracts presented during Scientific Sessions and Poster Sessions.

N

Nanri, Takahiro 81
Napier, Harriet 7
Neighbors, Coralei 75
Ngou, Olivia 75
Nielsen, Morten 52
Nisar, M. 109
Njako, Blasdus 81
Nkengasong, John 117
Nogueira, Mauricio 70
Norris, Douglas 23, 34
Nutman, Thomas 82
Nwankwo, Ogonna 35
Nwosu, Christian 118

O

Oberhelman, Richard 104
Ochomo, Eric 28
Odiere, Maurice 107
Ofori, Sylvia 74
Ogoussan, Kisito 108
Okoronkwo, Chukwu 86
Olayinka, Adebola 117
Omoluabi, Elizabeth 7
Onuoha, Herbert 35
Opare, Joseph 47
Opoku, Nicholas 92
Oresanya, Olusola 93
Ospina, Marta Lucia 120

P

Palmer, Stephanie 45
Pan, William 111
Panjabi, Rajesh 57
Panosian Dunavan, Claire 82
Pantelias, Anastasia 86
Pappa, Sara 100
Pavlinac, Patricia 134
Pavluck, Alex 2
Pelloux, Herve 137
Pemmaraju, Venkata Rangadhara Rao 81
Pennington, Pamela 78
Penny, Melissa 76
Pesce, John 31
Petersen, Christy 1
Petersen, Kyle 41
Phillips, Abimbola 136
Pillay, Yogan 44
Pitotti, Melissa 17
Poespoprodjo, Jeanne Rini 27
Poteat, Tonia 53
Price, Ric 27
Pritt, Bobbi 137

Q

Qamar, Farah 134

R

Rabinovich, Regina 33
Ramakrishnan, Lalita 62
Ramsauer, Katrin 117
Reina Ortiz, Miguel 64
Riddle, Mark 41
Riolexus Ario, Alex 120
Robertson, Molly 39
Roesch, Camille 102
Rogawski, Elizabeth 90
Roh, Michelle 125
Rohr, Jason Career Chats I
Roman, Elaine 35
Rosenthal, Philip 102

S

Saare, Judith 106, 108
Sacchetto, Livia 32
Sagara, Issaka 43
Saibu, Andrew 39
Sakho, Fatoumata 118
Samo Gudo, Eduardo 120
Sanders, John 41
Schellenberg, David 93
Schirvar, Gabriel 53
Schwarte, Silvia 7, 35
Secundino, Nágila 34
Sevinsky, Joel Career Chats III
Sherard-Smith, Ellie 12, 39
Signorell, Aita 7
Silal, Sheetal 44
Silumbe, Kafula 28
Sinha, Pranay 90
Smith, Penny 108
Sonnie, Mustafa 80
Specht, Sabine 92
Spiropoulou, Christina 89
Spring, Michele 57
Srivastava, Leena Career Chats I
Steinberg, Hannah Career Chats I, Career Chats II, Career Chats III, Career Chats IV
Steketee, Richard 119
Stewart Ibarra, Anna 111
Stolk, Wilma 106
Stukel, Diana 80
Sturm-Ramirez, Katharine 0
Sullivan, Mark 92
Sultana, Farhana 63
Sultana, Rebeca 70
Sultani, Hadley 108
Sunkara, Gangadhar 81
Suvorova, Elena 31
Syed, Shamsuzzoha 17

T

Tajudeen, Raji 120
Talhari, Carolina 29
Talhari, Sinesio 18
Tariq, Amna 74
Tarleton, Rick 31
ter Kuile, Feiko 125
Thangamani, Saravanan 89
Thapa, Lila Bikram 100
Thomas, Mary 29
Thriemer, Kamala 27
Thwing, Julie 119
Tinto, Halidou 33
Torres, Irene Career Chats I
Traore, Lamine 45
Traore, Mohamed 28
Traoré-Ettiegne, Virginie 108
Trout-Fryxell, Becky 34
Tshefu, Antoinette 7

V

van de Sande, Wendy 68
Vanloubbeeck, Yannick Career Chats III
Vasilakis, Nikos 21
Vaughan, Ashley 113
Vayaraj, Vivek Jason 63
Vermeersch, An 76
Villegas, Leopoldo 140
Vinkeles Melchers, Natalie 106
Vogt, Megan 40
Vu, David 53

W

Waickman, Adam 25
Walensky, Rochelle 16
Walker, James 27
Walker, Kathleen 117
Waltz, Johannes 108
Watson, James 130
Weaver, Angela 118
Weckman, Andrea 53
Weil, Gary 92
Weitzel, Thomas 41
Weldon, Caroline 32
Welkhoff, Philip 57
Wiegand, Ryan 107
Williams, Adeline ACAV/ACME Networking Event
Wilmore, Joel 25
Wilson, Mary 83
Wilson-Aggarwal, Jared 98
Winasti Satyagraha, Ari 130
Wong, Felicia 37
Woods, Christopher 75
Wylie, Blair 52

Y

Yerbanga, Rakiswendé 43
Yotsu, Rie 81
Yousafzai, Mohammad Tahir 134
Yun, Heather 40

Z

Zamanian, Mostafa 62
Zijlstra, Eduard 68

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 286 for the list of speakers and session chairs in Plenary and Symposium Sessions.

A

Aanensen, David 0425
Aanyu, Helen 0029
Aaron, Sijenunu 0230, 0709
Abanto, Caroline 0234, 0235
Abas, Ferid 0961
Abate, Ebba 0201
Abatiyow, Biley A. 0460, 0924, 1069
Abayateye, Raphael 0836
Abbas, Faiza 0565, 0658
Abbas, Faiza B. 0320, 0663
Abbott, Andrew 0352
Abdalal, Shaymaa 1123
Abdalal, Shaymaa A. 0243, 0647
Abdalla, Zeinab 1211
Abedelkrim, Yosser Zina 0377
Abd El Wahed, Ahmed 0379
Abdoulaye Daouda, Fatouma 0997
Abdrabou, Wael 0913
Abdulla, Salim 0293, 1118, 1215
Abdullah, Abu Yousuf Md 0941, 0950
Abdulrahman, Ibrahim 1190
Abdul Razzak, Safina 0832
Abdul Taib, Nur Asheila 0167
Abebe, Wondwossen 1203
Abebe, Yonas 0295, 0301
Abed Al Ahad, Mary 0427, 0428
Abedin, Jaynal 0389
Abel, Lucy 0408, 0650, 0657, 0659, 1125
Abel, Steven 0457
Abente, Eugenio J. 1350
Abeso, Cristantos Nsue 1094
Abiayi, David A. 0173
Abikoye, Olatayo 1081
Abimiku, Alash'le 0022, 1348
Abiodun, Wisdom O. 1063
Abkallo, Hussein M. 0191
Aboagye, Jeremy 1164
Abogan, Ayokunle 0843
Abolarin, Olatunbosun 0104, 0106
Abraham, David 0485, 0486
Abreu, Kellyanne 1020
Absalon, S 1402
Absalon, Sabrina 0458
Abubakar, Ado 0101, 0921
Abubakar, Ado G. 1322
Abubakar, Ibrahim 1348
Abubakar, Sazaly 0539
Abubakar, Suraj Yawnumah 0788
Abwaimo, Francis 0206, 0664
Accrombessi, Manfred 0225, 0547
Achan, Beatrice 0385
Achan, Jane 0029, 0103, 0928, 1142
Achatz, Tyler 1018
Achee, Nicole L. 0971, 1179, 1350
Achu, Dorothy 0184, 0209, 0263, 0717, 0718
Achugbu, Chimaoge 0101, 1322
Achur, Rajeshwara N 1053
Ackaert, Oliver 0582, 1291
Acosta, Jacqueline 0590
Acosta, Maria Eugenia 0164
Acosta-Serrano, Alvaro 0752
Acuna-Villaorduna, Carlos 1342
Adame-Gallegos, Jaime R. 0177, 0535
Adams, Cameron 1316
Adams, Camille 0100, 0276, 1161
Adams, John H. 0247
Adams, Laura E. 0026, 0966, 1023, 1024, 1256, 1389
Adams, Lily E. 1021
Adams, Mark 0471
Adams, Matthew 0253, 0255, 0681
Adamu, Mughi 0443
Adcock, Kayla 0871
Addison, Thomas 0682
Addo, Seth Offei 0114
Adeaga, Dorcas O. 0865
Adebajo, Sylvia 0022
Adebayo, Victor 1081
Adeboyejo, Elizabeth 0101
Adedeji, Adeyinka 0800
Adekanmbi, Olukemi 0329
Adelamo, Solomon 0432
Adeleke, Elizabeth 1148
Adeleke, Monsuru A. 0793
Adelman, Zach N. 1392
Adenaiye, Oluwasanmi 0615
Adeniji, Moyinoluwa 0006
Adenis, Antoine 0840
Adeogun, Adedapo 0310, 1190, 1194
Adesakin, Damola 1130
Adetiloye, Oniyire 0070, 0074, 0916
Adewale, Folayan W. 0916
Adewole, Adefisoye O. 0728, 1280
Adeyemo, Oluwatosin 1153, 1154
Adhanom, Mussie 0810
Adhikari, Prabhat 0905
Adhikari, Rakesh 1337
Adigun, Abass B. 0865
Adil Mahmoud Yousif, Nessma 0948
Adinarayanan, Srividya 0354
Adjei, Samuel 0417
Adjobimey, Tomabu 0045
Adjogoua, Valery E. 1034
Adoha, Constantin J. 0547
Adoke, Yeka 1065
Adomako, Boakye-Yiadom 1145
Adomako, Kofi 0718
Adriko, Moses 0396
Adu, Bright 0327, 1160
Adu, George 1145
Adu-Bonsaffoh, Kwame 0682
Aduda, Annette 0427, 0428
Adu-Sarkodie, Yaw 0033
Afework, Solomon 1240
Affonso Fonseca, Fernando L. 1088
Afolabi, Muhammed O. 1269
Afrane, Yaw 0748, 0883, 1093
Afrane, Yaw A. 0552, 0742
Afulukwe, Stella C. 0227
Afzal, Osama 0067
Agala, Ndidi 0022, 0101, 1322, 1348
Agampodi, Suneth 1206
Agaya, Janet 0392
Agbanouvi-Agassi, Edoh Eddie 0794
Agbenyega, Tsiri 0417
Agbevo, Abel 1181
Agbla, Schadrac C. 1269
Agbodzi, Bright 0152, 1205
Agha, Sohail 0495
Agnew-Francis, Kylie 0109, 0477
Agola, Gladys 0095, 0144, 0181, 0207, 1006
Aguilar, Hector 0469
Agunyo, Stella 0036, 0918
Aguolo, Obianuju G. 0809
Aguolu, Obianuju 0972
Agusi, Ebere R. 0800
Agyemang-Yeboah, Francis 0138
Ahamed, Aziz 0078
Ahhmed, Maimuna 0219
Ahiya, Avantika I. 0018
Ahmad, Riris A. 0932, 1319
Ahmad, Riris Andono 1159
Ahmad, Zubair 0347
Ahmed, Amel O. A.. 1052
Ahmed, Golam Bashir 0859
Ahmed, Jehan 0628
Ahmed, Kumail 0347
Ahmed, Mohammad S. 0499, 0520
Ahmed, Nadia 0371
Ahmed, Saumu 1171
Ahmed, Shahriar 0813
Ahmed, Sharia M. 0328, 1301
Ahmed, Sheraz 0832
Ahmed, Tahmeed 0390, 0974
Ahmmed, Md K. 0811
Ahogni, Idelphonse B. 0319
Ahoua Alou, Ludovic P. 0550
Ahsan, Nazia 0067, 0099, 0102, 0809, 0979
Ahuka-Mundeke, Steve 0002, 0424, 0526
Ahumada, Martha 0751
Ahyong, Vida 0907, 1362
Aicher, Sophie-Marie 0180
Aide, Pedro 0282, 0290, 0405, 1275
Aidenagbon, Adaeze 0290
Aidoo, Michael 0621, 0626
Ailes, Elizabeth 0590
Airewale, Efeose A. 1282
Aitchison, John D. 0692
Aitken, Elizabeth 0911
Aitken, Elizabeth H. 0679, 1119
Aiyenigba, Bolatito 1345
Ajanovic, Sara 0366, 0461, 0462, 0500, 0786, 0858, 1324
Ajanovic Andelic, Sara 0774, 1216
Ajayakumar, Jayakrishnan 0528, 0938
Ajayi, Oluseye A. 0104, 0106
Ajeigbe, Abel 1133
Ajuwon, Busayo I. 1038
Akach, Dorcas 0710
Akala, Hosea M. 0214
Akala, Hoseah 1060
Akala, Hoseah M. 0198
Akalonu, Ogechi 0103
Akame, Julie 0356, 0795
Akana, Reid 0975
Akande, Kolawole O. 0329
Akelo, Victor 0392, 0462, 0515, 1324
Akerele, Oluwatobiloba 0946, 1133
Akhideno, Peter 0603
Akhideno, Peter E. 0001
Akhtar, Zubair 0023, 0811
Akilah, Joel 0352, 0432
Akin, Elgin 0668
Akinde, Sunday B. 0831
Akinmulero, Oluwaseun 0921
Akinro, Bruno 0312
Akinro, Yewande T. 0104, 0106
Akinyele, Bolanle 0511
Akogbeto, Martin 0225
Akogbéto, Martin C. 0312
Akogbeto, Martin C. 0319
Akogbéto, Martin C. 0547
Akoho, Romuald 0625
Akol, Anne M. 1095
Akonga, Marceline 0002, 0003
Akpalaba, Immaculata O. 1223
Akpan, Edima 0074
Akpan, Ime 1135, 1153
Akpan, Nse 0432
Akpan, Nse M. 0352
Akpasa, Aniefiok 1134, 1134
Akpede, George 0603
Akpovi, Hilaire 0225
Akro, Godfrey 1135
Aksoy, Serap 0476
Akter, Aklima 1296
Akter, Mst. Farhana 0529
Akter, Nargis 0829, 0859
Akter, Rumana 0429
Akther, Salma 0896
Akulue, Justina C. 0227
Alaba, Olufunke A. 0953
Alabi, Peter I. O. 0323
Alagi, Matthias 0022, 0022
Alain, Gnamian N. 0676
Alam, Asraful 0941, 0950
Alam, Mahbub-Ul 0895
Alam, Mahfuja 0897
Alam, Md. Rafiqul 0367
Alam, Mohammad S. 0237, 1083
Alam, Munirul 0827, 0863
Alam, Muntasir 0462, 0516, 0609, 1324
Alam, Nur H. 0035
Alao, Manzidatou 0279
Alarcón de Noya, Belkisyolé 0397
Alatorre, Isabella 0340
Albareda, María Cecilia 0383
Albert, Barbara 0615
Albirair, Mohamed 0065
Alcala, Rodrigo 0503
Alcantara, Roberto 0812, 1253
Ale, Boni M. 1269
Aleem, Mohammad A. 0811
Alegana, Victor 0230
Alemayehu, Gezahegn S. 1084
Alemayehu, Guda 0270
Alemayehu, Saba 0668
Alemayehu, Tinsae 0820
Alemu, Addisu 0466
Alemush, Imeru 0299
Alera, Maria Theresa 0519
Aleshnick, Maya 0292, 1049, 1114
Alexander, Jeff 0145
Alexander, Neal 0584
Alexandre, Jean 0411
Alford, Robert T. 0128
Ali, Abdullah 0248, 0283, 0565, 0883
Ali, Anam 0429
Ali, Asad 0832
Ali, Doreen 0272, 1390
Ali, Huba 0565
Ali, Miqdad 1297
Ali, Mohamed 0626, 0658
Ali, Mohamed H. 0663
Ali, Shahjahan 0896
Ali, Sheikh Taslim 1260
Ali, Suruj 0078
Ali, Syed Asad 0347
Ali, Zainab 0939
Aliee, Maryam 0450
Aliou, Mamadou 0278
Alisjahbana, Bachti 1031
Aljayyoussi, Ghaith 0752
Alkabab, Yosra M. 0813
Al Kawsar, Abdullah 0482
Alkhayri, Hussan 1123
Alkhayri, Hussan A. 0647
Alkifeles, Thais 0586, 0845
Allana, Raheel 0067
Allen, Denise R. 0621
Allen, Denise Roth 0097
Allen, Samantha E. 1371
Alleruzzo, Lu 0168
Al-mafazy, Abdul-wahid 0320, 0565, 0658, 0663
Al-mafazy, Abdul-wahid H. 0248, 0283
Almaliti, Jehad 0203
Almeida, Annette 1090
AlMossawi, Hala J. 0289
Alombah, Fozo 0962
Alonso, Sergi 0833
Alonso Amor, Tatiana 0259
Alpert, Tara 0471
Alphey, Luke 1003, 1178
Alshehri, Abdullah M. 0483
Al-Taiar, Abdullah 0444
Alter, Galit 0607, 1118
Althouse, Benjamin M. 0492, 1043
Althouse, Rachel A. 1043

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 286 for the list of speakers and session chairs in Plenary and Symposium Sessions.

Alvarado, Luisa I. 0846, 1032
Alvarado-Ocampo, Johan 0479
Alvarado Torres, Keren S. 1257
Álvarez, María Gabriela 0383
Alvarez, Natalí 1188
Álvarez Baeza, Alberto 1225
Alves, Pedro A. 0586, 0845, 1361
Alves E Silva, Thiago L. 1331
Alving, Carl R. 1175
Alwan, Sevan 0056
Amadou, Soumana 0997
Amaitsa, Vivian K. 1343
Amalia, Ristya 0886
Amanor, Ernest 0788
Amante, Fiona 0857
Amaral, Salvador 0038, 1237
Amarasena, T. S. D. 0517, 0524
Amarathunga, Priyani 0382
Amaya, Bustinduy L. 0055
Ambachew, Semienew 0820
Ambani, George 0408, 0657
Amboko, Beatrice 0714
Ambrose, Kelley 0184, 0310, 1177
Ambrose, Monique 0689
Amimo, Fred 1007
Amin, Nuhu 0829, 0859
Amoa-Bosompem, Michael 0141, 0585
Amo-Addae, Maame 0097
Amo-Addae, Maame P. 0621
Amoah, Benjamin 1157
Amoah, Linda 0748
Amoah, Linda E. 1093
Amolo, Asito S. 0618
Amorim, Camila 0046
Ampaw, Phoebe A. 0386
Ampofo, William 0531
Ampomah, Paulina 0448
Amugongo, Jael S. 1025
Amuri, Adrienne A. 0002, 0514, 0526
Amutuhaire, Maureen 0206, 0664, 1126, 1127
Amuzu, Evans Xorse 0788
Amza, Abdou 0348
An, Zhiqiang 0472
Anabike, Chinonye 1081
Anankware, Jacob P. 0467
Anantha, Ravi 0145, 0850
Anantharam, Puneet 1203
Anaya Frometa, Alis 0094
Andagalu, Ben 0198, 0214, 0668, 1060
Andati, James 0717, 0717
Andenmatten, Nicole 0218
Anders, Katherine L. 0932, 1319
Andersen, Gillian 0108
Andersen, Kristian 0601
Andersen, Kristian G. 0002
Anderson, Charles 1175
Anderson, Kathryn 1346
Anderson, Kathryn B. 0958, 1320
Anderson, Michelle A. E. 1003, 1178
Anderson, Tim 0246
Anderson, Tim J. C.. 0674, 0924
Anderson, Tim J. C. 1069
Anderson, Timothy J. 0412, 0667
Anderson, Timothy J. C. 0855, 0925, 1067
Anderson Mweteni, Wemaeli 0955
Andolina, Chiara 0406
Andrade, Derson 0491
Andrade, Eloane 0558, 1009
Andrade, Gisele 1286
André, Paulo 0182
Andrews, Benetta 0777
Andrews, Jason 1027
Andrews, Ross 0993
Andriamamonjy, Fanomezana 0288
Andriamamonjy, Fanomezana V. 0706
Andriamananjara, Mauricette 0712
Andriamanjara, Mauricette 0713
Andriamanjato, Hery H. 0915
Andriamanoarisoa, Gregory 0915
Andrianinarivomanana, Tsaratsoa M. 0133
Andriantsitohaina, Faniry N. 0915
Andriarinirina, Felana N. 0915
Anegagrie, Melaku 0057
Ang, Joshua X. D. 1003, 1178
Angov, Evelina 0419, 1162
Angulo-Barturen, Iñigo 0218
Anh, Dang D. 0120
Aniedobe, Maureen 1348
Aniweh, Yaw 0189
Anmolsingh, Roopa 1207
Annamalai, Thirunavukkarasu 0637
Annan, Esther 0158
Anoke, Charity 0070
Ansong, Daniel 0417
Anstey, Nicholas M. 0444, 0624
Anthousi, Amalia 1396
Antillon, Marina 0452, 1248
Antiparra, Ricardo 0812
António, Janete 0182
Anwar, Mahabub U. 0344
Anwar, Mahabub Ul 0987, 1298
Anwar, Saira 0159
Anwer, Qudsia 0067
Anyaike, Chukwuma 0352, 0433
Anyamba, Assaf 0151
Anyona, Samuel 0671, 1116
Anyona, Samuel B. 0017, 0187, 0251, 0252, 0618, 0910, 1258, 1384
Anzolo, Jimmy 1276
Apaza, Catherine 1378
Aponte, John J. 0439
Aragie, Solomon 1323
Arambepola, Rohan 0693
Aramendia, Aranzazu A. 0057
Araújo Fiuza, Jacqueline 1286
Araujo Júnior, João P. 1041
Aravinda Tissera, Korelege Hasitha 1179
Arcà, Bruno 0113
Arce, Maira 0761
Archer, John 0055
Ardila, Susanne 0751
Areechokchai, Darin 0284, 0839
Arévalo, Yvalena 0164
Arevalo-Nieto, Claudia 1002
Arez, Ana P. 0673
Argáez, Jairo Isaih M. 1225
Argimón, Silvia 0425
Arguello, Sonia 0474
Arias, Kareen 1344
Arias León, Juan J. 1225
Ariën, Kevin A. 0155
Arif, Christina 0099, 0979
Arifeen, Shams E. 0078, 0093, 0461, 0465, 0499, 0520
Arifeen, Shams El 0084, 0462, 0516, 0609, 0941, 0950, 1324
Ariful Islam, Mohammad 0429
Arinaitwe, Emmanuel 0049, 0210, 0406, 0908, 1091, 1095
Arinatwe, Emmanuel 1070
Arisanti, Risalia Reni 1159
Aristide, Christine 1282
Arifuzzaman 0429
Arkell, Paul 0038, 1237
Arlotti-Parish, Elizabeth 0717
Armando, Sarmento 1278
Armstrong, Janna 0301
Armstrong, Jillian 1083
Armstrong, Philip 0125, 0148, 0601, 1303
Arn, Katherine E. 0322
Arnaitwe, Emmanuel 1065
Arndts, Kathrin 1311
Arnett, Kyra 1185
Arnéz Matias, Abrahan 0754
Arnold, Benjamin F. 0339, 0348, 0636, 0896, 0897, 1323
Arnold, Damon T. 0028
Arnoldi, Irene 0127, 1334
Aro, Modiu 1133
Aroian, Raffi V. 1241
Aron, Sijenunu 0219, 1090
Arrendondo, Silvia A. 1117
Arrieta-Ortiz, Mario L. 0692
Arroyo, Gianfranco 0762, 0767, 0768
Arsanok, Montri 0653
Arsenault-Benoit, Arielle 0570
Arsonok, Montri 1062
Aruna, Aron 1276
Arzika, Ahmed M. 0339, 0348
Asad, Afrida 0518
Asamoa, Kwame 0728
Asamoah-Boakye, Odeafo 1222
Asante, Ivy 0531
Asante, Kwaku Poku 1160
Aschar, Mariana 1092
Aseffa, Abraham 0033
Asem, Noha 1201
Asghar, Muhammad Sohaib 0159
Ashenafi, Fanos 0963
Ashley, Elizabeth 0774
Ashley, Elizabeth A. 0781, 0902
Ashorn, Per 1297
Ashton, Ruth A. 0441
Asiedu, Amos 0702
Asiedu, Samuel 1193
Asiimwe, Benon B. 0427, 0428
Asiimwe, Brian 0509
Asiimwe, Jackson 1095
Asiimwe, JohnBosco 1126, 1127
Asogun, Danny 0603
Assad, Gabrielle G. 1044
Assadou, Mahamadoun 1255
Assadou, Mahamadoun Hamady 0906, 1262
Assadou, Maiga Mahamadoun H. 0299
Assefa, Ashenafi 0236, 0410, 0880
Assefa, Nega 0461, 0462, 0466, 0515, 1324
Assefa, Selamawit 0820
Assenga, Melkior 1090
Astete, Helvio 1350
Asturias, Edwin J. 1344
Asua, Victor 1065
Atcha-Oubou, Tinah 0718
Ateba, Marcellin 0718
Atekem, Kareen 1232
Athieno, Prosciova 0443
Athieno, Proscovia 1068
Athinya, Duncan K. 0996
Athuman, Thabit 0293, 1215
Atibu, Joseph 0651
Atieli, Harrysone 0748
Atieno, Cecilia 0417
Attah, Simon K. 0742
Attaher, Oumar 0422, 0906, 1115
Attahiru, Adam 0728, 1280
Attardo, Geoffrey M. 0476, 1329, 1352
Atto, Ruth 0512, 0764
Attobrah Sarfo, Anima 0417
Attram, Naiki 0152, 0531, 1204, 1205
Atuko, Moses M. 1246
Atyeo, Caroline 0607
Audu, Bala 1081
Audu, Bala M. 0718
Audu, Benshak J. 0800
Audu, Rosemary 1348
Auerswald, Heidi 0165, 1318
Auguste, Albert J. 0892
Auguste, Dawn I. 0892
Augustine, Ngindu 1073
Aula, Oyime P. 0054
Aung, Day Naing 0289
Aung, Thant Zin 0289
Aung, Ye Thu 0289
Aurrecoechea, Cristina 0060
Avenido-Cervantes, Eleonor 0676
Avila, Mario 1004
Avila, Matheus H. T. 1315
Avilla, Clarita Maria S. 1044
Avramenko, Russell 1240, 1376
Avue, Restituto M. Nguema. 0756, 1182
Awaca Uvon, Pitchuona 0792
Awandare, Gordon 0189, 1093
Awandu, Shehu 0618
Awandu, Shehu S. 0646
Aweeka, Francesca 0213, 0641, 1066, 1147
Aweeka, Francesca T. 1057
Awolola, Samson 1190, 1194
Awolola, Taiwo S. 0998
Awor, Phyllis 0443, 1068
Aworh, Mabel K. 1363
Awuor, Beatrice 0994
Ayaa, Irene 0206
Ayandipo, Esther 1135, 1148, 1154
Ayankola, Kazeem 0211, 0944, 0946, 1133, 1134, 1135, 1148, 1153, 1154
Aydemir, Ozkan 0196, 0197, 1065
Aye, Ni Ni 0700
Ayekaba, Mitoha Ondo'o 0631, 0879
Ayele, Zebene 1321
Ayers, Victoria B. 0591, 0605
Ayinde, Olubunmi 1154
Ayiseh, Rene 0486
Ayiseh, Rene B. 1231
Ayles, Helen 0364, 1264, 1265
Ayo, Daniel 0406
Ayodeji, Kazeem 0443
Ayodo, George 0646
Ayong, Lawrence 0224
Ayora Talavera, Guadalupe 1304
Ayora-Talavera, Guadalupe 0575
Ayub, Amany 0529
Azerigyik, Faustus A. 0141
Aziz, Nabil A. 1211
Aziza, Amuri 0003
Azodoh, Ngozi 0940

B

Ba, Yamar 0799
Baayenda, Gilbert 0036, 0918
Babalola, Stella 0501
Babanawo, Felicia 0702
Babar, Md R. Khan. 0093
Babarinde, Dele 0757, 1185, 1189, 1190
Babatunde, Femi O. 0001
Babayan, Simon A. 0317, 0746
Babirye, Rebecca 1126, 1127
Babu, Senbagavalli 1388
Babu, Senbagavalli P. 1342
Bacellar, Olívia 1340
Bada, Babatunde S. 0865
Badara Gueye, Alioune 0926
Badaut, Cyril 0444
Badiane, Aida 0926
Badiane, Aida S. 0254
Badiane, Medoune 0799
Badji, Henry 0035

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 278 for the list of speakers and session chairs in Plenary and Symposium Sessions.

Badolo, Ousmane 0704, 0705
Badr, Hamada 0062
Badu, Kingsley 0883
Bae, Seongman 0178
Baelongandi, Francis 1144
Baerenbold, Oliver 0500, 0786, 0903, 1216
Ba Fall, Fatou 0926
Bagayogo, Aliou 0040
Bagchus, Wilhelmina 0856
Baguiya, Adama 0854
Baguma, Charles 0836
Baguma, Emmanuel 0275
Bah, Mohamed S. 0357, 0796
Bahar, Ozge S. 0365
Bahita, Ashenafi Assefa 0201
Bailey, Emily S. 0823
Bailey, Jason A. 0681
Bailey, Jeff 0196
Bailey, Jeffrey 0651, 1065, 1160
Bailey, Jeffrey A. 0197, 0675
Baillie, Vicky 0462
Bailon Gonzales, Nataly A. 1257
Baird, J K. 0886
Baizan, Monica 0479
Bajardi, Azucena 0972
Baka, Julia Y. 0293
Bakari, Ashura 0417
Baker, Kevin 0290, 0776, 0791, 1142, 1275, 1278
Baker, Margaret 0792
Baker, Megan 1164
Baker, Stephen 0425
Bakhtiari, Ana 1210
Bala, Joseph A. 0651
Bala, Usaini 0728, 1280
Bala, Veenu 0483
Balajee, Abirami 0026
Balanza, Nuria 0858
Balanza, Núria 1216
Balaraman, Velmurugan 0005
Balbaryski, Jeanette 0383
Balde, Mamadou 0061
Baldini, Francesco 0317, 0538, 0746
Baldwin, Whitney 0161
Baliga, Nitin S. 0692
Balige, Neema 1171
Balige, Neema E. 1219
Balish, Amanda 0097, 0621
Balkew, Meshesha 0933, 1012
Balkus, Jennifer E. 1094
Ball, Aquena 0611
Ball, Erin E. 0168
Ballard, Sarah 0708
Ballard, Sarah-Blythe 1128, 1129
Balma, Richard 0205
Balmaseda, Angel 0474, 0583, 0847, 1314
Baltazar, Palmera 1285
Bamadio, Amadou 0725
Bambi, Augusto 0182
Bambo, Gizela 0654
Banaski, James A. 0521
Bancone, Germana 1083
Banda, Enock 0737
Bandagny, Lydie 0919
Banda - Malawi SmartNet Initiative, Akuzike 0311, 0730
Bandaogo, Ousséni 1213
Banek, Kristin 0651
Bangirana, Paul 0192
Bangsberg, David R. 0836
Bangura, James 0806
Banho, Cecilia A. 1041
Banker, Elyse M. 0599
Banroques, Josette 0377
Bansal, Abhisheka 1055
Banu, Sayera 0023, 0813, 0987, 1298
Baragaña, Beatriz 0221
Barajas López, Ignacio N. 0177
Baraka, Vito 1138
Baranchuk, Adrian 0146
Barat, Lawrence 0881
Barateiro, André 1119
Barbeau, Michelle C. 0020
Barber, Bridget E. 0444, 0624, 0638, 0857
Barbosa, Camila 0420
Barbosa, Lucio M. 1274
Bardales, Karina 0760
Bardiot, Dorothée 1291
Bardosh, Kevin 0291
Bareng, Paolo N. 1111
Barhoumi, Mourad 0377
Bari, Sanwarul 0078, 0084, 0093, 0465, 0499, 0516, 0520, 0609, 0941
Baric, Ralph 0579
Baric, Ralph S. 0578, 1019, 1021, 1316, 1386
Baril, Chantale 0490
Barillas-Mury, Carolina 1391
Barken, Derren 1208
Barker, Christopher M. 1350, 1351
Barlow, Jacob T. 0975
Barman, Indrajeet 0827
Barnafo, Emma 1175
Barnes, Karen I. 0633
Baro, Barbara 0567
Barr, Beth A. Tippet 1324
Barr, Kelli 0149
Barr, Kelli L. 0576
Barragan, Jose 1202
Barrera, Gloria A. 0575
Barrera, Patricia 1350
Barreto, Mauricio 0815
Barrett, Alan D. 1291
Barrett, Alan D. T. 0587
Barrett, Alan D. T.. 0588
Barrett, Carrie 0343, 0482
Barrientos, Monica 1004
Barrientos Juárez, Mónica E. 0754
Barrios, Edgar E. 1344
Barrios-Palacios, Jacqueline 0174
Barros, Janaina 0142
Barry, Alyssa E. 0238, 1111
Barry, Djénabou 0278
Barry, Hamidou 0278
Barry, Nouhoun 0854
Barstis, Elijah 0171
Bartelt, Luther 0818
Bartenschlager, Ralf 1291
Barth, Thomas 1373
Bartholomay, Lyric 0872
Bartholomeu, Daniella 0684
Bartlein, Rebecca 0978
Bartlett, Adam W. 0782, 1237
Bartolomé, Javier 0489
Barton, Hannah 0901
Baryluk, Konstantin 1398
Bar-Zeev, Naor 0334
Basan, Isabel 1350
Basaza, Robert K. 0463
Bascunan, Priscila 0124, 0562
Basham, Christopher 1098
Basing, Laud Anthony W. 0917
Baskota, Rabindra 0988
Bassat, Quique 0366, 0444, 0461, 0462, 0500, 0515, 0567, 0567, 0567, 0567, 0774, 0786, 0903, 0949, 1216, 1324
Bassey, Edet 0944
Bassey, Orji 0101
Bassey, Victor 0944, 0946, 1134, 1135
Bassoumi, Imen 0377
Bastard, Mathieu 1144
Baterana, Byarugaba 0029
Bates, Imelda 0957
Bath, David 0841
Batisso, Esey 0776, 0791
Batool, Rabab 1297
Batra, Dhwani 0131
Batte, Anthony 0185
Battegay, Manuel 0370
Battle, Katherine 0926
Battle, Katherine E. 0254
Bauler, Sarah 0824
Baus, Holly Ann 1358
Bausch, Daniel G. 0806, 0978
Bauserman, Melissa 1109
Bautista - Malawi SmartNet Initiative, Monica 0311, 0730
Bawk, Ja Seng 0105
Baxter, Andy 0202
Bayih, Abebe 1240
Bayisenge, Ursin 0783
Bayles, Brett R. 0196
Baylin, Ana 0327
Baylon Jaquez, David 0177
Bayo, Eliwaza 0079
Bayoh, Mohamed N. 1177
Bazant, Eva 0042
Bazié, Thomas 0205
Bazilevych, Kseniia 0606
Bazur-Leidy, Sarah 1218
Beach, Michael 0424
Beam, Michelle 0763, 0765, 0766
Beasley, David 1291
Beatty, Norman L. 0503
Beatty, Robert 0469
Beau De Rochars, Madsen 0353
Beau de Rochars, Valery Madsen 0490
Beccherle - Malawi SmartNet Initiative, Maurizio 0311, 0730
Beck, Hans-Peter 0622
Beck, Josh 0018
Beck, Sarah 0824
Beck, Zoltan 1175
Becker, Torben K. 0490
Becker-Dreps, Sylvia 0176, 0330, 0595, 0596, 0818, 0860, 0861, 0893, 1039, 1040
Becker-Ziaja, Beate 0603
Beckett, Charmagne 1208
Bedell, Lisa 0849, 0850
Bedford, Trevor 0002
Beer, Ambros 1373
Begg, Sara 0957
Begna, Ketema 0075
Behene, Eric 0531, 1205
Bei, Amy K. 0205, 1071, 1083
Beinomugisha, Geofrey 0206, 0664
Beirao, Pedro 0491
Beiting, Daniel 0046
Beiting, Daniel P. 0459
Bejide, Oyeniyi S. 0329
Bejon, Philip 0116, 0418, 0714
Bekele, Chalachew 0951
Bekele, Delayehu 0951, 0961
Bekele, Firdaweke 0359
Bela, Ines T. 0293
Belay, Fitsum W. 0782
Belay, Kassahun 0241
Belemvire, Allison 0998, 1177
Beliavskaia, Alexandra 0539
Belizaire, Marie R. D. 0002
Belizario, Vicente 0789
Bell, David 0624, 0720
Bell, Griffin J. 1160
Bell, Melanie L. 0994
Bellamy, Duncan 0418
Bellamy, Duncan G. 1164
Bellman, Steph 0871
Bell-Sakyi, Lesley 0539
Belokopytova, Polina 1395
Beltran, Brenda 0512, 0764
Bempah, Sandra 0938
Benavides, Mónica 0590
Bender, Nicole G. 0503
Benedict, Mark Q. 0124, 0562
Benefield, Amy E. 1043
Benito, Agustín 0057
Benjamin, Biholong 0356, 0795
Benjamin-Chung, Jade 0897
Bennett, Adam 0244, 0648, 0693, 0732, 0844, 1156
Bennett, Shannon 1027
Bennett, Shannon N. 1010
Bennuru, Sasisekhar 0874, 0878
Benoit, Fabiola 0291
Benson, L. Scott 0328
Bentil, Ronald 0152
Bento, Ana I. 0891
Bentum, Jeannette 1204
Bereknyei Merrell, Sylvia 1267
Bérété, Souleymane 0278
Bergeron, Eric 0921
Berghmans, Pieter-Jan 0633
Berhe, Anne D. 0684
Beristain-Ruiz, Diana M. 0177
Berja, Sandra 0218
Berlin, Erica P. 0843
Bern, Caryn 0381
Bernabe, Kerlly 0698
Bernal, Cynthia 0164
Bernal-Teran, Edson 0772
Bernaola Silva, Lenin C. 1257
Bernard, Lucy 0308
Bernard, Yves Marie 0628
Bernardo, Eden 0182
Berry, Andrea A. 0296, 0681, 1112
Berry, Kevin 0872
Berto, Cesar G. 0770
Bertozzi-Villa, Amelia 0013
Bertrán-Pasarell, Jorge 1023
Bertran-Pasarell, Jorge 1389
Besaha, Juan Carlos M. 0293
Besana, Lee 0530
Bessell, Paul R. 0452, 1248
Bessong, Pascal O. 0899
Betageri, Omkar 0503
Bettee, Anthony K. 1271
Betts, Hannah 0482
Betz, Will 0301
Betz, William 1117
Beuret, Carla 0634
Beutler, Nathan 1170
Beuzeville-Jaen, James 1005
Bever, Caitlin 0013, 0254, 0688, 0689, 0690, 0696, 0926, 0927
Bever, Caitlin A. 0691
Beyen, Melkamu 1321
Beylerian, Emily 1187
Bezuidenhout, , Deon 0856
Bharmal, Jameel Z. 0314
Bharti, Praveen K. 0627
Bhatnagar, Suyash 0018
Bhattacharya, Parna 1339
Bhattacharya, Prosun 0829, 0859
Bhattarai, Saroj 0905
Bhuiyan, Taufiqur R. 1296
Bhuyian, Md. Sazzadul Islam 0827, 0863
Biabi, Marie Florence 0224
Bialosuknia, Sean 0888
Bialosuknia, Sean M. 0599
Bianchi, Giulia Soler 1259
Bibe, Albino 0666, 1103
Biber, Asaf 0034
Bickersmith, Sara 1188
Bidjimi, Gertrudis O. 0293
Bielick, Catherine 0345
Biering, Scott B. 0469, 0470, 0581
Bierrenbach, Ana L. 1382
Bii, Dennis 0417
Bijeri, Jose R. 1118
Bila, Restituto M. 0293
Bilak, Hana 1276
Bilal, Minallah 0154
Bile, Faustin 0002
Bilguvar, Kaya 0471
Billah, Mallick Masum 0023
Billings, Joanna 0494
Billingsley, Peter 0300, 0422, 1118

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 278 for the list of speakers and session chairs in Plenary and Symposium Sessions.

