

SIXTY-SEVENTH ANNUAL MEETING

Sheraton New Orleans and New Orleans Marriott | New Orleans, LA USA

October 28 – November 1, 2018

“There will be epidemics...”

EBOLA: WORLD GOES ON RED ALERT

Six Dead, 17 Sick From
Drug-Resistant TB
-2017

**Panic as
1,500
Die of
Malaria**

Spread of Spanish Flu Menaces War Production

Cholera Epidemic
in Yemen Now
Affects One
Million People
-2017

Charity to Help Fight
Malaria in Africa
-2010

Ebola Out of Control
-2014
Death Toll Growing as Influenza
Claims Many Score Victims
-1918

Success in Tests of Yellow
Fever Serum Reported
-1932

-1898

**Brace for
Dengue**

**Dengue Dengue
EVERYWHERE**
-2017

Officials: Texas Sees Growing
Number of Typhus Cases
-2017

**FDA Busts Fake
Malaria Medicines**
-2013

New Hope
for AIDS Drug
-1996

African Countries to Plot New Malaria Vaccine

**ZIKA THREAT
ON OUR
DOORSTEP**
-2016

**DIPHTHERIA:
Why Is It Back?**
-2017

Zika Spreads Worldwide
-2016

**Island Declares State of Emergency
Over Zika Virus, Dengue Fever Outbreak**
-2016

**ASTMH Annual Meeting
Canceled Due to
Spanish Flu Outbreak**
-1918

**QUARANTINE WANTED
as Yellow Fever Spreads**
-1878

An American
Plague:
Yellow Fever
Epidemic of 1793
-2005

Been to an Ebola-affected country?
Stay away from ASTMH meeting, Louisiana says
-2014

Malaria Cases
on the Rise in
Last 3 Years
-2016

astmh.org ajtmh.org #TropMed18



Supplement to
The American Journal of Tropical Medicine and Hygiene

BEHIND THE 2018 ANNUAL MEETING DESIGN

This year's Annual Meeting design recognizes the 100th anniversary of the influenza pandemic, also called the Spanish flu. It is comprised of real headlines on infectious disease outbreaks over the last three centuries.* Each headline notes its publication date, ranging from "Quarantine Wanted as Yellow Fever Spreads" in 1878 to "Cholera Epidemic in Yemen Now Affects One Million People" in 2017.

At the top of the design is the phrase, "There will be epidemics...", an excerpt of a quote from Society President Regina Rabinovich, MD, in January 2018. At that time, she was offering her forecast of what 2018 will bring in terms of tropical infectious diseases: "There will be epidemics ... somewhere.... because we face these every year."

*(*The headline "ASTMH Annual Meeting Canceled Due to Spanish Flu Outbreak" was created for this design and while the meeting was canceled for this reason, we are not aware of any headline in a publication.)*

Welcome to TropMed18, our annual assembly of stimulating research, clinical advances and special lectures from the brightest scientific experts and thought leaders in tropical medicine and global health!

Our keynote speaker is Dr. Matshidiso Moeti, WHO Regional Director for Africa. Dr. Regina Rabinovich will deliver the President's Address. Other highlighted speakers include Dr. Beth Kirkpatrick delivering the Charles Franklin Craig Lecture, Dr. Kelly Chibale delivering the Commemorative Fund Lecture and Dr. David C. Christiani delivering the Vincenzo Marcolongo Memorial Lecture.

Walgreens' Get a Shot. Give a Shot.® has returned for 2018. Get your free flu shot on site and, for each one, Walgreen's will provide a lifesaving vaccine to a child in need via the UN Foundation's Shot@Life campaign.

We offer a number of novel new sessions and bonus features this year to inspire, motivate and intrigue:

- Look for images from the Smithsonian National Museum of Natural History's current exhibit, "Outbreak: Epidemics in a Connected World," displayed throughout the Sheraton and Marriott.
- On Tuesday evening, attend a special session on "Tackling Outbreaks" with global leaders who shape the world's outbreak responses (and will look into their crystal balls to tell us what we can expect in the future).
- Want to get out of the hotel? Enjoy "Global Health by the Pint" to be held off-site at The Vintage café and bar, 7-9 PM, on Monday, Tuesday and Wednesday. Come support your friends and colleagues and share your work with local New Orleanians.
- Want something different? Tune into the "Shark Tank"-style outbreak innovations pitch competition.
- Young and early-career investigators will benefit from workshops on manuscript writing and communications training.
- The "Tropical Bookshelf" will feature award-winning authors Richard Preston and Doug Preston.
- As part of ASTMH's new Community Outreach program, we'll be inviting local high school students to get an introduction to tropical medicine and global health by attending our meeting and speaking to researchers in person.