Billingsley, Peter F. 0128, 0293, 0295, 0298, 0687, 0934, 1215
Billipp, Tyler 1401
Bilounga Ndongo, Chanceline 0976
Bilyeu, Ashley N. 0587, 0588
Binagwa, Ben 0918
Binagwa, Benjamin 0036
Binazon, Alexandre 0279
Binder, Raquel A. 0607
Bing, Xiaoli 0134
Binta, John K. 0918
Biratu, Gezahegn 0262
Birhanu, Zewdie 0226
Birich, Holly 0328
Birindwa, Alves 0824
Birkhold, Megan 0033, 0929, 1360
Birrell, Geoffrey W. 0884
Bisanzio, Donal 0061, 0140, 0207, 0285, 0320, 0658, 0663, 1239
Bisento, Nella 0002, 0003
Bishop, Henry S. 1374
Bishop, Özlem T. 0215
Bisimwa Cirhuza, Lucien 0824
Bisoffi, Zeno 1239
Bista, Bihungum 0905
Biswal, Dr. Padmalochan 0851
Biswal, Shibadas 0166
Biswas, Debashish 0895
Biswas, Rajib 0499, 1296
Biswas, Samanta 0813
Biswas, Shwapon Kumar 0827
Bitchoka, Sandra 0976
Bitew, Yewondwossen 0359
Bittar, Cintia 1041
Bittel, Pascal 0759
Bitzer, Annegret 0848
Bizij, Greg 1083
Bizimana, Jean de Dieu 0442
Bjerum, Catherine 0434, 1357
Bjerum, Catherine M. 0483, 1356
Black, Allison 0002
Black, Chad 0217, 0644
Blackburn, Jonathan 1327
Blackburn, Kayla 1084
Blacy, Ladislaus 0079
Blanc, Sophie 0469
Blanco, Natalia 0022
Blandón, Patricia 0330, 0818, 0861
Blandon, Patricia 1039
Blank, Paul S. 1115
Blankenship, D'Arbra 1080
Blanton, Lucas 0111
Blanton, Ronald E. 1274
Blasdell, Kim R. 1368
Blau, Dianna 0465
Blau, Dianna M. 0392, 0461, 0462, 0515
Blauwkamp, James 0458
Blavia, Isabel 0489
Bledsoe, Daren 1080
Bledsoe, Stephanie 1080
Blette, Bryan 0176
Blevins, John 0078, 0084, 0093
Blitvich, Bradley 0174, 0177, 0889
Blitvich, Bradley J. 0535
Bloechliger, Koranan 0631
Bloehdorn, Johannes 0758
Bloom, Marshall E. 0867
Boahen, Collins K. 0426, 1031
Boakye, Daniel 0542, 1232
Boara, Dickson 0993
Boateng, Rita A. B. 0677
Bock, Kevin W. 1115
Bodinayake, C. K. 0517, 0524
Bodinayake, Champica K. 0805
Boey, Christopher Chiong Meng 0044
Bogale, Haikel N. 0249
Bogers, Willy 1291
Bogyo, Matt 0203
Bohl, Jennifer 1305
Bohl, Jennifer A. 0907, 1362
Bohning, Kelly 0160, 0161
Bolaños, Gabriela 1188
Bolanos, Guillermo A. 1344
Bolay, Fatorma K. 0435
Bollaerts, Anne 0417
Bolloré, Karine 1213
Bolorunduro, Oluwaseyi 0511
Bolscher, Judith 1166
Bond, Caitlin 0019, 0646, 1064
Bond, Caitlin A. 1096
Bond, Nell G. 1220
Bondo, Gaetan 0007
Bondole, Jicko 1276
Bonfanti, Jean-Francois 1291
Bonfini, Alessandro 0134
Boni, Maciej 0257
Bonkoungou, Moumouni 0704, 0705
Bonnet, Gabrielle 0769
Bonnet, Gabrielle M. 1372
Bonnewell, John 1254
Bonnewell, John P. 0701, 0785
Bonney, Joseph Kofi 0152
Bonnington, Craig 0928, 1142, 1275
Boonchan, Threechada 1062
Boonhok, Rachasak 0852
Boonyalai, Nonlawat 0653, 1062
Boonyarangka, Parat 0653
Boore, Amy L. 0090
Boorgula, Gunavanthi D. 0118
Booso, Rahuman 0720
Boothroyd, John 1404
Boots, Michael 1362
Booty, Brian 0846
Booty, Brian L. 1032
Bopda, Jean 0873
Bopda, Jean G. 1227
Bopp, Selina 0195, 0416, 1061
Bordalo Miller, Jane 0840
Borgemeister, Christian 0828
Borlee, Brad 0129
Borrero-Wolff, Dennis 1311
Borucki, Monica 0129
Bos, Sandra 1314
Bosch, Irene 1315
Bosch, Jürgen 1082
Bose, Carl L. 1109
Bosomprah, Samuel 0323
Bottazzi, Maria Elena 0485, 0486, 1228, 1337
Botté, Cyrille 0457
Bottomley, Christian 0584, 1029
Bouba, Aliou 0604
Boudo, Valentin 0339
Bountogo, Mamadou 0636, 0794
Bourgouin, Catherine 0133
Bournazos, Stylianos 1318
Bourne, Nigel 1291
Bousema, Teun 0082, 0083, 0269, 0406, 0639, 0734, 0842, 0908, 1095, 1166
Bowah, Jibba 0721
Bowels, Vern M. 0478
Bowen, Anna 0025, 0107
Bower, Hilary 0978
Bowman, Natalie M. 0595, 0893, 1378
Boyce, Matthew R. 1367
Boyce, Ross M. 0275, 1325
Boyle, Michelle 0049
Boyom, Fabrice F. 1379
Boytinck, Emily 0945
Brackney, Doug 0148, 0601
Brackney, Douglas 0125
Bradfute, Steven B. 1384
Bradley, David 1018
Bradley, John 0734, 0842, 0903
Bradley, Lauren 0912
Brake, Sydney 1186
Bram, Zakariae 0393, 0816
Bramugy, Justina 0500, 0774, 0786, 0858
Bramugy, Justina M. 0903
Bramugy, Justina M 0366
Branco, Alexandre C. 0864
Brandsma, Joost 1208
Brandt, Katerina 0861, 1277
Brant, Tara A. 0355
Brashear, Awtum M. 0670
Brasil, Patricia 0142, 0773
Brasov, Ioana 0981
Brault, Aaron 0617, 0889
Brault, Aaron C. 0890
Braun, Laura 0052
Braun, Ralph 0157, 0583, 0593
Breban, Mallery 0471
Breiman, Robert F. 0461, 0461, 0462, 0515
Breiman, Robert F. 1324
Breines, Markus 0075
Brennhofer, Stephanie 1300
Brennhofer, Stephanie A. 0331, 0332
Brestelli, John 0060
Brew, Joe 0489
Brey, Paul 0990
Briand, Valérie 0439
Bridenbecker, Dan 0926
Bridenbecker, Daniel 0690, 0691, 0696
Bridges, Daniel J. 1102
Bridges, Dave 0327
Brieger, William R. 0511
Briët, Olivier 0740
Briggs, Jessica 0210, 0530, 0909, 1089
Bright, Orji 0070, 0916
Brintz, Ben J. 0035
Brintz, Benjamin 1301
Brito, Anderson 0471, 0601
Brito, Anderson F. 0577
Brito, Marcelo 1083
Brito, Miguel 0182, 0324, 1200
Brito-Sousa, Jose Diego 0629
Britton, Laurence J. 0638
Brogdon, Jessica 0636
Brombacher, Frank 0403
Bron, Gebbiena 0872
Brook, Cara 1362
Brooks, John 1062
Brooks, John S. 0156
Brown, Alex 0040
Brown, Alex K. 0037
Brown, Eric L. 1015
Brown, Grayson 1001
Brown, Joe 0834
Brown, Michael G. 1173
Brown, Paul E. C. 0452
Brown Marusiak, Amanda 0275
Bruce, Janine 1267
Brumeanu, Teodor 0468
Brunk, Brian 0245
Brunk, Brian P. 0060
Brunner, Nina 0443, 1068
Brusentsov, Ilya I. 1393
Buabeng, Patrick 0417
Buathong, Nillawan 1062
Bucardo, Filemon 0176
Bucardo, Filemón 0330
Bucardo, Filemon 0595, 0596, 0818
Bucardo, Filemón 0860, 0861
Bucardo, Filemon 0893
Bucardo, Filemón 1039, 1040
Buchon, Nicolas 0134, 0136
Buchrieser, Julian 0180
Buchy, Philippe 1317
Buckee, Caroline 0411, 0999
Buckee, Caroline O. 0925
Buckingham, Steven D. 1396
Buckner, Frederick 0380
Buddhari, Darunee 0610, 0904, 1320
Budge, Philip 1227, 1356, 1357
Budge, Philip J. 0873
Budiman, Waras 0886
Buekens, Julie 0279, 0628, 0630, 0632, 1076
Buelens, Annemie 0582
Buenemann, Michaela 0558, 1009
Bueno, Lilian L. 0684
Buetas, Helena 0654
Buezo Montero, Sara 0113
Bugase, Eustace 1163
Bui, Vuong N. 1364
Buj, Valentina 0443, 0733, 1068
Bukassa Kazadi, Germain 0424
Bukenya, Fred 1137, 1157, 1195
Bukreyev, Alexander 0004
Bula Bula, Junior 0002, 0003
Bulabula-Penge, Junior 0424
Bulage, Lilian 0090
Bulimo, Wallace 0135
Bulman, Christina 1233
Bumba, Paulo 0182
Bun, Krufinta 0358, 0431, 0434
Bunga, Sudhir 0098
Buonfrate, Dora 1239
Burgert, Clara 0792
Burgert, Lydia 0729
Burgert-Brucker, Clara R. 0036
Burgess, Karl 1284
Burgess, Timothy 0150
Burgos, Cesar 1004
Burke, Kimberly 0777
Burkel, Veronica 0590
Burkert, Sanne 0758, 1373
Burkhard, Anna Y. 0923
Burkhard, Peter 1162
Burkhardt, Martin 1168
Burkot, Thomas R. 0652
Burnett, Sarah 1187
Burnett, Sarah M. 0441
Burri, Christian 0443, 0497, 0854, 1068
Burton, Kenneth R. 0591
Busbee, Allie 1012
Busharizi, Daniella 0241
Bushukatale, Samwel 0219
Bustinduy, Amaya L. 0364, 0396, 1264, 1265, 1269
Bustos, Javier 0512, 0764, 0768, 1371
Bustos, Javier A. 0762, 1372
Bustos, Javier A. 0767
Bustos Carrillo, Fausto 0826
Bustos Carrillo, Fausto A. 0474, 0847
Butcher, Robert 1210
Butler, Kelsey M. 0603
Butler, Michael 0371
Butphomvihane, Phonephet 0496
Button-Simons, Katie 0246, 1069
Button-Simons, Katrina A. 0412, 0667, 0674, 0924, 1067
Butts, Jessica 0025, 0104, 0106, 0107
Butzin-Dozier, Zachary 0896
Bwalya, Steven 0441
Bwanika, John Baptist 0241
Bwanu Iliya, Patience 0937
Bwyala, Justin 1265
Byakika, Sarah 0918
Byakuzana, Theonestina 0370
Byaruhanga, Aggrey 0025, 0107
Byaruhanga, Oswald 0196, 0197
Byerly, Jessica H. 0459
Byrd, Eve 1218
Byrne, Isabel 1159
Bystrický, Slavomír 1296

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 278 for the list of speakers and session chairs in Plenary and Symposium Sessions.

C

Cabada, Miguel 0111
Cabada, Miguel M. 0802
Caballero, Oliver 0164
Cabell, Chris 0849
Cabral, Sandra 0164
Cabrera, Jhasmel 0977
Cabrera, Lilia 1378
Cabrera, Mynthia 0852
Caccetta, Rima 0076
Cadavid Restrepo, Angela M. 0488
Cadwell, Kenneth 0044
Caicedo-Quiroga, Laura 0122
Cain, Carrie Jo 1324
Cairns, Matthew 0418, 1281
Cairo, Cristiana 0369
Cairo, Hedley 0094, 0840
Cajusma, Youseline 0490
Calcina, Juan F. 0762
Calderon, Maritza 1378
Calderon-Arguedas, Olger 0479
Calderwood, Stephen B. 1296
Callahan, E. K. 1211
Callahan, E. Kelly 1321
Callan, Danielle 0060
Callaway, Perri 0049
Calunga Maseo, Yanexis 0094
Calvay-Sánchez, Karen 0984
Calvimontes, Mirella 1344
Calvo, David 0220
Calvo, Eric 1331
Calvo, Nidia 0880
Cama, Vitaliano A. 1374
Camacho, Janet 0355
Camacho Perea, Adriana 0177
Camara, Abdoul K. 0798
Camara, Alioune 0061, 0278, 1105
Camara, Bienvenu S. 0718
Camara, Hadja Fanta 0278
Camara, Makan 0645
Camara, Soromane 0550
Camargo, Nelly 0301, 0412, 0413, 0667
Camargo, Nelly M. 0460, 0674, 0924
Cambronero-Heinrichs, Juan Carlos 0479
Cambungo, Lelo 0182
Cameron, Ewan 0693
Campana, Jose M. 0977
Campbell, Wesley R. 1350
Campelo, Riward 1399
Campero, Micaela N. 0057
Campos, Adriana 0091
Campos, Guilherme R. F. 1041
Campos, Maria Elisa 0397
Campos-Neto, Antonio 0684
Camprubí-Ferrer, Daniel 1288
Canana, Neide 1278
Canavati, Sara 0223, 0438, 1108
Candido, Darlan S. 1028
Candrinho, Baltazar 0259, 0282, 0757, 1185, 1189, 1194, 1275, 1278
Canepa, Gaspar E. 1391
Cano, Jorge 0584
Cano-Pérez, Eder 0089, 1047
Cantaert, Tineke 0165, 1305, 1318
Cantero, César 0164
Cantey, Paul T. 0352
Cao, Yaming 0670, 0852
Cao, Yi 0686, 1169, 1172
Capasso, Ariadna 0365
Caprara, Andrea 1020
Caputo, María Belén 0383
Caravedo, Maria A. 0111
Carballo Jimenez, Paula P. 1257
Carbone, Nicole 0632, 0721, 1076
Carbone, Nicole B. 0724
Cardenas, Iván 0751
Cardenas, Jorge 0397
Cardenas Marrufo, Maria F. 1225
Cardona-Ospina, Jaime A. 0595
Cardoso, Anastacio 0282
Cardoso, Clareci 1382
Cardozo, Fátima 0164
Carette, Jan 0470
Carey, Megan N. 1242
Carlier, Lise 0622
Carlin, Ellen P. 1367
Carlo, Waldemar A. 1109
Carlow, Clotilde K. 0475, 0539
Carlson, Bradley 0474
Carlson, Jenney 0184
Carlson, Jenny 0304, 0997
Carlton, Elizabeth 0051
Carlton, Elizabeth J. 1268
Carmago, Nelly 1067
Carmona, Stefania 0373
Carnahan, Robert 1316
Carneiro, Pedro 1340
Carpenter, Emma 0221
Carpi, Giovanna 0559, 1102
Carraretto, Davide 0476
Carrasco-Escobar, Gabriel 1005
Carrasquilla, Manuela 0411, 0669, 0925
Carrasquilla, Maria C. 0503
Carrel, Margaret 0651
Carrera, Jean Paul 0807
Carrera, Jean-Paul 0139
Carrion, Maja 0345
Carruthers, Vernon 1378
Carter, Alyssa M. 0975
Carter, Austin 1091
Carter, Darrick 0485
Carter, Jessica 0371
Carter, Rosalind 0098
Carter, Tamar 0933
Carugati, Manuela 0701, 1254
Carvalho, Augusto M. 0046
Carvalho, Edgar 1340
Carvalho, Edgar M. 0046
Carvalho, Lucas P. 0046
Carvalho, Natalie 0869
Carwile, Madeline E. 0817, 1342
Casares, Sofia A. 0468
Cash, Shelby 0025, 0104, 0106, 0107, 0272, 0728, 1390
Cassady, Zione 0855
Cassidy-Seyoum, Sarah 1085
Castañeda, Daniela 1188
Castañeda, E D. 1004
Castellanos, Maria Eugenia 0014
Castellanos-Gonzalez, Alejandro 1380
Castillo, Amber 0608, 1258, 1347, 1384, 1385
Castillo, Jason A. 0977
Castillo, Marlene 1252
Castillo, Ruth Mabel 0451
Castillo, Yesenia 0762, 0765, 0766, 0768, 1371
Castillo, Yessenia 0763
Castillo-Neyra, Ricardo 0540
Castor, Rebecca 1218
Castro, Carlos J. 0337, 0338, 0819, 1244
Castro, Maria del Mar 0451
Castro Eiro, Melisa Daiana 0383
Catanha, Amadeu 0182
Catteruccia, Flaminia 1332
Cavacini, Lisa 0607
Cavalin, Roberta Figueiredo 1259
Cavender, Katelyn 0124, 0562
Cayetano, Mylene 0828
Cazeault, Nicholas 1241
Cedraz, Fernanda M. S. C. 1274
Celone, Michael 0151, 0563
Cenachi, Adriana 1361
Centeno, Edwing 0860, 0861, 1039, 1040
Centeno, Edwing D. 0893
Cerdeira, Louise 0425
Cereghetti, Nadja 0729
Cervantes, Jorge 1202
Cesar, Gonzalo 0383
Cha, Sung-Jae 0188
Chabi, Joseph 0184, 0997
Chacaltana - Malawi SmartNet Initiative, Mariela 0311, 0730
Chaccour, Carlos 0228, 0489, 0551, 0564
Chaccour, Juliane 0489
Chacky, Frank 0219, 0230, 0232, 0709, 1090
Chacon, Andrea 0967, 0969, 1344
Chacón-Chacón, Alejandro 0172
Chacón-Montalvan, Erick A. 0760
Chacón-Uscamaita, Pamela R. 0169
Chacreton, Daniel 0175
Chadalawada, Sindhu 1247
Chadambuka, Elizabeth M. 0368
Chae, Keun 1392
Chaisatit, Chaiyaporn 0653, 1062
Chaisirirat, Janya 0904
Chaitaveep, Nithinart 0653
Chaitram, Jasmine 0921
Chak, Bridget 0603
Chakravarty, Sumana 0295, 0302, 0423, 0473, 0687, 1050, 1118, 1121, 1167
Challenger, Joseph D. 0269, 0444, 0749
Chalobah, Fay 0630
Chalon, Stephan 0633
Chalons, Stephan 0638
Chaltin, Patrick 1291
Chamberlin, Andrew J. 0919
Chambers, Ross 0597
Champagne, Clara 0265, 0266, 0740
Chams, Linda M. 0337, 0338, 1244
Chams, Linda M. C. 0819
Chan, Adeline 0308, 0565
Chan, Grace J. 0951, 0963
Chanda, Kanij F. 0093
Chandler, Claire 1070
Chandler, Clare 0952
Chandler, Clare I. 0505, 0775
Chandler, Clare I. R. 0077
Chandramohan, Daniel 0418, 1281
Chandrashekar, Valleesha 1053
Chandra Tangudu, Chandra 0174
Chang, Judy 0789
Chang, Stewart 1043
Changalucha, John M. 1282
Changjowk, Awin 0154
Chann, Soklyda 1062
Chansamouth, Vilada 0774, 0781
Chaponda, Limbikani 0482
Chaponda, Mike 0242, 0313, 0559, 1180
Charles, Jermilia 0889
Charles, Richelle C. 1296
Charlotin, Marie Carmelle 0291
Charurat, Manhattan 0022
Chatel-Chaix, Laurent 1291
Chattaway, Marie 0425
Chavarria, Max 0479
Chavchich, Marina 0884
Chaves, Barbara 1009
Chaves, Bárbara A. 0558
Chavez, Chris 1317
Chávez, Christian 0163
Chaw, Kevin 1196
Chawla, Tabish 0342
Chazal, Maxime 0180
Chea, Huch 0907, 1359
Chea, Sophana 0907, 1305, 1359, 1362
Cheah, Phaik Yeong 0508
Chebii, Philip 0140, 0580
Chebii, Phillip K. 1025
Checkley, Lisa 0246
Checkley, Lisa A. 0412, 0667, 0674, 0855, 0924, 1067, 1069
Cheeba, Maina 1265
Cheeseman, Ian 0246
Cheeseman, Ian H. 0412, 0413, 0667, 0924, 1067, 1069
Cheeseman, Ian H. H. 0674
Chelebieva, Sevil 0197
Chellappah, Jessica 0875
Che Mendoza, Azael 1304
Che-Mendoza, Azael 0575
Chen, Haily 0654
Chen, James 0024
Chen, Jean 1033
Chen, Jian-Hua 1404
Chen, Maria 0807
Chen, Rebecca 1240, 1376
Chen, Robert 0832
Chen, Sharon 0696, 0926
Chen, Shicheng 1016
Chen, Wen_Hsiang 1228
Chen, Yihui 1254
Chen, Yitong 1314
Chen, Ze 0044
Cheng, Qiuying 0017, 0187, 0251, 0252, 0608, 0671, 0910, 1116, 1258, 1347, 1384, 1385
Chenoweth, Josh G. 1208
Chenu, Elodie 0214
Cherima, Yakubu 0211, 1133
Cherkaoui, Mohammed 0218
Chernet, Ambahun 1321
Cheruiyot, Agnes 0198, 1060
Chery, Ginette 0291
Cheteug, Glwadys 0224
Chevalley-Maurel, Severine 0193
Chevalley-Maurel, Séverine 0292
Chew, Robert 0920
Chhonker, Yashpal S. 0483
Chhorvann, Chhea 0147, 0156
Chi, Socheat 0881
Chibale, Kelly 0643
Chibucos, Marcus 0615
Chibwana, Alinafe 1390
Chicca, Jeffrey 1241
Chico, R.Matthew 0725
Chico, Rita 0282
Chiduo, Mercy 0219
Chidziwisano, Kondwani 0862
Childs, David 0538
Childs, Lauren 0999
Chile, Nancy 0762
Chilema, Ethel 1390
Chilengi, Roma 0323
Chilima, Ethel 0272
Chilyabanyama, Obvious N. 0323
Chimenya, Mabvuto 0366, 0774, 0903
Chimumbwa, John 0739
Chin, Deborah 1065
Chinkhumba, Jobiba 0272, 1390
Chinnawirotpisan, Piyawan 0613
Chiodini, Peter 0371
Chiphwanya, John 0482
Chirwa, Tobias 0936
Chisenga, Caroline C. 0323
Chisenga, Mukosha 0739, 0844

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 278 for the list of speakers and session chairs in Plenary and Symposium Sessions.

Chisha, Terry 1100
Chisti, Mohammod J. 0974
Chisti, Mohammod J. 0390
Chisti, Mohammod Jobayer 1199
Chit Min, Myo 0464
Chitnis, Nakul 0283, 0493, 0740
Chitou, Said 0312
Chiu, Charles 0469
Chiyende, Elizabeth 1158
Chiziba, Chilochibi 0260, 0261
Choi, Mary J. 0424
Choi, Young-Jun 0401
Chola, Namakau 0364
Chomba, Elwyn 1109
Cho-Ngwa, Fidelis 1231
Chongwe, Gershom 0737, 1100
Chop, Elisabeth 0037, 0798
Chorazeczewski, Joanna K. 1048
Chow, Eva 0183
Chowdhury, Atique I. 0465, 0941, 0950
Chowdhury, Atique Iqbal 0084
Chowdhury, Fahmida 0023, 0811
Chowdhury, Fazle Rabbi 0367
Chowdhury, Md. Atique I. 0461
Chowdhury, Nayeem 0163, 1317
Chowdhury, Rajashree 0379
Chowell, Gerardo 1260
Christian, D.a. 1406
Christie, Athalia 0424
Chu, Cindy 0629
Chu, Cordia 0088
Chu, Larry C. 0024
Chu, May 0108, 0171
Chu, Steven 0024
Chu, Tzu-Chun 0006
Chua, Joel V. 1289
Chua, Kek Heng 0044
Chughlay, Mohamed Farouk 0633
Chukwu, Chimaobi 0022
Chulkov, Evgeny G. 0404
Chumachenko, Dmytro 0606
Chumachenko, Tetyana 0606
Chunda, Valerine 1311
Chung, Amy 0911
Chung, Hye Kyung 0615
Chung, Kevin 0468
Chuquiyauri, Raul 0293
Chuquiyauri Haro, Raul 0300
Church, L.W. Preston 0300, 0422
Church, LW P. 0687, 1118
Church, Preston 0293
Churcher, Thomas 1349
Churcher, Thomas S. 0269, 0749
Chutaro, Emi 0355
Ciau-Carrilo, Karina J. 1304
Ciccone, Emily J. 1325
Ciglenecki, Iza 1144
Ciloglu, Arzum 0208, 0509, 0719
Cintron, Chelsie 0817, 1342, 1388
Ciota, Alexander 0148, 0888
Ciota, Alexander T. 0589, 0599
Cirera, Laia 1122
Cisneros-Pano, Jonathan 0174
Cissé, Fatoumata 1192
Cisse, Idrissa 0209
Cissé, Idrissa 0718, 1139
Cisse, Moussa B. 0012, 0744
Cisse, Moustapha 0254, 0926
Cisteró, Pau 0405
Cistero, Pau 0654
Ciubotariu, Ilinca I. 1102
C. Johansen, Igor 0838
Clapp, Sheila 1143
Clarence, Catherine 1151
Clarisse, Ebene 0356, 0795
Clark, Danielle 1208
Clark, Eva 0381
Clark, J.t. 1406
Clark, Tanner 0024
Clarke, Naomi 0038, 1237
Clarke, Naomi E. 1243
Clement, Andrea 1043
Clennon, Julie A. 0864
Clerinx, Jan 1288
Cleveland, Dawn 1018
Clifton, Kathryn 0939
Clish, Clary 1332
Clish, Clary B. 1061
Cloherty, Gavin 0007
Coates, Emily 0849
Cocker, Derek 0862
Coelho, Camila H. 0684
Coello Escoto, Ana 0163, 1317
Coetzee, Maureen 0841
Coffey, Lark L. 0145, 0168
Cogen, Anna L. 0380
Coglianese, Nicole 0824
Coh, Marcelina 0530
Cohee, Lauren L. 1183
Cohee, Lauren M. 0725, 0931
Cohee, Lauren M. S. 0927
Cohen, Adam 0097
Cohen, Adam L. 0096, 0344, 0621
Cohen, Adam L. 0987, 1298
Cohen, Jessica 0882
Cohen, Justin 0064, 0083, 0266
Colborn, James 0259, 0282
Colborn, Kathryn 0009, 1157, 1195
Colby, Emily 0348
Coleman, Kristen K. 1364
Colford, John M. 0897
Colford Jr., John M. 0896
Collado, Damaris 0474
Collette, Nicole 0129
Collins, Clinton 0926
Collins, Jeffrey M. 1326
Collins, Julie 0978
Collins, Katharine A. 0734
Collins, Matthew C. 0575
Collins, Matthew H. 0595, 0596, 0893
Colman, Fraser 1396
Colmenares, Cecilia 0397
Coloma, Josefina 0474, 0583
Colston, Josh M. 0032, 0062
Colt, McKenzie 0213, 0641, 0641, 1057, 1066
Colt, Susannah 1286
Colubri, Andres 0006, 0603
Commons, Rob 0629
Compaore, Cheick 0290, 0694
Compaoré, Guillaume 0636
Comsil Chochi, Federico 0293
Conceicao, Jacilara 1340
Concu, Maura 0634
Condé, Mohamed Saran 0278
Condo, Patrick 0312, 0319
Condori-Pino, Carlos 0540
Conly, John M. 0024
Conn, Dra. Jan 1188
Conn, Jan E. 1005
Connelly, Sean 0414
Conrad, Melissa D. 0196, 0197, 0406, 1065, 1095
Conroy, Andrea 1101, 1212
Conroy, Andrea L. 0015, 0019, 0185, 0192, 1064
Conroy, Michael 0958, 1346
Conte, Matthew A. 0602
Conteh, Abdul 0796
Conteh, Abdulai 0357
Conteh, Solomon 0447
Contreras, Gustavo 0179
Contreras, Jesse D. 0897
Contreras, William E. M. 1383
Cook, David 0299, 0906, 1255, 1262
Cook, Jackie 0225, 0547, 0841
Cooley, Gretchen 0101
Cooley, Gretchen M. 0352, 1322
Cools, Piet 1264
Coon, Kerri 0569
Cooper, Matthew M. 0975
Cooper, Roland 0217, 1065
Cooper, Roland A. 0196, 0197
Copeland, Nathaniel K. 0887
Cordova-Hernandez, Jorge G. 0616
Corea, Nancy 0860
Corey, Victoria 0195
Corman, Victor M. 0614
Coronado, Lorena 1196
Corpas Lopez, Victoriano 0195
Corrales, Rita J. 0807
Corrales-Aguilar, Eugenia 0172
Correa, Margarita 1188
Correa, Margarita M. 0121
Corrêa-Oliveira, Rodrigo 1286
Corredor, Vladimir 0925
Corsini, Camila 0394
Corstjens, Paul 0364
Corstjens, Paul L. 1282
Corstjens, Paul L. A. M. 0050, 1264, 1265
Cossio, Alexandra 0451
Costa, Edson R. 0558
Costa-Nascimento, Maria J. 1092
Cot, Michel 0439
Cotton, Margaret 1037
Cottrell, Gilles 0625, 1097
Coughlin, Melissa 0101
Coulibaly, Adama B. 0040
Coulibaly, Boubacar 0636, 0645
Coulibaly, Dramane 0998
Coulibaly, Drissa 0250, 0255, 0681
Coulibaly, Eric 0997
Coulibaly, Hamady 0407
Coulibaly, Housseini D. 0784
Coulibaly, Mamadou B. 0421, 0645
Coulibaly, Michel E. 0790
Coulibaly, Siaka Y. 0784, 0790
Coulibaly, Yaya I. 0784, 0790, 1270
Coulibaly, Yaya L. 0037
Coumare, Samba 0725, 1139
Counihan, Helen 0103, 0290
Courjaud, Anne-Laure 0750
Cousin, Ewerton 1273
Coutts, Shaun 0875
Cox, Horace 0276, 0411, 0438, 1161
Coyle, Christina M. 0770
Cozens, Duncan 0125
Crabbe, Marjolein 1291
Craciunoiu, Sarah 0796
Craft, Joshua F. 0681
Cramer, Julia 0958, 1346
Cremers, David 0525
Cretu, Alexandru 0083
Cristovão, Mateus 0182
Croft, Trevor 0715
Crosewski, Fernanda 1292
Crowe, James E. 0004, 0472, 0597
Crowe Jr., James E. 1316
Crowley, Kathryn 0792, 0918
Crowley, Valerie 0858
Crozier, Ian 0002
Crump, John 1254
Crump, John A. 0701, 0782, 0785, 0903, 1216
Crump, Ron E. 0450, 0452
Crump, Ronald E. 1248
Cruz, John Ezra d. 1272
Cruz, Vanessa 0512, 0764
Cua, Tuliana 0869
Cuba, Norberto Bosepa C. 0947
Cuevas, María del Carmen 0222
Cui, Liwang 0670, 0852
Cui, Yi 0024
Cui, Yingjun 0186
Cumbie, Alexandra N. 0985
Cummings, Derek 1317
Cummings, Derek A. 0891
Cummings, Derek A. T. 0163
Cummings, Derek A. T.. 1320
Cuna, Boaventura 0405, 0654
Cunningham, Clark H. 1325
Cunningham, Jane 0626
Cunningham, Solveig A. 0081, 0465, 0513, 0515, 0949
Cunningham, Solveig Arge-seanu 0941
Cunningham, Solveig Arge-seanu 0950
Cunnington, Aubrey J. 0444
Curley, Justin M. 0887
Currier, Jeffrey 1295
Curtis, Andrew 0528, 0938
Curtis, Jacqueline 0528
Curtis, Kurt 0487
Cutting, Elena R. 0701
Cysticercosis Group in Peru, for the 1372
Cysticercosis Working Group, 1371
Cysticercosis Working Group in Peru 0772
For the Cysticercosis Working Group in Peru 0763
For the Cysticercosis Working Group in Peru 0765, 0766, 0769, 0771
For the Cysticercosis Working Group in Peru, 0764
Czajkowski, Lindsay 1358

D

Da, Dari F. 0269
Dabaro, Desalegn 0226
Dabira, Edgard D. 1269
Dabiré, Roch K. 0205, 0750
Dabiré, Roch K. 0998
Dacheux, Laurent 0180
da Conceicao, Virginia 1237
da Costa Araújo, Muana 1088
da Costa Maia, Carolina 1237
Da Fonseca, Flavio G. 1315
Dagg, Kendra 0554
Dagnon, Jean F. 0319
Daguise, Virginie 0522
Dah, Clarisse 0339, 0636
Dah, Noubar Clarisse 0794
Dahal, Prabin 0695
Dahan-Moss, Yael 0306
Dahlhoff, Haley 0412, 0667, 1069
Dahora, Lindsay C. 1026
Dahounto, Amal 0550
Dala, Dalito S. 0282
Dalgard, Clifton L. 0020
Dallmeier, Kai 1291
Damani-Yokota, Payal 0146
Damasceno, Renata F. 1382
Dambrauskas, Nicholas 1114
D'Ambrozio, Jonathan 0393
D'Ambrozio, Jonathan A. 0816
Dams, Lorene 0024
Damulira, Christopher 0365
Danboyi, Jacob 0432
Dangbenon, Edouard 0225
Dangy, Jean-Pierre 0631
Daniel, Wacira 1073
Daniels, Jonathan 0590
Daniels, Rachel 0926
Daniels, Rachel F. 0254, 1087
Danjoint, Djenie E. 0080
Dann, Sara M. 0446
Dansoko, Yacouba 0012, 0744
Dantas, Mayana Azevedo 1020
Danthanarayana, N. 0517
Dantzer, Emily 0244, 0648, 0732
Dantzler, Kathleen 0048, 0049
Danwonno, Harry 0189
Danziger, Samuel A. 0692
Dao, Boulaye 0694

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 278 for the list of speakers and session chairs in Plenary and Symposium Sessions.

Daou, Mariam 0784
Daou, Modibo 0250
Daouda, Abdoulaye 0997
Dara, Antoine 0250, 0665, 0725
Darby, Alistair C. 0475, 0539
Darveau, Spencer C. 0507
Das, Aatreyee M. 0283
Das, Pritimoy 0023, 0344, 0987, 1298
Das, Rina 0321
Das, Shyamashree 0851
da Silva, Gislaine C. Dutra. 1044
Da Silva, Maria F. H. 0324
da Silva, Wica 0718
Da Silva, Wica V. 0209
da Silva Orfano, Alessandra 1083
Das - Malawi SmartNet Initiative, Sabyasachi 0311, 0730
Datoo, Mehreen 1164
Datoo, Mehreen S. 0418
Datta, Dibyadyuti 0015, 0019, 0185, 0192, 0444, 0683, 1064, 1096, 1101
Datta, Shrimati 0033
Datta, Sumona 1257
Dau, Absalom 0567
Daubenberger, Claudia 0256, 0300, 0631, 0672, 0879, 1118, 1215
Daubenberger, Claudia A. 0293
Dauga, Catherine 0133
David, Zinga 0182
Davidson, Edgar 0004, 0153, 0472, 0597, 1030
Davis, Ashaaba 0097
Davis, Ashaba 0621
Davis, Emily 0617
Davis, Lwendo M. 0973
Davis, TrishAnn 0100, 0276, 1161
Davong, Viengmon 0781
Dawed, Adisu Abebe 1321
Dawson, Chanell 1392
Dawson, James L. 0424
Dawurung, Ayuba 0921
Dawurung, Ayuba B. 0101
Dayanand, Kiran K. 1053
Daza, Marcela 0590
Dean, Hansi 0160, 0161, 0573, 0583
Dean, Hansi J. 0157, 0572
de Assis, Leticia R. 1044
de Barros, Barbara 0371
Debe, Siaka 1136, 1155, 1191
Debebe, Hiwot 1321
Debellat, Frederic 0334
DeBoer, Mark 0079
DeBoer, Mark D. 1299
de Bondt, Garyn 1276
de Borman, Nicolas 1276
Debrah, Alexander Y. 1229, 1234
Debrah, Isaiah 0748
de Bruijni, Marloes 1166
de Carvalho, Eva 0282
Dechavanne, Celia 0625
Dechavanne, Sébastien 0625
de Cola, Monica A. 1059
Dedegbe, Hubert 0424
Dedeke, Gabriel A. 0865
de Dood, Claudia 1282
de Faria Grossi, Maria Aparecida 0864
Degli-Esposti, Mariapia 1173
De Gracia Gomez-Lorenzo, Maria 0195
Dei-Adomakoh, Yvonne 0063
Deik, Amy 1061, 1332
Deitsch, Kirk 0415
De Jaeger, Simon 0024
De Jesus, Carrie 0986
de Jong, Roos 1166
Deke, James 0837
Dela, Helena 1205
De La Barrera, Rafael 0887
De La Barrera, Rafael A. 1289
Delabre, Jason 1403
de Lacerda, Luna B. 0420
de la Guardia, Carolina 1252
del Aguila, Clara 1350
de Lamballerie, Xavier 1291
de la Parte, Lauren 0049, 0685
Delbecq, Scott 1033
De Leo, Giulio 1267
De Leo, Giulio A. 0919
Delgadillo, Miguel 0977
Delgadinho, Mariana 1200
Delgado-Ratto, Christopher 0234, 0235
de Lima Hutchison, Coll 0105
DeLong, J 1406
del Orbe-Matos, Diego 0977
Delorey, Mark 0890
Delvento, Giulia 0443, 1068
De Macedo Alface, Junica M. 0290
Demar, Magalie 0840
DeMaria, Natalia 0958, 1346
Demarta-Gatsi, Claudia 0218
Demas, Allison 0195
DeMaso, Christina 0160, 0161
de Mast, Quirijn 1031
Dembele, Alice 0012, 0744
Dembele, Benoit 0037, 0040, 0356, 0357, 0436, 0795, 0796, 0798
Dembelé, Estelle Lotio 0205
Dembele, Massitan 0037, 0790
Dembele, Yacouba 0645
Dembo - Malawi SmartNet Initiative, Edson 0311, 0730
Deme, Amady 0799
Deme, Awa B. 0254, 0926
Demetrius, Max 1229
Demons, Samandra 1062
DEN-301 study group 0161
DEN-304 & DEN-301 study groups 0160
Dena, Rogers 0630
Deng, Haiteng 0204
Deng, Yanhong 0980
Dengala, Dereje 0933
Dengela, Dereje 0997, 0997, 1012
Deni, Ioanna 0203
Dennington, Nina L. 1306
Denno, Donna M. 0347
Denny, Rachel 1013
DeNormandie, Justin 1345
Dent, Arlene 0912, 1056
Dent, Arlene E. 0678, 1104
Dentinger, Catherine 0628, 0706, 0713
Denyer Willis, Laurie 0775
Denyer-Willis, Laurie Denyer-Willis 0505
Deogratias, Cibinda N. 0273
De Oliveira, Lea C. 1382
de Oliveira, Lorena B. 0864
De PINA, Adilson 0649
Derilus, Dieunel 0131
DeRisi, Joseph L 0907
DeRisi, Joseph L. 1362
Derman, Richard J. 1109
de Rooij, Kees 0523
De Rosa, Stephen C. 0914
Desai, Meghna 0439
DeSanto, Kristen 1247
de Silva, A. Dharshan 0805
de Silva, Aravinda 0579, 1026
de Silva, Aravinda M. 0595, 0597, 1040, 1293
De Silva, B.G.D.N.K. 0481
De Silva, Farika 1206
De Silva, Lalindi N. 0351
de Silva, Nissanka 1250
DeSilva, Aravinda 1316
Desir, Luccene 0291
Désir, Luccène 0353, 0437
Desir, Luccene 1218
Desir, Martha 1218
deSlvia, Aravinda M. 1021
DeSouza Silva, Leandro 0607
DeSouza-Vieira, Thiago S. 1358
Desrousseaux - Malawi SmartNet Initiative, Caroline 0311, 0730
Dessie, Yadeta 0462
Detweiler, Angela 0907
de Vasconcelos, Jocelyne N. 0182
Devasiri, I. V. 0517, 0524
Devlin, Joseph 0044
de Waal Malefyt, R 1406
Dewasurendra, Rajika 1250
de Weggheleire, Anja 0424
Dewey, Betsy 0461
Dewey, Betsy C. 0515
Dey, Probin Kumer 0084
Dey, Ranadhir 1335, 1339
Dey, Sumanta 0195
Deye, Gregory A. 1112
Dhabhar, Firdaus S. 0896
Dhakal, Sanjaya 1238
Dhaliwal, Symren 0777
Dhanjay, Jhurry 0170
Dheerasinghe, D. S. Anoja F. 1179
Dheresa, Merga 0081, 0513, 0515
Dhimal, Meghnath 0905
Dhliwayo, Patience 1074
Diabaté, Abdoul F. 0784
Diabate, Abdoul Fatao 0790
Diabaté, Abdoulaye 0998
Diabaté, Abdoulaye 0746
Diabete, Abdoul Fatao 1270
Diagne, Moussa 0003
Diagne, Moussa M. 0002
Diakite, Mahamadou 0190, 0665
Diakité, Mahamadou 1106
Diakité, Marie 0040
Diakité, Nouman 0061, 0278
Diallo, Abdoulaye 0655
Diallo, Abdrahamane 1139
Diallo, Aliou 0012, 0744, 1139
Diallo, Amadou Tidiane 0278
Diallo, Aye Sousa 0640
Diallo, Bakary N. 0215
Diallo, Boubacar 0002
Diallo, Chebou 1139
Diallo, Ibrahima 0254, 0926
Diallo, Makonon 0842
Diallo, Mamadou O. 0621
Diallo, Moussa 0645
Diallo, Ousmane 0260
Diallo, Ousmane Oumou 1105
Diallo, Thierno 0061
Diallo Sousa, Aye 0422
Diamond, Michael S. 0153
Dianda, Frederic 0854
Dianna M., Blau 1324
Diao, Ndate 0799
Diar, Mahamat S. 0718
Diara, Malick 0968, 1130
Diarra, Amidou 0734
Diarra, Ayouba 0407
Diarra, Bacary S. 1051, 1115
Diarra, Balla 0422
Diarra, Issa 0250
Diarra, Kalifa 1281
Diarra, Lamine 0790, 1270
Diarra, Modibo 0725, 1281
Diarra, Sadio K. 0299
Diarra, Sophie 0263, 0747
Diarra, Yacouba 0645
Diarra, Youssouf 0194
Dias, Fernanda 0673
Diawara, Aïssatou 0913
Diawara, Halimatou 0294, 0422, 0640, 0842
Diawara, Sory Ibrahim 1072
Díaz, Pablo 0218
Diaz, Yamilka 0807, 1252
Diaz-Mancilla, Silvana 0767
Díaz-Morales, Ligia M. 0754
Díaz-Regañón, Ramón 0654
Dic-Ljiewere, Mercy 0603
Dicko, Abdourhamane 0012, 0744
Dicko, Alassane 0418, 0422, 0842, 0906, 1051, 1115, 1255, 1262, 1281
Dicko, Amadou 1213
Dicko, Ilo 1270
Dicko, Oumar 0422
Dickson, Emmanuel K. 0448
Didier, Bradley 0282
Dieme, Constentin 0148
Dieme, Ibrahima 0799
Die Ndiaye, Yaye 0926
Dieng, Awa 1151
Dieng, Cheikh C. 1084
Dieng, Massar 0913
Diestra, Andrea 1378
Diez-Valcarce, Marta 0176
Diggle, Peter J. 0434
Digre, Peder 0757, 1189, 1190, 1194
Dilliott, Daniel 0358, 0431
Di Lorenzo, Claudia 1382
Dilshan, U. H. B. Y. 0805
Dima, Henson 0652
Di Maggio, Lucia S. 0401
Dimene, Mércia 0282
Dimopoulos, George 1330, 1333
Dimoso, Kanuth 0315
Ding, Xavier 1083
Dinglasan, Rhoel 0152
Dinglasan, Rhoel R. 0503
Dini, Saber 0911
Diome, Tenning 0799
Dione, Diogoye 0799
Diones, Paula Corazon 0519, 0613
Diop, Boly 0799
Diouf, Mame B 0998
Diouf, Marie P. 1150
Direito, Ana 1184
Di Santi, Silvia M. 1092
Dismer, Amber 0282
Disotuar, Maria M. 1358
Dittrich, Sabine 0142, 0773, 0782
Diuk-Wasser, Maria 0872
Divala, Titus H. 0711
Divens Zambrano, Laura 0590
Dixon, Benika 1046
Dixon, Justin 0077, 0952
Dixon, Ruth 1232
Djata, Paolo 0209, 0718
Djimde, Abdoulaye 0255
Djimdé, Abdoulaye 0665
Djimde, Abdoulaye 1255, 1262, 1262, 1281
Djimde, Aboudaye A. 0725
Djune, Linda Y. 1227
Djune-Yemeli, Linda 0873
Dlamini, Bongani 0844
Dlamini, Bongani A. 0739
Doan, Thuy 0348
Dobbs, Katherine R. 0678
Dodd, Emily A. 0355
Dodean, Rozalia 0217
Doehl, Johannes P. 1358
Dogba, John 0097
Dogba, John B. 0621
Doggett, Stephen L. 1368
Dohert, Julie 0943
Dolenz, Charlotte 0064
Dolling, Nigel 0677
Dolo, Amagana 0421, 0422, 1281
Dolo, Housseini 0784, 0790, 1270
Dolo, Mathias 0407
Dolodec, David 0040
Dombrowsk, Jamille G. 1119
Domche, André 0545
Domingo, Gonzalo 1083
Dominguez, David 0160, 0572, 0583
Dominic, Catherine 0371

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 278 for the list of speakers and session chairs in Plenary and Symposium Sessions.

Donado, Carlos 1196
Donayre Urquizo, Marilly 1378
Donfack, Olivier T. 0256
Donfack, Olivier Tresor 0756, 1008, 1094, 1182
Dong, Shengzhang Dong 1330
Dong, Stephanie 0578, 1021, 1316, 1386
Dong, Yuemei 1330, 1333
Dongyele, Mathias 0788
Donkeu, Christiane 0224
Donnelly, Martin 0549, 1141
Donovan, Laura 0776, 0791
Donovan-Banfield, I'ah 1397
Donowitz, Jeffrey 1299
Doranz, Benjamin J. 0004, 0153, 0472, 0597, 1030
Dore, Diabe 0097, 0621
Dore, Dominique 0489
Dórea, Andreza 1340
Doritchamou, Justin 0906, 1255, 1262
Doritchamou, Justin Yai 1058
Dorman, Jack T. 0559
Dorny, Pierre 0768, 1371
Do Rosario, Joana L. 0491
Dorsey, Grant 0048, 0049, 0210, 0406, 0549, 0685, 0908, 0909, 1065, 1070, 1086, 1089, 1091, 1095, 1141, 1147
Dosoo, David 1160
dos Santos, Thayza M. I. L. 1041
Dossou, Yannelle 0625
Dotrang, Thoai 0020
Dotson, Ellen 0997, 0998, 1013
Dotson, Ellen M. 0124, 0562
Doucouré, Fousseyni 0407
Doucoure, M'Bouye 0421, 1255
Doucoure, M'Bouye 0906, 1262
Douglas, B 1406
Douglas, Nick 0629
Douglass, Janet 0482
Douine, Maylis 0738, 0840, 1369
Doumbia, Chata 0645
Doumbia, Lassina 0194
Doumbia, Mama N. 0037, 0040
Doumbia, Saibou 0440, 0660
Doumbia, Salif S. 0037, 0784, 0790
Doumbia, Seydou 0784, 1072, 1270
Doumbia, Seydou O. 0407, 0665, 1106
Doumbo, Ogobara K. 0250, 0255, 0681, 0725
Doung-Ngern, Pawinee 0163
Dourado, Fernanda S. 1028, 1315
Downham, Rachael L. 0393, 0816
Downs, Jennifer A. 1282
Drain, Paul K. 0065
Drake, Mary 1090
Drakeley, Chris 0029, 0236, 0406, 0444, 0734, 0842, 0902, 0908, 1095, 1107, 1159
Drakely, Chris 0843, 0927
Dreibelbis, Robert 0894
Dreyer, Staci 1018
Drogy, Madison S. 1220
Drolet, Barbara S. 0480
Drosten, Christian 0614
Drumond, Betânia P. 0586, 0845, 1361
Du, Ying 0914
Duarte, Elias 0530
Dubben, Bettina 0876
Dube, Busisani 0844, 1074
Dubischar, Katrin 0143, 0848
Dubot-Pérès, Audrey 0774, 0781
Duda, Kirsten 0957
Duddu, Sowmya 0933
Dueymes, Guillaume 1086
Dufault, Suzanne M. 0932, 1319
Dufera, Tadesse 0466
Duffey, Maelle 0196, 0218
Duffy, Fergal 0914
Duffy, James 0214
Duffy, Michael 0911
Duffy, Patrick 0299, 0906, 1255, 1262
Duffy, Patrick E. 0199, 0421, 0422, 0447, 0645, 0684, 0687, 1051, 1058, 1115, 1167, 1168, 1175
Duggal, Nisha K. 0890
Dul, Sokha 0147, 0156
Duman-Scheel, Molly 0137, 0555
Dumet, Lisset M. 0764
Dumet Poma, Lisset 0512
Dumont, Elin 1159
Dumonteil, Eric 0378
Duncan, Robert 0525
Duncan, Sherie 1166
Dunford, James 0151, 0563
Dunlop, James I. 0605
Dunn, Alexander R. 1404
Dunn, Julia 0409
Dünner, Robert P. 0493
Dunning, Jillian 0064, 0409
Duong, Tran N. 0120
Duong, Veasna 0165, 1317
Duparc, Stephan 0202
Dupuis II, Alan P. 0589
Duque-Canaan, Paula M. 0977
Duraffour, Sophie 0001
Durbach, Ian 0612
Durbin, Anna P. 1294
Düring, Rolf-Alexander 0307
Dussart, Philippe 0165, 1317, 1318
Dutra, Heverton 0935
Dutra, Karina R. 1028
Dutra, Walderez O. 1336, 1338
Dutta, Dr. Siddhartha 0851
Dutta, Sheetij 0419
Duyet, Le Van 1374
Dviwedi, Ankit 0296
Dwivedi, Ankit 0250, 0256, 0672, 0673, 1391
Dye-Braumuller, Kyndall 0544
Dye-Braumuller, Kyndall C. 0989
Dyer, Clare E. F. 1243
Dyer, Philip D. 0475
Dysoley, Lek 0409, 0881
Dyson, Zoe A. 0425
Dzanjalimodzie - Malawi SmartNet Initiative, Edward 0311, 0730
Dzikowski, Ron 0415
Dzoga, Mumini 1000
Dzul Rosado, Karla R. 1221, 1225

E

Eappen, Abraham 0934
Eappen, Abraham G. 0128, 0295
Earland, Dominique 0661, 0666, 1103
Earle, Duncan 0262
Early, Angela 0195, 0411, 0669
Early, Angela M. 0254, 0925, 0926
Earnest, James T. 0575
Earnest, Rebecca 0471
Easton, Alice 0044
Ebel, Greg 0967
Ebel, Gregory 0171, 0969
Ebener, Steeve 0518
Eberhardt, Nina 1373
Ebong, Chris 0210
Eboumbou, Carole 0224
Eburi-Losoha, Ester 0293
Eburi-Losoha, Esther L. 1215
Echazarreta Bolado, Hannia R. 1221
Echeverri Alegre, Jose I. 0381
Echeverry, Diego F. 0925
Echodu, Dorothy 1137, 1195
Echodu, Dorothy C. 1157
Eck, Paul V. 0919
Eckels, Kenneth H. 0887
Ecker, Jaymia 0945
Eckert, Erin 0012, 0308, 0320, 0565, 0658, 0663, 0744
Eckert, Jordan 0755
Eckles, Dean 0501
E. Conn, Jan 0838
Eddis, Charlotte 0277, 1076, 1139
Edeawe, Osahogie I. 0001
Edelman, Robert 1289
Eder-Lingelbach, Susanne 0143, 0848
Ederveen, Agnes L. H. 0448
Edi, Constant 0483
Edidi, Francois 0002, 0003
Edidi-Atania, Francois 0424
Edielu, Andrew 0396
Edor, Joseph 1345
Edridah, Tukahebwa 0396
Edris, Yunus 0466
Edstein, Michael D. 0884
Edu, Isu Elemi 0944
Edupuganti, Srilatha 0595
Edu-Quansah, Elijah P. 0621
Edu-Quansah, Elijah Paa 0097
Edwards, Jessie K. 1099, 1277
Edwards, Kathryn M. 1344
Edwards, Matthew 1178
Edwards, Nick 1164
Edwin, Simple 0728, 1280
Egan, Timothy 0643
Eganyu, Thomas 1137, 1157, 1195
Egeonu, Attamah Isani 0041
Egger, Joseph R. 0785
Egwu, Elijah 0939
Egyir, Beverly 1204, 1205
Ehoche, Akipu 0022
Ehrens, Alexandra 0484, 1310
Ehrlich, Hanna 0205, 1071
Eichner, Martin 0568
Eifediyi, Gloria 0001
Eigege, Abel 0432, 0433
Eijkemans, Marinus 0936
Eisele, Thomas P. 0441, 1158
Eisenberg, Joseph N. S. 0327
Ekandji, Joseph 0273
Eka Ondo, Martin 0293
Ekawati, Lenny L. 0886
Ekoka, Elodie 0306
Ekoko Wolfang, Elysee 0184
Ekom, Dorathy 1134
Ekpenyong, Janet 0946
Ekpo, Uwem F. 0352, 0793, 0865
Ekwe, Asuquo 1134
Ekweremadu, Diwe 0939, 1081
Ela, Jose Antonio M. 1182
Elahi, Mehdy 1287
Elamin, Samira 0059
Elanga, Emmanuel 0184
El Arifeen, Shams 0515
El-Bendary, Mahmoud 0349
Eleveld, Alie 1263
El Gaaloul, Myriam 0633
Elias, María Josefina 0383
e Lima, Rosemary S. 0864
Elizondo, Douglas 0474
Elkasabi, Mahmoud 0715
Elkheir, Natalie 0371
Elliott, Alison 0396
Elliott, Richard 1137, 1157, 1195
Ellis, Angela 0414
Ellis, Jayne 0360, 0361
Ellison, Damon W. 0163
Ellner, Jerrold 1388
Ellner, Jerrold J. 0817
El Mohammady, Hanan 0349, 1201
Eloi, Silga 0424
Eloit, Marc 0990
Elsayed, hala 0870
El Shabrawi, Ahmed 0349
Elshafie, Balgesa E. 1211
Elson, William H. 1350
Elviss, Nicola 0862
Elwood, Sarah 0079
Elwood, Sarah E. 1299
Em, Sovannarith 1062
Embury, Paula 0678
Emch, Michael 0651, 0861, 1098, 1099, 1160, 1277
Emennaa, Asabe D. 0173
Emerling, Daniel 1170
Emerson, Lisa E. 1203
Emerson, Paul 1238
Emmanuel, Yamo 1073
Emong, Daniel 0025, 0107
Emukah, Emmanuel 0433
Endy, Tim 0163
Endy, Timothy 1295
Endy, Timothy P. 1320
Eneanya, Obiora A. 0435
Engel, Emily 1220
Engelman, Daniel 0038, 0869, 0993
England, Marion 0115
Enne, Joseph 0070
Enosse, Sonia 1275
Enria, Luisa 0436
Enriquez, Raul 0760
Entwistle, Julian 0995
Enyia, Linda-Kaka 0944, 0946, 1134
Epaso, Victor 0002
Epelboin, Loïc 1369
Epstein, Adrienne 0530, 0549, 1086, 1089
Epstein, Judith 0447
Er, Yi Xian 0044
Erameh, Cyril 0603
Erameh, Cyril O. 0001, 0336
Ercumen, Ayse 0897
Eregowda, Anusha 0939
Erice, Clara 0858
Erickson, Timothy A. 1242
Ernesto, Jeffrey 0182
Ernst, Kacey 0872
Ernst, Kacey C. 0994
Erskine, Isaac Joe 0682
Esamai, Fabian 1109
Escadafal, Camille 0142, 0773
Escala, Kevin 1054
Escalante, Ananias 0671, 1116
Escalante, Ananias A. 0252
Escalante, Ananias A 0131
Esch, Keith 0630, 0721, 0881
Escobar, Denis 1004
Escobedo-Vargas, Karin 1350
Escoffier, Emilie 0633
Esiekpe, Mudiaga 0921
Esiekpe, Mudiaga K. 0101
Espinosa, Benjamin 1208
Espinoza, Daniel 0596
Espinoza, Daniel O. 0595
Espinoza-Hurtado, Oswaldo G. E. 0760
Espitia-Almeida, Fabián 0089, 1047
Essafi-Benkhadir, Khadija 0377
Essangui, Estelle 0224
Essomba, Rene Ghislain 0403
Essone, Paulin 1160
Essuman Amoakoma Ama, Gabriella 0138
Estofolete, Cassia F. 1028, 1315
Eteki, Lucrece 0976
Ettwiller, Laurence 0475
Etuk, Etieno 1134
Evangelista, Guilherme F. de Britto. 1336

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 278 for the list of speakers and session chairs in Plenary and Symposium Sessions.

Evans, Carlton A. William. 1257
Evans, Chris 0544, 0989
Evans, David 0024
Evans, W. Douglas 0495
Evbuomwan, Erasogie 0101, 0921
Ewer, Katie J. 0418, 1164
Exantus, Lerby 0490
Eyang, Marta Alene O. 0293
Eyang, Marta Alene O. Guillermo Garcia. Garcia. 0300
Eyase, Fredrick 0135
Eyes Escalante, Melisa 1226
Eyono, Jeremias N. Mba. Garcia. 0947
Eyono, Jeremias Nzamio M. 0756, 1182
Ezeiru, Sonachi 0939, 1081
Ezike, Ngozi O. 0028

F

Fabbri, Marilyn 1209
Fabgami, Lola 1061
Fabiano, Oliveira 1335
Fabra-García, Amanda 1166
Fabre, Eduardo 0181
Faccin, Alice 0162
Fadila, Nadia 0886
Fahsbender, Liz 0907, 1362
Failoc-Rojas, Virgilio E. 0616
Fairfax, Keke 0449
Fairhurst, Rick M. 0190
Fairley, Jessica K. 0864, 1203, 1326
Faisal, Khaledul 0379
Faizah, Astri Nur 0585
Fakhr, Yuliya 1165
Fakih, Bakar S. 0248, 0283, 0883
Fakudze, Phelele 0739
Falconi-Agapito, Francesca 0155
Falkard, Brie 0268
Falke, Dave 0060
Fall, Cheikh Binetou 0655
Fall, Fatou Ba 0254
Fall, Ibrahima S. 0002
Famade, Titilayo 1154
Famida, Syeda L. 0896
Fancourt, Nicholas 0038
Fang, HengSheng 1295
Fanomezantsoa, Ralinoro 0628
Fantin, Raianna F. 0684
Farag, Tamer 0501
Faramand, Taroub 0955
Faria, Nuno 1028
Farinas, Maria L. R. N. 1092
Farmer, Aaron R. 0610
Farris, Peter 0024
Farron, Madeline 0096, 0097
Farron, Madeline R. 0621
Faruque, Abu S. 1199
Faruque, Abu S. G.. 0390
Faseun, Abidemi O. 0831
Fatou, Mathurin B. Jean. 1308
Fatunmbi, Bayo S. 0210
Fauver, Joseph 0471, 0601
Fauver, Joseph R. 0577
Fauziyah, Shifa 0585
Fay, Michael P. 1359
Fay, Rachel L. 0599
Faye, Babacar 0655, 1150
Faye, Martin 0002, 0003
Faye, Ousmane 0002, 1270
Faye, Sophie 1151
Fazail, Muhammad W. 0968, 1130
Fé, Nelson F. 0558
Feasey, Nicholas 0774, 0862
Feasey, Nicholas A 0366
Feaster, Matthew 0975
Fedorova, Anya 0491
Feeney, Margaret 0021, 0048, 0049, 0685, 1166
Feichtner, Anja 1229
Felgner, Philip L. 0681
Feng, Mei 0374
Fenstermaker, Sydney 0445
Fentaw, Surafel 1324
Ferazzi, Silvia 0733
Ferdig, Michael 0246
Ferdig, Michael T. 0412, 0667, 0674, 0855, 0924, 1067, 1069
Ferdous, Zannatul 0125, 0148
Ferguson, Heather M. 0746
Fernald, Lia C. H.. 0896
Fernander, Elizabeth 0683
Fernandes, Fabio F. 1382
Fernandes, Priyanka 0817
Fernandez, Lauralee 0763, 0765, 0766
Fernandez, Lauralee J. W. 0960, 1371
Fernandez, Maria P. 0872
Fernández, Marisa 0383
Fernandez, Stefan 0161, 0163, 0519, 0610, 0613, 0904, 1317, 1320
Fernandez, Valerie 0328
Fernandez-Carballo, Leticia 0142, 0773
Fernandez-Montero, Alejandro 0489
Fernandez-Sesma, Ana 1294
Fernando, Aurax 0625
Fernando, Deepani D. 0109, 0112, 0477, 0478
Fernando, Sanduli 0850
Fernando, Sumadhya Deepika 0720
Feroleto, Margot 0527
Feron, Romain 1395
Ferrão, João L. 0666, 1103
Ferrão, João L. Ferrao. 0661
Ferreira, Ariela M. 1382
Ferreira, José A. 0864, 1326
Ferreira, Marcelo 0883
Ferriss, Ellen 0242, 1110
Fidel Zavala, Fidel 1169
Fidock, David 0221, 0643
Fidock, David A. 0203, 0457, 0923
Fievet, Nadine 0625
Fikrig, Kara 0930
Fillon, Patrice 0424
Filz, Anna 1311
Fintzi, Jon 0421, 0907
Fiorenzano, Jodi 0990
Firima, Augustine 0944, 1134, 1153, 1154
Firth, Cadhla 1368
Fisayo, Temitope 0371
Fischer, Alexandra 0722
Fischer, Chelsea 1233
Fischer, Katja 0109, 0112, 0477, 0478
Fischer, Kerstin 0401, 0874
Fischer, Peter 0487
Fischer, Peter U. 0401, 0435, 0874, 1356, 1357
Fischer, Rebecca S. B. 1046
Fischer, Steve 0060
Fischinger, Stephanie 0607
Fisher, Carolyn 0525
Fishman, Veniamin 1395
Fitch, Elizabeth 0061
Fitchett, Elizabeth J. A. 1216
Flaherty, Katelyn E. 0490
Flaherty, Siobhan 0220
Flanagan, Kelly A. 1241
Flatley, Cecilia 0997
Flaxman, Amy 1164
Flecker, R. H. 0771
Fleit, Madeline R. 1217
Fletcher, Maria 0342
Flora, Meerjady Sabrina 0023
Flores-Mendoza, Carmen 1350
Flores Saavedra, Wilber E. 1257
Flores Sánchez, Rodrigo A. 0754
Florey, Lia 0716, 1090
Florez, Daniela A. 0698
Flueckiger, Rebecca 0920
Flynn, Julia 0633
Fofana, Abdrahamane 0645
Fofana, Aboubacar 0010
Fofana, Aissata 0278
Fofana, Gaoussou 0645
Fofana, Nelson 0721
Fogang, Balotin 0224
Fogel, Gary 1208
Fokam, Carine 0356, 0795
Fokam Tagne, Carine 0798
Fola, Abebe A. 1102
Folschweiller, Nicolas 0166
Folson, Gloria 0327
Fomba, Aboubakar K. 1106
Fondjo, Etienne 0184
Fong, Rachel H. 0153
Fongnikin, Augustin 0316, 1181, 1355
Fonjungo, Peter N. 0424
Fonnie, Richard O. 0806
Fonseca, Benedito A. L. 0577
Forconi, Catherine 1174
Forconi, Catherine S. 0607, 1113
Formenty, Pierre B.h. 0424
Fornadel, Christen 0757, 1189, 1193, 1194
Forneris, Federico 1334
Forrer, Armelle 0482
Forsberg, John 1293
Forshey, Brett 0151
Forson, Akua O. 0742
Forsyth, Colin J. 0503
Forsyth, Jenna 1000, 1000
Fortes-Gabriel, Elsa M. V. 0324
Fortini, Mary B. 0333, 1242
Fortune Melingui, Bernard 0976
Foster, Geraldine 0303, 0746
Foster, Geraldine M. 1354
Fouch, Mallorie E. 0004, 0472, 1030
Fowler, Kelly 0783
Fox, Anne 0152, 0531, 1204, 1205
Fox, Douglas 0470
Fox, Mark S. 1374
Foy, Brian 0009, 0967, 0969
Foy, Brian D. 0205, 1351
Fradico, Jordana R. 0845
Fraga, Lucia A. 1326
Fraga, Lucia A. O. 0864
Franca, Rafael F. O. 0577
Francalino Rocha, Maria J. 1088
Francis, Filbert 0219
Francis, Joshua R. 0038, 1237
Francis, Suzanna C. 1264, 1265
Franco, Magdalena 0129
Franco, Virginia 0195
Franco Gutierrez, Jessica L. 1257
Francois, Ruthly 0824
Françoise - Malawi SmartNet Initiative, Emmie 0311, 0730
Franco Martins, Jose 0491
Franco-Paredes, Carlos 1245, 1247
Franke-Fayard, Blandine M. 0193, 0292
Fransis, Filbert 1138
Franzeck, Fabian 0370
Fraser, Jamie 1217
Fredregill, Chris 0554, 0556
Freedman, Elizabeth 0190, 0408, 0650, 0659
Freitag, Nancy E. 1378
French, Michael 1239
French, Mike , 0918
Friberg, Heather 1295
Fried, Michal 0422, 1051, 1058, 1115
Friedman, Cindy R. 0027
Friedman, Jennifer 0396, 1285, 1286
Friedman, Jennifer F. 0507, 1174
Friedman, Michael 0987, 1298
Friedman-Klabanoff, DeAnna 1112
Friedman-Klabanoff, DeAnna J. 0929, 1360
Fritschi, Nora 1100
Fritz, Megan 0570
Froude, Jeffrey W. 1289
Fry, Steven N. 1308
Fuchs, Aline 0218
Fuchs, George J. 0390
Fuentelzas Rosado, Claudia D. 1221
Fuimaono, Saipale 0488
Fujimori, Gavin F. 0607
Fujiwara, Ricardo 0684
Fukuda, Mark 0653
Fukuda, Mark M. 1062
Fuller, Brian 0037, 0798
Fuller, Brian B. 0797
Fuller, Trevon 1307
Fumagalli, Marco 1334
Fung, Christian 0615
Fung, Isaac Chun-Hai 1260
Furrer, Lavinia 0759
Furu, Peter 0788
Fuseini, Godwin 0947, 1008, 1182
Fustamante, Lizbeth 0772
Futami, Kyoko 0994

G

Gabaitiri, Lesego 0844
Gabaldon, Juan C. 0228, 0489
Gabo, Toki Pascal 1356, 1357
Gabriel, Sarah 0769
Gabriël, Sarah 1372
Gabrieli, Paolo 0113, 0127, 1334
Gabrysch, Sabine 0325
Gachon, Philippe 1086
Gaddi, Eduardo 0383
Gadiaga, Libasse 0012, 0744
Gadoury, Christine 1287
Gaff, Holly 0985
Gainey, Monique 0006, 0035
Gajewski, Anna 0474
Galactionova, Katya 0263
Galappaththi-Arachchige, Hashini N. 0050, 0395
Galatas, Beatrice 1105
Galatas, Beatriz 0405, 0694
Galick, David 1091
Galindo, Muriel 0840, 1369
Galindo-Tsoukas, Claudia 0162
Gallagher, Shannon 0907
Gallagher, Thomas 0024
Gallichotte, Emily N. 0171
Gambinga, Brighton 1074
Gamboa, Dionicia 0234, 0235, 0838, 1005
Gamboa, Ricardo 0763, 0765, 0766, 0771, 0960, 1371
Gambogi de Ornellas, Letícia 1286
Gamo, Francisco Javier 0222
Gamo, Javier 0195
Gandhi, Preetam 0642
Ganesan, Sundar 1115
Gangavarapu, Karthik 0002, 0601
Gankpala, Lincoln 0435
Gannavaram, Sreenivas 0445, 1339
Ganou, Adama 1136, 1155, 1191
Gansané, Adama 0010, 0757, 1136, 1155, 1185, 1189, 1191, 1192, 1194
Gansane, Adama 1354
Gao, Dexiang 0009
Gao, Jin-Ming 0212
Gao, Lixin 0295, 0473

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 278 for the list of speakers and session chairs in Plenary and Symposium Sessions.

Garbern, Stephanie C. 0035, 1302
Garboczi, David 1168
Garceau, Carli 1241
García, Guillermo A. 0256, 0293, 0300
Garcia, Guillermo A. 0631
García, Guillermo A. 0672, 0756
Garcia, Guillermo A. 0879
García, Guillermo A. 0947, 1008, 1094
Garcia, Guillermo A. 1118
García, Guillermo A. 1182, 1215
García, H. H. 0771
Garcia, Hector H. 0512
García, Hector H. 0760
Garcia, Hector H. 0761, 0762, 0763, 0764, 0765, 0766, 0768, 0769, 1371, 1372
Garcia, Hector H. 0767
Garcia, Patricia J. 0512, 0764
Garcia, Stefano 0234, 0235
Garcia Carreras, Bernardo 0891
Garcia-Carreras, Bernardo 0163, 1317
Garcia-Rivera, Jose A. 0156, 1364
Garel, Mischka 1324
Garg, Mahendra K. 0574
Garg, Shreeya 0197
Garishah, Fadel M. 1031
Garrett, Denise 1292
Garuti-Rodriguez, Helena Maria 0222
Gary, Weil J. 0354
Garza-Hernandez, Javier A. 0177, 0535
Gasem, Muhammad H. 1031
Gass, Katherine 0488, 0875
Gasser, Robin 0477
Gasser, Robin B. 0112, 0478
Gatakaa, Hellen 0708, 1129
Gates Foundation, Bill and Melinda 0526
Gatete, Jean de Dieu 0506
Gato, Saidath 0506
Gaudreault, Natasha N. 0005
Gavidia, Cesar M. 0772
Gaye, Omar 1150
Gaye, Seynabou 0209, 0718
Gazzinelli, Andréa 1286
Gazzinelli, Ricardo 0420
Gazzinelli-Guimaraes, Pedro H. 1313
Gazzola, David 1241
Gbedande, Komi 1173
Gbegbo, Martial 0316, 1355
Gbelee, G. Burgess 0097
Gbelee Jr, G. Burgess 0621
Gbewo, Isaac 0542
Gbewo, Sonnie Z. 0542
Gebeyehu, Netsanet A. 0031
Gebhardt, Mary E. 0313, 0559
Gebrehanna, Ewenat 0961
Gefen-Halevi, Shiraz 0034
Gehrke, Lee 1315
Gelatt, Richard H. 1130
Gelber, Casey E. 1112
Geluykens, Peggy 1291
Genisca, Alicia E. 0006
Geoffrey, Otto 1095
George, Christine Marie 0824, 0827, 0863
George, Kristen 0751
Gerardiin, Jaline 0268
Gerardin, Jaline 0028, 0260, 0261, 0689, 0694, 0734, 1105
Gerberg - Malawi SmartNet Initiative, Lilia 0311, 0730
Gerken, Keli N. 0181
German, Jennifer 0615
Gershtenson, Maya 1133
Gerth-Guyette, Emily 1085
Gerwick, William H. 0203
Gesase, Samwel 1138
Gessese, Demelash 1321
Getachew, Asefaw 0262
Getachew, Dejene 0933
Gethi, Dickson 0392, 0515
Geurten, Fiona J. 0193, 0292
Ggupta, Shikha D. 0078
Ghani, Azra C. 0444
Ghansah, Anita 0677, 1160
Ghogomu, Mbigha G. 0620
Ghosh, Prakash 0379
Gibbs, Lisa C. 0449
Gibson, Daragh A. 0754
Gibson, Janna 1117
Gidado, Saheed 0728, 1280
Giesbrecht, David 1065
Gignoux, Etienne 1144
Gilbert, Ian 0221
Gilbert, Murielle 1218
Gilbert, Renald 1287
Gilboa, Suzanne M. 0590
Gilder, Mary Ellen 0464
Gil Gomez, Hernando 0751
Gilleard, John 1240, 1376
Gilman, Robert 0762, 1261
Gilman, Robert H. 0768, 0772, 0812, 1253, 1378
Gilman, Robert H. 0767
Gil-Merino, Rodrigo 0218
Gimbel, Sara 0764
Gimbel, Sarah 0512
Gimnig, John 0731
Ginete, Catarina 1200
Giorgi, Emanuele 0434
Giraldo-Calderon, Gloria I. 0245
Girgis, Samia 1201
Girma, Zerihun 0515
Girod, Romain 0133, 1366
Gisaina, Joseph 0198
Gitahi, Priscillah 1144
Gitaka, Jesse 0885
Gitanya, Peter 0315, 0320
Githeko, Andrew 1007
Githeko, Andrews 0748
Githuka, George 0717
Gitonga Mathenge, Peterson 0676
Gittis, Apostolos 1168
Giurgea, Luca T. 1358
Glasner, Dustin 0469
Glass, Kathryn 1235
Glass, Tracy R. 0370
Glatman-Zaretzky, A 1406
Glenn, Gregory 0418
Gloria-Soria, Andrea 1397
Gnanguenon, Virgile 0304
Goba, Augustine 0806
Gobat, Nina 0501, 0965
Gobeau, Nathalie 0218, 0633
Goco, Norman 0102, 0979
Godana, Omar 0095, 0144
Goddard, Frederick G. 0951
Godwin, William W. 0339
Goel, Varun 0275, 0651, 1160, 1277
Goethals, Olivia 1291
Goethert, Heidi 0868
Goff, Sarah 0183
Gogue, Christelle 0010, 0757, 1136, 1155, 1187, 1189, 1190, 1191, 1192, 1193, 1194, 1354
Goh, Brendon 0884
Goh, Ying-Ying 0975
Goita, Sekou 0645
Golassa, Lemu 1084
Goldenberg, Robert L. 1109
Goldfarb, David M. 0901
Goldman, Ira 0626
Goll, Johannes B. 1112
Gollob, Kenneth J. 1336
Golumbeanu, Monica 0200, 0265, 0729, 0740
Gomane, Sergio 1278
Gomes, Cristopher 0420
Gomes, Giap Passos F. Pereira 1259
Gomes, Jim 0778
Gomes de Sousa, Francielle T. 0469
Gómez, Ana H. 1004
Gomez, Giovan F. 0121
Gómez, Hazel 0218
Gómez, Joaquín 0234, 0235
Gomez, Melissa 1344
Gomez, Patricia 0724
Gomez-Camargo, Doris 0089
Gomez-Camargo, Doris E. G. 1047
Gomez-Dantes, Hector 0575
Gomez Maldonado, Diego 1186
Gomez Suarez, Jonathan M. 1257
Gomulski, Ludvik 0476
Gonahasa, Doreen 0025, 0107
Gonahasa, Samuel 1089, 1141, 1157
Gonçalves, Andreza P. 0586, 0845
Gonçalves, Sónia 0925
Gonsales-Gustavson, Eloy 0769
Gonzales, Andrew 0875
Gonzales, Isidro 0767
Gonzales, Manuel 0437
Gonzales-Gustavson, Eloy 0771, 1372
Gonzalez, A. E. 0771
Gonzalez, Armando E. 0762, 0768, 0769
Gonzalez, Armando E. 0767
Gonzalez, Estela 1003, 1178
Gonzalez, Fredman 0176
González, Fredman 0330
Gonzalez, Fredman 0818
González, Fredman 0861, 1039
Gonzalez, Fredman 1040
Gonzalez, Maritza 0590
González, Raquel 0439
Gonzalez, Raquel 0733
Gonzalez-Carta, Karina 0146
González- Jiménez, Mario 0746
González- Peña, Rodolfo 0535
González-Peña, Rodolfo 0177
González-Zeno, Gladys 0966
Goodhew, Brook 1210
Goodhew, Erica B. 1211
Goodman, Heather 0645
Goodwin, Emily 0241
Goodwin, Justin 0213, 0641, 1057
Gopal, Deepa 0778
Gopalakrishnan, Maya 0574
Gopinadhan, Adnan 0192, 1064
Gopinath, Deyer 0284, 0285, 0839
Gorae, Christina 0993
Gordeuk, Victor R. 0444
Gordo, Marcelo 0558
Gordon, Alexandra 0736
Gordon, Aubree 0474, 0826
Gordon, Catherine A. 0054
Gordon, Melita 0334
Gorentz, Katy 0080
Gorman, Taren 1273
Gornsawun, Gornpan 1083
Gosi, Panita 1062
Gosling, Roly 0844, 1156
Goss, Charles W. 0435
Goswami, Debashree 0301, 1117
Gottstein, Bruno 0759
Goupeyou-Youmsi, Jessy 1183
Gouro, Samira 0997
Govere, John 0841
Govoetchan, Renaud 1355
Gowda, Channe D 1053
Gower, Emily W. 0920
Gower, Jeremy 0857
Goyal, Manish 0415
Grabowski, Jeffrey M. 0867
Graham-Brown, John 0486
Grance, Melissa 0150
Grandjean Lapierre, Simon 0489
Granich - Malawi SmartNet Initiative, Reuben 0311, 0730
Granja-Perez, Pilar 0575
Grant, Donald 1220
Grant, Jessica R. 0398, 0874
Gräter, Tilmann 1373
Gratz, Jean 1299
Graves, Michael C. 0328
Graves, Patricia 0875
Graves, Patricia M. 0488, 1235
Gray, Gregory C. 1364
Gray, John H. 0098
Gray, Keith L. 0362, 0814
Gray, Richard T. 0086
Gray, Sean A. 0485
Greby, Stacie 0022, 0101, 0352, 0921, 1348
Greby, Stacie M. 1322
Green, Cindy 1143
Green, Dominique L. 0427, 0428
Green, Donna L. 0086
Green, Edward 0774, 0903
Green, Edward W 0366
Green, Michael D. 0012, 0744
Green, Sharone 0904
Green, Tina 0573
Greene, Sarah E. 0487
Greenhouse, Brian 0048
Greenhouse, Bryan 0530, 0909, 1089, 1091, 1166
Greenleaf, William 0048
Greenwood, Brian 0418, 1269, 1281
Grenfell, Bryan T. 1035
Grenfell, Rafaella F. 0394
Grieco, John P. 0971, 1179, 1350
Griesenbeck, John S. 0653
Griffin, Jamie 0444
Griffin, Nicholas 0832
Griffith, Kevin 1090
Griffith, Matt 1153, 1154
Grifoni, Alba 1022
Grigg, Matthew J. 0444, 0624
Grimberg, Brian T. 1080
Grimes, Katie 0154
Grinyo, Ariadna 0472, 0597, 1030
Griswold, Emily 0041, 0359, 0432, 0433
Grobler, Anneke C. 0993
Groger, Mirjam 0001
Gromowski, Gregory 1295, 1317
Gromowski, Gregory D. 0887, 1289, 1291, 1293
Gross, Michaela 0175
Grout, Lise 1144
Grover, Elise 0051, 1268
Groves, Emily 0629
Grubaugh, Nathan 0471, 0601
Grubaugh, Nathan D. 0577
Gruenberg, Maria 0634
Gruetzmacher, Barbara 1234
Grüner, Beate 0758, 1373
Guagliardo, Sarah 1210
Guagliardo, Sarah A. J. 1322
Gual Gonzalez, Lidia 0522
Gubio, Aishatu B. 0074
Gucciardino, Michela Anna 0922
Gudapati, Deepika 1247
Gudoi, Sam S. 0241
Guelbeogo, Moussa W. 0010, 1136, 1155, 1191, 1192, 1194
Guelbéogo, W. Moussa 1354
Guelbeogo, Wamdaogo Moussa 0734
Guerin, Amandine Nicolle Germaine 1398

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 278 for the list of speakers and session chairs in Plenary and Symposium Sessions.

Guerra, Carlos A. 0256, 0631, 0756, 0879, 0947, 1008, 1094, 1182
Guerra, Marta 0097
Guerra, Marta A. 0621
Guerrant, Richard L. 0332
Guerrero, David 1305
Guerrero, William 0337, 0338
Guevara, Carolina 1350
Guevara, Maria E. 0223
Guevara-Cuellar, Cesar Augusto 0451
Gueye, Alioune B. 0209, 0718
Gueye, Alioune Badara 0254
Gueye, Fatou 0798
Gueye, Ousseynou 1197
Gueyeg, Abou Salam 0424
Guglielmo, Federica 0010, 1185
Guido, Marisa 0274
Guidotti, Jessica 0875
Guindo, Abdoulaye 0037
Guindo, Boubacar 0037, 0040, 0798
Guindo, Bouréima 0250
Guindo, Issa 1270
Guindo-Coulibaly, Négnorogo 1034
Guinovart, Caterina 0405
Guira, Matilibou 0794
Guirou, Etienne 0631, 0879
Guizani, Ikram 0377, 0454
Gullickson, Cricket C. 1035
Gullicksrud, J 1406
Gullicksrud, Jodi A. 0459
Gumbo, Austin 1277
Gumbo - Malawi SmartNet Initiative, Austin 0311, 0730
Gunasekera, Kumudunayana T. d. 0720
Gunasena, S 0517
Gunasena, S. 0524
Gundersen, Svein G. 0050, 0395
Gunter, Sarah M. 0333, 0556, 1015, 1242
Günther, Stephan 0001, 0603
Gure, Tadesse 0466
Gurley, Emily 0461, 0462, 1324
Gurley, Emily S. 0078, 0093, 0465, 0499, 0515, 0520
Gurley, Emily S. 0084, 0516, 0609, 0941, 0950
Gushiken, Eduardo 1253
Gute, David 0900
Gutierrez, Lester 0176
Gutiérrez, Lester 0330, 0818
Gutierrez, Lester 0861, 1039
Gutman, Julie 0025, 0104, 0106, 0107, 0272, 0279, 1090
Gutman, Julie R. 1155, 1390
Guzman, Gerber 1344
Guzman, Mitchel 0234, 0235
Gwakuba, Ezekiel 0901
Gwanzura, Lovemore 1110
Gwesa, Gulu 0097, 0621
Gwyn, Sarah 0101, 0921, 1210
Gwyn, Sarah E. 1322
Gyaase, Stephaney 1160
Gyan, Ben 0682
Gyanwali, Pradip 0905
Gyapong, Margaret 0042
Gyr, Niklaus 0390

H

Haase, Steven B. 0190
Habte, Tedila 0776, 0791
Hachey, Wayne 0594
Hackerman, Andre 1279
Hadfield, James 0002
Hadi, Melinda P. 0745, 0996
Hadl, Sandra 0143
Hagemann, Benjamin 1373
Hagos, Biniam 0981
Hahn, Beatrice 1391
Hahs, Amy 1368
Haidara, Bayaya 0421
Haidara, Dade Ben Sidi Ben Bouillé 0194
Haikal, Desiree S. 1382
Haile, Mahteme 1321, 1323
Haile, Meseret T. 0412, 0460, 0667, 0674, 0924, 1067, 1069
Haile, Mignote 1151
Hailekiros, Fikre 0482
Haines, Lee 0752
Hainsworth, Michael 0441, 1158
Haji, Khamis A. 0565
Haji, Khamis A. 0320
Hakim, Jill 0530
Hakizimana, Emmanuel 1194
Halil, Katya 0733
Halili, Sara 0398
Hall, David R. 1328
Hall, Matthew 0935
Hall, Samantha 0778
Hall, Thomas 0211, 0713, 0944, 0946, 1133, 1134, 1135, 1148, 1153, 1154, 1208
Halloway, Veronica 0028
Halsey, Eric S. 0410, 0623
Hama, Moustapha 0881
Hamad, Ali 0293, 1215
Hamada, Yohhei 1348
Hamade, Prudence 0029
Hamadou, Sita 0798
Hamainza, Busiku 0441, 0693, 0736, 0844, 1158
Hamaluba, Mainga 0418
Hamani, Boube 0997
Hamano, Shinjiro 1288, 1335
Hamapumbu, Harry 1107
Hamed, Almutasem 1236
Hamel, Donald J. 0600
Hamer, David 0345
Hamer, Davidson H. 0778
Hamer, Melinda J. 0887
Hammond-Addo, Roland 0956
Han, Alison 1358
Han, Barbara 0151
Hancock, Penelope 1349
Hancock, Penelope A. 1353
Handali, Sukwan 0053, 1230
Handley, Becca L. 0902
Handunnetti, R. 0524
Hang, Jun 0615
Han Lee, Kyu 0515
Hanley, Kathryn A. 0558, 1009
Hanley, Nick 0835
Hannah, Wu 0396
Hansen, Carl 1166
Hansen, Ivo 0908
Hansen, Natasha 0716
Hansingo, Isaiah 1264, 1265
Hao, Yue 0212
Hapairai, Limb K. 0555
Happi, Christian 0603
Haque, Rashidul 0035
Haque, Rehnuma 0829, 0859
Haque, Ubydul 0158
Haran, John 0607
Harb, Omar 0245
Harcourt, Brian H. 0024
Harding, Doris 0630
Harding-Esch, Emma 1210
Hardjopawiro, Loretta 0094
Hardwick, Matthew 1037
Harerimana, Jean M. 0703
Harfield, Stephen 0875
Hargett, Alissa 0889
Hariga, Maaoui 0454
Harigua-Souiai, Emna 0377, 0454
Harimalala, Mireille 1366
Harkins, Michelle 1258, 1347, 1384, 1385
Harman, Madison 0986
Harmon-Gray, Wahdae-mai 0362, 0814
Harmon - Malawi SmartNet Initiative, Shannon 0311, 0730
Haro, Alassane 1281
Haro, Raul C. 1118
Haro Berrospi, Maria C. 1257
Harouna, Abdoul Naser 0348
Harp, Keri O. 0124, 0562
Harrell, Jonathan G. 0503
Harrell, Robert A. 0128
Harriet, Acio 0206
Harrington, Laura 0930
Harrington, Whitney 0021
Harris, Chantal Tashae 1399
Harris, Emma 0005, 0129, 0967, 0969
Harris, Eva 0469, 0470, 0474, 0581, 0583, 0826, 0847, 1314
Harris, Ivor E. 0884
Harris, Jacob 0204
Harris, Jason B. 1296
Harris, Julie 0025, 0107
Harris, Julie R. 0090
Harris, Megan 0958, 1346
Harris, Shanice L. 0592
Harris, Vance 0797
Harrison, Tom 0361
Harry Asmah, Richard 0138
Harshbarger, Raymond 0780
Hart, A 1406
Hartel, Gunter 0478
Hartl, Daniel L. 0254, 0416, 0926, 1087
Hartley, Catherine S. 0475
Harvey, Steve 1179
Harvey-Samuel, Tim 1003
Harwood, James f. 0561
Hasan, M. Tasdik 0827, 0863
Hasan, Md. M. 1036
Hasan, Rezaul 0829, 0859
Hasang, Wina 0911
Hashemi, Meraj 0697
Hassan, Adam S. 0400, 1287
Hassan, Hassan 0350
Hassan, Md Z. 0811
Hassan, Mwana-Yile 0384
Hassan, Saad 0281, 0726, 0727
Hassan, Wahida 0658
Hassan, Wahida S. 0663
Hassel, James 0541
Hassell, James 0110, 0122, 0533, 0534
Hastings, Ian 0200, 0691
Hatch, Steven 0777
Hatton, Trad 1276
Hatyoka, Luiza M. 0323
Haubruge, Eric 0024
Hausbeck, John 0569
Hauser, Manuela 1100
Hawaria, Dawit 0226
Hawela, Moonga 1102
Hawkes, Michael 1042
Hawkins, Kellie 1245
Hawley, William 0731
Hayashi, Clifford 0686, 1169, 1172
Hayden, Frederick G. 1344
Hayden, Mary 0872
Hayes, Richard 0360, 0361, 0364
Hayes, Richard J. 1264, 1265
Haymond, Amanda 1378
Hayon, Jesica 0381
Hazzard, Brittany 0414
Healy, Sara 0640, 0687, 0906, 1255, 1262
Healy, Sara A. 0299, 0421, 0422, 0447
Heang, Vireak 0147, 0156
Heckendorn, Justine 1403
Hedje, Judith 0184
Heemskerk, Marieke 0287
Heinrich, Andre P. 0307
Heiss, Kirsten 0614
Heitner, Jesse 0736
Helb, Danica 0060
Helfand, Jerry 0556
Helle, Kristina B. 0604
Hellen, Gatakaa 1073
Hemingway, Janet 1141
Hemingway-Foday, Jennifer 1109
Hemlock, Caitlin 0896
Hemmings, Denise 1165
Hemming-Schroeder, Elizabeth 1056
Henao-Martinez, Andres 1245
Henao-Martínez, Andrés F. 1247
Hendji Yoya, Michel 0356, 0795
Hendriksen, Rene S. 1363
Hendy, Adam 0558, 1009
Henostroza, German 0373
Henrich, Timothy 0530
Henry, Charles 0171
Henry, John M. 1091
Henry, Stanslaus 0230
Hensley, Lisa 0002
Hepburn, James 0361
Herath, Dilrukshi 1243
Herath, H. M. M. 0524
Herbert, Samantha 1358
Hergott, Dianna E. 1094
Herman, Camelia 0410, 0626
Hermance, Meghan E. 0866
Hermann, Clemens 1327
Hermann, Joseph S. 1189
Hernandez, Carlos 1202
Hernandez, Jonathan 0583
Hernandez, Juan Camilo 1188
Hernandez, Santiago 0350
Hernandez-Acosta, Eduardo 0558, 1009
Hernandez-Bojorge, Santiago 0091
Hernández-Valencia, Juan C. 0121
Herrera, Claudia 0378
Herrera, Raul 1168
Herrera, Roberto 0330
Herrera, Víctor M. 0455
Herrera-Taracena, Guillermo 0582
Herrera-Varela, Manuela 0751, 1005
Hertoghs, Nina 0914
Hertz, Julian T. 0785
Hertz, Marla 1227
Hertz, Marla I. 0873
Hess, Jessica A. 0485
Hester, Lisa 0896
Hettenbach, Susan M. 0591
Hetzel, Manuel 0314, 0443
Hetzel, Manuel W. 0248, 0283, 0883, 1068
Heunis, Juanita 0857
Heussler, Volker 0193
Heyne, Belinda 0024
Heysell, Scott 0813
H/giorgis, Henock 0201
Hickey, Patrick 1217
Hickman, Mark 0245
Hidalgo, Daniela 0977
Hidalgo, Fernando 0260
Hien, Aristide 0998
Hien, Denise 0854
Higbee, Emily 0299, 0906
Higdon, Melissa M. 1387
Higgins, Amanda 0607
Higgins, Colleen R. 0498
Higgs, Stephen 0587, 0588, 0591, 0605
Hii, Sze Fui 0038, 1237
Hill, Adrian V. S. 0418, 1164
Hill, Courtney 0899
Hill, Michael 0718
Hillenbrand, Andreas 1373
Hilton, Emily 0756, 1091, 1273
Himschoot, Lisa 1264
Hinckley, Alison F. 0890
Hinne, Isaac A. 0742
Hinrichs, Mette 0001
Hinzmann, Julia 0001
Hip, Phireak 0147, 0156

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 278 for the list of speakers and session chairs in Plenary and Symposium Sessions.