All this is, of course, in addition to all the other great science you have come to expect, along with free Wi-Fi and meeting App, and webcasts (MP4 recordings) of every session available to attendees within 48 hours after a session has taken place.

Lastly, thanks to our sponsors and exhibitors, who make all the above possible. Check out their offerings and information at the Opening Reception, along with complimentary food and drink, all with a special New Orleans flair.

Glad you have joined us.



Daniel Bausch

Daniel G. Bausch, MD,
MPH&TM, FASTMH
Scientific Program Chair



Regina Rabinovich

Regina Rabinovich, MD
President



Karen A. Goraleski

Karen A. Goraleski
Executive Director

Bienvenidos a TropMed18, nuestro encuentro anual de investigación estimulante, avances clínicos y conferencias especiales de los expertos científicos más brillantes y líderes concienzudos en medicina tropical y salud global.

Nuestra oradora clave es la Dra. Matshidiso Moeti, Directora regional de la OMS para África. La Dra. Regina Rabinovich dará el Discurso del Presidente. Otros oradores destacados incluyen a la Dra. Beth Kirkpatrick que dará la Conferencia Charles Franklin Craig, el Dr. Kelly Chibale que dará la Conferencia del Fondo Conmemorativo, y el Dr. David C. Christiani que dará la Conferencia Homenaje Vincenzo Marcolongo.

Get a Shot. Give a Shot.® de Walgreen's ha vuelto para 2018. Reciba su vacuna contra la gripe gratis en el sitio y, por cada uno, Walgreen's proporcionará una vacuna que salva vidas para un niño necesitado a través de la campaña Shot@Life de UN Foundation.

Ofrecemos muchas nuevas sesiones noveles y atractivos extras este año para inspirar, motivar e intrigar:

- Busque imágenes de la exposición actual del Museo Nacional de Historia Natural de Smithsonian Institute, "Outbreak: Epidemics in a Connected World", exhibido en Sheraton y Marriott.
- El martes a la tarde, asista a una sesión especial sobre "Tackling Outbreaks" con líderes globales que determinan las respuestas ante los brotes del mundo (y mirarán sus bolas de cristal para decirnos lo que podemos esperar en el futuro).
- ¿Quiere salir del hotel? Disfrute de "Global Health by the Pint" que se realizará fuera del sitio en el café bar The Vintage de 7 a 9 p.m., el lunes, martes y miércoles. Venga a apoyar a sus amigos y colegas y compartir su trabajo con los habitantes locales de Nueva Orleans.
- ¿Quiere algo diferente? Sintone la competencia de innovaciones sobre brotes al estilo "Shark Tank".
- Los investigadores jóvenes y noveles se beneficiarán con talleres sobre escritura manuscrita y capacitación en comunicaciones.
- "Tropical Bookshelf" presentará a los autores premiados Richard Preston y Doug Preston.
- Como parte del programa Community Outreach de ASTMH, invitaremos a los estudiantes de la escuela secundaria local a recibir una introducción a la medicina tropical y salud global asistiendo a nuestra reunión y hablando con los investigadores personalmente.

Por supuesto, a todo esto se suma toda la otra excelente ciencia que usted esperaba, junto con Wi-Fi gratis y App de reuniones, y emisiones por Internet (grabaciones en MP4) de cada sesión disponible para los asistentes dentro de las 48 horas posteriores a la realización de una sesión.

Por último, gracias a nuestros patrocinadores y expositores que hacen posible todo lo anterior. Consulte sus ofertas e información en la Recepción de Apertura, junto con comida y bebida de cortesía, todo con un estilo especial de Nueva Orleans.

Felices de que nos hayan acompañado.



Daniel G. Bausch, MD,
MPH&TM, FASTMH
Scientific Program Chair



Regina Rabinovich, MD
President



Karen A. Goraleski
Executive Director

Bienvenue à TropMed18, notre assemblée annuelle de conférences sur les recherches stimulantes, les avancées cliniques et les spécialités données par les plus brillants experts scientifiques et leaders d'opinion en médecine tropicale et en santé mondiale !

Notre conférencière principale est la Dr Matshidiso Moeti, Directrice régionale de l'OMS pour l'Afrique. Le Dr Regina Rabinovich prononcera le discours de la présidente. Parmi les autres conférenciers invités, mentionnons la Dr Beth Kirkpatrick qui a été choisie pour présenter la conférence Charles Franklin Craig, la Dr Kelly Chibale qui a été choisie pour présenter la conférence du Fonds commémoratif et le Dr David C. Christiani qui a été choisi pour présenter la conférence Vincenzo Marcolongo.