Hiranloetthanyakit, Woranit 0464
Hirayama, Kazuhiro 0585
Hirayama, Kenji 0676
Hiwat, Helene 0094, 0287, 0840
Hixson, Bretta L. 0134
H. Kattenberg, Johanna 0838
Ho, Wai-Kit 0530
Hoare, Christina 0875
Hochberg, Natasha 0345, 1388
Hochberg, Natasha S. 0778, 0817, 1342
Hochreiter, Romana 0848
Hode, Tomas 0168
Hodges, Mary H. 0357, 0436, 0796
Hoelscher, Michael 1229
Hoerauf, Achim 0045, 0484, 0876, 1229, 1234, 1310, 1311
Hoffman, Irving F. 1277
Hoffman, Matthew K. 1109
Hoffman, Stephen 1215
Hoffman, Stephen L. 0128, 0293, 0295, 0296, 0299, 0300, 0301, 0302, 0423, 0447, 0473, 0687, 0934, 1050, 1118, 1121, 1167
Hokke, Cornelis H. 1288
Holcomb, Karen 1351
Holden, Matthew T. G. 0427, 0428
Holden, Tobias M. 0028
Hollin, Thomas 0457
Hollingsworth, Brandon 0275
Holmdahl, Inga 0999
Holmen, Sigve 0395
Holmes, Edward C. 1368
Holmes, Emma 0346
Holt, Kathryn 0425
Holzschuh, Aurel 0248, 0883
Hom, Sohei 1062
Homdayjanakul, Kamonthip 0024
Honein, Margaret 0590
Hong, Filbert 0615
Hongvanthong, Bouasy 0244, 0648, 0732
Hontz, Robert D. 0147, 0156, 1350, 1364
Hook, Sarah A. 0890
Hope, Andrew 0452
Hope, William 0396
Hopkins, Hannah 0149
Hopkins, Hannah K. 0576
Hopkins, Heidi 0366, 0774, 0781, 0786, 0902, 0903, 1216
Hoppenworth, Kim O. 0962
Horn, Sacha 1229
Horra, Tsion 1218
Horsburgh, Jr., C. R. 0817, 1342
Horseman, Timothy 0393
Horseman, Timothy S. 0816
Horton, John 0767
Hosch, Salome 0631
Hosch, Salomé 0634
Hosch, Salome 0879
Hossain, Kamal 0811
Hossain, Md Alamgir 0859
Hossain, Mohammad S. 0237
Hossain, Mohammad Z. 0465, 0499, 0520
Hossain, Mohammad Zahid 0084
Hossain, Sazzad 0093
Hosseini, Maryam 0128
Hossen, Md. Saheen 0896
Hotchihoue, Jeannine 0625
Hotez, Peter 1337
Hotez, Peter J. 1228, 1383
Hotwani, Aneeta 0832
Hou, Ruixue 1294
Hou, Yixuan J. 1316
Houck, John 0021
Houck, Patricia 0356, 0357, 0436, 0795, 0796, 0798
Houdjo, William 0209
Houli, Nicolas Bayang 0486
Houndjo, William 0718
Hounkanrin Zoulkifouly, Wilfried 0997
Hounto, Aurore 0209
Houpt, Eric 0079, 0097, 0621
Houpt, Eric R. 1299
Houston, Stan 1042
Hout, Lychhea 1062
Hovius, Joppe W. R. 0980
Howard, Jennifer 1058
Howard, Jennifer R. 1051
Howard, Joel 0035
Howard, Megan W. 0606, 0803
Howes, Rosalind E. 1083
HRH2030-CBM Advisors 0080
HRH2030 Project Management Unit, 0080
Hsiang, Michelle S. 1070
Hsieh, Hsing-Chuan 0150
Hsieh, Michael 1283
Hsieh, Szu-Chia 0600
Hsiung, Christopher 1037
Hsu, Hao-Ting 0369
Hsu, Patrick 0470
Hsu, Wei-Wen 0591
Htet, Arkar 0289
Htet, Sway Minn 0722
Hu, Yubing 0670
Hu, Zonghui 0422
Hua, Xinyi 1260
Huaman, Alfredo A. 1350
Huang, Alice M. 0507
Huang, Angkana 0613, 1317
Huang, Angkana T. 0163
Huang, Ching-I 0450, 0452, 1248
Huang, Fang 0735
Huang, Henry 0473
Huang, Lawrence 0006
Huang, Liusheng 0213, 0641, 1147
Huang, Samuel 1299
Huang, Xinyue 0554
Huang, Yan-Jang 0591
Huang, Yan-Jang S. 0587, 0588, 0605
Hubbard, Alan E. 0896, 0897
Hübner, Marc P. 0484, 1310
Huda, Tarique M. N. 0325
Huda, Tarique M. Nurul. 0898
Hudgens, Michael 1160
Huebner, Marc P. 0876
Huerta-Reyes, Oksana 0772
Hueschen, Christina 1404
Huey, Leah 0108
Hughes, Emma 1147
Hughes, Holly 0617
Hugo, Pierre 0444
Humarr Khan, Sheik 0806
Hume, Jen C. C. 0421, 0645
Hume, Jennifer 1255, 1262
Humes, Michael 0312, 0662, 1075
Humphrey, Jay 0060
Hunegnaw, Bezawit M. 0951
Hunegnaw, Bezawit Mesfin 0963
Hungate, Jessica 1202
Hunsawong, Taweewun 1320
Hunsberger, Sally 0929, 1360
Hunt, Catherine 0124
Hunter, C.a. 1406
Hunter, Gabrielle 0100, 0276, 1161
Huot, Louise 0136
Hupalo, Daniel 0020
Huque, Sarah 0427, 0428
Hürlimann, Eveline 1376
Hurt, William 0901
Hurwitz, Ivy 0017, 0187, 0251, 0252, 0608, 0671, 0910, 1116, 1258, 1347, 1384, 1385
Hussain, Faruqe 0078, 0084, 0093
Huston, Nicholas 0601
Hutchinson, Kyle 0943
Hutter, Jack N. 0887
Huwe, Tiffany 0237
Huy, Rekol 0907, 1062, 1305, 1359, 1362
Hviid, Lars 0448
Hwang, Jimee 0236, 0410, 0731, 0880, 0881
Hyman, James M. 0698, 1010
Hynes, Wayne 0985
Hyson, Peter 1245, 1247

I

Iacomelli, Gloria 0922
Iamsirithaworn, Sopon 0163, 0610, 1320
Ibam, Clemencia 0652
Ibinaiye, Taiwo 0290, 1059
Ibitokou, Samad A. 1173
Ibna Zaman, Sazid 0518
Ibrahim, Dalhatu 0022
Ibrahim, Toheeb B. 0568
Ichihara, Maria 0815
Idaghdour, Youssef 0913
Idrees, Romana 0347
Idris, Ibrahim 0070, 0072, 0074
Idrissa, Sabiti 0997
Igbaver, Isaac 0728, 1280
Igbe, Michael 0432, 0433
Igbe, Michael A. 0352
Ige, Fehintola 1348
Igumbor, Ehimario 0022, 0022
Igunza, Aggrey 0392
Igunza, Aggrey K. 0461
Ihahi, Josphine 1238
Ihekweazu, Chikwe 0022, 0101, 1363
Ihsan, Abubakari 1145
Ijezie, Simon 1081
Ijomanta, Jeremiah O. 1365
Ikechukwu, Ebenezer 0103
Ikilezi, Gloria 0978
Ilboudo, Sonia 1136, 1155
Ilinykh, Philipp A. 0004
Ilori, Elsie 0022
Ilori, Temitope 0329
Ilunga, Hyacinthe Kaseya 0656
Im, Justin 0033
Imaculada Soares, Maria 1237
Imbuga, Mabel 0135
Imeru, Alemush 0421
Imhoff, Helen 0276, 0411, 1161
Impoinvil, Daniel 1177
Impoinvil, Lucy Mackenzie 0131
in alphabetical order by last name, *Authors 0311, 0730
Inbar, Ehud 0128, 0473
Indriani, Citra 0932, 1319
Ingabire, Chantal 1185
On behalf of International PfSPZ Consortium 0298
Inthavongtham, Phengdavanh 0496
Inyama, Petrus U. 0310
Inyang, Uwem 0310
Iordanov, Roumen 0381
Čížová, Alžbeta 1296
Ipinmoye, Temitope 1081
Ippolito, Matthew 0737
Ippolito, Matthew M. 1100
Iqbal, Junaid 0347, 0832
Iqbal, Najeeha 0347
Iqbal, Najeeha T. 0832
Iqbal Chowdhury, Atique 0515
Ir, Por 0894
Iraoyah, Kelly 0603
Ireton, Gregory 0983
Irfan, Zaidi 0199
Iriemenam, Nnaemeka 0022, 0101, 0921, 1348
Iriemenam, Nnaemeka C. 1322
Irikannu, Kindness C. 0227
Irish, Seth 0933, 1012, 1013
Iruolagbe, Christopher 0603
Isaiah, Hansingo 0364
Isawa, Haruhiko 0141, 0585
Isaya, Gladness 0309, 0318
Ishengoma, Deus I. 0219
Ishida, Kenji 1283
Ishola-Gbenla, Olusesan 1133, 1154
Iskarpatyoti, Brittany S. 0288
Iskarpatyoti, Brittany Iskarpatyoti S. 0706
Iskarpatyoti, Brittany Schriver 0069
Iskarpatyoti, Brittany Schriver Iskarpatyoti 0068
Islam, Kamrul 1302
Islam, Kazi M. 0465, 0499, 0520
Islam, Kazi Munisul 0462
Islam, Mahfuza 0897
Islam, Md A. 0811
Islam, Md Ariful 0023
Islam, MD Tahmidul 0859
Islam, Md. S. 0078
Islam, Md. Aminul 0898
Islam, Md. Taufiqul 1302
Islam, Saiful 0084
Islam, Sharmin 0897
Ismagilov, Rustem F. 0975
Ismail, Alaa 1201
Ismail, Hanafy 1349
Ismail, Nevien 1335, 1339
Isoe, Jun 0123
Issa Arzika, Ibrahim 0997
Issiaka, Djibrilla 0229, 0422, 0640, 0842, 1281
Issoufou, Mounkaila 0798
Itoe, Maurice A. 1332
Ityonzughul, Cephas 0433
Iveren, Nyior A. 0352
Ivers, Louise C. 1296
Ivory, Javarcia D. 0095
Iwanaga, Shiroh 0141
Iwara, Emem 0022
Iwara, Iwara 0946, 1135
Iwuchukwu, Nduka 1177
Iyamu, Osahon 1325
Iyanga, Marcos M. 0756, 1182
Iyanga, Marcos Mbulito 1094
Izurieta, Ricardo 0091
Izzo, Franco 0146

J

Jabbi, Madiba 0372
Jackou, Hadiza 0209, 0718, 0997
Jackson, Conner 0220
Jackson, Conner L. 0009
Jackson, Emahlea 0495
Jacob, Djenam 0998
Jacobs, Eelco 0287
Jacobs-Lorena, Marcelo 0188
Jacobson, Gerald 0648
Jacobson, Jerry O. 1156
Jacquerioz, Frederique 0806
Jaeger, Stefan 1078
Jaenisch, Thomas 0171, 0614
Jaerakul, Danai 0653
Jagannathan, Prasanna 0021, 0048, 0049, 0685, 0909, 1147
Jahan, M Ishrat 0516, 0609
Jahan, Nusrat 0237
Jahan, Shafina 0516, 0609
Jahir, Tania 0389, 0825
Jain, Komal 1388
Jaka, Hyasinta 1282
Jakisa, Herman 1144
Jakou, Hadiza 0277
Jalloh, Umu H. 0436
Jamal, Saima 0067, 0099, 0102, 0809, 0979
Jamea, Esther 0567
Jamea, Esther W. 0652
James, Eric 1167
James, Eric R. 0473, 0934
James, Linda 0007
Jamet, Helen 0013

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 278 for the list of speakers and session chairs in Plenary and Symposium Sessions.

Jamieson, Denise J. 0590
Jamil, Zehra J. 0347
Jammeh, Ebrima M. 0430
Jamu, Styn 0843, 0844
Janies, Daniel 1084
Janiszewski, Katherine 0345
Janko, Mark 1099
Jankovic, Dragana 1175
Janouskova, Eva 0833
Janse, Chris J. 0193, 0292
Jansen, Bastiaan 0633
Janson, Owen 0530
Janssen, Julia 0233
Jaradat, Fatima 0532, 0533, 0541
Jaramillo, Juan-Carlos 0143, 0848
Jarman, Richard 1317
Jarman, Richard G. 0163, 0887, 1291, 1293
Jarmen, Richard G. 1289
Jarvis, Joseph 0360, 0361
Jarvis, Joseph N. 0901
Jatosh, Samwel 1299
Jayasundara, Dinesha 1206
Jean, Lorence 0291
Jean Claude, Bisimwa Rusanga 0824
Jeang, Brook 1104
Jebessa Deribessa, Solomie 0820
Jeffrey, Gordon 0832
Jeffrey, Hertz C. 0120
Jembe, Zainab 0095, 0140, 0144, 0580
Jenkins, Bethany J. 1051
Jenkins, Sarah A. 1350
Jenney, Adam 0869
Jennings, Helen 0857
Jennings, Todd 1158
Jensen, Anja 0911
Jensen, Cole 0601
Jensen, Kimberly A. 1321
Jensen, Travis L. 1112
Jerome, Jean-Gregory 1296
Jessani, Saleem 1109
Jewell, Nicholas P. 1319
Jha, Runa 0905
Ji, Jenny 0975
Jia, Ping 1251
Jiang, Le 0971
Jiang, ShanShan 0755
Jiménez-Díaz, María Belén 0218
Jimenez-Vasquez, Victor 0984
Jin, Jing 0153
Jin, Yiru 0374
Jiz, Mario 0676, 1272
Jiz, Mario A. 0507
Johansson, Michael 0027
John, Chandy 0683
John, Chandy C. 0015, 0019, 0185, 0192, 0444, 0646, 1064, 1096, 1101, 1212
John, Rek 0909
Johns, Ben 1177
Johnson, Ari 0440, 0660
Johnson, Keely 1209
Johnson, Monday E. 0865
Johnson, Paul 0746
Johnson, Rebecca 0125
Johnson, Richard 0868
Johnson, Wendell 0870
Johnson, Zachary 0669
Johnson, Zack 0411
Johnston, Dara 0829, 0859
Johnston, Demerise 0980
Johora, Fatema T. 0237
Johura, Fatema-Tuz 0827
Jojoa, Jimena 0451
Jolois, Olivier 0024
Jonckers, Tim H. 1291
Jones, Alexander H. 0036
Jones, Andrew D. 0327
Jones, Anthony 0519, 0613
Jones, Anthony R. 0163, 0610
Jones, Christopher 0303
Jones, Dean P. 1326
Jones, Ellen 0515
Jones, Isabel J. 0919
Jones, Janjay M. 0362
Jones, Kasey 0920
Jones, Kathryn 1337
Jones, Malcolm K. 0054
Jones, Matthew 0935
Jones, Sam 0691
Jones, Sophie 0626
Jong, Ianthe 0654
Jongert, Erik 0417
Jongo, Said 0300, 1118, 1215
Jongo, Said A. 0293
Jongsakul, Krisada 0653, 1062
Joonlasak, Khajohn 0613
Joosten, Leo A. B. 0426
Jore, Matthijs 0908, 1166
Jore, Matthijs M. 0639
Jose, Admilde 0491
Jose, Ramlat 0630, 0721
Joseph, Joseph 0565, 0658
Joseph, Joseph J. 0308
Joseph, Joseph J. 0320, 0663
Joseph, Sheridan M. 0380
Joshi, Sudhaunshu 0256, 0672
Jotamo, Dulcisaria 1194
Jouanard, Nicolas 0919, 1267
Jouvenet, Nolwenn 0180
Judkins, John 0060
Julian, Timothy 0824
Juliano, Jonathan 1160
Juliano, Jonathan J. 0232, 0651, 1099, 1277, 1325
Juma, Dennis 0198, 1060
Juma, Dennis W. 0214
Jumanne, Mohamed 0309, 0318
Juncàs, Daniel I. 0633
Jung, Jiwon 0178
Junior, Emanuel 0182
Junqueira, Caroline F. 0420

K

Kaaya, Dr. Robert 0309
Kaaya, Robert 0318
Kabanda, Richard 0208, 0509, 0719
Kabantiyok, Dennis 0800
Kabanywanyi, Abdunoor M. 0439
Kabatereine, Narcis 0396
Kabera, Michee 0757, 1079, 1266
Kabia, Unidiatu 0357
Kabore, Achille 0037, 0357, 0795, 0796, 0798
Kabore, Jean Moïse Tanga 0854
Kabra, Kareem 0024
Kabula, Bilal 0219, 0219
Kabula, Bilali 0232, 0308, 0320, 0565
Kabunga, Lorriane 0787
Kabuya, Jean-Bertin 0242, 0737
Kabuya, Jean-Bertin Bukasa 1100
Kabuya, Jean-Bertine 1180
Kabwama, Steven N. 0090
Kachale, Fannie 0272, 1390
Kache, Pallavi 0872
Kadimbo, Jonathan 0432
Kading, Rebekah 0129
Kading, Rebekah C. 0005
Kado, Joseph 0869
Kadobera, Daniel 0090
Kadri, Boubacar 0348
Kadri, Saadou 0997
Kaewhira, Surachai 0904
Kafsack, Björn F. 1399, 1399
Kaftan, David 0314
Kagaya, Wataru 0885
Kagoné, Moubassira 0010, 1185
Kagwire, Fred 0664
Kahansim, Barminas 0432, 0433
Kaharuza, Frank 0509
Kahunu, Gauthier Mesia 0410
Kailembo, Denis 0747
Kain, Kevin 0858, 0903
Kaisar, Hasanul M. 1296
Kaiser, Maima 0160, 0161
Kaiser, Reinhard 0424
Kajeechiwa, Ladda 0464
Kajubi, Richard 0213, 0641, 1057, 1066
Kakesa, Olivier 0707
Kakilla, Charles 0308
Kakolwa, Mwaka A. 0439
Kakuhikire, Bernard 0836
Kakuru, Abel 0021, 0685, 1147
Kakuru Muhindo, Mary 1147
Kalantar, Katrina 0907
Kalata, Anya C. 0423
Kaldor, John 0038, 0869
Kaldor, John M. 0782, 0993
Kalejaye, Olabisi 1148
Kalenga, Jean-Claude 0443, 1068
Kalengo, Nathaniel 0701
Kaliannagounder, Krishnamoorthy 0354
Kalinich, Chaney 0471
Kallon, Gandhi 0436
Kallon, Gandi 0357, 0796
Kaluma, Erick 0461, 0515
Kalva, Prathik 0144, 1343
Kama, Mike 0869
Kamaforo, Mohamed 0784
Kaman, Peter 0567
Kamangu, Erick 0384
Kaman Lama, Eugene 0209
Kaman Lama, Eugène 0278
Kamara, Anitta 0630
Kamara, Anitta R. 0721
Kamara, Fatima 1220
Kamara, Habib 0798
Kamara, Habib I. 0357, 0436, 0796
Kamara, Idrissa 0440
Kamate, Beh 1139
Kamate, Bourama 0421, 0906, 1224, 1255, 1262
Kamau, Edwin 0668
Kamau, Maureen 0122, 0534
Kamau, Yvonne 0551
Kambale-Makundi, Joseph 0424
Kambale-Sivihwaa, Nelson 0424
Kambui, Afeke 0962
Kamdem, Donald Severin 0403
Kamenyeva, Olena 1313
Kamerling, Ingrid 0856
Kamgain Mawabo, Lugarde 0619
Kamgno, Joseph 0545, 0873, 1227
Kamhawi, Shaden 0929, 1335, 1358, 1360
Kampanga, Giscard 0384
Kamruzzaman, Mohammad 1296
Kamthunzi, Portia 1160
Kamugisha, Erasmus 0219
Kamuliwo, Mulakwa 0737
Kamya, Deus 0385
Kamya, Emmanuel Victor 1089
Kamya, Moses 0048, 0049, 0549, 0685, 0908, 0909, 1070, 1089, 1147
Kamya, Moses R. 0210, 0406, 1065, 1091, 1095, 1141
Kana, Hashiya 0920
Kancharla, Papireddy 0216, 0217, 0644
Kandeh, Balla 0718
Kandesh, Balla 0209
Kandie, Regina 1073
Kandiye, Faith R. 0952
Kané, Fousseyni 0407
Kane, Fousseyni 1072
Kané, Fousseyni 1106
Kaneko, Akira 0885
Kang, Amrik 0095
Kang, Amrik S. 0144, 0845, 1343, 1361
Kang, Hee Kyoung 1381
Kang, Seokyoung 1330
Kangwanrangsan, Niwat 0220
Kanh, Michael K. H. 0550
Kania, Dramane 1213
Kanki, Phyllis 0600
Kanlaya, Khamfong 0781
Kannangara, Don W. 0830, 1207
Kanneh, Lansana 1220
Kanneh, Lansana D. 0806
Kano, Arisa 0532, 0533, 0541
kanoute, Moussa B. 0299
Kanoute, Moussa B 1255, 1262
Kanté, Salim 1106
Kanyangarara, Mufaro 0522
Kapadia-Kundu, Nandita 0270
Kapan, Durrell D. 1010
kapen, Marie 0224
Kapesa, Laurent 0288, 0628, 0706, 0713
Kapisi, James A. 0210
Kapitula, Jean-Paul 0424
Kaplan, Zachary 1013
Kappagoda, Chamila 1206
Kappe, Stefan 0246, 0301
Kappe, Stefan H. 0412, 0667, 1067, 1069
Kappe, Stefan H. I. 0413
Kappe, Stefan H. I.. 0460, 0674, 0924
Kappe, Stefan H. I. 1120
Kappe, Stefan H.I. 1117
Kaptein, Suzanne J. 1291
Kar, Swagata 0468
Karagodin, Dmitry A. 1393
Karamoko, Yahaya 1034
Karasavvas, Nicos 1291
Karemere, Johanna 0068, 0069
Kargbo, Kandeh 0806
Kargbo-Labour, Ibrahim 0357
Karim, Ahmad 0468
Karim, Ekundayo 0436
Karim, Md. Rabiul 0896
Karim, Mohammad Jahirul 0482
Karisa, Jonathan K. 0116, 0551
Kariuki, Simon 0233, 0296, 0410, 0417, 0710
Kariuki, Simon K. 0463
Karki, Shristi 0905
Karl, Stephan 0132, 0567, 0567, 0652
Karlon, William 0530
Karmakar, Subir 1335
Karmele, Erik 1313
Karunanayake, Panduka 1250
Karunaratne, S H P Parakrama 0537
Karunaweera, N. D. 0481
Karunaweera, N.D. 0456
Karunaweera, Nadira 0382, 1250
Karunaweera, Nadira D. 0453, 0537
Karungi, Shirah 0206, 0664
Karwal, Lovkesh 0161
Kasereka, Masumbuko Claude 1042
Kasereka-Tosalisana, Michel 0424
Kaseya, Hyacinthe 0069, 1276
Kaseya Ilunga, Hyacinthe 0068
Kashanchi, Fatah 0981
Kasindi Mwita, Stella 0955
Kassa, Meseret W. 1119
Kassa, Nega A. 0081, 0513
Kassim, Kamaka 0300, 1219
Kassim, Yasmin M. 1078
Kassimu, Kamaka 0293, 1171

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 278 for the list of speakers and session chairs in Plenary and Symposium Sessions.

Kassuja, Hassan 0970
Kastner, Randee 0166
Kasule, Mathias 1127
Katabarwa, Moses 0359
Katairo, Thomas 0196, 0197
Katamba, Henry 1126
Katana, Elizabeth 0025, 0107
Katanga, Erick 1276
Kateera, Fredrick 0506
Katengu, Siphael 1299
Katile, Abdoulaye 0421, 0906, 1255, 1262
Kato, Cecilia Y. 0344
Kato, Cecilia Y. 0987
Kato, Joel 1126, 1127
Katokele, Stark 0739
Katuala, Yves 1144
Katusele, Michelle 0132, 0567
Katzelnick, Leah 0163, 0474, 1317
Kaur, Gurpreet 0594
Kaushansky, Alexis 0692
Kavere, Emmy A. 1263
Kavishe, Reginald 0219
Kawakyu, Nami 1185
Kawata, Keisuke 0192
Kawende, Bienvenu 0007
Kawiecki, Anna B. 1350
Kaya, Mahamadou 1281
Kayange, Michael 0272, 1277, 1390
Kayange - Malawi SmartNet Initiative, Michael 0311, 0730
Kayatani, Alexander 0393
Kayatani, Alexander K. 0816
Kayendeke, Miriam 0505
Kayentao, Kassoum 0440, 0660, 0665
Kayitare, Emmanuel 0506
Kayondo, Lilian N. 0549
Kayongo, Emmanuel 0208, 0509, 0719
Kazadi, Donatien 0002
Kazembe, Lawrence 0936
Kazi, Abdul Momin 0067, 0099, 0102, 0809, 0979
Kazi, Momin 0972
Kazura, James 0883
Kazura, James W. 0678, 1056, 1104
Kazura, Jamez 0912
KC, Natasha 0302, 0422, 0473, 0687, 1118, 1121, 1167
Kearney, Mary 0541
Kearney, Mary F. 0110, 0122, 0533, 0534, 0536
Keating, Joseph 0243, 0647, 1123
Kebede, Amha 0236
Keeling, Matt J. 0450
Keenan, Jeremy D. 1323
Keenan, Katherine 0427, 0428
Keffale, Migbaru 0883
Kehoe, Aubrey D. 1260
Keiser, Jennifer 1376
Keita, Adama M. 0035, 0461
Keita, Adama Mamby 0462, 1324
Keita, Ibrahima Mamby 0799
Keita, Makan 0665
Kéita, Mamadou Sitan 0278
Keita, Modibo 0037, 0040, 0798, 1270
Keita, Mory 0002
Keita, Moussa 1106
Keita, Sekouba 0842
Keleta, Yacob 1140
Keller, Cathleen 1273
Kelly, Brendan J. 0543
Kelly, Erin T. 1329
Kelly, J D. 0339
Kelly, Jane 0216, 0217, 0644
Kelly, Jill R. 0980
Kelly, Meagan 1296
Kelly, Sherrie L. 0493
Kelly, Thomas P. 1146
Kelly-Hope, Louise A. 0482
Kemleu, Sylvie 0224
Kennedy, David S. 0978
Kennedy, Spencer Y. 0412, 0667, 0674, 0924, 1067
Kennedy, Stephen B. 0006
Kent, Anthony 0884
Kenyi, Edward 0704, 0705
Kerkhof, Karen 0155
Kesby, Mike 0427, 0428
Kesteleyn, Bart 1291
Ketembwe, Fernand 0273
Kette-Faye, Hortense 1034
Keumoe, Rodrigue 0224
Keven, John B. 0132, 0931
Keya, Fredrick 1128
Khair, Abul 0482
Khamis, Mwinyi 0315
Khamkong, Chanthalone 0496
Khampaen, Direk 1320
Khan, Ashraful I. 1302
Khan, Aslam 0095, 0140, 0580, 0586
Khan, Ayub 0067, 0099, 0809
Khan, Habiba 1202
Khan, Md Anik Ashfaq 0379
Khan, Mehtab 0424
Khan, Salman 1026
Khan, Sazzad H. 0078
Khan, Shahid M. 0292
Khan, Shifat 0898
Khan, Wasif A. 0237
Khandelwal, Akash 0856
Khanna, Kamal M. 0146
Kharod, Grishma A. 0096
Khatib, Bakari 0565
Khatib, Bakari O. 0320
Khin, May Oo 0700
Khin, Nu Nu 0289
Khine Zaw, Yuzana 0105
Khontong, Rotjana 1320
Khoo, Jing Jing 0539
Kho Paw, Moo 0464
Khorgard, Akanksha 0254, 0926
Khounsombat, Manisai 0496
Khuanpichit, Chokchai 0653
Kiazolu, Murphy V. 0362
Kibe, Lydiah 1000
Kibiki, Gibson 0426
Kibret, Solomon 1309
Kibria, Mohammad G. 0237, 1083
Kibuka, Tabitha 0724, 1139
Kiemel, Dominik 1291
Kiertiburanakul, Sasisopin 0030
Kiggundu, Reuben 0970
Kigozi, Ruth 0241
Kigozi, Simon Peter 1141
Kihuma, Georges 0651
Kiiru, John 0427, 0428
Kilama, Maxwell 1095
Kildemoes, Anna O. 1288
Kile, Molly L. 0960
Kilepak, Lemen 0567
Kilinc-Balci, F Selcen. 0024
Kilinga, Akili 1229
Kilonzo, Kajiru G. 0701, 0785
Kim, Eun Ok 0178
Kim, Jinyoung 0470
Kim, Lisa 0896
Kim, Min-Sik 0188
Kim, Sooyoung 0365
Kim, Sung-Han 0178
Kimbowa, Musa 0208, 0509, 0719
Kimera, Joseph 0443, 1068
Kim-Schuzle, Seunghee 1294
Kinabo, Grace 0701
Kinda, René N. 1136, 1155, 1191, 1192
King, C Richter 1170
King, Charles H. 1343
King, Christopher 0487
King, Christopher L. 0358, 0431, 0434, 0483, 1356, 1357
King, Elise 1325
King, James 0436
King, Rick 1166
Kinganda, Eddy L. 0002, 0526
Kingebeni, Placide M. 0514
Kingery, Justin 0779
Kinung'hi, Safari 0308
Kinyina, Alen 1090
Kinzel, Kasey 1256
Kipkoech, Joseph 0408, 0657
Kirativanich, Kirakarn 0653
Kirby, Matt 0753
Kirkman, Laura 0204, 0415, 1377
Kirkman, Laura A. 0197, 0203
Kirosingh, Adam 0685
Kirstein, Oscar 0871
Kirstein, Oscar D. 0575, 1304
Kirui, Joseph K. 1143
Kirwa, Erastus 1113
Kishamawe, Coleman 0308
Kishore, Punnath 1053
Kisitu, Grace 1066
Kisoka, Noela 0230, 0709
Kissinger, Jessica C. 0060, 0245
Kistemann, Thomas 0828
Kisubi, Joel 0208, 0509, 0719
Kitchakarn, Suravadee 0284, 0285, 0839
Kitenge, Richard 1042
Kiti, Moses C. 0972
Kitojo, Chonge 0219, 0232, 0308, 0320, 0565, 0658, 0663, 1090
Kitondo, Ramadahan M. 1246
Kitron, Uriel 0871
Kittelson, John 0009
Kittur, Nupur D. 0060
Kitutu, Fred 1126
Kiuru, Caroline 0551, 0564
Kiyaga, Charles 0956
Kizu, Joanne 0875
Kjetland, Eyrun F. 0050, 0395, 0402, 1264, 1265
Klarman, Molly 0490
Klarmann-Schulz, Ute 0876, 1229, 1234
Kleinschmidt, Immo 0008, 0407, 0739, 0841, 0844, 1156
Kleist, Christine J. 0001
Klemm, Sandy 0048
Klena, John 0514, 0526
Klena, John D. 0424
Kleppa, Elisabeth 0050
Klompen, Hans 0982
Klungthong, Chonticha 0163, 0610, 0613
Kmush, Brittany L. 0504
Knight, Vijaya 0108
Knoll, Maria D. 1387
Knudsen, Selby 0817
Knudson, Angélica 0925
Kobayashi, Daisuke 0141, 0585
Kobayashi, Tamaki 1107, 1180, 1279
Kobia, Betty 0498
Kobusingye, Pearl 0719
Koch, Till 0001
Kodio, Aly 0725
Koech, Emmily 0678
Koekemoer, Lizette L. 0306
Koeleman, Carolien A. M. 0448
Koenker, Hannah 1185, 1190
Koepfli, Cristian 0231, 0237, 0248, 0622, 0883
Koetzner, Cheri A. 0589
Kofa, Alphonso 0467
Koffi, Alphonsine 1181
Koffi, Alphonsine A. 0550
Kofi, Adomako 0209
Koh, Carolina C. 1338
Koh, Wan Hon 0047
Kohl, Alain 0605
Koirala, Janak 0905
Koire, Malik 1066
Koita, Abdou 0784
Koita, Ousmane 0012, 0194, 0744
Kojom Foko, Loick Pradel 0619
Koko, Daniel 0277
Kola, Perez 0187, 0618
Kolley, Olimatou 0209, 0718
Komar, Nicholas 1351
Kombe, John 0424
Kombe, Miriam 1090
Komguep Nono, Justin 0403
Kommey, Mildred 0702
Konan, Yannick K. 1034
Konaté, Drissa 0407
Konate, Drissa 1106
Konate, Idrissa 1072
Konate, Lazeni 0012, 0744
Kondo, Fama 0037, 0040
Koné, Abdoulaye K. 0250
Kone, Abdoulaye K. 0255, 0681
Koné, Adama 0998
Kone, Aminatou 0655
Koné, Harouna 0784
Kone, Mamady 0299, 0421, 0906, 1045, 1255, 1262
Koné, Moussa Mintou 0037
Koné, Oumar 0194
Kone, Salifou M. 0645
Konermann, Silvana 0470
Kong, Dara 0907, 1362
Konga, Patricia 1149
Kongere, James 0885
Konhawa, Francis 0403
Koninga, James T. 0806
Konipo, Fatoumata d. 0784, 0790
Konneh, Alhassan 0357, 0436
Konradt, C 1406
Konstantinova, Anna 0362
Kont, Mara 1349
Kopya, Edmond 0184
Korejwo, Joanna 0594
Koren, Michael A. 0887, 1289
Korir, Patricia J. 0876
Korkor, Constance M. 0643
Koroma, Abdulai 0357
Koroma, Veronica 1220
Koroma, Zikan 0630
Korte, Jeffrey 0522
Korte, Michelle 0963
Korwa, Sarah 1143
Koschel, Marianne 0876
Kose, Nurgun 1316
Kosek, Margaret N. 0032, 0062
Kosloff, Barry 1265
Kosmach, John 0137
Koso-Thomas, Marion 1109
Kotloff, Karen 0035, 0461, 0462, 1324
Kotloff, Karen L. 0515, 1301
Koto-Mortty, Maame Fremah 0417
Kouanda, Idrissa 0636, 0794
Kouassi, Clémence K. 1034
Koudou, Benjamin 1356
Koudou, Benjamin G.. 1011
Koudou, Benjamin G. 0483, 1357
Kouemo Motse, Francine Dorgelesse 0619
Kounta, Alkaya 0040
Kouriba, Bourema 0250, 0255, 0681
Kováč, Pavol 1296
Kowli, Sangeeta 1025
Kowuor, Dickens 1324
Kpamegan, Eloi 0572
Kramarz, Jessica 0763, 0765, 0766
Kramer, Laura 0888
Kramer, Laura D. 0589, 0599
Kranzer, Katharina 0366, 0774
Kratzer, Wolfgang 1373
Krause, Peter J. 0980
Krebs, Shelly J. 0887

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 278 for the list of speakers and session chairs in Plenary and Symposium Sessions.

Kreishman-Deitrick, Mara 0217, 0644
Krenn, Susan 0501
Krentel, Alison 0042, 0431, 0790
Krespan, Elise 0459
Kreutzfeld, Oriana 0196, 0197
Krezanoski, Paul 1091, 1095
Krezanoski, Paul J. 1070
Krivacsy, Sara 1377
Krizek, Rachel S. 0559
Kroeze, Hans 0193, 0292
Kroidl, Inge 1229
Kry, Hok 0907, 1359
Krystosik, Amy 1000
Krystosik, Amy R. 1025
Kuan, Guillermina 0474, 0583, 0826, 0847, 1314
Kudi, Caleb A. 1365
Kudlacek, Stephan T. 1293
Kuehlwein, Janina 1229
Kuemkon, Erve Martial 0403
Kuepfer, Irene 1281
Kuetche, Magloire 0263
Kuhl, Jennifer 0824
Kuhlman, Brian 1293
Kuiper, Vincent 0856
Kuka, Simon Heliso 0270
Kulatilaka, Nalin 1342
Kulchyckyj, Maria 0463
Kulkarni, Dr. Manisha A. 0309
Kulkarni, Manisha A. 0008, 0318
Kulkarni, Prasad 0418
Kulke, Daniel 1310
Kullaya, Vesla I. 0426
Kulu, Tessy-Koko 1231
Kumar, Bharat 0574
Kumar, Nirbhay 0686, 1169, 1172
Kumar, Samhita 1218
Kumar, Sanjai 0821, 0980, 1048
Kumar, Sudhir 0246, 0412, 0460, 0667, 0674, 0924, 1067, 1069
Kumar, Vinod 0426
Kumarasiri, R.W.C. Kalpani 0481
Kumari, Suchetha N. 1053
Kumar Kolli, Surendra 0292
Kümmel, Anne 0633
Kumordjie, Selassie 0152, 1205
Kumsa, Bersissa 0117
Kuntawunginn, Worachet 0653, 1062
Kupritz, Jonah 1313
Kuria, Magdalene 0392, 1324
Kurihara, Kyoko 0885
Kurtis, Jonathan 1113, 1286
Kurtis, Jonathan D. 1174, 1272
Kurukulasooriya, M. R. P. 0805
Kusasira, Darlson 0918
Kusasira, Stephen 0029
Kusi, Kwadwo A. 0189
Kusi, Kwadwo Asamoah 0682
Kutumbakana Kimwesa, Seraphine 0632
Kutumbakana Kimwesa, Séraphine 1076
Kvit, Anton 1279
Kwaga, Jacob K. P. 1363
Kwakye-Nuako, Godwin 0114, 0115
Kwambai, Titus 0233, 0239, 0710
Kwan, Jennifer 0421, 0906, 1255, 1262
Kwedi Nolna, Sylvie 0976
Kwenda, Geoffrey 0323
Kwesiga, Benon 0090
Kwiatkowski, Dominic P. 0925
Kwizombe, Collins 0272, 1390
Kwizombe - Malawi SmartNet Initiative, Collins 0311, 0730
Kwon, Hyeogsun 1328
Kwong, Laura H. 0897, 0898
kyabayinze, Daniel 1127
Kyagamba, Patrick 1095
Kyagulanyi, Tonny 0029, 1142
Kyaruzi, Edna 1138
Kyaw, Thwai 0232, 0651
Kyomuhangi, Lennie 0630, 0632, 1076
Kyomuhangi, Lennie B. 0628

L

Labadin, Jane 0167
Labbo, Rabiou 0997
LaBeaud, A. D. 1361
LaBeaud, A. Desiree 0144, 0181, 0207, 0586, 0845, 1000, 1025, 1027, 1343
LaBeaud, Angelle D. 1006
LaBeaud, Angelle Desiree 0095
LaBeaud, Desiree 0140, 0580
Labor, Dr. Temitayo 0721
Labor, Temitayo 0630
Labour, Ibrahim K. 0796
Labuda, Sarah M. 0491
Lacerda, Marcus 1009
Lacerda, Marcus V. 0558
Lacerda, Marcus V.G. 0629
Lachau-Durand, Sophie 0582, 1291
Lack, Justin 0043, 1312
Lacsina, Joshua R. 0929, 1358, 1360
Ladeia-Andrade, Simone 0883
Ladner, Jason T. 0172
Lado, Paula 0982
Laemmer, Christine 0876
Lafuente-Monasterio, Maria José 0220
Lafuente-Monasterio, Maria Jose 0222
Lago, Ednaldo 1340
Laguna, Harold Suazo 0474
Lai, Chih-Yun 0611
Lai, Jianyu 0615
Lai, Joanna 0733
Lai, Po-Ying 1260
Lake, Susanna J. 0993
Lakhkar, Anand 0418
Lakshmanane, Premkumar 1026
Lakshminarayanan, Subitha 1388
Lakshminaryanan, Subitha L. 1342
Lal, Sham 0366, 0500, 0774, 0781, 0786, 0903, 1216
Lalji, Shabbir 0308, 0320, 0565, 0658, 0663
Lalloo, David G. 0638
Lam, Brandon 1083
Lam, Samuel S. 0168
Lama, Eugène K. 0718
Lama, Eugène Kaman 0061
Lama, Hornel 1276
Lamah, Lamine 0798
Laman, Moses 0358, 0431, 0434, 0652
Lamanna, Olivia 1283
Lamb, Molly 0967, 0969
Lamb, Molly M. 0024, 0108, 0171, 1344
Lamb, Tracey 0224
Lambert, Amy 0617
Lambert, Ben 1349
Lambert, Christophe 1347
Lambert, Christophe G. 0017, 0187, 0251, 0252, 0910, 1258, 1384, 1385
Lambert, Lynn E. 1051, 1058, 1167
Lambert, Lynn Lambert E. 1175
Lambert, Marie-Julie 1276
Lambert, William E. 0960
Lambert, Yann 0738, 0840, 1369
Lamberton, Poppy 0833, 0835
Lambiris, Mark 0443, 1068
Lambrecht, Nathalie J. 0327
Lamda, Pooja 1377
Lamers, Olivia 0292
Lammens, Lieve 0582
Lampe, David J. 0274, 1146
Lana, Justin 0754
Landela, Ange 0632, 1076
Lando, Manuel 1184
Landry, Marie 0471
Lane, Adam 1212
Lane, Jacquelyn 0299, 0906
Lane, Sandra D. 0504
Langat, Solomon K. 0135
Lange, Rachel 0888
Lange, Rachel E. 0589
Langjahr, Patricia 0164
Langsjoen, Jens 1347
Langsjoen, Jens O. 1258, 1384, 1385
Lanka Acharige, Shalka S. 1206
Lanke, Kjerstin 0842
Lankhulani, Sosten 1390
Lantagne, Daniele 0900
Lanteri, Charlotte 0150
Lao, Lei 0024
Lao, Victoria 0129
Laperre, Jan 0024
Laporta, Gabriel Z. 1088
Larabell, Carolyn 1404
Larbi, Kwabena 0630, 0721
Laredo-Tiscareno, S. Viridiana 0177
Laredo-Tiscareño, Stephanie V. 0535
Lareu, Ricky R. 0076
Laroche, Maureen 0116
Larrosa, Mireia 1178
Larsen, Mads D. 0448
Lash, Ryan 1090
Lasu, Ally 0154
Lat, Tun Zaw 0700
Latham, Teresa 1212
Latner, Joshua 0503
Latta, Krista 0474, 0826
Lau, Colleen 0571, 0875, 1235
Lau, Colleen L. 0488
Laucella, Susana Adriana 0383
Lauer, Alinda 1184
Laufer, Miriam 0369, 1131
Laufer, Miriam K. 0711, 0927, 0931, 1183
Laufer, Mirium K. 0936
Laumonier-Ickx, Laurence 0713
Laurance, Susan G. 1368
Laurens, Matthew B. 0250, 0255, 0681, 0687, 0711, 0929, 1112, 1360
LaVerriere, Emily 0411, 0669
Lavstsen, Thomas 0683
Lawal, Oyewole 1135
Lawrie, Alison 0418
Laws, Margaret 0411
Lay, Sokchea 0165
Lay, Sreyngim 0907, 1359, 1362
Layland, Laura 1311
Lazaro, Samwel 0219, 0230, 0709
Lazenby, Siobhan 0978
L. Baillie, Vicky 1324
Le, Brandon 0038
Le, Victoria 0348
Leang, Rithea 0907, 1305, 1359, 1362
Leang, Supheap 0894
Lebas, Elodie 0339, 0348, 0636
Lebby, Beah J. 0357
Leber, Andrew 0892
Lebrun, Maryse 1403
Lecault, Veronique 1166
Lechiile, Kwana 0360, 0361, 0901
Ledger, Kimberly J. 0991
Ledgerwood, Julie 0849
Ledizet, Michel 0980
Lednicky, John A. 0891
Lee, Albert 0254, 0690, 0691, 0696, 0926
Lee, Bonita 1042
Lee, Christine E. 0887
Lee, Cynthia 0417
Lee, Dongyoung 0622
Lee, John 0424
Lee, KangJu 1381
Lee, Kyu H. 0461
Lee, Kyu Han 0084, 0465, 0516, 0609, 0941, 1324
Lee, Marcus 0221
Lee, Ming-Chieh 1132
Lee, Soo Ching 0044
Lee, Tamsin 0200
Lee, Tek Hyung 0129
Lee, Tristan 0443, 1068
Leeb, Amanda S. 0460
Leeme, Tshepo 0360, 0361, 0901
Lees, Rosemary S. 0553, 0995, 1349
Leetakubuulidde, Brian K. 0549
Legac, Jennifer 0196, 1065
Legac, Jenny 1064
Legand, Anaïs 0424
Legesse, Adane Ayele 0031
LeGros, Mark 1404
Leguia, Mariana 1350
Lehrer, Axel 0611
Leining, Lauren M. 1015
Leist, Sarah R. 1386
Leite, Laura 1013
Lek, Dysoley 1062
Lelo, Souleye 0655
Lemant, Jeanne 0265, 0740
Le Menach, Arnaud 0064, 0266
Lemence, Allen 0828
Lemiale, Laurence 0293, 0300
Lemma, Wossenseged 0622
Lemwayi, Ruth 1090
Lemyre, Jean-Luc 0024
Lendvay, Thomas S. 0024
Leng, Shuguang 1384
Lengeler, Christian 0230, 0443, 0709, 1068
Lenhar, Audrey 1004
Lenhart, Audrey 0131, 0751, 1349
Lenhart, Audrey E. 0014
Lenz, Benjamin 1310
Leonard, Colleen 0236
Leonardia, Susie 0519, 0613
Leonardi-Bee, Jo 0741
Leontsini, Elli 0825
Lerch, Anita 0248, 0634
Lerm, Maria 1261
Le Roch, Karine 0457
Leroy, Didier 0218
Lertsethtakarn, Paphavee 1062
Le Rutte, Epke A. 0493
Lescano, Andres G. 0767
Lesmanawati, Dyah Ayu Shinta 1159
Letizia, Andrew 0152, 0531
Le Tourneau, François-Michel 0287
Leuba, Sequoia I. 1109
Leulseged, Haleluya 0466
Leung, Annie 0415, 1377
Leung, Daniel 0328
Leung, Daniel T. 0035, 1301, 1302
Leung, Shirley 0688, 0723
Leung, Tiffany 0326
Levecke, Bruno 1264
Levenson, Richard M. 0168
Levi, Jose E. 1092
Levine, Adam C. 0006, 0035
Levine, Rebecca 0751
Levy, Marcy 0733

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 278 for the list of speakers and session chairs in Plenary and Symposium Sessions.

Levy, Michael Z. 0540
Lewis, Lauren 0025, 0107
Lewkebandara, R. 0517
Lewnard, Joseph A. 0331, 1300
Ley, Benedikt 0237, 1083
Ley-Thriemer, Kamala 0629
Li, Hanchen 1241
Li, Huixuan 0556
Li, Jian 0665
Li, Jun 0126, 0186, 0212, 0637, 1140
Li, Lihong 1033
Li, MingLin 0295, 0473
Li, Ping 0137, 0555
Li, Qigui 0216, 0217, 0644
Li, Sarah 1272
Li, Sheng 0637
Li, Tao 0295, 0301
Li, Xiaohui 0460
Li, Xue 0246, 0412, 0667, 0674, 0924, 1067, 1069
Li, Yuexin 0216, 0217, 0644
Li, Yuling 0670
Li, Zhiru 0475
Liang, Jenny 0004
Liang, Jiangtao 1395
Liang, Xiaoying 0852
Libby, Tanya 0495
Lichetenstein, Daniel 0958
Lichtenstein, Daniel 1346
Lidbury, Brett A. 1038
Liechty, Edward A. 1109
Lier, Audun J. 1066
Lietman, Thomas M. 0348, 0636, 1323
Lieu, Anthony 0346
Lievens, Marc 0417
Liffner, Benjamin Scott 1402
Lifwatila, Mubita 0315
Ligema, Godfrey 0314
Lim, Joon Seo 0178
Lim, Pharath 0628
Lim, Yvonne Ai Lian 0044
Lima-Cooper, Giselle 1101
Limani, Fumbani L. 0334
Lima Parra, Maria A. 0209, 0718
Lin, Audrie 0896
Lin, Gang 0197, 0203, 0204
Lin, Jessica 1062, 1098
Lin, Khin 0731
Lin, Leyi 0887
Lin, May Aung 0722
Lin, Paulo J. C. 0419
Lin, Yi-Chan 0024
Lin, Ying L. 0024
Linares, Mariely 0966
Linas, Benjamin P. 1342
Linda, Misiko 1214
Linden, Karl 0834
Linder, Alexander G. 0801
Lindner, Scott E. 0922
Lindoso, Ana Angélica B.Portela 1259
Lindsay, Steve W. 1095
Lines, Jo 0549
Lingappa, Jairam 0495
Linger, Marlin 1082
Lino Lako, Richard 0098
Linster, Martin 1254
Linton, Yvonee-Marie 0122, 0533, 0534
Linton, Yvonne M. 0110
Linton, Yvonne-Marie 0117, 0119, 0532, 0536, 0541, 0971
Liotta, Lance 0981, 1378
Lissauer, Samantha 1216
Lissenden, Natalie 0553, 1349
Litwin, Alain H. 0522
Liu, Anne F. 1342
Liu, Canhui 0350
Liu, Hongwei 0168
Liu, Jie 0097, 0332, 0621
Liu, Lijun 0374
Liu, Lucy 0461
Liu, Mengya 0166
Liu, Weimin 1391
Liu, Yang 0051, 1268
Liu, Yi Jing 0203, 0204, 0415
Liu, Ying 1086
Liu, Zac Yung-Chun Liu Y. C. 0919
Liu, Zhuyun 1228
Liu, Zijun 0348
Llanos-Cuentas, Alejandro 0838
Llinás, Manuel 0221, 0923
Lloyd, Shelby 0806
Lo, Eugenia 1084
Lo, Nicholas 0469
Lo, Nicholas T. N. 0581
Lo, Terrence 0097, 0621
Loaiza, Randall 0479
Lobb, Kevin A. 0215
Lobo, Neil F. 1350
Locke, Emily 0639
Locks, Lindsey 1388
Locks, Lindsey M. 1342
Lococo, Bruno 0383
Loeffler, Felix F. 0614
Loganathan, Ratha 0211, 0944, 0946, 1133, 1134, 1135, 1148, 1153, 1154
Logita, Dawit H. 1309
Lok, Pat 0371
Lokangaka, Adrien 1109
Loke, P'ng 0044
Lokilo, Emmanuel 0003
Lokilo, Emmanuel L. 0514, 0526
Lol, Juan C. 1004
Lombardi, Max 0922
Lon, Chanthap 0907, 1062, 1305, 1359, 1362
Londono-Renteria, Berlin 0592
Long, Daniel R. 0867
Longbottom, Joshua 0452
Longley, Rhea 0886
Lookens Pierre, Jean 0779
Loong, Shih-Keng 0539
Lopes, Sérgio 1184
Lopez, Brenda 0826
López, Francisco J. 1004
Lopez, Karen 1084
Lopez, Luis 0231
Lopez, Martha 0802
Lopez, Paul 0047
Lopez, Sandra 1252
Lopez-Carr, David 1267
Lopez Mercado, Brenda 0474, 0847
Lopez Mikue, Maria Silvia A. 1118, 1215
Lopez-Perez, Mary 0448
Lopez-verges, Sandra 0807
Lopman, Ben 0972
Lord, Anton R. 0884
Lorenzi, Olga 0026
Lorenzi, Olga D. 0966
Lorton, Christopher 0696, 0926
Losada, Sandra 0397
Loua, Kovana M. 0718
Lourenco, Christopher 0491
Lover, Andrew A. 0183, 0732
LoVerde, Philip 0056
Lowell, Joanna 0442
Loya, Mwajabu 1098
Loyola, Steev 0089, 1047
Lozano Chavez, Adelina H. 1257
Lu, Dan 0150
Lu, Diana 0792
Lu, Ding 0051, 1268
Lu, Hieng 0477
Lu, Hieng C. 0478
Lu, Lihan 0036
Lu, Monica A. 1387
Lu, Xiaowei 1296
Luangraj, Manophab 0781, 0902, 0903
Lubell, Yoel 0902
Lubinda, Mukuma J. 1279
Luby, Stephen P. 0896, 0897
Lucchi, Naomi 0623
Lucero, Dominic 0282, 1074
Luchen, Charlie C. 0323
Luchini, Alessandra 0981, 1378
Ludwig-Begall, Louisa 0024
Lugo, Emperatriz 1004
Lugo Caballero, Cesar 1225
Luhata, Christophe 0007
Lukanu, Philippe 1149
Lukens, Amanda 0195, 0221
Lukens, Amanda K. 0222, 0457, 1061
Lukole, Eliud 0008
Lukwago, Robinah 0664
Lukyanchikova, Varvara 1393, 1395
Luna, Expedito J. A. 1292
Lund, Andrea 1267, 1268
Lungraj, Manophab 0774
Lungu, Chris 0693, 1158
Lungu, Christopher 0441
Lunguya Metila, Octavie 0033
Luo, Dongsheng 0180
Lupiya, James S. 0313
Lupiya, James Sichivula 0559, 1180
Luque, Nelson A. 0503
Luraschi, Patricia 0164
Lurton, Grégoire 1276
Lusamaki, Eddy 0003
Lusamaki, Eddy K. 0514
Lusida, Maria Inge 0585
Lusingu, John P. A.. 1138
Lustigman, Sara 0486, 0874, 1228, 1231
Lustigman, Sarah 0485
Luth, Madeline 0221, 1061
Luth, Madeline R. 0222
Lutiali, Peter A. 0994
Lutomiah, Joel 0135
Luu, Lisa 0486
Lwezaula, Bingileki 1254
Lwezaula, Bingileki F. 0701
Ly, Po 0281, 0726, 0727
Ly, Sokna 0907, 1305, 1359
Ly, Sowath 0165, 1318
Ly, ViLinh T. 1326
Lycett, Gareth J. 1396
Lyimo, Eric 0308
Lyimo, Joanna 0230
Lyke, Kirsten E. 0296, 0369, 0681, 1112, 1289
Lyles, Robert H. 0515
Lynch, Kara 0530
Lynn, Mary K. 0522, 1088, 1383
Lyon, Sandra 1326
Lyons, Amy C. 0591
Lyski, Zoe L. 0846, 1032

M

Maazou, Aminata 0277
Mabey, David 0366, 0774, 0781, 0786, 0902
Mabey, David C. W. 0903, 1216
Mabiria, Maureen 0708, 1128, 1129
Macadam, Ian 0086
Macareo, Louis 1317
MacDonald, Emily 0751
MacDonald, Nicholas 0421, 1168
Macete, Eusébio 0405
Macete, Eusebio 0439
Macete, Eusébio 0654
MacGill, Randall 1166
MacGill, Randall S. 1170
MacGurn, Amanda 0424
Machacha, George 1074
Machado, Lais C. 0577
Machado, Laura V. 0337
Machain-Williams, Carlos 0174
Machani, Maxwell G. M. 1007
Macharia, Peter 0230
Machinga, Mazvita 0368
Machini, Beatrice 0714
Machiya, Tichaona 0901
Macia, Nicolas 0024
Maciejewski, Kaitlin R. 0980
MacInnis, Bronwyn 0254, 0411, 0669, 0926
Macintyre, Alison 0894
Mack, Lindsey K. 1352
MacKenzie, Donna 0875
Mackey, Brendan 0087, 0088
Mackie, Cyrus 0024
MacPherson, Eleanor 0077
Maculuve, Sónia 0405
Maculuve, Sonia 0654
Madanitsa, Mwayi 0635
Madebe, Rashidi 1138
Mader, Robert 0143, 0848
Madhaven, Meera 1164
Madhi, Shabir 0461, 0462, 1324
Madhi, Shabir A. 0515
Madigan, Katelyn E. 1236
Madison-Antenucci, Susan 0822
Madrid, Lola 0461, 0462, 0466, 0515, 1324
Madut, Deng 1254
Madut, Deng B. 0701
Maecker, Holden T. 1025
Maffei, Joseph G. 0589
Mafuleka - Malawi SmartNet Initiative, Taonga 0311, 0730
Mafuyai, Hayward 0432
Magallón, Ariel 1252
Magallon Tejada, Ariel H. 1054
Magalong, Jennifer 0356, 0795
Magistrado, Dominique 1014
Magistrado-Coxen, Pamela 0195
Maglior, Alysse 0736
Magnani, Diogo M. 1316
Magueta, Erica B. 0864
Magumba, Geofrey 0664
Magumba, Godfrey 0029, 0206, 0241, 1142
Mah, Jordan K. 0346
Mah, Marcus 1254
Mahajan, Avichal 0501
Mahaliyanage, D. 0524
Mahaliyanage, D. T. 0517
Mahamadou, Boubacar 0997
Mahamadou, Izamne 0997
Mahamar, Almahamadou 1281
Mahamar, Almahamoudou 0422, 0842, 1051, 1115
Mahamat, Tom Adoum 1144
Mahana, Louise 0304
Maharaj, Rajendra 0844
Mah-E- Muneer, Syeda 0811
Mahfuz, Mustafa 0974
Mahmud, Zahid H. 0859
Mahmud, Zahid Hayat 0829
Mahomed, Nasreen 1387
Mahtab, Sana 0461, 0462, 0515, 1324
Maia, Guilherme 0420
Maia, Marta 0116, 0551, 0564
Maier, Hannah 0474
Maiga, Djibrilla 0277
Maiga, Fatoumata K. 1270
Maiga, Fatoumata O. 0665
Maiga, Hamma 0199, 0725
Maiga, Mohamadine A. 1139
Maiga, Youssoufa 0784
Maikore, Ibrahim 1190
Maina, Priscilla 0140, 0580
Maina, Priscillah W. 1025
Mainsah, Evans N. 1231
Maire, Mark 0731
Maisano - Malawi SmartNet Initiative, Joseph 0311, 0730
Maiteki, Catherine 1126
Maiteki-Sebuguzi, Catherine 0927, 1089, 1141
Maixenchs, Maria 0078, 0093
Majam, Victoria 0821, 0980, 1048

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 278 for the list of speakers and session chairs in Plenary and Symposium Sessions.

Majeres-Lugand, Maud 0733
Major, Chelsea G. 0026, 0966, 1256
Makangara, Jean Claude C. 0526
Makangara, Jean-Claude 0003
Makangara, Jean-Claude C. 0514
Makangila, Felix 0792
Makate, Ntebaleng 0844
Makene, Twilumba 0232
Makenga, Geofrey 1138
Makepeace, Benjamin 0486
Makepeace, Benjamin L. 0475, 0485, 0539
Makhota, Lyubov 0606
Makinson, Rebecca 1164
Makoge, Valerie 0964
Makungwa, Noely 0314
Malacrida, Anna 0476
Malaga, Edith S. 0772
Malambo-García, Dacia 0089, 1047
Maldonado, Herberth 0972
Maldonado, Rosa 1249
Maldonado-Ruiz, L. Paulina 0118
Malecela, Ezeckiel 0219
Maleta, Kenneth 0635
Maletta, Leeany 0977
Malhotra, Indu 1343
Maliga, Adrianna 0333
Malik, Fauzia 0972
Malik, Fauzia A. 0067, 0099, 0102, 0809, 0979
Maliki, Ramatou 0348
Malinga, Josephine 0657, 0729
Maljkovic Berry, Irina 0163, 0602, 0615, 1317
Malla, Lucas 0714
Malla, Pallavi 1048
Mallory, Katherine 0419
Malm, Keziah 0702, 1193
Malm, Keziah L. 0209, 0718, 1145
Maloba, Franklin 0224
Maloney, Bailey E. 0587, 0588
Maloomian, Kimberley 1388
Maloomian, Kimberly 1342
Malott, Rebecca 0024
Malpiedi, Paul 0106
Malster, Jim 0281, 0726, 0727
Malug, Deborah 0917
Malumbo, Said 0181, 0207, 1006
Malumbo, Said L. 1025
Maly, Christina 0070, 0072, 0273, 0915, 0916
Mamani, Fernando 1253
Mambu, Fabrice 0002
Mambu-Mbika, Fabrice 0424
Mambwe, Brenda 1102
Maminiaina, Fridolin 0170
Mamo, Delayehu Bekele 0963
Mampunza, Samuel 0007
Man, Somnang 0907, 1305, 1359, 1362
Manalo, Daria 1272
Manamperi, N. 0456
Manamperi, Nuwani 1250
Manandhar, Rekha 0905
Manasatienkij, Wudtichai 0613
Manayani, Darly 0145
Mancha, Bulus 0432
Mancini, Giulia 1334
Mandagot, Jean Jacques 1144
Manda - Malawi SmartNet Initiative, Isaac 0311, 0730
Mandara, Celine I. 0219
Mandel, Jonathan 0908
Mandeng, Elysee 0184
Mandoko Nkoli, Papy 0410
Mandomando, Inacio 0461, 0462, 0949, 1324
Mandomando, Inacio M. 0515
Mandt, Rebecca E. 0222
Manfo, Faustin P. T. 1231
Manga, Isaac A. 1150
Manga, Isaac Akhenaton 0655
Mangala, Jean Louis 0240
Mangalu, Doris 0308
Mangani, Charles 0931
Mangeni, Judith 0650
Mangeni, Judith N. 0659, 1125
Mangolds, Virginia 0607
Manguire, Bonifacio 1215
Manguire Nlavo, Bonifacio 0293
Mani, Jyotishna 0869
Maniatis, Panagiotis 0590
Manikadan, Vinu 0913
Manjurano, Alphaxard 0008, 0308, 0318
Manjurano, Dr. Alphaxard 0309
Mankara, Alio Karamba 0348
Mankhomwa, John 0077
Manning, Jessica 1305, 1359, 1362
Manning, Jessica E. 1358
Manning, Jessica E. 0907
Mano, Lucien 0798
Manoj, Anita B. 0302
Manrique, Edgar 1005
Manrique-Saide, Pablo 0575, 1304
Mansiangi, Paul 1149
Mansour, Adel 0349
Mansour, Hani 1344
Mantus, Molly 0737
Manu, Lydia 1222
Manucci, Jordyn 1255, 1262
Manuel, Francisco 0182
Manyau, Salome 0952
Manyong Kapit, Anselme 0632, 1076
Manzanero, Russell 0333
Mapani, Joyce 0364, 1264, 1265
Mapesi, Herry 0370
Maquina, Paulo 0739, 0844
Marami, Dadi 1324
Marasciulo, Maddy 1275
Marasciulo, Madeleine 0029
Marasciulo-Rice, Madeleine 1142
Marcellin, Ateba 0209
Marcet, Paula 0012, 0744
Marchand, Arnaud 1291
Marchant, Jonathan S. 0404
Marchant, Mark 0976
Marchesini, Paola 0223, 0438, 0840, 1108
Marcos Oviedo, Juan 0449
Marcos Raymundo, Luis 1377
Mareke, Munyaradzi 1074
Mariano, Shyrill 0828
Maria Theresa, Valderama 0519
Mariga, Denver 1238
Marin, Rodrigo 1004
Marinho, Cláudio R. F. 1119
Marini, Simone 0891
Marin Mogollon, Catherin Y. 0193
Marin-Mogollon, Catherin 0292
Marín Valenzuela, Brenda J. 1221
Markle, Hannah L. 0313
Marks, Florian 0033
Marks, Michael 0993
Markwalter, Christine F. 0408
Marlais, Tegwen 0902
Maro, Venance 1254
Maro, Venance P. 0701, 0785
Marquart, Louise 0638, 0857
Marques, Beatriz C. 1028, 1315
Marreiros, Inês M. 1399
Marshall, Carly 0314
Marshall, John 0244, 0648
Marshall, Yael E. 0058
Marston, Barbara 1348
Martello, Elisa 0741
Martens, Jakson 1018
Martersteck, Rose 0496
Martin, Alicia 0100
Martin, Anne C. 1152
Martin, Coralie 1310
Martin, Daniel 0097
Martin, Daniel W. 0344, 0621
Martin, Daniel W. 0987, 1298
Martin, Diana 0101, 0352, 0921
Martin, Diana L. 1210, 1211, 1322
Martin, Franco 1184
Martin, Jackline 0008, 0309, 0318
Martin, Jackline L. M. 0548
Martin, John 0401
Martin, Nicholas 0653
Martin, Nicholas J. 0120
Martina, Marie-Sophie 0750
Martine, Jackline 0308
Martinez, Andres 0797
Martinez, Evelin 0596
Martínez, Evelin 0860
Martinez, Janae 1258, 1347, 1384, 1385
Martinez, Luis E. 0982
Martinez de Salazar, Pablo 0411
Martinez-Quiñones, Alma 1023
Martin-Martin, Ines 1331
Martins, José Franco 0736
Martins, Jose Franco 0844
Martins-Filho, Olindo A. 0586, 0845, 1361
Martinson, Thomas 0292, 1114
Martí-Soler, Helena 0405
Marube, Elizabeth 0710
Marx, Michael W. 0633
Marzan, Christine 1208
Marzan, Florence 0641
Masache - Malawi SmartNet Initiative, Pius 0311, 0730
Masiga, Daniel 1246
Masri, Reem A. 1393
Massay, Oliva 0739
Masserey, Thiery 0200
Massougbodji, Achille 0439, 0448, 0625
Mast, Quirijn d. 0426
Masud, Abdullah A. 0078
Masud, Abdullah Al 0084
Masud, Jahed 0827
Masumbe Netongo, Palmer 0976, 0976
Matambisso, Glória 0405
Matambisso, Glória G. Ernesto. 0654
Matanila, Isaya 0314
Mateja, Allyson 0929, 1359, 1360
Matende, Wycliffe Mwape 1100
Matendechero, Sultani H. 1238
Mateus, Anabela 0182
Mateus, António 0182
Mathanga, Don 0272, 0927, 0931, 0936
Mathanga, Don P. 1183, 1390
Mathe, Guidion 0282, 0739
Mathe, Henriquet 0384
Mather, Frances J. 0665
Mather, Thomas 0868
Matheranya, Elie 0792
Mathias, Nicholas 0888
Mathieu, Els 0997
Matimba, Charmaine C. 0566
Matipula, Dorothy E. 0482
Matlashewski, Greg 1335
Matoba, Japhet M. 1279
Matoke,, Damaris 1246
Matondo, Meris 0002, 0003
Matoso, Leonardo 1286
Matowo, Dr. Nancy S. 0309
Matowo, Nancy 0008
Matowo, Nancy S. 0318
Matrajt, Laura 0326
Matsena, Teodimiro 0500
Matsvimbo, Paul 1074
Matteson, Nathaniel 0601
Matthews, Alexander 0038
Matthews, Keith R. 0375
Matthiopoulos, Jason 1159
Matulis, Graham 0117, 0119, 0122, 0533, 0534, 0536, 0541
Matulis, Graham A. 0110
Matute, Armando 1040
Matyas, Gary R. 1175
Matzaraki, Vasiliki 0426
Mauala, Tautala 0875
Maude, Rapeephan R. 0030
Maude, Richard J. 0518
Maude, Richard J. 1078
Mauito, Joaquim 0182
Maung, Khant Maung 0700
Mavian, Carla 0163
Mavian, Carla N. 0891
Mawa, Patrice 0396
Mawejje, Henry D. 0549
Mawete, Francisca M. 0514
Mawuli, Bernice A. 1093
Maxwell, Kilama 1157, 1195
Maye, Escolastica Raquel M. 0293
Mayet, Saadiyah 0612
Mayfield, Helen 0571, 0875
Maynadier, Marjorie 1403
Mayo, Mark 0024
Mayor, Alfredo 0405, 0439, 0444, 0654, 0858
Mayxay, Mayfong 0774, 0781, 0902
Maze, Michael 1254
Maze, Michael J. 0701
Mazhari, Ramin 0238, 0886
Mazigo, Humphrey D. 1282
Mazitschek, Ralph 1061
Mba, Nwando 0022, 0101, 1348
Mba Abegue, Gabriel 0293
Mbaba, Ndifreke 1153
Mba Eyono, Jeremias Nzamio 1094
MBah, Glory 0486
Mbah, Glory E. 1231
Mbah-Mbole, Fru G. 0620
Mbainda, Severin 1248
Mbakaya, Joel 1006
Mbala, Placide 0003
Mbala, Placide K. 0002, 0526
Mbala-Kingebeni, Placide 0424
Mbaye, Ibrahima 0209, 0718, 1145
Mbayo, Packy 0656
Mbenda, Huguette Gaelle Ngassa 0852
Mbendi, Charles 0007
Mberikunahe, Joseph 1074
Mbeve, Henriques 0405, 0654
Mbewe, David 0313, 0559
Mbewe, Njelembo 0753
Mbewe, Rex B. 0931
Mbia, Patrick 0356, 0795, 0798
Mbituyumuremyi, Aimable 0240, 0703, 0757, 1079, 1185, 1189, 1194, 1266
Mbonigaba, Jean Bosco 1266
Mbusa, Ruffin M. 0002
Mbuyi, Gisèle 1276
Mbwasi, Ronald 0701
McAlester, Candace 0968, 1130
McArthur, Monica 1289
McCaffery, Jessica 0626
McCaffery, Jessica N. 0410, 0623, 0880
McCain, Kelly 0899
McCall, Matthew 0292
McCall, Matthew B. B.. 0639
McCall, Philip 1349
McCallum, Hamish 0087
McCann, Robert S. 1183
McCarthy, Anne E. 0386

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 278 for the list of speakers and session chairs in Plenary and Symposium Sessions.

McCarthy, James S. 0638, 0857
McCarthy, Megan 0175
McCarty, James 0850
McClure, Elizabeth M. 1109
McClure, Max A. 1361
McClure, Max Allan 0845
McCollum, Eric D. 1387
McCoy, Kaci D. 0503
McCracken, Michael K. 1291, 1293
McCracken, Stephen 0022
McDermott, Paul 0940
McDermott, Suzanne M. 0914
McDew-White, Marina 0246, 0412, 0667, 0674, 0855, 0924, 1067
McDonald, Emily 1285
McDonald, Emily A. 0507
McDonald, Erin M. 0890
McDowell, Chester 0005
McDowell, Mary Ann 0245
McElrath, M. J. 0914
McGraw, Elizabeth 0935
McGready, Rose 0464
Mcha, Juma 0565
McHardy, Stanton 0056
McIntosh, Emma 0833
McKay, Mary M. 0365
McKay, Mike 0320, 0658, 0663
McKenzie, Benjamin A. 0755
McLaws, Marylouise 0073
McLennan, John D. 0340, 0341
McLeod, Kayla 0687, 1118
Mcleod-Robertson, Stephen 0884
McLure, Angus 0571, 0875, 1235
McMahon, Benjamin H. 0187, 0251, 0252, 0671, 1116
McMahon, Paige 1282
McMahon, Robert 0143
McManus, Donald P. 0054
McMillan, Joseph 1303
McMinn, Rebekah 0969
McMinn, Rebekah J. 0967
McMurry, Timothy L. 0331
McNairy, Margaret 0779
M. Corder, Rodrigo 0838
McPherson, Brady 0571, 0875
McPherson, Scott 0920
McPhillips-Tangum, Carol 0042
McQuilkin, Patricia 0777
McTighe, Shane 0934
McVey, David S. 0591
Mdoe, Paschal 1299
Mduluza, Takafira 1284
Mduma, Estomih 0079, 1299
Mead, Daniel 0871
Mead, Paul S. 0890
Meadows, Meredith 0836
Means, Brenna 0521
Mečárová, Jana 1296
Medina, Freddy A. 1024
Medina, Shelley 0828
Medina-Lopes, Nicole 1256
Meganck, Rita 0579
Meganck, Rita M. 1019, 1021, 1386
Meginnis, Keila 0835
Megnekou, Rosette 0224
Mehlotra, Rajeev 1082
Mehmood, Junaid 1297
Mehotra, Anushka 0371
Mehra, Meenakshi 1133
Mehra, Somya 1111
Mehta, Ashka 0461, 0462, 0515, 1324
Meireles, Patricia 0220
Meiring, James 0334
Mejia, Rojelio 1015, 1383
Melak, Berhanu 1321
Melby, Peter C. 0446
Melegaro, Alessia 0972
Melembe, Cardoso 0405, 0654
Mellins, Claude A. 0365
Memoli, Matthew J. 0929, 1358, 1360
Menard, Didier 1083
Mendes, Manuela 0182
Mendes, Roberto 0661
Méndez, Melissa 1261
Méndez Dominguez, Nina 1221
Méndez Domínguez, Nina 1225
Mendonça, Claudia 0558
Mendonça Cova, Marta 1403
Mendoza, Ivan 0146
Mendoza, Laura 0164
Mendoza, Luis M. 0218
Mendoza, Neida M. 0151
Mendoza- Mujica, Giovanna 0984
Mendy, Jason 0849, 0850
Menéndez, Clara 0439
Menendez, Clara 0733
Menéndez, Clara 1122
Meneses, Claudio 1358
Mengesha, Gezahegn 0081, 0513
Mengist, Agersew 0911
Mengist, Agersew A. 0679
Meniailov, Ievgen 0606
Mensah, Benedicta 1160
Mensah, Enoch 0063
Mensah, Ernest 0356, 0357, 0797
Mensah, Nicholas Karikari 0788
Menya, Diana 0408, 0657
Menze, Benjamin 0184, 1181
Mercado, Marcela 0590
Meredith, Hannah R. 0408
Meredith, Scott 0821, 1048
Merens, Brittany 0175
Mergen, Kimberly 0822
Meridith, Hannah 1152
Merino, Xiomara 0155
Merkel, Patricia 0108
Merle, Corinne 0718, 1145
Merle, Corinne S. 0209
Merlin, Christine 1394
Merten, Sonja 1215
Mertens, Andrew 0897
Mertens, Andrew N. 0896
Mertes, Katherine 0110, 0119, 0532, 0533, 0541
Meseko, Clement 0800
Meseko, Clement A. 0173, 1365
Mesia, Kahunu 0384
Mesic, Aldina 0065
Mesones Lapouble, Oscar 0287
Messenger, Dr. Louisa A. 0309
Messenger, Louisa A. 0008, 0318, 0547
Messer, William B. 0846, 1032
Mestra, Alberto S. 0819, 1244
Mestroni, Luisa 1247
Metcalf, C. Jessica E. 1035
Metelo, Emery 1149
Metz, Miranda 0779
Metz, Stefan 0850
Meyer, Benjamin 0614
Meyer, David D. J. 0899
Meyer, Julia 0045
Meyers, Jacob I. 1394
Meyo Kamguia, Leonel 0403
Meyrowitsch, Dan Wolf 0788
Meza, Felician C. 0305
Mgaya, Yussuf 1229
Mhajabin, Shema 0950
Mhamilawa, Lwidiko E. 0232
Mharakurwa, Sungano 1110
Miaka, Erick Mwamba 0450
Miao, Jun 0852
Michael, Barratt 0832
Michael, Nelson L. 0887
Michalski, Michelle 0350
Michel, Kristin 0136
Michelen, Melina 0371
Michelow, Ian C. 0006
Michlmayr, Daniela 1314
Middleton, Frank 0958, 1346
Midem, David 1056
Migliore, Eleonora 0144, 0181, 1343
Migot-Nabias, Florence 0444
Miguel, Elisa 0491
Miguel, Judice 0405, 0654
Miguez Arosemana, Patricia 0179
Mihigo, Jules 0012, 0744, 1139
Mikie, Maria Silvia A. Lopez. 0300
Mikue, Maria Silvia A. Lopez. 0293
Milando, Florence 1171, 1219
Millar, Justin 0693
Millat, Pere 0567
Miller, Bridget 1203
Miller, Jane 0315
Miller, Jernelle C. 0711
Miller, John 0262, 0693
Miller, John M. 0441, 1158
Miller, Lauren N. 0801
Miller, Savannah 0804
Miller, Scott 0857
Milligan, Gregg 1291
Milligan, Paul 0209, 1145, 1281
Milligan, Paul J. 0718
Millogo, Ourohiré 0794
Milner, Dyann 0195
Milton, Donald K. 0615
Milton, Thandi 0901
Mims, Tykeara 1046
Min, Hui 0852
Min, Kaung Myat 0722
Mina, Michael J. 1035
Minakawa, Noboru 0994
Mine, Madisa 0360, 0361, 0901
Mingle, Julius A. A. 0552
Minja, Daniel T. 1138
Minkah, Nana K. 1120
Minsoko, Pamela 1160
Mioramalala, Sedera A. 0170
Miranda, Tatiana 0474
Miri, Emmanuel 0041
Miri, Emmanuel S. 0432, 0433
Mirindi, Patrick 0824
Miruka, Silviane A. 0214
Misasi, John 0002
Misenti, Joi 0137
Misore, Thomas 0092
Missee, Dorothee 1305
Mitchell, Andrew 0022
Mitchell, Cedar 0232, 1099
Mitchell, Hayley 0857
Mitchell, Stephanie 0110, 0119, 0533, 0541
Mitchum, Lyndsey 0100, 0208, 0276, 0509, 0719, 1161
Mitov, Venelin 0633
Mitran, Catherine 1165
Mitre, Edward 1217, 1233
Mitreva, Makedonka 0401
Mitton, Joshua 0317, 0746
Miura, Kazutoyo 0639
Miura, Kozue 0585
Miyamasu, Misato 1208
Miyazaki, Shinya 0193
Miyazaki, Yukiko 0193
Mizukami, Shusaku 0676
Mkali, Humphrey 0308, 0565, 0658
Mkali, Humphrey R. 0320, 0663
Mkandawire, Glory 0208, 0509, 0719
Mkude, Sigsbert 0230
Mlambo, Godfree 1333
Mmbaga, Blandina 1254
Mmbaga, Blandina T. 0426, 0701
Moch, Janette 0668
Mode, Benedict 0358, 0431, 0434
Modjarrad, Kayvon 0887
Moe, Aung Zaw 0722
Moe, Christine L. 0859
Moehrle, Joerg J. 0633
Mogaji, Hammed O. 0865
Mogire, Reagan M. 0214
Mogopa, Mpho 0843
Mohamed, Ally 0219, 0230, 0232, 0320, 0709
Mohamed, Audu B. 0209
Mohamed Ali, Ali 1147
Mohammed, Abdul R. 0742
Mohammed, Aderajew 0359
Mohammed, Audu B. 0757, 1185, 1189, 1190, 1194
Mohammed, Hussein 0236
Mohammed, Munkaila 0702
Mohammed, Yahya 0951
Mohanne, Hussein 0201
Möhrle, Jörg J. 0218
Moiroux, Nicolas 0750
Mok, Sachel 0923
Mokni, Mourad 0454
Mokomane, Margaret 0360, 0361, 0901
Moler, Mackenzie 1168
Molestina, Robert 0981
Molina-Cruz, Alvaro 1391
Molloy-Simard, Vanessa 0024
Molly, Roberton 1354
Molteni, Fabrizio 0230, 0232, 0709
Moltke, Jakob V. 1401
Mombo-Ngoma, Ghyslain 0439
Momo, Juan C. 0300, 1118
Momo, Juan Carlos 1215
Mon, Aung 0700
Mon, Khin Mon 0289, 0722
Monacchia, Giulia 0922
Mondal, Dinesh 0379
Mondragon, Maria Jose V. 1383
Mondy, Mathias 0995
Monira, Shirajum 0827, 0863
Monluo, Alexlyn S. 0039
Monluo, Vivian E. 0039
Monroy, Carlota 1383
Montaña, Júlia 0405
Montana, Livia 0442, 0715
Montañà Lópes, Júlia 0282
Montandon, Michele 0104, 0106
Montebello, Sandra C. 1092
Monteiro, Merita 1237
Monteiro, Merita A. A. 0038
Monteiro, Wuelton 1083
Monteiro, Wuelton M. 0629
Montelibano, Antoinette 0789
Montelongo-Ponce, Carolina 0177
Monterrey, Jairo 0474
Montgomery, Joel 0514
Montgomery, Joel M. 0424, 0526
Montgomery, Susan P. 1263
Monti, Feliaciano 0731
Montoya, Magelda 0583, 1314
Montoya Villanueva, Maria d. 1257
Montresor, Antonio 1239
Monya, Elvis 1231
Monzon, Anthony 1247
Moon, Alex S. 0130
Moonasar, Patrick 0739
Moonen, Bruno 0013
Moore, Christopher C. 0903
Moore, David 0371, 0812
Moore, Ian N. 1115
Moore, Janet L. 1109
Moore, Jason 0314
Moore, Sarah 0314
Moore, Sarah J. 0305
Moore, Sean 0347, 0832
Moormann, Ann 1113, 1174
Moormann, Ann M. 0607
Moraes, Jose C. 1292

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 278 for the list of speakers and session chairs in Plenary and Symposium Sessions.

Moraes, Marilia M. 1041
Morahan, Belinda J. 0020
Morais, Joana 0182
Morales, Carlos 0150, 0751
Morales, Maria Luisa 0802
Morales-Betoulle, Maria E E. 0424
Morales-Ortíz, Tatiana 1256
Moran, Alexander 0731
Morand, Serge 1368
Morazan, Gerhaldine 0333
Mordmüller, Benjamin 0448
Moreira, Carlos H. V. 1382
Moreira, José 0142, 0773
Moreira, Maria da Consolação Vieira 1247
Morejon Viteri, Bianca 0136
Morelle, Danielle 0417
Morello, Christopher S. 0145
Moreno, Alberto 0880
Moreno, Amabelle J. 0507
Moreno, Jorge 0223, 0438
Moreno, Jorge E. 0228
Moreno, Marta 0838
Mores, Christopher 0526
Mores, Christopher N. 0024
Morey, Francis 0333
Morgan, Camille 0007
Morgan, Samantha G. 0600
Mori, Amani T. 0239
Mori, Yasuko 0585
Moriarty, Leah F. 0027
Morin, Kelsey 1018
Morr, Igor 0146
Morris, Natashia 0844
Morrisey, Joanne 0018
Morris Jr, J Glenn 0891
Morrison, Amy C. 1350
Morrison, Robert 0199, 0422
Morrison, Robert L. 0447
Morrissey, Anne B. 0701
Morse, Tracy 0862
Moseley, Robert C. 0190
Moser, Matthew S. 1233
Moses, Lina M. 0806
Mosha, Dr. Franklin W. 0309
Mosha, Franklin 0753
Mosha, Franklin F. 0318
Mosha, Franklin W. 0008
Mosha, Jacklin F. 0008, 0309, 0318
Mosher, Aryc W. 0792
Moskaluk, Christopher A. 0347
Mosore, Mba 0152
Mosore, Mba-Thissommah 0114
Moss, Kelley 0573
Moss, William 0737
Moss, William J. 0242, 0313, 0559, 1100, 1107, 1110, 1180, 1279
Mosser, Jonathan 1273
Mossoko, Mathias 0424
Mostel, Jadmin 0721, 0724, 1139
Mota, Maria M. 1399
Motaghi, Mina 1260
Motlaleng, Mpho 0739
Motlhabane, Leungo 0064
Motoa, Gabriel 0397
Motoki, Maysa T. 0120
Mou, Zhirong 0047, 1251, 1405
Moua, Sonja 0162
Mougeni, Fabrice 1160
Moukenet, Azoukalne 0290
Mouline, Karine 0307, 0750
Moulton, Lawrence H. 0242
Mousa, Andria 0444
Moyer, Crystal L. 0139
Moyes, Catherine 1349
Moyes, Catherine L. 1353
Mpamugo, Augustine 0022, 1348
Mpanga, Flavia 0664
Mpazimpaka, Christian 0506
Mpina, Maximillian 1118
Mpina, Maxmilian 0631
Mpina, Maxmillian 0293
M Sale, Noura 0997
Mshana, Stephen E. 0427, 0428
Msona, Humphrey 0272
Mtalitinya, Gideon 1282
Mthawanji, Rhosheen S. 0303
Mtiro, Emma 0940
Mtove, George 1138
Mubanga, Cynthia 0323
Mubangizi, Alfred 0396, 0918
Mucaca, Jean Bosco 1079
Muchimba, Mutinta 0323
Mudena, Maina 1265
Mudenda, Maina 0364, 1264
Mueller, Ivo 0238, 0652, 0886
Mueller-Hauser, Anna A. 0325
Mugabe, Pallen 0208, 0509
Mugabo, Carol 0506
Mugah, Christopher 0461
Mugenyi, Albert 0452
Mugerwa, Robert 0787, 1077
Mughis, Waliyah 0067, 0099, 0102, 0809, 0979
Mugizi, Rukaaka 0491
Mugomeri, Elton 0388, 0502
Mugume, Francis 0036, 0918
Muhammad, Riyadh 0594
Muhashyi, Anastase 0703
Muhindo, Mary 0021
Muhindo, Mary K. 0685, 0685
Muhindo, Rabbison 0275
Mühlberger, Elke 0900
Muir, Jonathan A. 0949
Mujumbusi, Lazaaro 0835
Mukadi, Daniel 0002, 0003
Mukadi, Daniel B. 0514, 0526
Mukadi-Bamuleka, Daniel 0424
Mukaka, Mavuto 0936
Mukamana, Beatrice 0703
Mukamba, Jean Yves 0717
Mukoko, Dunstan 1343
Mukomena, Eric S. 1276
Mukomena Sompwe, Eric 0632, 1076
Mukora-Mutseyekwa, Fadzai N. 0388, 0502
Mukumba, Curtis 0069
Mukuwapasi, Waraidzo 0368
Mulangu, Sabue 0002
Mulatu, Melisachew 0461
Mulder, Nicola 1327
Muleba, Mbanga 0242, 0313, 0559, 1180
Mulebeke, Ronald 1137, 1157, 1195
Mulenga, Francis K. 0313
Mulenga, Francis Kapasa 0559
Mulla, Abdus S. 0078
Müller, Jonas 0001
Müller, Pie 1011, 1308
Mulligan, Brian 0713
Mulogo, Edgar 0275
Multari, Rosalie 0525
Mulube, Conceptor 1102
Mulyatno, Kris Cahyo 0585
Mumba Ngoyi, Dieudonne 0632, 1076
Mumbengegwi, Davis 0844, 1156
Mumford, Kelsey 0780
Mumtaz, Zubia 1042
Mundagowa, Paddington T. 0368
Munde, Elly 0251
Munde, Elly O. 0017, 0187, 0252, 0618, 0910, 1258
Mundeke, Steve A. 0514
Muneer, Syeda Mah-E- 0023
Munga, Stephen 0637, 0678, 0994
Munguambe, Humberto 0405
Munguía, Nancy 1040
Mungwira, Randy G. 0711
Munidasa, Deepani 0382
Munisi, Khalifa 0230, 0709
Muniz, Aline 1340
Munoz, Jose 1288
Muñoz-Jordán, Jorge 0966
Muñoz-Jordan, Jorge 1256
Muñoz-Jordán, Jorge L. 1024
Munro, Justin 0221
Münster, Max 1291
Munt, Jennifer 0579
Munt, Jennifer E. 1316
Munthali, John 0272, 1390
Munyaneza, Tharcisse 1079
Munyati, Shungu 1110
Munyuzangabo, Mariella 0506
Murapa, Tsitsi 0368
Muratova, Olga 1168, 1175
Murila, Florence V. 1324
Murithi, James 0221, 0457
Muro, Claudio 0763, 0765, 0766, 0771, 1371
Murooka, Thomas 0047
Murphy, Matthew 0236
Murphy, Sean 0292
Murphy, Sean C. 0302, 0423, 1050, 1094, 1121, 1176
Murphy, Sean C. 1117
Murphy, Steven 0471
Murray, Kristy O. 0333, 1015, 1383
Murray-Smith, Roderick 0746
Murry, Daryl J. 0483
Murshedkar, Tooba 0422, 0687, 1118
Murungi, Marion 0970
Musa, Adesola 1190, 1194
Musange, Sabine F. 0463
Musekura, Ruth 0208, 0509, 0719
Mushonga, Wietske 0388, 0502
Musiime, Alex 0406, 1095
Musinguzi, Kenneth 0049, 0909
Musoke, Andrew 0787
Musoke, Isaac 0208, 0509, 0719
Musset, Lise 0411, 0738, 0840
Musukwa, Gloria 0943
Mutabazi, Alphonse 1266
Mutapi, Francisca 1284
Mutembo, Simon 0943
Mutevedzi, Portia 0461, 0462, 0515, 1324
Muthoga, Charles 0360, 0361
Mutombo, Meschac 0656
Mutricy, Louise 0840, 1369
Mutseyekwa, Fadzai N. Nyembesi. 0368
Mutsuddi, Palash 0078, 0084, 0896
Mutuku, Francis 0095, 0140, 0181, 0207, 0580, 1006, 1027
Mutuku, Francis M. 0144, 1000, 1025, 1343
Mutuku, Paul 1006
Mutukwa, Norest 0952
Mutungi, Peter 1089
Muturi, Martha 0564
Muturi, Martha N. 0551
Muyaga, Letus L. 0305
Muyembe, Francisca 0003
Muyembe, Francisca M. 0526
Muyembe, Jean Jacques T. 0514, 0526
Muyembe, Jean-Jacques T. 0002
Muyembe-Tamfum, Jean-Jacques 0424
Muyirukazi, Yvette 0240
Mvalo, Tisungane 1277
M. Vinetz, Joseph 0838
Mvuama, Nono 0651, 1149
Mvula, Godfrey 0369
Mwaba, John 0323
Mwakangalu, Dickson 0717, 1073, 1128, 1129
Mwakangalu, Dickson M. 0708
Mwaki, Alex 1263
Mwakio, Edwin 0198, 1060
Mwalabu - Malawi SmartNet Initiative, Elias 0311, 0730
Mwalimu, Dismas 0308
Mwambingu, Laura 0140, 0580
Mwandagalirwa, Kashamuka 0007
Mwandagalirwa, Melchior K. 1099
Mwandagalirwa, Melchior Kashamuka 0651
Mwanga, Emmanuel 0746
Mwanga, Emmanuel P. 0317
Mwanga, Joseph R. 0427, 0428
Mwangangi, Joseph 0116
Mwangosho, Khamisi 0095
Mwansa, Francis D. 0943
Mwanza, Mercy 0739
Mwapasa, Victor 0635
Mwatha, Stephen 1238
Mwebaza, Norah 0213, 0641, 1057, 1066
Mweene, Tobias 1264
Mwema, Francois-Xavier 1076
Mwema, Xavier 0656
Mwenda, Mulenga C. 1102
Mwendera, Nyasha 0739, 0844
Mwene, Tobias 0055
Mwesigwa, Julia 0757, 1189, 1193, 1194
Mwinzi, Pauline N. M. 0402
Mwiseneza, Eliab 0703
Myat Min, Aung 0464
Myburgh, Nellie 0515
Myers-Hansen, James 0677
Myint Soe, Thiha 0700
Myles, Kevin M. 1392
Mysore, Keshava 0137, 0555
Mzilahowa, Themba 0303, 0931, 1183

N

Na, Chan Hyun 0188
Naanpoen, Thomas Andrew 0921
Nabakooza, Jane 1142
Nabbosa, Gloria N. 0504
Nabende, Isaiah 1089
Nabirye, Christine 0505
Nabukenya, Mariam 0208, 0719
Nabunya, Phoebe 0025, 0107
Nabunya, Proscovia 0365
Nabwire, Ruth 1126, 1127
Nace, Doug 0626
Nace, Douglas 0410, 0623, 0880
Nacher, Mathieu 0840, 1369
Nada, Rania 0349, 1201
Nadakal, Steven 1058
Naemiratch, Bhensri 0508
Nag, Dilip 0888
Nagahawatte, A. de S. 0517, 0524, 0805
Nagy, Péter 0134
Naidoo, Saloshni 0050
Naiga, Susan 1070
Naing, Ye Hein 0289
Nair, Shalini 0246
Nakamya, Phellister 1126, 1127
Nakavuma, Jesca L. 0385
Nakhasi, Hira 1335
Nakhasi, Hira L. 0445, 1339
Nakhla, Isabelle 0349, 1201
Nakiganda, Juliet 0787
Nakigozi, Gertrude 0365
Nakirunda, Maureen 1142
Nakwagala, Fredrick 0029
Nalianya, Erick 0657
Nalukwago, Judith 0208, 0509, 0719
Nalule, Yolisa 0894
Nam, Vu S. 0120
Namae, Jane 0657
Namango, Isaac H. 0314

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 278 for the list of speakers and session chairs in Plenary and Symposium Sessions.