La campagne de vaccination « Get a Shot. Give a Shot.® » (Recevez et donnez un vaccin) de Walgreens signe son retour en 2018. Faites-vous vacciner gratuitement contre la grippe sur place et, pour chacun, Walgreen's fournira un vaccin qui sauvera la vie d'un enfant dans le besoin grâce à la campagne Shot@Life de la Fondation des Nations Unies.

Cette année, nous offrons un certain nombre de nouvelles sessions et de nouveaux bonus pour inspirer, motiver et intriguer :

- Recherchez des images de l'exposition actuelle du Musée national d'histoire naturelle de la Smithsonian Institute, intitulée "Outbreak : Epidemics in a Connected World" (épidémies dans un monde connecté) disponibles dans tous les hôtels Sheraton et Marriott.
- Mardi soir, assistez à une session spéciale sur le thème « Tackling Outbreaks » (Lutter contre les épidémies) avec les dirigeants du monde entier qui formulent des ripostes aux épidémies mondiales (et regarderont dans leurs boules de cristal pour nous dire à quoi nous pouvons nous attendre dans le futur).
- Vous voulez sortir de l'hôtel ? Profitez de l'événement « Global Health by the Pint » (parlons santé mondiale autour d'une pinte !) qui se tiendra hors de l'hôtel au café et bar The Vintage, de 19 h à 21 h, les lundi, mardi et mercredi. Venez soutenir vos amis et collègues et faire part de votre travail aux habitants de la Nouvelle-Orléans.
- Vous voulez quelque chose de différent ? Ne manquez pas le concours de promotion des innovations en matière de lutte contre les épidémies de type « Shark Tank ».
- Les jeunes chercheurs de même que ceux en début de carrière bénéficieront d'ateliers sur la rédaction de manuscrits et la formation en communication.
- Les auteurs Richard Preston et Doug Preston, lauréats de plusieurs prix, seront à l'honneur à la « Tropical Bookshelf » (La bibliothèque tropicale).
- Dans le cadre du nouveau programme de sensibilisation communautaire de l'ASTMH, nous inviterons les élèves des lycées locaux à se familiariser avec la médecine tropicale et la santé mondiale en assistant à notre réunion et en échangeant en personne avec les chercheurs.

Vous pourrez bien sûr profiter de tous ces événements, en plus de toutes les autres grandes sciences auxquelles vous vous attendez, ainsi que des applications sans fil et de rencontres gratuites et des webcasts (enregistrements MP4) de chaque session qui seront disponibles aux participants 48 heures après la fin de la session.

Enfin, nous tenons à remercier nos sponsors et exposants, sans qui rien de tout cela n'aurait été possible. Consultez leurs offres et renseignements à la réception d'ouverture, ainsi que la nourriture et les boissons gratuites proposées, le tout avec une saveur spéciale typique de la Nouvelle-Orléans.

Nous sommes ravis de savoir pouvoir vous compter parmi nous.



Daniel G. Bausch, MD,
MPH&TM, FASTMH
Scientific Program Chair



Regina Rabinovich, MD
President



Karen A. Goralowski
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September 7, 2018

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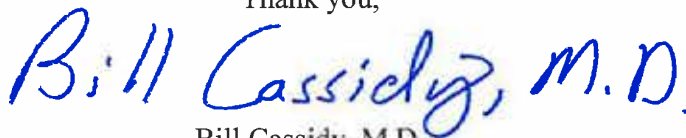
American Society of Tropical Medicine and Hygiene:

To everyone attending the American Society of Tropical Medicine and Hygiene annual conference, welcome to Louisiana. As a doctor, I understand how important your work is, and the tremendous impact it has on millions of people around the world. Recent crises involving Ebola and Zika, along with the current cases of West Nile in Louisiana, highlight the need for your expertise and collaboration on these critical issues.

I am told over 4,000 tropical medicine and global health specialists are in attendance. I appreciate your vigilance, and I am glad we have experts like you working on the next vaccine, cure or preventative measure that will help keep people healthy and safe.

I hope you all have a successful conference and look forward to hearing of your success. As you continue your work, if there is any way my office can assist you, please let us know.

Thank you,



Bill Cassidy, M.D.
United States Senator

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ENTREPRENEURSHIP

September 13, 2018

To Members of the American Society of Tropical Medicine and Hygiene (ASTMH):

Welcome to New Orleans, Louisiana, and thank you for choosing Louisiana as the destination for your annual conference. You'll come to find that New Orleans is rich in culture, cuisine, and warm Southern hospitality. I hope you enjoy your stay.

I commend your efforts to promote public health across the globe and recognize that the research ASTMH has gathered is critical to reducing the worldwide burden of tropical infectious diseases. However, I know that the work you do also benefits Americans at home. Historically, Louisiana has been susceptible to tropical diseases such as malaria, cholera, and yellow fever. With the emergence of new tropical diseases, ASTMH's research and advocacy is vital to saving lives at home and abroad.