Namayanja, Josephine 0025, 0107
Namazzi, Ruth 0015, 0019, 0185, 0192, 0683, 1096, 1101
Namazzi, Sylvia 1091
Nambuusi, Betty 1126, 1127
Nammunige, Nirupama A. 0477
Nampota, Nginache 0369, 0711
Namuganga, Jane F. 0210
Namuganga, Jane Frances 1089
Namuwonge, Flavia 0365
Namwase, Angella Sandra 0096, 0344
Nana Djeunga, Hugues 0964
Nana Djeunga, Hugues Clotaire 0545
Nana-Djeunga, Hugues C. 0873, 1227
Nana Thwala, Bukiwe 1324
Nangombe, Stefanus 0736
Nankabirwa, Joaniter 1157
Nankabirwa, Joaniter I. 0210, 0406, 1091, 1095
Nankam, Karine 0705
Nankibarwa, Joaniter 1070
Nankya, Felistas 0048, 0049, 0909
Nanra, Jasdeep 0573
Naowarat, Sathapana 0284, 0839
Napier, Harriet 0443
Napoloen, Loveth 0921
Narahara, Chisato 0676
Naranjo-Diaz, Nelson 1188
Narasimhan, Prakash 1388
Narasimhan, Prakash B. 1342
Narasimhan, Sukanya 0980
Narciso, Marivic 0143, 0848
Nardini, Luisa 0306
Nare, Dieudonne 0798
Narum, David 1168
Narum, David L. 0421, 1175
Naruse, Taeko 0676
Nasamu, Armiyaw 0195
Nascimento, Eduardo J. 0157, 0572
Nascimento, Eduardo J. M. 0161
Nascimento, Mauricio 0046
Naser, Abu M. 0949
Naseri, Take 0875
Nash, Scott D. 1211, 1321, 1323
Nash, Theodore 1370
Nasi, Titus 0993
Nasrin, Sabiha 0035, 0390
Nassali, Martha 1089
Nassirou, Beido 0348
Natale, María Ailén 0383
Natama, Hamtandi M. 0418
Nate, Elma 0652
Nath, Serei V. 0949
Nathan, Carl 0204
Nathan, Patricia 0101
Naumenko, Anasasia N. 1393
Naung, Myo 1111
Naung, Myo T. 0238
Nauwynck, Hans 0024
Navarro, Fatima Claire 0519
Nayebare, Patience 0908, 0909
Nayiga, Susan 0505, 0775
Nche, Frungwa 0403
Nchimbi, Nuru S. 0305
Nchoutpouen, Elysee 0184
Ndao, Momar 0400, 1287
Ndege, Caroline 0017, 0187, 0251, 0252, 0618, 1258
Ndege, Robert 0370
Ndekhedehe, Enobong 1153
Ndenga, Bryson 0095, 0140, 0181, 0207, 0580, 1027
Ndenga, Bryson A. 0144, 1006
Ndi, Emmanuel M. 1231
Ndiabamoh, Crespoo Mbe-cho 1198
Ndiaye, Abib 0799
Ndiaye, Daouda 0254, 0278, 0628, 0926
Ndiaye, Fatou 0040
Ndiaye, Idrissa 0799
Ndiaye, Jean L. Abdourahim. 0209, 1150
NDiaye, Jean Louis 0718, 1145
Ndiaye, Jean-Louis A. 1269
Ndiaye, Magatte 0655
Ndiaye, Yaye Die 0254
Ndikumana Mangara, Jean-Louis 1079
Ndimande, Nelo 0405, 0654
Ndinya, Florentius 1129
Ndione, Raphael A. 0919
Ndiop, Medoune 0254, 0926
Ndire, Samwel 1006
Nditanchou, Rogers 1232
Ndlovu, Patricia 0050
Ndo, Cyrille 0184
Ndodo, Nnaemeka 0022, 0101
Ndong, Vicente U. Nsue. 0300
Ndour, Daba 0799
Ndubani, Philimon 0943
Ndung'u, Joseph 1248
Ndung'u, Joseph 0452
Ndyabakira, Alex 1126, 1127
Neafsey, Daniel 0411, 0669
Neafsey, Daniel E. 0925
Neal, Caleb 0471
Neal, Jillian 0199, 1167
Neal, Maxwell L. 0692
Neale, Matthew N. 0507
Neamatallah, Mustafa 0349
Neatherlin, John 0424
Nebie, Eric 0636
Nebié, Eric 0794
Nebie, Eric I. 0497
Needham, James 0983
Neema, Stella 0427, 0428
Neff, Norma 0907
Negash, Abiyot 0226
Neilands, Torsten B. 0365
Nekkab, Narimane 0729, 0886
Nelli, Luca 1159
Nelson, Ann 0525
Nelson, Eric J. 0035, 0490
Nelson, Kate A. 0806, 0978
Nelson, Thelma 0097
Nelson, Thelma V. 0621
Nemer, Looli M. 1017
Nemungadi, Takalani G. 0050
Nengi, Israel 0352
Nepal, Bipin 0905
Nepal COVID-19 Clinical Study Collaborators, 0905
Nery, Susana V. 0038
Netea, Mihai G. 0426
Neumann, Anna Lena 0484
Neumann, Anna-Lena 1310
Neuzil, Kathleen M. 0033
Nevard, Katherine 1003, 1178
Neves, Eula G. 1338
Nevitt, Sarah 0239
Newman, Lee 1344
Newport, Trish 1144
Newton, Paul 0774
Newton, Paul N. 0781, 0902
Newton, Sam 0788
Newton, Suzanne 0590
Neya, Ebou Cathérine 0205
Neyts, Johan 1291
N'Fale, Sagnon 1194
Ng, Angela 0824
Ng, Caroline 0853
Ng, Kee Seong 0044
Ngalasa, Sifa 1098
N'ganga, Joyce 1128
Ng'ang'a, Charles 0144, 0207
Ngasala, Billy 0219, 0232, 1098
Ngauy, Viseth 0393, 0816
N'Gbichi, Jean Marie 0069, 0288, 0706
Ngbichi, Jean Marie 0068
Ngenya, Abdallah 1229
Ngere, Florence 1128
Ngimbi, Patrick 0007
Ngindu, Augustine 0708, 1128, 1129
Ng-Nguyen, Dinh 1243
Ngo, Kiet 0589
Ngo, Kiet A. 0599
Ngo, Ton 0919
Ng'ombe, Harriet 0323
Ngondi, Jeremiah 0036, 0320, 0658, 0663
Ngondi, Jeremiah M. 0792, 0918
Ngonyani, Hassan 0314
Ngougoue Ngougoue, Pierre Marie 0258, 0948
Ngoyi, Bonaventure F. 0792
Nguefack Tsague, Georges 0976
Nguema, Raul 1008
Nguema Avue, Restituto Mba 1094
Nguemwo Tentokam, Bergeline C. 1175
N'Guessan, Raphael 0749
NGuessan, Raphael K. 0550
Nguetta, Prof Simon-Pierre A. 0550
Ngufor, Corine 0225, 0316, 0547, 0749, 1355
Ngufor, Corine A. 0011, 1181
Ngui, Romano 0044
Nguku, Patrick 1280
Ngulube, Willy 1177
Ngunjiri, Susan 0523, 0968, 1130
Nguyen, Chilinh 1351
Nguyen, Huygen 1085
Nguyên, Trần Đăng 0257
Nguyen, Vu 1168
Nguyen, William 0348
Nguyenla, Xammy 0470
Nguyen-Veit, Hung 1364
Ngwira, Rabecca 1177
Nhacolo, Ariel 0515, 0949
Nhampossa, Leonildo 0282
Nhampossa, Tacilta H. F. 0363
Nhamussua, Lidia 0405
Nhazime, Aníbal 0282
Nhek, Sreynik 1359
Nhiga, Samwel L. 1090
Nhik, Sreynik 1305
Niambele, Sidi M. 0842
Niang, Abdoulaye 0746
Niang, Mame 0241
Niangaly, Amadou 0250, 0255, 0681
Niare, Karamoko 1160
Nichol, Stuart 0514
Nichol, Stuart T. 0424
Nichols, Lisa 1151
Nicholson, B. 0517, 0524
Nicholson, Bradly P. 0805
Nideffer, Jason 0909
Nielsen, Morten A. 0448
Nielsen-Saines, Karin 1307
Niemczura de Carvalho, Julie 0279
Nieto-Andrade, Benjamin 0491
Nijman, Gerine 0908
Nijman, Ruud 1216
Nikau, Jamilu 0209, 0718
Nikhotope, Júlio G. 0282
Nikiema, Frederic 1281
Niles, Jacquin 0195, 0221
Niles, Jacquin C. 0457
Nimo-Paintsil, Shirley 0152, 0531
Nisalak, Ananda 0163
Niu, Guodong 0126, 0186, 0212, 0637, 1140
Niu, Guomin 0637
Nix, Chad D. 0846
Nixon, Christina 1174
Nixon, Thomas 0607
Niyonzima, Jean Damascene 0703, 1079
Nizama-Salazar, Oscar P. 0772
Nizame, Fosiul A. 0898
Njau, Isaac 0955
Njau, Ritha 0219
Njeambosay, Boris 0184
Njenga, Sammy M. 1288
Nji, Akindeh 0976
Njiokou, Flobert 0545
Njitchouang, Guy-Roger 0545
Njoku, Chidi 0433
Njoku, Elizabeth 0070, 0916
Njoroge, Gathenji 1000
Njotu, Fabrice N. 1231
Njovu, Constance 0736
Njuguna, Festus M. 1143
Nkalani, Marthe 0651
Nkhoma, Standwell 1052
NKO'Ayissi, Georges 0356, 0795
Nkongolo, Jadhoul 0068, 0069
NKUBA, Antoine 0424
Nkuba, Antoine N. 0002
Nkutu, Henry 1276
Nlang, Jose Antonio M. 0756
Nlavo, Bonifacio M. 0879, 1118
Nnaemeka, Ndodo 0352
N'Nan-Alla, Oulo 0550
Nogueira, Maurício L. 1028, 1041, 1044
Nogueira, Mauricio L. 1315
Noh, John 0053, 1230
Nolan, Christina 0216, 0217, 0644
Nolan, Melissa 0556, 0989
Nolan, Melissa S. 0522, 0544, 1088, 1383
Noland, Gregory 0291, 0359, 1218
Noland, Gregory S. 0041, 0353, 0432, 0433, 0437
Nombre, Apollinaire 0734
Nombre, Yacouba 0718, 0854
Nomenjanahary, Michael 0712
Nonato, Walker 1340
Nongo, Debby 1345
Nonkani, Gerard W. 1136
Noor, Abdisalan 0694
Noori, Navideh 0492
Nordgren, Johan 0860, 1039, 1040
Nordio, Francesco 0162
Norman, Jared M. 0264
Noronha, Leela E. 0591
Norris, Douglas E. 0242, 0313, 0559, 1180
Northrup, Graham 1362
Norwood, Brooke 0157, 0160, 0572
Nosten, Francois 0246
Nosten, François 0464, 0674, 0924, 1069
Nosten, François H. 0412, 0667, 0855, 1067
Nothem, Adam 0721
Nouta, Jan 0448
Noval, Maria G. 0146
Novela, Anísio 0666, 1103
Noviyanti, Rintis 0886
Nowak, Gosia 0150
Noya, Oscar 0397
Nsango, Sandrine 0224
Nsanzabana, Christian 0634
Nshimiryo, Alphonse 0506
Nsiah-Asare, Anthony 0956
Nsiangani, Sarah N. 0273
Nsobya, Samuel 1065
Nsobya, Samuel L. 0196, 0197
Nsofor, Emeka 1135
Nsunda, Bibiche 0002, 0003
NTAMPERA, Jean Marie 0424
N'tcha, Ludovic 0312
Ntebela, Davies S. 0843
Ntiamoah, Yaw 0417
Ntiranyibagira, Jeanne d'Arc 0304

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 278 for the list of speakers and session chairs in Plenary and Symposium Sessions.

Ntuku, Henry 1156
Ntumy, Raphael 0702
Nua, Motusa Tuileama 0355
Nuansalee, Pornsopit 0610
Nunes, Maria do Carmo 1382
Nunes, Maria do Carmo P. 1338
Nuñez, Luigi 0315
Nunez, Luigi 1076
Nunez Avellaneda, Daniel 0174
Nunez-Avellaneda, Daniel 0889
Nur Faizah, Astri 0141
Nuriddinov, Miroslav 1395
Nurullah, Md 0518
Nute, Andrew 0291
Nute, Andrew W. 1211, 1321
Nutley, Sara 0175
Nutman, Thomas 1312
Nutman, Thomas B. 0043, 0790, 0874, 0878, 1313, 1370, 1375
Nuwa, Anthony 0029, 0664, 1142
Nuwa, Anthorny 0206
Nwachukwu, Victoria 0329
Nwane, Philippe 1232
Nwane, Philippe Bienvenu 0545
Nwankwo, Grace 1135
Nwankwo, Lawrence 0310, 0916
Nwatu Dickson, Felicia 0921
Nwatuzor, Joy 0001
Nwodu, Kenrick 0432
Nwoke, Bertram E. B. 0432, 0433
Nwokenna, Uchenna 0211, 0944, 0946, 1133, 1134, 1135, 1148, 1153, 1154
Nyaba, Iya Sasse Ruth 0401
Nyabuga, Lamek Mageto 0783
Nyagabakye, Francis 0549
Nyakaru, Deborah 1282
Nyakarungu, Elizabeth 0293, 0631, 1118
Nyakech, Alphonce 1128
Nyakundi,, Hellen MPH M. 1246
Nyakwezi, Sheila 0208, 0509, 0719
Nyandwi, Elias 1266
Nyangau, Isabella 0710
Nyangulu, Wongani 0711
Nyanor, Isaac 0788
Nyarko, Edward 1204
Nyathi, Sindiso 1027
Nyatigo, Fanice 0339, 0636
Nyinondi, Ssanyu 0219, 0232, 0308, 0565, 0658
Nyinondi, Ssanyu S. 0320, 0663
Nyirenda, James 1152
Nyirongo, Joyce 1183
Nyuybini, Ntasin V. 0620
Nzigire, Johanna Karemere 0656

O

Oakley, Miranda S. 1048
Obala, Adrew 0408
Obala, Andrew 0650, 1125
Obala, Andrew A. 0659
Obaldia, Nicanor 1054, 1252
Obama, Henri C. Junior. Tsoungi. 0604
Obasi, Andrew 0433
Oberli, Alexander 0759
Oberstaller, Jenna 0247
Obi, Emmanuel 0757, 1189, 1190, 1194
Obikwelu, Emmanuel 0041
Obiri, Dorotheah 0682
Obor, David 0515
O'Brien, Kieran S. 0339, 0348
Ochoa-Diaz, Margarita M. 1226
Ochomo, Eric 1007, 1179
Ochora, Douglas O. 0198, 1060
Ochu, Chinwe 0022
Ocitti, Joseph 0206
Ockenhouse, Christian 0417, 1281
Ockenhouse, Christian F. 0639
O'Connell, Elise M. 0043, 1370
O'Connor, Kaylee 0780
Odagwe, Chukwujindu 0227
Odame, Isaac 0063
Odebode, Mariam A. 0329
Odedra, Anand A. 0638
Odeyemi, Olu 0831
Odezugo, Gertrude 0940
Odhiambo, Fredrick 1129
Odia, Ikponmwosa 0603
Odiere, Maurice R. 0402, 1263
Odio, Bartholomew 0070, 0072, 0074, 0916
Odoh, Ifeanyichukwu 1348
Odongo, Musa 0664, 1142
Odongo, Patrick 0206
O'Donnell, Kyle 1018
O'Donoghue, Anthony J. 0203
Odoom, Samuel Frimpong 0788
Odude, Wycliff 1157, 1195
Odufuwa, Olukayode G. 0314
Oduma, Colins 0883
Odunukan, Olufunso 0511
Oduola, Adedayo O. 0310
Oduro, Daniel 0682
Odusote, Temitayo 1345
Odwar, Boaz 0607
Oele, Elizabeth 0461
Oestereich, Lisa 0001
Oeuvray, Claude 0856
Ofori, Michael F. 0448
Ofori, Michael Fokuo 0682
Ofori, Sylvia K. 1260
Ofori-Anyinam, Opokua 0417, 1281
Ogbaini, Ephraim 0603
Ogbaini-Emovon, Ephraim 0001
Ogbuanu, Ikechukwu 0461, 0462, 0515, 1324
Ogbulafor, Nnenna 0209, 0211, 0718, 1081
Ogolla, Sidney 0618, 0678, 1056
Ogoussan, Kisito 0436
Ogouyemi-Hounto, Aurore 0225, 0279
Ogouyèmi-Hounto, Aurore 0718
Ogunbosi, Babatunde O. 0329
Ogundahunsi, Olumide 0042
Ogunleye, Veronica 0329
Ogunmola, Olusola 0793
Ogunsola, Olabanjo O. 0104, 0106
Ogutu, Bernhards 1174
Ogutu, Bernhards R. 0214
Ogwal, Alex 0787
Ohene-Frempong, Kwaku 0956
Oidtman, Rachel J. 0577
Ojeda, Sergio 0474, 0826, 0847
Ojo-Akosile, Tolulope R. 0864
Ojulong, Julius 1324
Okafor, Linda 1133
Okah-Nnane, Ndode Herman 0486
Okanda, Irene 0710
Okechukwu, Emeka 0940
Okeke, Ifeanyi 0310
Okeke, Iruka N. 0033, 0329
Okell, Lucy 1059
Okell, Lucy C. 0444
Okendo, Javan O. 1327
Okethwangu, Denis 0025, 0107
Okiring, Isaac 0787
Okiring, Jaffer 0210, 1086, 1091
Okitawutshu, Jean 0443, 1068
Okitwi, Martin 0196, 0197
Okogbenin, Sylvanus 0001, 0603
Okoh, Festus 0072
Okoi, Catherine 0022
Okokhere, Peter 0603
Okoko, Okefu O. 0757, 1185, 1189, 1190, 1194
Okoli, Chukwudinma C. 0227
Okolo, Vera 1120
Okolocha, Emmanuel C. 1363, 1365
Okombo, John 0923
Okomo, Gordon 0885
Okon, Charles 0443
Okonkwo, Alexander 0603
Okonkwo, Prosper 0104, 0106
Okoronkwo, Chukwu 1133
Okorosobo, Tuoyo 0042
Okoth, Joseph 0406
Okoth, Winter A. 1048
Okoye, McPaul 0022, 0101, 0104, 0106, 0921, 1348
Okuba, Tolesa B. 0073
Okudo, Charles 1060
Okuma, James 0370
Okumu, Fredros O. 0305, 0317, 0746
Okuneye, Kamaldeen 0689
Okunoye, Olumide 0022, 1348
Okuta, Victoria 0095, 0140, 0580
Oladipupo, Seun 0755
Oladosu, Oladipo 1081
Olaitan, Janet O. 0831
Olaleye, Temitope 0022, 0921, 1348
Olanlokun, Oludele J. 1063
Olano, Lisa R. 1168
Olapeju, Bolanle 0100, 0208, 0270, 0276, 0509, 0719, 1161
Olarinde, Taiwo 1148, 1154
Olaru, Ioana 0774
Olaru, Ioana D. 0903
Olaru, Ioana D 0366
Olatunji, David I. 0352
Olayemi, Abimbola 0211, 0944, 0946, 1133, 1134, 1135, 1148, 1153, 1154
Oldenburg, Catherine 0348
Oldenburg, Catherine E. 0339, 0636
Olekhnovitch, Romain 1276
Olewe, Fredrick 1174
Olewe, Perez 1258
Oliva Babastro, Erick 0094
Oliveira, Fabiano 0907, 0929, 1305, 1358, 1359, 1360, 1362
Oliveira, Fabricio 1313
Oliveira, Gabriela Fernanda G. 0586, 0845
Oliveira, Victoria Spínola Duarte de 1259
Olivera, Mario J. 0455
Oliveras, Elizabeth 0072, 0074
Oliveras García, Carene 1023
Olivo Freites, Christian 0179
Oloo, Joseph O. 1238
Olorunsogo, Olufunso O. 1063
Olotu, Ally 0418, 1171, 1219
Olshan, Andy 1109
Olson, Daniel 0967, 0969, 1344
Olstad, Katherine J. 0145
Oluyomi, Abiodun 0556
Olwoch, Peter 0021
O'Meara, Wendy P. 0408, 1125, 1143
Ome-Kaius, Maria 0679
Omer, Saad B. 0099, 0102, 0809, 0972, 0979
Omera, Elias 0567
Ominde, Kelly 0116, 0564
Ominde, Kelly M. 0551
Omoare, Adesuyi 0022
Omoda, Bob 0025, 0107
Omokhapue, Aderonke 0211
Omoluabi, Elizabeth 0443, 1068
Omore, Richard 0392, 0461
Ondigo, Bartholomew N. 0198, 1060, 1115
Ondo, Lucas 0756, 1182
Ondo, Martin E. 1118
Ondo Mandumbi, Dolores M. 0293
Ondo Nfumu, Teresa Ayingono 1094
Ondoua Nganjou, Gabriella 0964
O'Neal, Lindsey 0393
O'Neal, Lindsey L. 0816
O'Neal, Seth 0764, 0765, 0766, 0767, 0768, 0769
O'Neal, Seth E. 0512, 0763, 0960, 1371, 1372
O'Neal, Seth 0762
O´Neal, S. E. 0771
O'Neill, Aoise 1166
O'Neill, Ben 0571
O'Neill, Rhys 0942
Oneko, Martina 0296, 0417, 0687
Ong, Chui Mei 0530
Ong'echa, John M. 1174
Onge'cha, John Michael 1113
Onikpo, Faustin 0279
Onime, David 0940
Onkanga, Isaac 0402
Onoja, Ali 0757, 1185, 1189, 1190
Onoka, Kelvin 0233
Onokevbagbe, Edewede 1348
Onuoha, Herbert 0072, 0074
Onuoha, Herbert E. 0916
Onwah, Somtochukwu S. 1251
Onwu, Nneka U. 0103
Onwuagana, Ifenna C. 0227
Onwuchekwa, Uma U. 0515
Onyango, Clinton 0251, 0252, 0618, 0910
Onyango, Clinton O. 1258
Onyango, Dickens 0392, 0462, 1324
Onyango, Esther A. 0087, 0088
Onyango, Maria G. 0888
Onyango, Peter 0462
Onyige, Ismael 0406
Oon, Ching-Ying 0530
Oosterhout, Joep J. Van. 0711
Opare, Priscilla Abena Ankamaa 0114, 0115
Operario, Darwin 0097
Operario, Darwin J. 0621
Opigo, Jimmy 0029, 0206, 0241, 0787, 0928, 1091, 1126, 1127, 1141, 1142
Opira, Bishop 1147
Opoka, Robert 0683, 1096, 1101
Opoka, Robert O. 0015, 0019, 0185, 0192, 0444, 1064, 1212
Opoku, Vera S. 1229
Opondo, Charles 0725
Opot, Benjamin 0198
Oppong, Sammy 1145
Orena, Stephen 0196, 0197
Oresanya, Olusola B. 0103
Oristian, James P. 1358
Orji, Bright 0072, 0074
Orkis, Jennifer 0100, 0276, 1161, 1345
Oron, Assaf P. 0492
Orr-Gonzales, Sachy 1167
Orr-Gonzalez, Sachy 1051
Orrillo, Virginia 0489
Ortega, Amaya 0635
Ortega, Victoria 0469
Ortega Eguia, Ilsse A. 0562
Ortega Eguia, Ilsse A. 0124
Ortiz, Marianyoly 1001

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 278 for the list of speakers and session chairs in Plenary and Symposium Sessions.

Ortiz-Baez, Ayda Susana 1368
Orukan, Francis 0213, 0641, 1057, 1066
Osaji, Linda 1345
Osakunor, Derick N. M. 1283, 1284
Osei, Francis A. 0788
Osei, Musah 1160
Osei-Hyiaman, Douglas 1284
Osei-Mensah, Jubin 1229
Osei-Tutu, Lawrence 0417
Osei-Yeboah, Eugene 0788
Oseni, Lolade 0702, 0704, 0705, 0708, 0724, 1073, 1128, 1129
Osinupebi, Funlola 0787
Osorio, E. Y. 0446
Osorio, Georgina 0179
Ospina, Martha L. 0590
Ossai, Sylvia 0053, 1230
Østbye, Truls 0805
Osterrieder, Anne 0508
Osti, Millicent H. 0993
Ostroff, Gary 1241
Otieno, Emmanuel D. 0463
Otieno, Kephas 0296, 0417
Otieno, Walter 0251
Otikwu, Sylvanus 1185, 1190
Otoboh, Stanley E. 0191
Otolorin, Emmanuel Dipo 0070, 0072, 0074, 0916
Otolorin, Gbeminiyi R. 0173
Ott, Isabel 0471
Ott, Sandra H. 0253
Ottilie, Sabine 0221, 0222, 0457, 1061
Ottley, Mary 1218
Ottong, Zheina 0828
Ottosson, Amanda 0955
Ouahes, Tarik 1051, 1058, 1167
Ouattara, Adama 1255, 1262
Ouattara, Allassane 1356, 1357
Ouattara, Amed 0250, 0255, 1112, 1131
Ouattara, Fatou 0010
Ouattara, Mamadou 0636
Ouattara, Maurice 0734
Ouba, Ibrahim 0277
Oubou, Tinah A. 0209
Ouch, Pidor 0147
Ouédragou, Smaïla 0439
Ouedraogo, Alphonse 0734
Ouedraogo, Andre Lin 0699
Ouédraogo, Aristide 0794
Ouédraogo, Henri Gautier 1213
Ouédraogo, Jean-Bosco 0205
Ouedraogo, Jean-Bosco 0418, 1281
Ouedraogo, Moussa 0339
Ouedraogo, Thierry 0704
Ouedraogo, Thierry Damien 0705
Ould Maouloud, Mohamed 0454
Oulton, Tate 0842
Ouma, Collins 0017, 0187, 0251, 0252, 0618, 0671, 0910, 1116, 1258
Oumarou, Alim 0403
Oumbouke, Welbeck A. 0550
Oumo, Peter 0025, 0107
Oung, Pheaktra 1062
Ouppapong, Angkhana 0904
Ourohire, Millogo 0339
Ousmane, Sani 0348
Overby, James 0934
Owen, Branwen 0747
Owen, Branwen N. 0263, 0928
Owen, Leah 0901
Owen, S. Michele 0921
Owusu, Alfred Kwame 0788
Owusu, Justina 1222
Owusu-Asenso, Christopher Mfum 0552
Owusu-Dabo, Ellis 0033, 0788
Oxborough, Richard 0012, 0744
Oxborough, Richard M. 0998
Oyale, Okefu O. 0310
Oyen, David 1170
Oyeniyi, Tolulope A. 0546
Oyeyemi, Oyetunde T. 0394
Oyibo, Wellington A. 1081
Oyola, Samuel O. 0135
Ozawa, Sachiko 0494, 0498
Ozayr, Hassan 1123
Ozayr, Hassan M. 0647
Ozodiegwu, Ifeoma D. 0260, 0261, 0268
Ozodiegwu, Ifeoma D 1105

P

Pa'ahana-Brown, Faith 1289
Pacca, Carolina C. 1044
Pacenka, Clint 0334
Pacheco, Maria A. 0252
Padilla, Norma 0014
Padilla, Norma R. 1004
Padonou, Germain G. 0312, 0319
Padonou, Gil G. 0547
Padrón, Laura 0220, 0222
Padungtod, Chantana 0284, 0839
Páez, Malvina 0164
Paganelli, Christina 0102, 0979
Paganotti, Giacomo 0844
Paganotti, Giacomo M. 0843
Page, Ken 0024
Pagnoni, Franco 1122
Pahl, Michelle 0409
Pahlman, Meike 0603
Pahlmann, Meike 0001
Pain, Arnab 0292
Paine, Mark 1349
Paisie, Taylor K. 0891
Pak, Gi Deok 0033
Pak, John 0469, 0530
Paka, Jessica 0869
Pal, Apoorv 0939
Pal, Sampa 1083
Pala, Zarna Rajeshkumar 1331
Palacios, Jose 1383
Pallawo, Raymond 0424
Pan, Alfred A. 0376
Pan, William K. 0769, 1372
Panchal, Ruchit 0411, 0669
Pande, Veena 0619
Pandya, Dhyanesh 0830, 1207
Panella, Nicholas 1351
Panga wa Banza, Roddy 0068
Panggalo, Lydia V. 1083
Panigrahi, Aswini 1283
Panjwani, Anjlee 0958, 1346
Pan-ngum, Wirichada 0508
Pant, Akansha 1061
Pant, Suman 0905
Pantanilla, Izay 0518
Panthi, Chhabi L. 0905
Pape, Jean W. 0779
Paphavee, Lertsethtakarn 0653
Pappa, Sara 0955
Parameswaran, Nishanth 0101, 0352, 1322
Paras, Ruzzelle Mae 0519
Parcina, Marijo 0045
Pardi, Norbert 0419
Parikh, Jeegan 0091
Parikh, Sunil 0009, 0205, 0213, 0641, 0711, 1057, 1066, 1071, 1083
Parimbelli, Paolo 0182
Paris, Daniel H. 0370
Park, Hyemi 0622
Park, J 1406
Park, SeungHyun 1381
Park, So Lee 0591, 0605
Park, Yoonseong 0118, 0480
Parker, Allan 0157, 0572
Parker, Caleb 0797
Parker, Daniel M. 0464
Parker, Daniel M 1362
Parker, Daniel M. 0907, 1359
Parker, Eva R. 0085
Parker, Rod 0024
Parlberg, Lindsay 0979
Parnaby, Matthew 0869
Parody-Rúa, Elizabeth 0451
Parpia, Tarina 0079
Parr, Jonathan 0007, 0651
Parr, Jonathan B. 0232
Parsons, George 0995
Parthiban, Chaitra 1176
Parveen, Shahana 0078, 0084, 0093, 0465
Parvin, Tahmina 0827, 0863
Parys, Jacob A. 1169
Pasaje, Charisse 0195, 0221
Pasaje, Charisse Flerida A. 0457
Paschalidis, Aris 0675
Pasialo, Beltran 0293
Passaniti, Anna 0208, 0509, 0719
Pasvol, Geoffrey 0444
Patchoke, Salemon 0184
Patel, Alpa 0024
Patel, Chandni 1376
Patel, Hardik 0413
Patel, Jigar J. 1112
Patel, Madhav 0627
Patel, Sanjay S. 0162, 1290
Patel, Trishna 0469
Pathirage, Dulani R. Kalawila. 0537
Pathirana, M. D. 0524
Patil, Asha 0295, 0301
Patil, Vivek 0755
Patson, Noel 0936
Patterson, Catriona 0843
Patterson, Grace E. 0446
Patwary, Farhan 0055
Paudel, Mahesh 0281, 0726, 0727
Paul, Kishor Kumar 0086
Paul, Shrebash 0367
Paulino, Amy 0977
Paulino-Ramirez, Roberto 0977
Paull, Sara 0051
Pauszek, Steve 0480
Pauthner, Matthias G. 0002
Pavia-Ruz, Norma 0575
Pavlinac, Patricia 1301
Payne, Anne 0888
Payne, Michael 0434
Paz-Bailey, Gabriela 0026, 0966, 1023, 1024, 1256, 1389
Pazmino Betancourth, Mauro 0538
Paz-Soldan, Valerie 0540
Paz-Soldan, Valerie A. 1350
Pazzagli, Lucia 0922
Pecor, David 0117, 0119, 0541, 0563
Pecor, David B. 0110, 0122, 0532, 0533, 0534, 0536
Pedro, Cani 1184
Pedrosa, Igor 0558
Peirce, Matthew 0922
Peka, Mallaye 1248
Pele, Ula 0355
Peluso, Michael 0530
Penarete-Vargas, Diana 1403
Pence, Brian 1099
Pence, Brian W. 0650
Peng, Hang 1290
Penley, Benjamin 0494
Pennell, Sheila 0183
Penny, Melissa 0200, 0740
Penny, Melissa A. 0493, 0729
Peprah, Nana 1145
The PERCH Study Group 1387
Pereira, Dhelio 0684
Pereira, Leonardo S. 0586, 0845, 1361
Pereira-Lentino, Ramiro 1047
Perera, David 1368
Perera, Dilhan J. 0400, 1287
Perera, Shiromi 0006
Peresin, Maria S. 1186
Perez, Claudia M. 0330
Perez, Mihail 1054
Perez-Guzman, Erick 0593
Perez-Padilla, Janice 1023, 1389
Pérez-Rodríguez, Nicole M. 0966, 1256
Periago, Maria V. 0057
Perin, Jamie 0824, 0827, 0863
Perkins, Douglas J. 0017, 0187, 0251, 0252, 0608, 0618, 0671, 0910, 1116, 1258, 1347, 1384, 1385
Perkins, Jessica M. 0836
Perkins, Mark 0424
Perkins, T. Alex 0577
Perosky, Joseph E. 0467
Perou, Sidiki 0421, 1255, 1262
Perry, Joseph 1406
Perry, Josiah B. 0866
Pesapane, Risa 0982
Pescarini, Julia 0815
Petchampai, Natthida 0123
Peterka, Cassio 0840
Peters, Jenny 0857
Peters, Lynn 0758, 1373
Petersen, Jens E. V. 0190
Petersen, Jens E. V.. 0659
Peterson, Eliza 0692
Petrone, Mary 0471
Petrovsky, Nikolai 0485
Pettifor, Audrey 1277
Pfaff, Jen M. 1030
Pfaffen, Stephanie 1166
Pfarr, Kenneth 0876
Pfeffer, Daniel 1083
Pfister, Hélene B. 1296
Pham, Khanh 1282
Phan, Thanh T. N. 1293
Pharand, Scott G. A. 0386
Phasomkusolsil, Siriporn 0560
Phelan, Kevin P. Q. 0492
Phelan, Sophie L. 0993
Phetsouvanh, Ratanaxay 0732
Phetsouvanh, Rattanaxay 0244
Phillips, Abimbola 0103
Phillips, Anna 0797
Phillips, Rob 1404
Phimmakong, Toula 0244
Phimolnsarnnousith, Vilayouth 0781
Phimolsarnnousith, Vilayouth 0774
Phiri, Chimwemwe 0077
Phiri, Comfort R. 1264, 1265
Phiri, Dickson 0737
Phiri, Kamija 0635
Phiri, Kamija S. 0239
Phiri, Wonder P. 0293, 0300, 0631, 0879, 0947, 1008, 1118, 1182, 1215
Phok, Sochea 0281, 0726, 0727, 0881
Pholcharee, Tossapol 1170
Phommasone, Koukeo 0808
Phong, Tran V. 0120
Phontham, Kittijarankon 1062
Phru, Ching S. 0237
Phuc, Pham D. 1364
Phutthasophit, Kanyarat 0610
Piamba, Anderson 0751
Piantadosi, Anne 0871
Piantadosi, Anne L. 1304
Picado, Albert 1248
Picardeau, Mathieu 1369
Pichugin, Alexander 0668
Pickering, Amy J. 0897
Pickering, Lucy 0835
Pickkers, Peter 0639
Pidtana, Kingkan 0653
Piedrahita, Stefani 0121, 1188
Pierce, Laura 1020
Pike, Andrew 1330
Pikula, Jiri 0180

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 278 for the list of speakers and session chairs in Plenary and Symposium Sessions.

Pilbeam, Caitlin 0965
Pillay, Pavitra 0050, 0402
Pilotte, Nils 0398, 0874, 0875, 0877
Pimanpanarak, MuPawJay 0464
Pinda, Polius G. 0305
Pindolia, Deepa 0787
Pineda, Vanessa 0807
Pinedo Cancino, Viviana 1378
Pinto, Priscila 0815
Pinyajeerapat, Niparueradee 0284, 0285, 0839
Pion, Sébastien 0545
Pisco, Joao 0221
Pisutsan, Phimpan 0653
Pitt, Catherine 0008, 0841
Pitti, Yaneth 1252
Pitti, Yanneth 0807
Piyasiri, D. L. B. 0517
Piyasiri, H.S.B. 0456
Pizzitutti, Francesco 0769, 1372
Planas, Delphine 0180
Plasencia-Dueñas, Rubi 0616
Platts-Mills, James 0079, 1299
Platts-Mills, James A. 0035, 0331, 0332, 1300, 1301, 1302
Plazaola, Miguel 0474
Pleguezuelos, Olga 0929, 1360
Ploquin, Aurelie 0002
Plowe, Christopher V. 0250, 0681
Pluchino, Kristen 0934
Plucinski, Mateusz 0880
Plunkett, Elizabeth 0036, 0918
Poda, Samuel 0010
Podbilewicz, Benjamin 0460
Pohl, Jan 0053, 1230
Poinsignon, Anne 0113
Poku-Awuku, Abena 0209, 0280, 0718, 0733, 1145
Polidoro, Rafael 1407
Pollet, Jeroen 1337
Pollett, Simon 0150, 0151, 0563, 1289
Pomat, William 0358, 0431, 0567
Ponatshego, Ponego 0901
Ponce, Aiyana 0907
Ponce, Jorge A. 0338
Ponce de Leon, Gabriel 1012
Pond-tor, Sunthorn 1174
Pons-Duran, Clara 0439, 0733
Pontier, Dominique 0180
Pooda, Sié H. 0750
Pooda, Sié Hermann 0307
Poomchaichote, Tassawan 0508
Poovey, Brianna 0291, 0353
Popovici, Jean 0881
Porco, Travis C. 0348
Porier, Danielle L. 0892
Porras, Gemma 0654
Pors, Ponnary 0894
Porter, Michael K. 0975
Porter, Travis 0441, 1158
Portillo, Jessica 0503
Post, Rory 0359
Pothin, Emilie 0230, 0259, 0263, 0265, 0266, 0709, 0740, 0747, 0928
Potter, Alexander 0110, 0117, 0119, 0122, 0532, 0533, 0534, 0536, 0541, 0563
Poulton, Beth C. 1396
Poulton, Ian 1164
Poveda, Cristina 1337
Powell, Jeffrey R. 1397
Powell, Suzanne 1390
Powell, Tim 0573
Powers, John M. 0846
Powers, Kimberly A. 1109
Poyer, Stephen 0281, 0726, 0727
Pozo Correa, Segundo C. 1257
Prabhu - Malawi SmartNet Initiative, Manoj 0311, 0730
Prada, Joaquin 0833
Prado, Nelissa 0828
Prahl, Mary 0021
Prajapati, Surendra K. 0020
Prakash, Sadhana 0399, 0399
Prakash Babu, Senbagavalli 0817
Pramudo, Setyo G. 1031
Prassana, Samuel 0972
Pratley, Pierre 0287
Pratt, Catherine 0002, 0003, 0526
Pratt, Catherine B. 0514
Pratt, Kathleen 0468
Praulins, Giorgio 1349
Pray, I. W. 0771
Pray, Ian W. 0769
Premawansa, Gayani 1022
Premawansa, Sunil 1022
Premkumar, Lakshmanane 1040
Prescott, Marta 0064
Presence, Amani Sanvura 0824
Preston, Adam 0154
Preston, Adam M. 0061
Price, Amy 0024, 0371
Price, Ric 0629
Price, Ric N. 0237, 1083
Prieto, Juan 0920
Prieto, Karla 0152
Prigollini, Alejandro 0179
Prisca Guterres, Josefina D. 1237
Prithviraj, Ranjini 0849, 0850
Priyanthi, D. 0517
Prochaska, John 0802
Proctor, Joshua L. 0254, 0690, 0691, 0696, 0926
Prosperi, Christine 1387
Protopopoff, Dr. Natacha 0309
Protopopoff, Natacha 0008, 0225, 0318, 0547
Prudhomme-O'Meara, Wendy 0650, 0657
Prudhomme-O'Meara1, Wendy 0659
Psychas, Paul 1177
Pu, Ruiyu 0139
Puerta-Guardo, Henry 0575
Puerto Manzano, Fernando 1225
Pujol, Arnau 0405
Punekar, Avinash 0221
Puntasecca, Christopher J. 0144
Pupaibool, Jakrapun 0328
Puri, Ankit 0821
Purushothaman, Jambulingam 0354
Puspitasari, Agatha M. 0886
Putnak, Robert J. 1291
Pyakurel, Poojan 0295
Pybus, Brandon 0216, 0217, 0644

Q

Qadri, Firdausi 1296, 1302
Qamar, Farah N. 0099, 0102, 0979, 1297
Qamar, Farah Naz 0342
Qazi, Sadeq-ur Rahman 0950
Qin, Junling 0852
Qu, Zhuolin 0698
Quao, Christine 0956
Quarshie, Neils 1093
Querat, Gilles 1291
Quere, Michel 1144
Quevedo Cruz, Luz 1257
Quijada, Mario 1054, 1252
Quintino, Nayara D. 1382
Quintó, Llorenç 0405, 0654
Quipungo, Luzia 0182
Quique, Bassat 0858
Qureshi, Hanya 0809
Qureshi, Sonia 0342, 1297
Qvarnstrom, Yvonne 1375

R

R., Ny Ako 0712
Raballah, Evans 0017, 0187, 0251, 0252, 0618, 0671, 0910, 1116, 1384
Rabearimanana, Stéphane M. 0628
Rabeherisoa, Saraha 0288, 0706
Rabesahala, Sabas 0288, 0706
Rabibizaka, Urbain 0288, 0706
Raboisson, Pierre 1291
Rach, David T. 0369
Rachmat, Agus 0147, 0156
Radhakrishnan, Arun 0018
Rafael, João Lino 0736
Rafferty, Hannah 0364
Rafiu, Mojeed 0603
Rahal, Paula 1041
Rahantanirina, Louisette 0713
Raharison, Serge 0713
Rahelinirina, Soanandrasana 1366
Rahman, Adeeb H. 1314
Rahman, Afruna 0461, 0462, 0516, 0609, 1324
Rahman, Ahmed Ehsanur 0950
Rahman, Azrin 0857
Rahman, Bayzidur 0073
Rahman, Jebun Nessa 0529
Rahman, M Ziaur 0344, 0987, 1298
Rahman, Mahbubur 0023, 0325, 0825, 0829, 0859, 0895, 0896, 0897, 0898
Rahman, Mahfuj-ur 0895
Rahman, Mahmudur 0344, 0987, 1298
Rahman, Md Ziaur 0859
Rahman, Md. Ziaur 0829, 0896
Rahman, Mohammed Z. 0811
Rahman, Mohammed Ziaur 0023, 0829, 0859
Rahman, Mustafizur 0516, 0609, 0811
Rahman, Najeeb 0832
Rahman, Obaidur 0518
Rahman, Qazi S. 0465, 0515
Rahman, Qazi Sadeq-ur 0084
Rahman, S A M S. 0520
Rahman, Sabahat 0777
Rahman, Zillur 0827
Rai, Urvashi 0302, 1121
Rajabali, Afzaa 0042, 0358, 0431
Rajahram, Giri S. 0624
Rajerison, Minoarisoa 1366
Raji - Malawi SmartNet Initiative, Joseph 0311, 0730
Rajkumari, Nonika 1388
Rakers, Lindsay 0432, 0433
Rakoto, Fanomezantsoa 0170
Rakoto, Olivat 0170
Rakotoarimanana, Feno 0713
Rakotoarivelo, Rivo 0170
Rakotomanga, Tovonahary A. 0628
Rakotondrandriana, Antsa 0170
Rakotosaona, Rianasoambolanoro 0170
Rakotovao, Jean Pierre 0915
Rakotovao, Luc 0170
Rakotozandrindrainy, Raphaël 0033
Ralijaona, Lova A. 0706
Ralisata, Sandy 0288
Ralisata, Sandy M. 0628
Ramadhani, Kamaka 1215
Ramal, Cesar 1378
Ramallah, Evans 1258
Raman, Jaishree 0844
Ramanantsoa, Riana 0713
Ramanathan, Roshan 0849, 0850
Ramanitrasimbola, David 0170
Rambaut, Andrew 0002
Rambhatla, Janavi 0911
Ramelow, Julian 0126
Ramesar, Jai 0193, 0292
Ramharter, Michael 0001, 0439
Ramiandrison, Eliane R. 0915
Ramiranirina, Brune 0288, 0706
Ramirez, Juan D. 0455
Ramírez, Roberson 0235
Ramjith, Jordache 0639
Ramos Lopez, Fernando 0418
Ramos-Lopez, Fernando 1164
Ramos Maguiña, Eric S. 1257
Ranaweera, Prasad 0720
Ranaweera, Sampath 0351
Randriamanantany, Zely 0170
Randriamanantsoa, Mamy Gabriel 1366
Randrianarivelojosia, Milijaona 0410
Raney, Wilson R. 0866
Rangaka, Molebogeng 1348
Rangel, Jesus 0530
Rani, Komal 1055
Ranson, Hilary 0303, 1354
Rao, Gouthami 0834
Rao, Mangala 1175
Rao, Sangeeta 0009
Raobela, Oméga 0628
Rapelanoro, Rabenja 0170
Rapp, Tyler J. 1098
Raseebut, Chatree 0653
Rashid, Md. Mamunur 0950
Rasmussen, Justin D. 0836
Rasmussen, Stephanie A. 0196
Raso, Jose 0293
Rassi, Christian 0290, 1059, 1142, 1275
Rassi Jr., Anis 1247
Ratanya, Scholastica 1000
Rath, Sushryia 0806
Rathakrishnan, Ayyappan 0295, 0301
Rathnayake, Dilini 0679
Ratovondrainy, Willy 0170
Ratsimbasoa, Arsene 0410
Ratsimbasoa, Arsene C. 0170
Ratsimbasoa, Arsène C. 0628
Ratsimbasoa, Arsene C. 0712
Rauf, Yasir 0099
Rausch, Kelly 0421
Rausch, Kelly M. 1175
Rauscher, Martina 1290
Ravelomanana, Noro 0007
Ravelonarivo, Solotiana 0712
Ravenhurst, Johanna 0183
Ravetch, Jeffrey 1318
Ravisankar, Purnima 1330
Rawago, Fredrick 0402
Rawstorne, Patrick 0073
Rayaissé, Jean-Baptiste 0750
Raychaudhuri, Syamal 0983, 1033
Rayner, Julian C. 0925
Raytselis, Nadia 1391
Raza, Mehreen 0067
Razafiarijaona, Andritahina 0915
Razafimahatratra, Mamy 0712
Razafimandimby, Dominique 0170
Razafindrakoto, Jocelyn 0628, 0713
Razafinjato, Celestin 0288, 0706, 0713
Razakamiadana, Solofo 0713
Razanakotomalala, Voahangy 0713
Reader, J. Rachel 0145
Reader, Susan 0024

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 278 for the list of speakers and session chairs in Plenary and Symposium Sessions.

Reaves, Erik 0232, 0308, 0315, 0320, 0565, 0658, 1090
Rebecca Johnson, Rebecca 0148
Rebellón-Sánchez, David E. 0451
Redekar, Neelam 1312
Redinger, Karli 1082
Redmond, Seth N. 1397
Redwood-Sawyer, Victoria 0796
Reed, Matthew S. 0053, 1230
Rees, Claire P. 0444
Reeves, eric 0219
Refeld, Randi R. 0665
Regan, David G. 0086
Regasini, Luis O. 1044
Reichard, Gregory 0220
Reichwald, Julia J. 0484
Reid, Steven D. 0037, 0040, 0356, 0436, 0795, 0796, 0797, 0798
Reif, Rebecca 1165
Reifler, Katherine 0345
Reifler, Katherine A. 0778
Reijnders, Maarten J. M. F. 1395
Reimer, Brenna 1376
Reimer, Jenny 0418, 1164
Reiner, Robert C. 1350
Reiner Jr, Robert C. 1091
Reingold, Arthur 0826
Reis, Andreia F. N. 1315
Reis, Mitermayer G. 1274
Reiter, Karine 1168
Reithinger, Richard 0308, 0320, 0565, 0658, 0663, 0741, 1239
Rek, John 0048, 0049, 0406, 0908, 1070, 1091, 1095, 1166
Rekol, Huy 0281, 0409, 0726, 0727
Remmel, Ryan 0521
Remoue, Franck 0113
Renn, Silvia 0064
Rerolle, Francois 0244, 0648, 0732, 1156
Reyburn, Hugh 0444
Reyes, Ann 0246, 0412, 0667, 0674, 0924, 1067, 1069
Reyes, Dindo 0983
Reyes, Jessica A. 0975
Reyes, Raquel 0275
Reyes, Yaoska 0176, 0818, 0860, 0861, 0893, 1039, 1040
Reynolds, Joanna 0077
Reynolds, Kevin 0216, 0644
Reynolds, Laura 1120
Reynolds, Rebekah 1050
Reynolds,, Marie 0424
Rezende, Izabela M. 0586, 0845, 1361
Rhee, Daniel 0096
Rhee, Kyu Y. 1399
Rhodes, Jayce 0056
Riarte, Adelina R. 0455
Ribado, Jessica 0690, 0691
Ribado, Jessica V. 0254, 0696, 0926
Ribaira, Yvette 0713
Ribeiro, Ana F. 1259
Riberio, Antonio L. 1382
Ricaldi Camahuali, Jessica N. 0590
Ricciardi, Alessandra 1312
Ricciardi, Michael J. 1316
Rich, Shannan 0175
Richards, Adam 0429
Richards, Frank 0359
Richards, Frank O. 0432, 0433
Richards, Kacey 0213, 0641
Richardson, Alec 0119, 0541, 0563
Richardson, Alec G. 0110, 0122, 0533, 0534, 0536
Richardson, Alice 1038
Richardson, Jason 0849, 0850
Richardson, Sol 0290, 1059, 1142, 1275
Richie, Thomas 0293, 0300, 1215
Richie, Thomas L. 0296, 0299, 0422, 0447, 0687, 1118
Richt, Juergen A. 0005
Rico, Angelica 0590
Ridde, Valéry 1020
Riediger, Irina 1292
Rietveld, Hans 0202
Riley, Christina 1152, 1184
Riley, Eleanor M. 0444
Riley, Steven 0972
Riloha, Matilda 1118
Riloha Rivas, Matilde 0293
Rimfa, Amos 0800
Rimkunas, Rebecca 0153
Rimoin, Anne W. 0002
Rimoy Veri, Yolanda 0293
Rindfleisch, Tim 0160
Riolexus, Alex A. 0090
Risch, Frederic 0484
Riscoe, Michael 0217
Riswari, Silvita F. 1031
Ritter, Manuel 1229, 1311
Ritz, Nicole 1100
Rivas, Nestor B. 1008
Riveau, Gilles 0919, 1267
Rivera, Hilda N. 0053
Rivera-Amill, Vanessa 0026, 0846, 0966, 1023, 1024, 1032, 1256, 1389
Rivera-Barreno, Ramón 0177
Rivero Moron, Aurora M. 1257
Rivero Otamendi, Emiliano 1221
Riyal, Hasna 0382
Roald, Borghild B. 0395
Robb, Merlin L. 0887
Robberstad, Bjarne 0239
Roberge, Christophe 0307, 0750
Roberts, Chrissy H. 0500, 0781, 0902, 1210
Roberts, James M. 1176
Roberts, Nicholas L. S. 0779
Roberts, Rachel 0418
Robertson, Erica J. 0485
Robertson, Molly 0010, 0757, 1136, 1155, 1185, 1187, 1189, 1190, 1191, 1192, 1193, 1194
Robie, Emily R. 1364
Robinson, Karina M. 1242
Robinson, Keri 0355, 0488
Robinson, Leanne 0434, 0652
Roca-Feltrer, Arantxa 0290, 1059, 1275, 1278
Rocheleau, Anne 0063, 0624
Rochford, Rosemary 0220
Rock, Kat S. 0450, 0452, 1248
Rodari, Paola 1239
Rodrigo, W. W. Shanaka I. 1037
Rodrigues, Maria 1275, 1278
Rodriguez, Dania 0026
Rodríguez, Dania 0966
Rodriguez, Dania M. 1024
Rodríguez, Dania M. 1256
Rodriguez, Esdras 1202
Rodriguez, Felipe 1249
Rodriguez, Helena 0590
Rodriguez, Isabella 0743
Rodriguez, Joseline 0812
Rodriguez, Luiz L. 0480
Rodriguez, Rachel M. 0846, 1032
Rodriguez, Sebastian 0694
Rodriguez, Stanley 1383
Rodríguez-Alarcón, Carlos A. 0177, 0535
Rodriguez-Barranquer, Isabel 0530
Rodriguez-Barraquer, Isabel 0163, 1091
Rodriguez Castro, Geilys 0094
Rodríguez-Estrada, Vanessa 1256
Rodriguez Lado, David 0094
Rodríguez-Martín, Ester 1304
Rodriguez-Morales, Alfonso J. 0595
Rodriguez-Rodriguez, Bruno A. 0146
Roestenberg, Meta 0292, 0856, 1288
Roethele, Joseph B. 0137, 0555
Rofi Uddin, Mohammad 0898
Rogawski McQuade, Elizabeth 0079, 1299
Rogawski McQuade, Elizabeth T. 0331, 0332, 0899, 1300
Rogena, Emily 0392, 0462
Rogers, Jennifer 0071
Rogers, Thomas 1170
Rogers, Wesley 1377
Rogerson, Stephen 0635, 0911
Rogerson, Stephen J. 0679, 1119
Rogier, Eric 0101, 0236, 0410, 0623, 0626, 0880, 1348
Roh, Michelle E. 0210, 1070
Rohan, Hana 0978
Rohmah, Etik Ainun 0585
Rojas, Alejandra 0164
Rojas, Andrey 0594
Rojas, Federico 0375
Rojas, Juan P. 0335
Rojas-Gätjens, Diego 0479
Rojas-Jimenez, Keilor 0479
Rojop, Neudy 1344
Rolfes, Melissa 0026
Rolfes, Melissa A. 1256
Romagosa, Christina 0986
Roman, Elaine 0070, 0072, 0074, 0916
Roman, Francois 0417
Romani, Lucia 0869, 0993
Romano, Anna 0975
Romer, Yamila 0871
Romero, Diana 0126
Romero, Yomara 1261
Romero-Vega, Luis M. 0172
Ronca, Shannon E. 0333
Ronga, Charles 0095, 0140, 0580
Rono, Abraham 1214
Rono, Martin 0116
Roobsoong, Wanlapa 0220
Roos, David 0245
Roos, David S. 0060
Roper, Katrina 1038
Roques, Magali 0193
Rosanas-Urgell, Anna 0633, 0838
Rosas-Aguirre, Angel 0838
Rosebella, Kiplagat 1073
Rosenke, Rebecca 0867
Rosenthal, Melissa 0853
Rosenthal, Philip J. 0196, 0197, 1064, 1065, 1147
Ross, Amanda 0230, 0314, 0709
Ross, Connor 0544
Ross, Connor H. 0522
Rosser, Joelle 1307
Rossi, Irene 0476
Rossow, John 0282
Roth, Alison 0216, 0217, 0644
Roth, Amanda 0198, 1060
Rothenberg, Sarah E. 0960
Rothman, Alan 1295
Rothman, Alan L. 0904, 1320
Rothman, Jessica 0471
Rotstein, David S. 1048
Rouamba, Toussaint 0418
Routledge, Isobel 0530
Routray, Dr. Satyabrata 0851
Rouzier, Vanessa 0779
Rowan, Andrea 0282
Rowe, Alex J. 0191
Rowland, Dr. Mark 0309
Rowland, Mark 0008, 0225, 0318, 0753
Rowlands, Katharine R. 0463
Royalty Tredo, Sarah 0849
Rozo-Lopez, Paula 0480
The RTS,S study group 0417
Ruangkajorn, Supanat 0508
Rubach, Matthew P. 0701, 0785, 1254
Rubahika, Denis 1142
Rubangi, Rubangi 0932
Rubenstein, Beth L. 0272
Ruberanziza, Eugene 1266
Rubio Tabares, Ezequiel 0177
Rubio-Tabarez, Ezequiel 0535
Rucogoza, Aniceth 1079
Rufai, Muhammed 0793
Ruiz, Christian T. 1040
Ruiz, Estíbaliz 0218
Ruiz, Lastenia 1378
Ruiz-Cabrejos, Jorge 1005
Rulaganyang, Ikanyeng 0901
Rund, Samuel 0245
Runge, Manuela 0268
Rungsimanphaiboon, Kamchai 0904
Rus, Florentina 1241
Ruscica, Alice 0071
Russel, Brandy 0617
Russell, Jonathan 0690, 0696, 0926
Russell, Jonathan R. 0254, 0691
Russo, Paul 1378
Rutagwabeyi, Alex M. 0036
Rutagwera, Marie-Reine 0693, 1158
Rutagwera, Marie-Reine I. 0441
Rutaihwa, Liliana K. 0634
Rutazaana, Damian 1126
Ruth, Madeline R. 0457
Rutherford, George 0151
Rutherford, Shannon 0088
Ruttens, Bart 1296
Rutty Phiri, Comfort 0055, 0364
Rutvisuttinunt, Wiriya 0163, 1291
Ruzindana, Emmanuel 1079
Ruzzante, Livio 1395
Ryabinina Debrah, Oksana 0138
Ryan, Edward T. 1296
Ryan, Nathan M. 0485
Ryazansky, Sergei S. 1393
Ryff, Kyle 0026, 1256
Ryu, WonHyoung 1381

S

Sa, Juliana 0414
Saadani, Ahmed 0279
Saavedra, Herbert 0767
Sabeti, Pardis 0603
Sabiiti, Wilber 0427, 0428
Sabin, Lora 0817
Sabino, Ester C. 1028, 1382
Saborio, Saira 0474
Sacchetto, Lívia 1028
Sack, David A. 0827
Sacko, Adama 0645, 0842
Sacoor, Chafurdin 0515
Sacoor, Charfudin 0972
Sadaf, Tahira 1297
Saddler, Adam 0314
Sadiku, Arlinda 0959
Sadiq, Kamran 0347, 0832
Sadoine, Margaux 1086
Saelens, Joseph W. 0190
Sáenz, Fabián E. 0883, 0925
Saenz, Lisseth 0807
Safii, Razitasham 0167

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 278 for the list of speakers and session chairs in Plenary and Symposium Sessions.

Sagara, Issaka 0299, 0421, 0645, 0665, 0725, 0906, 1179, 1255, 1262, 1281
Sagina, Jael 0144
Sagliba, Marianne J. 0507
Sagnon, Aladari 1155
Sagnon, N'Fale 0010, 1136, 1155, 1191, 1192
Sagnon, Nfale 1354
Sahin, Oz 0088
Sahni, Jaya 0024
Sahukhan, Aalisha 0869
Saibu, Andrew 1193
Saida Sebatunzi, Pauline 0240
Saikumar Lakshmi, Priya 0607
Sai-ngam, Piyaporn 0653
Saingam, Piyaporn 1062
Saint Juste, Emmanuel 0424
Sainz, Paula 0218
Sainz de la Peña, Diego 1023, 1389
Saito, Mayuko 1261
Sakam, Sitti Saimah B. 0624
Sakanari, Judy 1231, 1233
Sakita, Francis M. 0785
Saksena, Rina 1296
Sakuntabhai, Anavaj 1318
Sakur, Muker 0567
Salako, Babatunde 1190, 1194
Salandini, David 0664, 1142
Salanti, Ali 0448
Salazar, Alejandra 0778
Salazar, Eider 0218
Salazar, Ma. Isabel 0174
Salazar, Marisa M. 0878
Saldana, Azael 0807
Saleem, Sarah 1109
Saleh Diar, Mahamat 0209
Saleheen, Abu Mohammad 0084
Salemi, Marco 0891
Salfati, Elias 0002
Salgame, Padmini 0817, 1388
Salim uzzaman, M 0811
Salje, Henrik 0163, 0584, 1029, 1317, 1320
Sall, Amadou 0002
Sallau, Adamu 0041, 0433
Salles, Flávia 1028
Sam, Abdoulaye 0799
Sam, M. Moustapha 1267
Sama, Antonio Enrique N. 1215
Sama Cherif, Mahamoud 0676
Samaniego, Rigoberto 0373
Samara, Omar 1247
Samaranayake, Nilakshi 0382, 1250
Samaranayake, T.N. 0456
Samaras, Demetrios L. 1293
Samarawickrama, Gangi R. 0478
Samassekou, Mahamoudou 0422
Samayoa Reyes, Gabriela 0220
Sambo, Yohana 0432
Samdi, Lazarus M. 0310
Samia, Jaline 0694
Sammak, Rebecca 0145
Samol, Channa 0894
Samson, Mark 0800
Samuel, Awala 0921
Samuels, Aaron 0233, 0410, 0417, 0710
Samuels, Aaron M. 0239
Samura, Solomon 0461
Sam-Wobo, Sammy O. 0793
Sana-Paka, Emilia 0002
Sanchez, Estefani 0977
Sanchez, Katherine A. 0798
Sanchez, Mauro 0815
Sanchez, Nery 0474
Sánchez, Rebeca 0218
Sanchez-Gonzalez, Liliana 0026
Sánchez-González, Liliana 0966, 1024, 1256
Sanders, Angelia M. 1211
Sanders, Helen 1164
Sanders, John W. 1236
Sanders, Terrel 0152, 0531, 1204, 1205
Sandhu, Sukhmeet 0345
Sandiford, Simone 1330
Sandy, Charles 0388, 0502
Sandy Frank, Kwamou Ngaha 0267
Sang, Edna 0657
Sang, Huldah 0402
Sang, Rosemary 0135
Sang, Tony 0417
Sangalang, Stephanie O. 0828
Sangaré, Birama 0784
Sangare, Lansana 0012, 0744
Sangare, Lansana B. 0194
Sangaré, Modibo 0784
Sangaré, Moussa 0784
Sangare, Moussa 0790, 1270
Sankare, Seydou 0299
Sanku, Gayatri 1312
Sanna, Alice 0738, 0840
Sanogo, Daouda 1072, 1106
Sanogo, Koualy 0842, 1281
Sanogo, Ouassa 0037, 0040
Sanogo, Sintry 0299, 1255
Sanogo, Vincent 0209, 0718, 1139
Sanogo, Yacouba 0790, 1270
Sanogo, Yibayiri O. 0526
Sanogo, Yibayiri Osee 0424
Sanou, Antoine 1192, 1194, 1354
Sanou, Jean Marie 0012, 0744
Sanou, Roger 0746
Santacoloma, Liliana 0751
Santivanez, Saul 0760
Santivañez Salazar, Saul 0761
Santos, Andresa L. 1315
Santos, Brianda 1033
Santos, Brigida 1200
Saout, Mona 1369
Sapp, Sarah G. H. 1374
Sarah-Blythe, Ballard 1073
Saran, Indrani 1125
Sarangam, Maithri L. 0015
Saravia, Nancy G. 0451
Sarfo-Mensah, Shirley 0386
Sargsian, Shushan 0044
Sarkar, Sonali 0817
Sarkar, Tonmoy 0078, 0093
Sarker, Supriya 0829
Sarkodie, James 0702
Sarmin, Monira 0974
Sarnik, Sylvia 0470
Sarpong, Francisca N. 0001
Sarpong, Phans Oduro 0788
Sarr, Bassirou 0799
Sarrassat, Sophie 0407
Sata, Eshetu 1321
Sath, Rathanak 0907, 1359
Satharath, Prom 1062
Sather, Noah D. 1114
Sathyan, Varun 0470
Satinsky, Emily N. 0836
Satoskar, Abhay 0445, 1335
Sattabongkot, Jetsumon 0220
Sattelle, David B. 1396
Sauerwein, Robert 1166
Sauerwein, Robert W. 0639
Saunders, Danielle R. D.. 0588
Saunders, Danielle R. S. 0587
Saunders, Matthew J 1257
Saunders, Megan 0806
Saúte, Francisco 0405
Saute, Francisco 0844, 1275
Sava, Solomon 0461
Savaio, Binete 0757, 1189
Savela, Emily S. 0975
Saveria, Tracy 1176
Savic, Rada 1147
Savi de Tove, Sissinto Y. 1097
Sawabe, Kyoko 0585
Sawadogo, Benoit 0290, 1059
Sawadogo, Youssouf 0704, 0705
Saye, Rénion 0628
Saye, Renion 0632, 1076, 1139
Sayeed, Abeer 0412, 0667, 0674, 1067
Saykin, Andrew J. 0192
Sayre, Dean 0881
Sayyab, Shumaila 1261
Scaraffia, Patricia Y. 0123
Scaria, Puthupparampil 0421
Scarpassa, Vera M. 0558
Scavuzzo, Carlos M. 0057
Scavuzzo, Juan M. 0057
Schaffner, Stephen F. 0254, 0926
Scharf, Rebecca 0079
Scharfe, Curt 0471
Schaub, Roxane 1369
Schaughency, Paul 0043
Schermerhorn, Jordan 1367
Scheunemann, Johanna F. 0484
Scheveck, Bridget 0091
Schieffelin, John 1220
Schierhout, Gill 0782
Schiller, Amy 0826
Schindler, Tobias 0293, 0631, 0672, 0879, 1118
Schinzel, Alexandra 0307
Schlabe, Stefan 0876
Schlenker, Noah W. 0975
Schmid, Matthias 1234
Schmidberger, Julian 1373
Schmidt, Elena 1232
Schmidt, Nathan W. 1407
Schneider, Cosette 0419
Schneider, Cosette G. 1162
Schneider, Kammerle 1276
Schneider, Kristan 0187, 0671, 1017, 1116, 1258, 1347, 1384, 1385
Schneider, Kristan A. 0251, 0252, 0568, 0604, 0910, 0948, 0959
Schneider, Kristan A. 0267
Schneider, Kristan Alexander 0258, 0697, 0937
Schneider, Martina 0143, 0848
Schneiders, Mira L. 0508
Schnoz, Annina 0634
Schofield, Louis 0652
Scholte, Florine E. M. 0024
Schue, Jessica L. 1180
Schuerman, Lode 0417
Schuh, Amy J. 0921
Schully, Kevin 1208
Schulman, Steph W. 0060
Schultz, Jonathan 1245
Schultz, Samantha 0877
Schumak, Beatrix 0484
Schurer, Janna M. 0783
Schuster, Tibor 0993
Schutte, Carl 0259
Schwab, Jonathan 0980
Schwabl, Philipp 0411, 0669
Schwartz, Eli 0034
Schwartz, Olivier 0180
Schwarz, Tatjana 0614
Schwedhelm, Katharine V. 0914
Scietti, Luigi 1334
Scolari, Francesca 0476
Scorza, Andrea 0967, 0969
Scott, Anthony 0461
Scott, Dana P. 0867
Scott, J. Anthony G. 0462, 0515
Scott, J. Anthony G. 1324
Scott, Phillip 0046
Scott, Susana 0209, 0718, 1145
Scott, Thomas W. 1350
Sea, Darapiseth 1062
Sean, Lynch 0857
Searle, Kelly M. 0661, 0666, 1103
Sears, William 1375
Seatla, Kaelo 0901
Seaton, Brent 0573
Sebastian, Savy M. 0250
Sebastião, Cruz 0182
Sebikaari, Gloria 0241
Sebitloane, Motshedisi H. 0395
Sebuguzi, Catherine M. 0210
Secor, Andrew M. 0065
Secor, W. E. 1263
Secor, William E. 0053, 1230
Seda, Brian 0233, 0710
Sedano, Cesar 0760
Seder, Robert 0296
Seder, Robert A. 0687
Segbefia, Catherine 0063
Segovia-Chumbez, Bruno 1026
Segura-Carro, Delfina 0222
Seidel, Donovan 0341
Seidenberg, Philip D. 0251, 0252
Seidenberg, Phillip 1258, 1347, 1384, 1385
Seife, Fikre 0359, 0482, 0776, 0791, 1321
Seigelfischer, Débora 0383
Seijas Chávez, Julio A. 1088
Seiler, Jessie 0495
Seilie, Annette M. 1176
Sekihara, Makoto 0358, 0431, 0434
Sekul, Renate 0614
Selby, Richard 0452
Selvaraj, Prashanth 0688, 0723, 0734
Selverian, Christopher N. 0472
Semage, Saveen 0720
Sembatya, Moses 0970
Sen, Debashis 0897
Sen, Swapnoleena 0493
Senanayaka, S.A.S.C. 0481
Senanayake, Sanath 1250
Senarath, Lalitha 0351
Sendor, Rachel 0232, 0651
Sene, Doudou 0254, 0926
Senerath, Upul 1250
Senevirathne, Indika 1206
Senghor, Gabriel Massene 0799
Senghor, Simon 1267
Senkoro, Elizabeth 0370
Senyatso, Refilwe 0843
Serafim, Tiago D. 1358
Serbantez, Naomi 0232, 0308, 0315, 0320, 0565, 0658, 0663
Serlemitsos, Elizabeth 0501
Sermé, Samuel 0913
Serra-Cobo, Jordi 0180
Serre, David 0250, 0414
Serwanga, Asadu 0029
Sette, Alessandro 1022
Sevene, Esperança 0439
Sewanyana, Isaac 0029
Seydel, Karl 0911, 1183
Seynou, Mariam 0636, 0794
Seyoum, Aklilu 0304, 0310, 1177
Sgrò, Carla 0935
Shackleford, Lewis 1003, 1178
Shaffer, Jeffrey G. 0407, 0665, 1106, 1220
Shah, Binal N. 0444
shah, Digvijay 0627
Shah, Hina 0920
Shah, Jui A. 0284, 0285, 0839
Shah, Rashed 1214
Shah, Zalak 0253
Shaha, Sumaiyah 1165
Shahid, Abu S. 1199
Shahriar, Sunny 0896
Shahrin, Lubaba 0391, 0974
Shaita, Karren N. 0181
Shaivitz, Marla 0501
Shaligram, Umesh 0418, 0418, 1164
Shallat, Jaclyn 0021
Shallberg, L 1406

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 278 for the list of speakers and session chairs in Plenary and Symposium Sessions.

Shammaky, Mohammad 1123
Shammaky, Mohammad A. 0243
Shampa, Chansy 0450
Shanaube, Kwame 1265
Shandukani, Bridget 0739
Shanks, Dennis 0857
Shanks, G Dennis 0271
Shannon, Jenny 1185
Shanta, Ireen Sultana 0898
Shantha, D. Sunil 0481
Sharakhov, Igor V. 1395
Sharakhova, Maria V. 1393
Sharma, Aabha I. 0416
Sharma, Anika 0144, 1343
Sharma, Ankur 1051, 1058
Sharma, Manish 1055
Sharma, Mayuri 0160, 0161, 0593
Sharma, Rohit 0601
Sharpe, A.h. 1406
Shattock, Andrew J. 0200, 0493
Shattuck, Dominick 0501
Shaw, Alex 1248
Shaw, Andrea 0958, 1346
Shaw, Callum 1235
Shaw, Eric 0573
Shaw, Robert W. 1332
Shaw, Shabana 0100
Shea, Katriona 0935
Shears, Melanie J. 0423, 1050
Sheel, Meru 0488, 1038
Sheen, Patricia 0812, 1253
Shek, Amalhin 0751
Shekarau, Emmanuel 0211, 1081
Shekerau, Emmanuel 0103
Shelby, Natasha 0975
Shepard, Donald S. 0463
Sher, Alan 1175
Sherrill, Windsor W. 0522
Shetty, Vinaya 1394
Sheu, Jonathan 0907
Shieh, Meg 0411, 0669
Shields, Timothy 0737, 1180
Shieshia, Mildred 0708
Shiferaw, Chalachew Bekele 0963
Shill, Dipok K. 1036
Shimelis, Techalew 0782
Shimp, Richard 1168
Shin, Sara H. 0416
Shirima, Boniface 0309, 0318
Shirin, Tahmina 0023, 0811
Shoab, Abul K. 0895, 0896
Shoemaker, Holly E. 0328
Shoemaker, Trevor 0424
Shome, Pretom 0919
Short, Mara T. 0929, 1360
Short, Sarah 0982
Short, Sarah M. 0543, 1014
Shoue, Douglas A. 0412, 0667, 0855, 1067, 1069
Shrestha, Biraj 0253, 0256, 0296, 0672, 1131
Shukla, Ravindra Kumar Gayaprasad 0574
Shyirambere, Cyprien 0506
Sibanda, Molly 0903
Sibindy, Samira 0282
Sichivula, James 0737
Siconelli, Márcio J. L. 0577
Sicuri, Elisa 1122
Siddiqui, Faiza 0852
Sidibe, Bouran 0725
Sidibe, Moridie 0645
Sidibe, Sale 0645
Sidibe, Youssoufa 1115
Sie, Ali 0339
Sié, Ali 0636, 0794
Siegert, Thomas F. 1212
Sienou, Abdoul Aziz 1281
Siesel, Casey J. 0096
Sievert, Mackenzie A. 0412
Sievert, Mackenzie A. C. 0855, 1069
Sieyes - Malawi SmartNet Initiative, Patrick 0311, 0730
Sifuna, Millicent 0557
Signorell, Aita 0443, 1068
Sikaala, Chadwick 0739, 0844
Sikulu-Lord, Maggy 0066, 0884
Silal, Sheetal 0264, 0612
Silamut, Kamolrat 1078
Siles, Crystyan 1350
Sili, Benjamin 0355
Sillau, Stefan 1247
Silva, Ana C. 1338
Silva, Hermali 1250
Silva, Joana C. 0250, 0253, 0256, 0296, 0672, 0673, 1112, 1391
Silva, Luciano K. 1274
Silva, Maria E. 1350
Silva, N.H. 0456
Silva, Tamara Nassar da 1259
Silva, Thaiany G. 1338
Silva, Thaiany G. de Souza. 1336
Sim, B Kim L. 0299
Sim, B. K. 0473, 0687, 1118
Sim, B. Kim Lee 0128, 0293, 0295, 0296, 0301, 0302, 0422, 0447, 1050
Sim, Betty K. L. 0423
Simba, Charles 0315
Sime, Heven 0236
Sime1, Heven 0201
Simmen, Kenny 1291
Simmons, Cameron P. 0932, 1319
Simmons, Graham 0153
Simmons, Sarah 0024
Simoes, Maria L 1333
Simon, Matthew 1377
Simon, Melissa A. 0028
Simon, Neta 0021
Simone, Wilson 0405
Simonyan, Hayk 1169, 1172
Simpson, Andrew 0781
Simpson, Joann 0100, 0276, 1161
Sims, B. Kim Lee 1167
Simulundu, Edgar 1279
Simuyandi, Michelo 0323
Sinaba, Youssouf 0842
Sinai, Cyrus 1098, 1160
Sing' anga, Caison 1279
Singapuri, Anil 0145
Singer, Andrew C. 0862
Singh, Balwan 0880
Singh, Kavita 1168
Singh, Puspendra P. 1069
Singh, Puspendra S. 0855
Singh, Vineeta 0619
Singhaxaiyaseng, Somvai 0781
Singh - Malawi SmartNet Initiative, Harkirat 0311, 0730
Singson, Patricia 0828
Sinha, Amit 0475, 0539
Sinha, Dr NK 0851
Sinha, Pranay 1342, 1388
Sinka, Marianne 0740
Sinnis, Photini 1049
Sintasath, David 0284, 0285, 0839
Sinzinkayo, Denis 0304
Siqueira, André M. 0142, 0773
Siraj, Amir 0262
Siria, Doreen J. 0317, 0746
Siribie, Mafama 1155
Siribié, Mahamadou 0854
Sirima, Sodiomon B. 0687
Sirima, Sodiomon Bienvenu 0854
Sissoko, Kourane 0299, 1255, 1262
Sissoko, Mahamadou S. 0299, 0421, 0447, 0687
Sissoko, Mahamadou S 1255, 1262
Sissoko, Mody 0250
Sissoko, Samah 0012, 0744
Sissoko, Sibiri 0299, 1255, 1262
Sitoe, Antonio 0444, 0461, 0462, 0858, 1324
Sitoe, Mercia 1275
Sitthideth, Soutthongkham 0496
Situakibanza, Hippolyte 0384
S. Kabera, Michee 0240
Sklar, Marvin J. 0147, 0156
Skrip, Laura 0266, 0928
Skrip, Laura A. 0492, 1043
Slade, Andrew 0202
Slater, Hannah 0009, 0262, 0441, 0693
Sloan, Derek J. 0427, 0428
Slot, Rida 0881
Slotman, Michel 0554
Slotman, Michel A. 1394
Slutsker, Laurence 0262, 0439
Small, Graham 0957
Small-Saunders, Jennifer 0923
Smargiassi, Audrey 1086
Smick, Sebastian 0195
Smit, Merel J. 0639
Smit, Sarah 0024
Smith, Christopher 0334
Smith, David 1070
Smith, David L. 1091, 1095
Smith, Derek 1317
Smith, Derek J. 0163
Smith, Elise 0259
Smith, Gavin 1254
Smith, James A. 0899
Smith, Jennifer 0648, 0844
Smith, Jennifer L. 1156
Smith, Jennifer S. 1277
Smith, Joe 1054
Smith, Jordan M. 0632, 0947, 1076, 1182
Smith, Penelope M. 0792
Smith, Philip 1062
Smith, Robert 0980
Smith, Ryan 0601
Smith, Ryan C. 1328
Smith, Stephen C. 0014
Smith, Teresa C. 0595
Smith, Thomas 0740
Smith, Thomas A. 0265
Smith-Gueye, Cara 1156
Snell, Paul 1281
Snetselaar, Janneke 0753
Snow, Robert 0230
Snow, Robert W. 0714
Snyder, Teah R. 0183, 0732
Sobhan, Shafinaz 0325
Sobsey, Mark D. 0823
Soebianto, Saraswati 0886
Soefteland, Solrun 0395
Sogoba, Mahamadou 0440
Sogoba, Nafomon 1072, 1106
Soh Bah, Germanus 0486
Sok, Limseng 0147
Sok, Somethy 1062
Sokana, Oliver 0993
Soke, Gnakub N. 0424
Sokolow, Susanne 1267
Sokolow, Susanne H. 0919
Solano, Philippe 1248
Soliman, Sameh E. 1296
Soller, Babs 0904
Solo, Elmard R. 0915
Solomon, Anthony W. 1210
Solomon, Hiwot 0236
Solondrainy, Tsiriarivelo J. 0915
Soma, Diloma Dieudonné 0998
Soman, Sandrine A. 1293
Sombié, Benjamin 0854
Sombié, Salif 0913
Somé, Anyirékun F. 0205
Some, Athanase 0418
Somlor, Somphavanh 0990
Sompougdou, Frederic 1281
Sompwe, Eric Mukomena 0656
Son, Than T. 1364
Sondergaard, Erica 0887
Song, Hyun Beom 1381
Sonnie, Mustapha 0357, 0436, 0796
Sonogo, Sintry 1262
Sonye, George O. 0994
Sooklaris, Nora 0328
Sore, Harouna 1191
Sorgho, Hermann 0418
Sorn, Sopheak 0165
Sornsakrin, Siriporn 0653
Sorrell, Erin M. 0801
Sosa Ccanto, Rosario 1257
Sossou, Darius 0625
Soto-Becerra, Percy 0760, 0768
Soto-Hernández, Joaris 0598
Soto-Villatoro, Ernesto 1241
Sougrnooma, Bonkoungou 0980
Soulama, Issiaka 0734, 0854, 0913
Souleymane, Iro 0997
Soumaila, Hadiza 0997
Soumaoro, Lamine 0790, 1270
Soumare, Harouna M. 0842
Soumbounou, Ibrahim 0422
Soura Bassiahi, Abdramane 0033
Sousa, Aye 0297
Sousa, Jason 0216, 0644
Souza Svigel, Samaly 0410
Sovannaroth, Siv 0281, 0409, 0726, 0727
Sovi, Arthur 0225, 0547
Sow, Doudou 0655
Sow, Omar 1267
Sow, Samba 0035, 0461, 0462, 0515, 1324
Spaccapelo, Roberta 0922
Spadafora, Carmenza 1196
Sparvoli, Daniela 1403
Spaulding, Anne C. 1260
Specht, Sabine 1234
Spector, Jonathan M. 0956
Spencer, Angela G. 0512, 0764
Spencer, Simon E. F. 0450, 0452
Spencer-Walters, Dayo 0965
Spiegel, Alicia 1058
Spiers, Angus 0553
Spring, Michele 0653, 1062
Sproch, Hannah 0148
Sprung, Robert 1227
Sraku, Isaac K. 0742
Sravanam, Sruthi 0692
Sreedhar Kuttiat, Vijesh 0354
Sreng, Sokunthea 0907, 1305, 1359, 1362
Srikiatkhachorn, Anon 0904, 1320
Srinivasan, Shwetha 0281, 0726, 0727
Srivas, Shweta 0627
Sriwichai, Sabaithip 1062
Ssekabira, Umaru 0025, 0107
Ssengooba, Willy 0385
Ssenkusu, John 0185
Sserwanga, Asadu 0210
Ssewamala, Fred M. 0365
Ssewanyana, Isaac 0048, 0049, 0909, 1089
Stabler, Thomas C. 0256, 0672
Stadler, Volker 0614
Staedke, Sarah 0406, 0549, 0908, 0927, 1089
Staedke, Sarah G. 0505, 0775, 1070, 1095, 1141
Stafford, Kristen 0022, 1348
Stafford, Lewis J. 0597
Stager, Benjamin P. 0698
Standley, Claire J. 0521, 0801, 1367
Stanley, Sarah 0470
Stanton, Michelle 0452
Stapleford, Kenneth A. 0146
Stedman, Timothy T. 1052
Steer, Andrew 0038, 0869

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 278 for the list of speakers and session chairs in Plenary and Symposium Sessions.

Steer, Andrew C. 0993
Steiber, Alexa 1103
Steinberg, Hannah E. 1378
Steinbrook, Eric 0464
Steinhardt, Laura 0104, 0106, 0687
Steinhardt, Laura C. 0022, 1348
Stephen, Otim 0036
Stephens, Jessie 0817
Stephens, Robin 1173
Stepniewska, Kasia 0714
Sterk, Esther 1144
Stern, Cleo 0037, 0040, 0798
Sternberg, Eleanore D. 0550, 0745
Stevens, Rhea 1058
Stevenson, Jennifer C. 0313, 0559, 1180
Stewart, Christine P. 0896
Stewart, Raymond 0792
Stiffler, Deborah 1049
Stockdale, Lisa 0418, 1164
Stoddard, Steven 0850
Stoeckert, Christian J. 0060
Stokes, Barbara H. 0203, 0923
Stokes, Stacey 0071
Stoloff, Gregory 0929, 1360
Stolow, Jeni 0501
Stolow, Jeni A. 0965
Stone, Will J. 0842
Stone, William 0908
Stonier, Spencer 0850
Stoops, Bart 1291
Storey, Douglas 0100, 0208, 0509, 0719, 1161
Storey, Douglas J. 0276
Stoter, Rianne 1166
Stout, Jessica L. 0599
Stoute, Jose 1196
Straetemans, Roel 1291
Straily, Anne 1263
Stramer, Susan 0821
Stratidis, John 0980
Stratil, Ann-Sophie 1278
Straub, Tim 0411
Straub, Timothy 0669
Strauch, Pamela 0220
Strauss, Kathy A. 1289
Streblow, Daniel N. 0846
Streicher, Felix 0180
Strelau, Katherine 1398
Stresman, Gillian 0649, 1159
Striegel, Deborah 1208
Striepen, Boris 0459, 1398
String, Gabrielle 0900
Stringer, Elizabeth 0596
Strutz, Wiebke 0484, 1310
Stuart, Kenneth D. 0914
Stuart, Nichol T. 0526
Stuart, Ronald 1174
Stuchlik, Olga 0053, 1230
Stuck, Logan 0248, 0283
Stucke, Emily M. 0250, 0253, 0681, 1112
Stukel, Diana 0797
Sturrock, Hugh 0244, 0474, 0648
Sturrock, Hugh J. W. 1323
Sturt, Amy 0055, 0364
Sturt, Amy S. 1264, 1265
Suarez, Carlos 0870
Suárez-Fariñas, Mayte 1294
Suarez-Farinas, Mayte 1314
Suárez-Mutis, Martha 0738
Suarez-Mutis, Martha 0840, 1369
Suarez-Sotomayor, Monica 1226
Subekti, Decy 0886
Subekti, Sri 0585
Subudhi, Amit 0292
Suchard, Marc 0601
Suchard, Marc A. 0002
Suchdev, Parminder S. 0949
Sudathip, Prayut 0653
Sudathip, Prayuth 0284, 0285, 0839
Suero, Claudia 0977
Suhowatsky, Stephanie 0279, 1090
Suiaunoa-Scanlan, Lynette 0355
Suida, Preeyaporn 0653
Sukenick, George 0204
Suleiman, Jamal Muhamad A.H. 1259
Suliman, Youseuf 0475
Sullivan, J. Tabb 0004, 0597, 1030
Sullivan, Nancy J. 0002
Sultana, Jesmin 0898
Sultana, Marufa 0390
Sultana, Marzia 0827
Sultana, Mirza M. 0895
Sultan Mahmood, ASM 0482
Summers, Aimee 0098
Summers, Robert 0195, 0221
Summers, Robert L. 0457
Sumner, Kelsey 0659
Sumner, Kelsey M. 0408, 0650
Sumo, Laurentine 0964
Sumon, Md S. Amin. 0093
Sun, Catherine 0494
Sun, Longhua 0137, 0555
Sun, Sicong 0365
Sung, Heungsup 0178
Supaprom, Chonthida 0156
Supaprom, Chontida 0147
Supit, Russel 0567
Surakat, Olabanji A. 0793
Surangkamaneesin, Krotchakorn 0610
Surendra, Henry 1159
Suresh, Joshua G. 0927
Susapu, Melinda 0434
Sutherland, Elizabeth 0792
Sutherland, Ian 0147
Sutherland, Ian W. 0156
Suttiwong, Chalita 0284, 0839
Suzuki, Motoshi 1168
Svensen, Erling 0079
Svensson, Lennart 1039, 1040
Svisva, Abaden 1074
Svoboda, Pavel 0053, 1230
Swaminathan, Mahesh 0022, 0101, 1348
Swaminathan, Subramanian 0354
Swen, Melody 0942
Swihart, Bruce 0421
Sy, Alioune 1267
Sy, Hendrik 0179
Sy, Marie 0527
Sy, Ousmane 0655
Syed, Sana 0347, 0832
Sylivester, Yasinta D. 0052
Sylla, Daman 0421, 0645
Sylla, Khadim 0655
Sylla, Khadime 1150
Sylla, Mahamadou 0440
Syme, Thomas W. 0316
Sytiuk, Mykola 0803
Szabat, Marta 1166
Sztein, Marcelo B. 0369

T

T, Mahalakshmy 0817
Tabala, Martine 0007
Tabinas Jr., Henry 0519
Tabprasit, Sutchana 0653
Tabue, Raymond 0184
Taccheri, Claudia R. 0254, 1061
Tadesse, Birkneh T. 0782
Tadesse, Fitsum 0883
Tadesse, Lisanu 0963
Tadesse, Zerihun 0359, 1321, 1323
Tafadzwa Lukwa, Akim 0953
Tageldin, Reham 0561
Tagliamonte, Massimiliano S. 0891
Tagoe, Titus 1193
Tai, Sheldon 0615
Tairou, Fassia 1150
Tairou, Fassiatou 0655
Taiwo Samson, Awolola 0997
Takahashi, Saki 0530
Takala-Harrison, Shannon 0250, 0253, 0296, 0653, 0681, 1062, 1112, 1131
Takarinda, Kudakwashe C. 0388, 0502
Takashima, Eizo 0238
Takehara, Ikki 0885
Tallam, Krti 0919
Tallant, Jamie 1266
Talledo, Michael 0155
Tallo, Veronica 0507, 1285
Tal-mason, Aya 0139
Tam, Ying 0419
Tamadaho, Ruth 1311
Tamari, Noriko 0994
Tamayo, Laura D. 0540
Taminang, Walter 1100
Tamiru, Mossie 0482
Tan, Angelica F. 0624
Tan, John C. 1112
Tan, Kim-Kee 0539
Tan, Michelle 0907
Tan, Sophia 0896
Tanabe, Melinda B. 0802
Tanaka, Mio 1288
Tanamas, Stephanie K. 0932, 1319
Tandel, Jayesh 0459
Tandoh, Marina A. 1222
Tang, Nina 0043, 1370
Tang, Quishi 0607
Tangara, Bourama M. 0250
Tangara, Cheick Oumar 0665
Tangudu, Chandra 0889
Tangudu, Chandra S. 0177
Tangwa, Bernard Viban 0486
Tangwena, Andrew 0739
Taniuchi, Mami 0035, 1302
Tanner, Marcel 0293, 0631, 1215
Tanner, N. Kyle 0377
Tannis, Ayzsa F. 0590
Tanya, Vincent 0486
Taoaba, Raebwebwe 1210
Taole, Sera 0869
Tapia, Leandro 0977
Tapia, Milagritos 0462, 1324
Tapia, Milagritos D. 0515
Tapia, Milagritos D 0461
Tapia Mamani, Pilar R. 1257
Tapily, Amadou 1281
Tappert, Aliona 0856
Tapsoba, Madou 1192, 1194, 1354
Tarama, Casimir 1155, 1191
Taribo, Emmanuel I. 0510
Tariqujjaman, Md. 0390
Tarke, Alison 1022
Tarpey, John 0992
Tasch, Michael 1176
Taskina, Alena 1395
Tasse, Gullit M. 0680
Tato, Cristina M. 0907, 1362
Tavale, Noelle 0355
Tavares, Wilson 0673
Taweh, Fahn 0097
Taweh, Fahn M. 0621
Taye, Solomon 0387
Taylor, Aimee 0411, 0669
Taylor, Aimee R. 0925
Taylor, Alexander 0056
Taylor, Cameron 0442, 0715, 0716
Taylor, Harry 0958, 1346
Taylor, Justin 0419
Taylor, Justin A. 1162
Taylor, Loni 1046
Taylor, Mark J. 0482
Taylor, Matthew 1247
Taylor, Myra 0050, 0395
Taylor, Sara 0109, 0477, 0478
Taylor, Steve 1125
Taylor, Steve M. 0190, 0408, 0650, 0659, 1109, 1143
Taylor, Terrie 0911
Tchadjobo, Tchassama 0209, 0718
Tchanana, Gladys K. 0403
Tchinda, Eric Meli 0717
Tchofa, Jose 0184
Tchouakui, Magellan 0184
Tchouatieu, Andre M. 0209
Tchouatieu, André-Marie 0280
Tchouatieu, Andre-Marie 0718
Tchouatieu, André-Marie 0854
Tchouatieu, Andre-Marie 1145
Tchounga, Florentine 0263
Tebit, Kwenti E. 0620
Tedijanto, Christine 0963, 1323
Tediosi, Fabrizio 1248
Tee, Mian Zi 0044
Teelen, Karina 1166
Tegbe, Muyiwa 1135
Tehmeh, Lekilay 0097, 0621
Teh Monteh Sofa, Caroline 0717
Teixeira, Camila 0815
Teixeira, J. P. 1258, 1384, 1385
Teixeira, J. Pedro 1347
Teixeira-Carvalho, Andréa 0586, 0845, 1361
Tej Abdeljaoued, Ines 0454
Tekeraoi, Rabebe 1210
Tekete, Mamadou 0725
Teklemichael, Awet 0676
Telford, Sam 0868
Telfort, Marc-Aurèle 0291, 0353
Telfort, Marc-Aurele 1218
Tello, Luis 0760, 0761
Temba, Godfrey S. 0426
Tembely, Boubacar 0645
Tembine, Intimbeye 1255, 1262
Temesgen, Fikremelekot 0461
Temesgen, Habtamu T. 0270
Temmam, Sarah 0990

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 278 for the list of speakers and session chairs in Plenary and Symposium Sessions.

Templeton, Michael R. 0052
Tene, Billy 0184
Tenforde, Mark 0360, 0361, 0901
Tengbeh, Angus F. 0436
Tenywa, Frank 0314
Terán, Enrique 0091
ter Heine, Rob 0639, 0842
ter Kuile, Feiko 0233, 0635
ter Kuile, Feiko O. 0239
Ternier, Ralph 1296
Tesfaye, Annisa B. 1203
Tesfaye, Tseyon 0462, 0466
Tessema, Belay 1203
Teta, Ismael 0356, 0795
Tetteh, Gladys 0702, 0704, 0705, 0708, 0724, 1073, 1128, 1129
Tetteh, Kevin 0029, 1107
Tettey, Mabel D. 0375
Thabrew, H. H. P. M. J. 0517, 0524
Thach, Pham 1374
Thadar, Hsu 0731
Thaisomboonsuk, Butsaya 0163, 1317
Thakur, Siddhartha 1363
Than, Su Hlaing 0700
Than, Wint Phyo 0700, 0722
ThankGod, Daniel G. 0800
Thant, Khun Aung 0700
Thavrin, Boukheng 0281, 0726, 0727
Thawer, Sumaiyya G. 0230, 0709
Thbu, Kaung Myat 0700
Thean, Li Jun 0869
Thein, Si Thu 0286
Theis, Lauren 0496
Thera, Ismaila 1281
Thera, Mahamadou A. 0250, 0255, 0681
Thet, May M. 0286
Thi, Aung 0289, 0735
Thickstun, Charles 0008, 0358, 0431
Thiero, Oumar 0665
Thigpen, Michael C. 0881
Thi My Vo, Hoa 1318
Thiono, Devina J. 1293
Thirumurthy - Malawi SmartNet Initiative, Harsha 0311, 0730
Thiry, Etienne 0024
Thiwe, Patricia 0025, 0107
Thomas, Andrew N. 1322
Thomas, Anu 0597
Thomas, Charles 0445
Thomas, Elizabeth 0824
Thomas, Elizabeth D. 0827, 0863, 0898
Thomas, Jennifer D. 0590
Thomas, Liz 0718
Thomas, Marrisa 0247
Thomas, Matthew 0935, 1306
Thomas, Prof Matthew B. 0550
Thomas, Stephen 0958, 1295, 1346
Thomas, Stephen J. 0887, 1320
Thommana, Ashley 0602
Thompson, Julie 0378
Thompson, Peyton 0007
Thomsen, Robert 0875
Thongsripong, Panpim 1010
Thornborrow, Edward 0530
Thota, Priyaleela 0063, 0624, 0627, 0720
Thulin, Nathalie 0685
Thuma, Phil 1279
Thuma, Philip E. 0444, 1107
Thuo, Wangeci 0918
Thurow, Aishling 0713
Thwala, Bukiwe N. 0461
Thwala, Bukiwe Nana 0462
Thwing, Julie 0440, 0660
Thys, Kim 1291
Tia, Innocent Z. 0550
Tian, Shaomin 1293
Tibaduiza, Tania 0751
Tibenderana, James 0029, 0206, 0241, 0928
Tibenderana, James Kananura. 0664, 1142
Tiberio, Herio 0182
TIDES Study Group 0166
Tidwell, Michael 0056
Tiendrebeogo, Justin 0704
Tiffany, Amanda 0649
Tijhaar, Edwin 1337
Tillekeratne, L. G. 0517, 0524
Tillekeratne, L. Gayani 0805
Timinao, Lincoln 0652
Timire, Collins 0388, 0502
Timm, Emily 0024
Timmy Donkoh, Emmanuel 0138
Tin, Nicole 0581
Tinajeros, Freddy 1378
Tindana, Paulina 1163
Tine, Justin 0527
Tine, Roger C K 0655
Ting, Tony 0696
Tinto, Bachirou 1213
Tinto, Halidou 0418, 1281
Tiono, Alfred 0734
Tiono, B. Alfred 0854
Tippett Barr, Beth A. 0392, 0462, 0515
Tirados, Iñaki 1248
Tirivavi, Mandla 0368
TIRS Trial Team 0841
Tisch, Daniel 0434, 0954
Tissera, Hasitha 0584, 1029
Titilawo, Mobolaji A. 0831
Titova, Svetlana 0690
To, Albert 0611
Toapanta, Franklin R. 0369
Todagbe Agnandji, Selidji 1160
Todres, Alison 0424
Toe, Hyacinthe K. 1192
Toepfer, Sebastian 0143
Tofail, Fahmida 0824, 0863
Tognazzini, Colten 0975
Tohon, Zila 0997
Tolo, Youssouf 0250, 0255
Tomalin, Lewis E. 1294, 1314
Tome, Joana 1260
Tomko, Sheena S. 0060
Tompsett, Andy 0281, 0726, 0727
Tong, Van T. 0590
Tong, Xinran 1399
Tongren, Jon Eric 0270
Tonnetti, Laura 0821
Topazian, Hillary M. 1277
Torano, Holly 1051
Torano, Holly M. 1058
Toribio, Luz 0762
Toribio, Luz M. 0768
Torkamani, Ali 0002
Tornesi, Belén 0218
Torr, Steve J. 0452, 1248
Torres, Carolina 1256
Torres, Katherine 0234
Torres, Myriam 1383
Torres-Pacheco, Jaison 0089, 1047
Torres-Torres, Lutecio 1005
Torrez Dulgeroff, Laughing Bear 1048
Tosado-Acevedo, Rafael 1256
Toto, Jean-Claude 0184
Tougri, Gauthier 0010, 0209, 0704, 0705, 0718, 0854, 1136, 1155, 1191, 1192, 1354
Toure, Djeinam 0040
Touré, Mahamoudou 0407
Toure, Mahamoudou 0665, 1072
Touré, Mahamoudou 1106
Toure, Sounkou 0665
Touret, Franck 1291
Toval-Ruiz, Christian 0176, 0330, 0818
Toval-Ruíz, Christian 1039
Toval-Ruiz, Christian E. 0861
Tovar Perez, Carolina F. 1257
Towett, Oliver 0233
Tozan, Yesim 0365
Tozivepi, Nokuthula S. 0388, 0502
Tozivepi, Samantha 0368
Traill, Tom 0429
Tran, Christiane 0295
Tran, Thư 0257
Traore, Amadou Sekou 0645
Traore, Boubacar 1255, 1262, 1262
Traoré, Diahara 1139
Traore, Ibrahim 0012, 0744
Traore, Issouf 0794
Traoré, Jacques 1213
Traoré, Karim 0250
Traore, Karim 0255
Traore, Mahamadou 0040, 0790, 1270
Traore, Moussa L 1255, 1262
Traore, Oumar B. 0725
Traore, Ousmane 0418
Traore, Sekou F. 0421, 0842
Traore, Seydou 0422, 1281
Traore, Souleymane 0422, 1255, 1262
Traore, Zoumana I. 0725
Traub, Rebecca 0038, 1237
Traub, Rebecca J. 1243
Travassos, Mark A. 0250, 0253, 0681, 1112
Traverse, Elizabeth 0149, 0576
Travi, Bruno L. 0446
Travis, Jye 0884
Trehan, Indi 0492
Trejo, Paola A. 0503
Treleaven, Emily 0440, 0660
Tresor, Olivier 0631, 0879
Trett, Anna E. 0752
Treviño, Jesús 0158
Trianty, Leily 0886
Tribble, David 0150
Tricou, Vianney 0166
Trigo, Leonardo A. 1315
Trinta, Karen 0142
Tripet, Frederic 0305
Tritsch, Sarah 0024
Trochez, Stephanie 0977
Troell, Peter 0272
Trotman, Neil 0276, 1161
Troyo, Adriana 0172
Troyo-Rodriguez, Adriana 0479
Truyens, Carine 0378
Tsai, Alexander C. 0836
Tsai, Wen-Yang 0600
Tsai, Yucheng 0409
Tsang, Lai Y. 0489
Tsao, Jean 0872
Tsarafihavy, Andritiana 0713
Tse, Long Ping V. 1019, 1316
Tse, Longping V. 0578, 1021, 1386
Tse, Victor 0579
Tse-Dinh, Yuk-Ching 0637
Tshefu, Antoinette 0443, 0651, 1068, 1109
Tshefu, Antoinette K. 1099
Tshiani, Olivier 0002
Tshikamba, Erick 0068, 0069
Tshiswaka Bondo, Godefroid 0632, 1076
Tshulo, Louis 1144
Tsoungui Obama, Henri Christian Junior 0697, 0948, 0959
Tsuboi, Takafumi 0238
Tsuji, Isamu 0572, 0583
Tsuji, Moriya 0302, 0423
Tsypin, Lev M. 1403
Tu, Trang C. 0120
Tu, Zhijian 1393, 1395
Tuaillon, Edouard 1213
Tuan, Jessica J. 1124
Tufa, Aifili 0355
Tuicakau, Meciusela 0869
Tuikue Ndam, Nicaise 0448
Tukwasibwe, Stephen 0049
Tumbwebaze, Patrick 1065
Tumwebaze, Patrick 0196
Tumwebaze, Patrick K. 0197
Tun, Kyaw Myint 0289, 0722, 0731
Tun, Rab 1210
Tung, Dao D. 1364
Tungu, Patrick 0753
Tunjungputri, Rahajeng N. 1031
Tupps, Cara 1238
Turay, Victoria 0357, 0436
Turcios, Keirstine 0530
Turco, Antonella 0922
Turkewitz, Aaron P. 1403
Turnbull, Lindsey B. 0646
Turner, Louise 0683
Tusting, Lucy S. 1095
Tutu Tshia N'kasar, Yannick 0002
Twahirwa, Maurice 1079
Ty, Maureen 0049, 0685, 0909
Tye, Mark 1061
Tynuv, Kenzie 0010, 0757, 1189, 1193, 1194

U

Ubeysekara, H. A. 0517, 0524
Uddin, Ismat Minhaj 0827
Uddin, Zeeshan 0099
Udhayakumar, Venkatachalam 0410, 0880
Udhayakumar, Venkatachalam Udhayakumar 0626
Ueti, Massaro 0870
U. Ferreira, Marcelo 0838
Ugalino, Chermane 0519
Ugbene, Kenechukwu 0946, 1134
Ugbenyo, Gideon 0728, 1280
Ugwa, Emmanuel 0072, 0074
Ugwuanyi, Charles 1345
Uhomoibh, Perpatua 1081

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 278 for the list of speakers and session chairs in Plenary and Symposium Sessions.

Uhomoibhi, Perpetua 0103, 0211, 0310, 0757, 1133, 1185, 1189, 1190, 1194
Uko, Itohowo 1345
Ullah, Imran 0416
Umar, Abba 0211, 0944, 0946, 1133, 1134, 1135, 1148, 1153, 1154
Umar, Amina 0728, 1280
Umaru, John 0432
Umashankar, Nita 0489
Umeanaeto, Pauline U. 0227
Umrani, Fayaz 0832
Umulisa, Noella 0240, 0703, 1079
Umutesi, Grace 0506
Uneke, Jesse C. 0310
Unger, Holger 0679
Unger, Stefan A. 0444
Unicomb, Leanne 0895, 0896, 0897
Unnasch, Thomas R. 0350, 0432, 0874
Unnasch, Tom 0359
Unruh, Mark 1384
Upasani, Vinit 0165
Updyke-Welch, Isabella 1114
Urbano, Vicente 0293, 1118, 1215
Urbina, Maria Paz G. 0507
Urgena, Christiane 0301
Urom, Michael 1135
Urusaro, Sandra 0506
Uscanga-Palomeque, Ashanti C. 0446
Usuda, Yukari 1169, 1172
Utami, Retno A. S. 0886
Utarini, Adi 0932, 1319
Utu, Fara 0355
Utzinger, Jürg 0497, 1011
Uusiku, Petrina 0736, 1156
Uwandu, Mabel 1348
Uwimana, Aline 0240, 0410, 0623, 1079
Uwizeye, Regis F. 0506
Uyehara, Catherine 0393
Uyehara, Catherine F. 0816
Uzayer, Abu 0078
Uzim, Justus 0940
Uzonna, Jude E. 0047, 1251, 1405

V

Vadaq, Nadira 1031
Vaidhyanathan, Vedana 0149, 0576
Vaidya, Akhil 0018
Vaifanua-Leo, June 0355
Vaishnav, Himanshu R. 0006
Valá, Anifa 0439
Valadares, Diogo 1341
Valansi, Clari 0460
Valcarcel, Maria 0761
Valderama, Ma. Theresa 0613
Valencia, Diana 0590
Valencia, Diego 0761
Valencia, Joseph 1272
Valencia Norabuena, Teresa R. 1257
Valente, Marta 0366, 0500, 0774, 0786, 0858
Valentin, Collin 1392
Valenzuela, Jesus 1335
Valenzuela, Jesus G. 0929, 1305, 1358, 1360
Valenzuela, Jesus G. 1359
Valenzuela Leon, Paola Carolina 1331
Valério, Danielle 0558
Valim, Clarissa 0931, 1183
Vallejo-Degaudenzi, Alejandro 0977
Vallur, Aarthy C. 0983, 1033
Vanachayangkul, Pattaraporn 1062
Vanaerschot, Manu 0221, 0457
van Beek, Stijn W. 0639
Vanbreda, Karin 0884
Vance, Natalie M. 0190
van Dam, Govert J. 0050, 1264, 1265, 1282
Van Damm, Govert 0364
Vanden Eng, Jodi 0014
van de Plas, Johan 0856
van der Boor, Saskia C. 0639
Vanderlinden, Axelle 0165
Vander Meulen, Rebecca J. 0736
van der Ploeg, Kattria 0049
van der Schoot, C. Ellen 0448
van der Ven, André J. A. M. 1031
van de Vegte-Bolmer, Marga 1166
Vandewege, Michael W. 0131
van Diepen, Angela 1288
Van Dis, Erik 0470
Van Doorn, H. Rogier 1374
Vanegas, Hernan 1040
van Eijk, Anna Maria 0239
Van Esbroeck, Marjan 0155
Vang, Lo 0145, 0850
Van geertruyden, Jean-Pierre 1138
van Geertruyden, Jean-Pierre van Geertruyden 0633
van Gemert, Geert-Jan 1166
Vanheer, Leen N. 1399
Vanhoutte, Frédéric 0582
Van Hulle, Suzanne 0939, 1179
Vanisaveth, Viengxay 0496
Vanlandingham, Dana L. 0587, 0588, 0591, 0605
Van Leuven, Katrin 0633
Van Lieshout, Lisette 0055, 0364, 1264, 1265, 1288
Van Loock, Marnix 0582, 1291
Vanobberghen, Fiona 0370
Van Parys, Jacob 0686
Van Rompay, Koen 0145
Van Wesenbeeck, Liesbeth 1291
Van Wickle, Kimiko 0951
Váquiro-Herrera, Eliana 0455
Vareta, Jimmy 1131
Vargas, Ana P. 1253
Vargas, Lilian 1247
Vargas, Martina 1273
Vargas, Vanessa 1188
Vargas, Zorimel 1285
Vargas Barahona, Lilian 1245
Vargas-Calla, Ana 0762
Varo, Rosauro 0461, 0462, 0858, 1324
Vasconcelos, Jocelyne 1200
Vasconcelos, Jocelyne N. 0324
Vasconcelos, Marileide Januaria de 1259
Vasilakis, Nikos 0558, 1009, 1315
Vasquez, Gissella M. 1350
Vásquez, Skarlet M. 0455
Vaughan, Ashely M. 1069
Vaughan, Ashley 0246, 0301
Vaughan, Ashley M. 0412, 0413, 0460, 0667, 0674, 0924, 1067, 1120
Vaughan, Ashley M. 1117
Vaughan, Jefferson 1018
Vaughan, Steve 0346
Vaz, Liberato M. 0756, 1182
Vaz Nery, Susana 0782, 1237, 1243
Vazquez Prokopec, Gonzalo 0871
Vazquez-Prokopec, Gonzalo 0575, 1304
Veasna, Duong 1318
Vega Durán, Alfonso 0177
Vega-Rodriguez, Joel 1331
Veinoglou, Amy 0792
Velasco, John Mark 0519
Velasco, John Mark S. 0613
Veldhuizen, Tom 1288
Veldkamp, Peter 0789
Velez, Jason 0617
Velez, Juan P. 0121
Velez, Laura M. 0503
Vélez Alvarado, Ileana 0521
Velikkakam, Teresiama 1338
Ven, Andre v. der. 0426
Vendrely, Katelyn 1067
Vendrely, Katelyn M. 0412, 0667, 0674, 0855, 0924, 1069
Venkatesan, Abhinaya 1240, 1376
Venkatramann, Navin 1164
Vennervald, Birgitte J. 0050
Ventimiglia, Noah T. 0250, 0681
Vera-Arias, Claudia A. 0883
Verastegui, Manuela R. 0772
Verity, Robert J. 0675
Verkuijl, Sebald A. N. 1003
Verma, Anil K. 0627
Verpoorten, Nathalie 0582
Verschoor, Ernst 1291
Versiani, Alice 1041
Versiani, Alice F. 1315
Versteeg, Leroy 1337
Verstrepen, Babs 1291
Vesely, Brian 0653, 1062
VEuPathDB Team, For the 0245
Vianou, Bertin 0625
Vidarsson, Gestur 0448
Vieira, Thallyta M. 1382
Vielot, Nadja 0176, 0818, 0861, 1039
Vielot, Nadja A. 0330
Viera, Sara 0220
Viera-Morilla, Sara 0222
Vigneron, Aurelien 0888
Vijayan, Kamalakannan 0692
Vila II, Vicente 0519
Vilchez, Percy 0512, 0763, 0764, 0765, 0766, 0771, 0960, 1371
Vilchez, Samuel 0176, 0330, 0818
Vílchez, Samuel 0861
Villalobos-Camizan, Karla 0772
Villanueva, Julie 0590
Villanueva-Jorge, Salha 0575
Villar, Juan C. 0455
Villar-Dragon, Maria Jose 1337
Villasis, Elizabeth 0234
Villegas, Leopoldo 0223, 0228, 0438, 1108
Villegas, Maria 0223, 0228, 0438
Vinden, Joanna 0530
Vinetz, Joseph 0234, 0235
Vinetz, Joseph M. 1005
Vinit, Rebecca 0132, 0652
Vinje, Jan 0176
Viotti, Rodolfo 0383
Vir, Pooja 0468
Virjee, Natasha 1037
Vishwanatha, Akshay 0415
Visser, Leo 1288
Visser, Theodoor 0202, 0266, 0443, 1068
Vittor, Amy Y. 0139
Viwami, Firmine 0444
Vo, Hoa 1305
Vo, Hoa T. 0165
Vogels, Chantal 0471, 0601
Vogt, Megan B. 0890
Vogt, Stefanie 1166
Voic, Hannah 1022
Volkman, Hannah R. 1023, 1389
Volkman, Sarah 0195
Volkman, Sarah K. 0254, 0416, 0926, 1087
Volkmuth, Wayne 1170
Volpedo, Greta 1335
von Boguslawski, Curt 1139
von Fricken, Michael 0117, 0119, 0122, 0532, 0533, 0534, 0536, 0541, 1083
von Fricken, Michael E. 0110
Vongphayloth, Khamsing 0990
Vongsouvath, Manivanh 0781
Von-Horoch, Marta 0164
Vontas, John 0995
Vos, Martijn 1166
Vreden, Stephen 0738, 0840, 1369
Vu, David M. 1025
Vyas, Kartavya J. 0515

W

Wachepa, Richard 0334
Wacira, Daniel 0708
Wade, Martina 0205, 0213, 0641, 1057, 1083
Wadephul, Lisa 1311
Waggoner, Jesse J. 0164
Waghela, Ishita 0419
Waghela, Ishita N. 1162
Wagman, Joe 1354
Wagman, Joseph 0757, 1189, 1190, 1192, 1193, 1194
Wagner, Christine 0001
Wagner, Thor 0024
Wahjib, Mohammed 1145
Wai, Tint T. 0473
Waibale, Paul 0211, 0944, 0946, 1134, 1135, 1148, 1153, 1154
Waickman, Adam 1295
Waid, Jillian L. 0325
Waide, Morgan L. 1407
Wakoli, Duncan M. 0198, 1060
Walker, Allison 0027
Walker, Edward 1016
Walker, Edward D. 0132, 0931, 1183
Walker, Isobel 0911
Walker, Patrick 1059, 1090
Wallace, Kate 0183
Wallau, Gabriel L. 0577
Wallbank, Bethan 1398
Wallender, Erika 1147
Waller, Ross F. 1398
Walter, Katharine 1027
Walther, Deonne 0109
Walther, Michael 0444
Walwyn-Jones, Eliza 0202, 1074
Walzer, Katelyn A. 0459
Wamai, Richard G. 1246
Wamboga, Charles 0452
Wampande, Lilian Nantume 0783
Wand, Handan 0869

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 278 for the list of speakers and session chairs in Plenary and Symposium Sessions.

Wang, Eleanor 0470
Wang, Meilian 0852
Wang, Michael Z. 0374
Wang, Rong 0204
Wang, Taia 0685
Wang, Wei-Kung 0600
Wang, Xiaohong 0186, 0212, 0637
Wang, Yifan 0755
Wang, Yong 0053, 1230
Wang'ombe,, Joseph K. 1246
Wang-Steverding, Xia 1248
Wanja, Dollycate 1263
Wanjala, Laura 0095
Wanji, Samuel 0401, 1311
Wanjuhi, Anne 0079
Wanjuhi, Anne W. 1299
Wanzira, Humphrey 0029, 1137, 1195
Wanzirah, Humphrey 1157
Warcup, Tom 0980
Ward, Abigal 0064
Ward, Brian J. 0400
Ward, Donald 0301
Ward III, Donald 0128
Ware, Russell E. 1212
Ware-Gilmore, Fhallon 0935
Warfield, Kelly L. 0145, 0849
Warichet, Thomas 1276
Warnasekara, Janith 1206
Warnes, Colin 0847
Warren, Cirle A. 0332
Warren, Joshua L. 1071
Warrenfeltz, Susanne 0245
Wasson, Megan K. 1203
Waswa, John Paul 0970
Waterhouse, Robert M. 1395
Waters, Norman 0653, 1062
Watkins, Annie 0471
Watkins, David I. 1316
Watson, Alexander 1114
Watson, Felicia N. 0423
Watson, Oliver J. 0675
Watson, Quentin 1082
Watters, Chaselynn 0152, 0531, 1204, 1205
Watts, Stuart 0171
Waymire, Elizabeth 0933
Waziri, Ndadilnasiya 0728, 1280
Weatherhead, Jill E. 1242
Weaver, Angela 0037, 0040, 0356, 0357, 0436, 0795, 0796, 0797, 0798
Weaver, Jerusha 0920
Weaver, Scott C. 0892
Webb, Emily 0055, 0364, 0396
Webb, Emily L. 1264, 1265
Webb, Lachlan 0638
Webber, Mayara L. 1044
Webster, Bonnie 0055
Webster, Rebecca 0857
Weckman, Andrea 0858
Weedall, Gareth D. 0131
Weeraratne, Thilini C. 0537
Weerasinghe, N. P. 0517, 0524
Weeratna, Risini 1287
Weetman, David 0552, 1349
Weg, Alden L. 0904
Weger-Lucarelli, James 0601
Weger-Lucarelli, James D. 0892
Wegman, Adam 1295
Wei, Junfei 1228
Wei, Ling 0692
Wei, Zhuoran 0871, 1304
Weidmann, Manfred 0379
Weil, François-Xavier 0425
Weil, Gary 0434, 0487
Weil, Gary J. 0435, 1356, 1357
Weil, John 0166
Weinberger, Daniel M. 1071
Weinhouse, Caren 0960
Weiskopf, Daniela 1022
Weiss, Christopher M. 0145, 0168
Weiss, Paul 1218
Weisser, Maja 0370
Weissman, Drew 0419, 0686
Weissman, Irving L. 1048
Welche, Sophie 1376
Wele, Mamadou 0665
Wellems, Tomas 0414
Weller, Chris 0962
Wells, Emma 0834
Wen, Yingda 0934
Wendt, Amanda S. 0325
Weng, Angel 0798
Wenger, Edward 0690, 0696, 0926
Were, Joyce 0392
Were, Moses 0213, 0641, 1057
Werling, Kristine 1332
Werner, Annie 0945
Wesche, David 0857
Wesolowski, Amy 0408, 0650, 1110, 1180
Wesson, Paul 0648
West, Ande 1386
Westercamp, Nelli 0417, 0710
Westerveld, Rosie 0978
Westin, Anne 0827
Weston, Sophie 0418
Westreich, Daniel 1109
Wetzler, Erika 0223, 0438, 1108
Whalen, Meghan 0213, 0641, 1057, 1066, 1147
Wharton-Smith, Alexandra 1275
Wheelock, Alyse 0345, 0778
Whidden, Caroline 0440, 0660
Whitbeck, J. Charles 0597
White, Austin P. 0503
White, Bailey 0002, 0003
White, Laura J. 1021
White, Michael 0738, 0886
White, Mitchell 0900
Whitehead, Stephen 1317
Whitehead, Stephen S. 0163, 1024
Whitesell, Amy 0424
Whitfeld, Margot 0869
Whitfeld, Margot J. 0993
Whitfield, Kate 0082, 0083
Whitman, Jeffrey D. 0381
Whitman, Timothy J. 0380
Whitmer, Shannon 0514, 0526
Whitney, Cynthia 0461, 0461
Whitney, Cynthia G. 0392, 0462, 0515
Whitney, Cynthia G. 1324
Whitson, Cassidy 1203
Whitty, Christopher J. M. 0444
Wicha, Sebastian G. 0001
Wickham, Kristina 0220
Wickle, Kimiko 0963
Wickramasinghe, S. S. 0517, 0524
Wickramasinghe, Susiji 0351
Wiebe, Madeleine 1165
Wiedmaier, Paul S. 0939
Wiegand, Ryan 0233, 1012
Wiegand, Ryan E. 0352, 0355, 1263, 1322
Wielick, Constance 0024
Wijayamuni, Ruwan 0584
Wijayanandana, Nayantara 0584, 1029
Wijayaratne, W. M. D. G. B. 0517, 0524
Wijayaratne, Weerasinghe M. D. G. B. 0805
Wijewickrama, Ananda 1022
Wiladphaingern, Jacher 0464
Wilder, Brandon 0292
Wilder, Brandon K. 1114
Wilding, Kristen M. 0671, 1116
Wiles, Melissa 0754
Wiley, Michael 0003, 0152, 0514, 0526, 1205
Wiley, Michael R. 0002
Wilhelm, Aude 1232
Wilkerson, Matthew 0020
Wilkins, Justin 0856
Willaert, Jean-Francois 0024
William, Nwachukwu 0022
William, Timothy 0444, 0624
Williams, Camille 0824
Williams, Chris 0360, 0361
Williams, Christopher G. 0901
Williams, Craig 0109, 0477
Williams, Desmond 0621
Williams, Ignatius 1193
Williams, Jazmean K. 0472
Williams, Nicola 0418
Williams, Steven 0875
Williams, Steven A. 0398, 0874, 0877
Williams-Gibson, Williamatta S. 0621
Williams-Gibson, Williametta 0097
Williamson, Deborah 0425
Williamson, Kim C. 0020
Wils, Madlyn 0989
Wilson, Herieth I. 0370
Wilson, Ian 1170
Wilson, Mark L. 0327, 0931, 1183
Wilson, Mary 1340
Wilson, Mary E. 0114
Wilson, Sarah N. 0892
Wilson, Sean 0100, 0276, 1161
Wilson, Timothy R. 0929, 1360
Wilson, William C. 0005
Wilson-Goldsmith, Jaimie 0371
Win, Khin Than 0289, 0722
Win, Kyawt Mon 0731
Winasti Satyagraha, Ari 1083
Winch, Peter 0898
Winch, Peter J 0825
Windsor, William J. 0108, 0171
Winfield, Ashlea 0806
Winkel, Munir 0263, 0928
Winkle, Peter 0162
Winkler, Martin A. 0376
Winn, Amanda 1209
Winnett, Alexander 0975
Winstanley, Geoffrey 0171
Win Tun, Nay 0464
Winzeler, Elizabeth 0195, 0221, 1061
Winzeler, Elizabeth A. 0222, 0457
Wirth, Dyann 0195, 0221
Wirth, Dyann F. 0222, 0254, 0416, 0457, 0926, 1061, 1087
Wiru, Kenneth 1160
Wise, Jessica 1388
Wisely, Samantha 0986
Wisely, Samantha M. 0991
Witch, Kathryn 0643
Witkowski, Benoit 0881
Wittberg, Dionna M. 1323
Witte, Tyler 1080
Wodon, Sophie 1144
Wofford, Rachel 0110, 0117, 0541
Wofford, Rachel N. 0533
Wojnarski, Mariusz 0653, 0653, 1062, 1083
Woldeghebriel, Meley 0787
Wolf, Katherine 0279, 0703, 0724
Wolfe, Leanne 0208, 0509, 0719
Wolford, Hannah 0027
Wolie, Rosine Z. 0550
Won, Kimberly Y. 0355, 0488
Wondafrash, Mekitie 0961
Wong, Evelyn 0409
Wong, Joshua M. 1023
Wong, Marcus 0469
Wong, Teri 0611
Wong, Wesley 0254, 0696, 0926, 1087
Wong, Wilson 0238
Wongarunkochakorn, Saowaluk 0653, 1062
Woodfill, Celia J. 0012, 0744
Woodford, John 0299, 0906, 1255, 1262
Woodruff, Patrick 0424
Woods, C. 0517, 0524
Woods, Christopher W. 0805
Woolheater, Katelyn 0064
Woolhouse, Mark 1284
Worachet, Kuntawunginn 1083
Worsham, Anthony 1258, 1347, 1384, 1385
Worthington, Delaney 0967, 0969
Wressnigg, Nina 0143, 0848
Wright, Alexandra 0957
Wright, Katherine 0272, 1390
Wright, Natasha C. 0899
Wu, Alan H. B. 0530
Wu, Angie 1143
Wu, Hannah 1272
Wu, Hannah W. 1113, 1174
Wu, Lindsey 1159
Wu, Wesley 0530
Wu, Yimin 0639
Wudiri, Kucheli 0104, 0106
Wuehrer, Manfred 0448
On behalf of WWARN Haemoglobin-Haematocrit study group 0695
Wylie, Blair 0422
Wyllie, Susan 0195
Wynne, Klaas 0746

X

Xavier, Marcelo Antônio P. 0845
Xi, Zhiyong 0935
Xia, Siyang 1035
Xia, Zhi-Gui 0735
Xu, Erin 0275
Xu, Jiannong 0130
Xu, Peng 1296
Xu, Shulin 0247
Xue, Jing-Bo 0735

Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

The number(s) following the author name indicates the abstract number.

See page 278 for the list of speakers and session chairs in Plenary and Symposium Sessions.

Y

Yabu, Siub 0567
Yacouba, Nombre 0209
Yadav, Prakrati 0574
Yadav - Malawi SmartNet Initiative, Vipin 0311, 0730
Yahathugoda, Channa 0351
Yahaya, Sylla 1034
Yahimbu, Martha W. 0076
Yalkinoglu, Oezkan 0856
Yam, Abdoulaye 0002
Yamashiro, Livia 0470
Yamo, Emmanuel 0630
Yamonn, Nyo 0429
Yan, Guiyun 0748, 0883, 0912, 1007, 1104, 1132, 1309
Yan, Jennifer 0038
Yan, Lily 0779
Yan, Shirley 1161
Yang, Changmei 0204
Yang, Feng 1078
Yang, Jane 0660
Yang, Xiaowei 0134, 0136
Yang, Yu 0615
Yangyupei Yang, Jade 0943
Yankurije, Marthe 0506
Yannelle, Dossou A. Noubilé. Glwadys. 1097
Yanow, Stephanie 1165
Yanulis, John 0713
Yap, Nan Jiun 0044
Yar, Aqsa 1083
Yared, Solomon 0933
Yarosevich, Trent 1273
Yasmin, Farah 0159
Yattara, Mohamed L. 0040
Yattara, Oumar 1139
Yazdanpanah, Atta 0047
Ye, Maurice 0288, 0706
Ye, Yazoume 0068, 0069, 0288, 0442, 0706, 0715
Yeasmin, Dalia 0078, 0093
Yeasmin, Farzana 0825
Yeboah, Clara 1205
Yeda, Redemptah 1060
Yego, Reuben 0296
Yeka, Adoke 1137, 1157, 1195
Yeo, Tomas 0923
Yerbanga, Serge 1281
Yeung, Shunmay 0774, 0903, 1216
Yeung, Stephen T. 0146
Yewhalaw, Delenasaw 0226, 0883, 0912, 1104, 1309
Yi, Chenda 0147, 0156
Yibayiri, Osee 0514
Yildirim, Inci 0809
Yilma, Daniel 0629
Yin, Xiaoyan 0856
Yingling, Alexandra 1116
Yingling, Alexandra V. 0608, 1258, 1347, 1384, 1385
Yoboue, Charlene 0631
Yoboue, Charlene Aya 0879
Yogeswaran, Gowsika 0741
Yohannes, Gedeon 1012
Yoshihide, Maekawa 0585
Yoshimizu, Melissa 0310
Yoss, Sarah 0291
Yossef, Alemtaye 0295
Yotebieng, Marcel 0007
Youll, Susan 0716
Young, Alyssa J. 0698
Young, Colin N. 1169, 1172
Young, Ellen 0579, 1316
Young, Garrett 0496
Yount, Boyd 1316
Yousafzai, Mohammad T. 1297
Youssouf, Ahamadou 0842
Yovogan, Boulais 0225, 0547
Yu, Hang 1078
Yu, Sushan 0494
Yu, Ting 1016
Yujuico, Isabelle 1038
Yukich, Joshua 0248, 0283, 0883
Yun, Cassandra 0530
Yun, Sung-Cheol 0178
Yung, Mimi 0129
Yusuf, Aishatu 1046
Yusuf, Ocheche 0443

Z

Zablon, Karen N. 0308
Zabre, Pascal 0794
Zacks, Rachael 0098
Zagal, Esperanza 0763, 0765, 0766
Zagorski, Andre 0962
Zahan, Afroz 0078
Zahari, Marina 1254
Zahouli, Julien Z. B. 1011
Zahralban-Steele, Melissa 0160, 0161
Zahreddine, Monica 1020
Zaidi, Irfan 0422, 0447, 0906, 1167, 1175, 1255, 1262
Zaidi, Syeda Quratulain 0067, 0102, 0979
Zaitchik, Benjamin 0062
Zaldana, Kimberly 1313
Zaman, Sharmeen 1052
Zaman Allah, Mamane Sani 0997
Zamani, Ghasem 0626
Zamble, Bi Zmable H. 0113
Zambrana, Jose Victor 0826
Zambrana2, Luis E. 0330
Zamilou, Abdoul 0407
Zandamela, Edson 1278
Zanga, Josué 1149
Zanghi, Gigliola 0413
Zárate-Sulca, Yanina 0984
Zarko, Li-av Segev 1404
Zavala, Fidel 0686, 1172
Zaw, Aung Ko Ko 0700
Zawolo, Jethro S. W. 0362
Zaya, Kyaw 0286
Zayats, Romaniya 0047
Zayed, Alia 0561
Zebin, Fahamida N. 0520
Zedi, Maato 1091
Zegiume, Amatigue 0422, 1262
Zeguime, Amatigue 0421, 0906, 1255
Zela, Lamidi 0307, 0750
Zeleke, Ayalew 1240
Zeleke, Mesfin 0951
Zellweger, Raphaël M. 0033
Zemene, Endalew 0883
Zeña-Ñañez, Sandra 0761
Zendejas-Heredia, Patsy 1237
Zengel, James 0470
Zeno, Erica E. 0650
Zepeda, Omar 0596, 0860, 0893, 1039, 1040
Zerihun, Mulat 1321
Zerihun, Tsegahiwot Berhanu 0270
Zeru, Taye 1321, 1323
Zeweli, Mebrahtom H. 0262
Zhan, Bin 0485, 0486, 1228
Zhan, Wenhu 0203, 0204
Zhang, Baoshan 1168
Zhang, Han 0882
Zhang, Hao 0203, 0204
Zhang, Jun 0735
Zhang, Li 0735
Zhang, Min 0247
Zhang, Wenwei 1335
Zhang, Xu 0016, 0415
Zhang, Yaobi 0037, 0040, 0356, 0357, 0436, 0795, 0796, 0798
Zhang, Ying 1394
Zhao, Mervin 0024
Zhao, Serena Y. 0569
Zhao, Yan 0670
Zheng, Hong 0980
Zheng, Jie 0060
Zhou, Guofa 0453, 1250
Zhou, Hong-Ning 0735
Zhou, Shui-Sen 0735
Zhou, Weidong 1378
Zhou, Xiao-Nong 0735
Zhu, Daming 0421
Zhu, Deanna 1316
Zhu, Deanna R. 0579
Zhu, Songbiao 0204
Zhu, Xiaotong 0852
Zhu, Yerun 0595
Zhuang, Yan 1254
Zida, Sylvie 1213
Ziegler, Thomas R. 1326
Ziguime, Amatigue 0299
Zimic, Mirko 0812, 1253
Zimmerman, Dawn 0110, 0117, 0119, 0122, 0532, 0533, 0534, 0536, 0541
Zimmerman, Peter 0954, 1082
Zimmermann, Marita 0927
Zimro, Amina 0070
Zimsen, Stephanie R. M.. 1273
Zin, Khin Thant 0700
Zini, Nathalia 1315
Zinihite, Julie 0993
Zinsou, Boris Enock 0625
Zinszer, Kate 1020, 1086
Zogo, Barnabas 0265, 0740
Zohdy, Sarah 0184, 0755, 0933, 1012, 1013, 1186
Zohura, Fatema 0827, 0863
Zoihsl, Oliver 0143, 0848
Zoleko, Rella M. 0439
Zongo, Issaka 1281
Zongo, Soumanaba 1192, 1354
Zou, Xiaoyan 0419, 1162
Zoungrana, Charles 1281
Zuliema, Pava 0857
Zulu, Siphosenkosi G. 0050
Zulu, Zulisile 0739
Zunza, Albertino 0290
Zupko, Robert 0257
Zureick, Kinda 1256
Zuromski, Jenna 1174
Zurovac, Dejan 0714
Zwick, Erin 0689

ASTMH

AMERICAN SOCIETY OF TROPICAL MEDICINE & HYGIENE

ADVANCING GLOBAL HEALTH SINCE 1903

MARK YOUR CALENDAR!

2022 Annual Meeting
October 30 - November 3, 2022
(Sunday through Thursday)
Washington State Convention Center
Seattle, Washington

2023 Annual Meeting
October 18-22, 2023
(Wednesday through Sunday)
Hyatt Regency Chicago
Chicago, Illinois

2024 Annual Meeting
October 23-27, 2024
(Wednesday through Sunday)
New Orleans Ernest N. Morial Convention Center
New Orleans, Louisiana

2025 Annual Meeting
November 9-13, 2025
(Sunday through Thursday)
Metro Toronto Convention Centre
Toronto, Ontario, Canada

astmh.org

ASTMH
AMERICAN SOCIETY OF TROPICAL MEDICINE & HYGIENE
ADVANCING GLOBAL HEALTH SINCE 1903