Thank you again for the great work you are doing. I look forward to hearing about the progress made by your membership at ASTMH's 67th annual conference.

Sincerely,



John Kennedy
United States Senator

SCHOOL OF PUBLIC HEALTH AND TROPICAL MEDICINE

Thomas A. LaVeist, PhD
Dean and Weatherhead Presidential Chair in Health Equity

Dear Researchers, Scientists, Clinicians, and Global Health Practitioners:

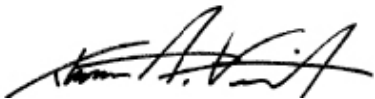
It is my great pleasure to welcome you all again to New Orleans!

As the new dean of Tulane's School of Public Health and Tropical Medicine, I'm honored to be leading one of the foundational institutions in the field of public health in the United States. Tulane's roots in tropical medicine go even deeper, to our founding in 1834 as an institution to combat the diseases plaguing New Orleans: cholera, yellow fever, malaria, and smallpox. We are proud that this legacy continues in our global workforce training and research that improves the lives of those around the world.

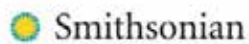
This is a critical time in global health and tropical medicine. Novel infectious diseases can become worldwide concerns now in a matter of days, and vector-borne illnesses are spreading wider and faster than ever before. More than at any time in history, we have better tools and methods to combat these threats to health and well-being thanks to ASTMH and its members. New Orleans is the ideal location for TropMed18 to bring together professionals at all levels to advance innovations and develop methods to deliver them to those impacted most by these devastating diseases.

With the meeting located at two collaborating hotels along Canal Street, you are at the meeting place of history and the modern era. I hope you will take the time, as I have, to explore the many fine restaurants and attractions that are steps away from the Sheraton and Marriott. I know that the sights, sounds, flavors, and ambiance of this great city, coupled with the cutting-edge science and information you'll find in the seminars, will refresh and renew you for the pressing work ahead.

Best regards,

A handwritten signature in black ink, appearing to read "Thomas A. LaVeist".

Thomas A. LaVeist, PhD
Dean
Weatherhead Presidential Chair in Health Equity



October 2018

Dear Friends,

The Smithsonian's National Museum of Natural History welcomes you to the 2018 Annual Meeting of the American Society of Tropical Medicine and Hygiene in New Orleans, where thousands of tropical infectious disease experts are gathering to share the latest in research findings. We applaud this international gathering that provides a forum for scientific discourse and the free exchange of ideas around tropical infectious disease – diseases that demonstrate that the health of humans, other animals and the environment are all intertwined.

The Smithsonian's new exhibit, *Outbreak: Epidemics in a Connected World*, is a perfect complement to this annual gathering. Open through 2021, *Outbreak* brings to life the work of "disease detectives" and the concept of "One Health", which are familiar to you but quite unknown to millions of visitors to the Smithsonian. Images, stories, and personal perspectives throughout the exhibit capture the work of epidemiologists, veterinarians, public health workers and citizens of all ages and origins as they rush to identify, contain, and prevent infectious disease outbreaks. Case studies of HIV/AIDS, Ebola virus, and influenza highlight the social and emotional fallout of outbreaks—for patients, their loved ones and society overall. Here in the Marriott and the Sheraton meeting spaces, the exhibit is represented in its free, translatable, and customizable form, *Outbreak DIY*, a toolkit for community use that we are sharing worldwide.

Wishing you a successful meeting.

Sabrina Sholts

Sabrina Sholts, PhD
Curator of Biological Anthropology
Lead Curator of *Outbreak: Epidemics in a Connected World*
National Museum of Natural History
Smithsonian Institution

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Michael Gottlieb, PhD

Thomas C. Greene, Jr.

Joel Moss, MD, PhD

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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.



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 near the entrance of 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
- The Clinical Consultants Directory – a listing of physicians who offer clinical consultative service in tropical medicine, medical parasitology and travelers' health
- 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*

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

Professional Development Opportunities

- Funding, fellowship and sponsorship opportunities tailored to members' specific research and clinical needs
- Innovative Annual Meeting
- Access to the leading minds working and studying in tropical medicine today
- 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 Council, subgroup and committee participation

Affiliate Members



Patron

Thank You

Peter Melby, Professor; Director, UTMB Center for Tropical Diseases, Department of Internal Medicine, Division of Infectious Diseases, University of Texas Medical Branch

Membership Dues

Student (Undergraduate, Graduate, Pre-Doctoral): **\$15**

Trainee (Post-Doctoral, Resident, Fellow): **\$25**

Regular Member: **\$250**

Regular Member: Low/Lower-Middle Income Countries: **\$25**

Fellow of ASTMH (FASTMH): **\$50** voluntary contribution

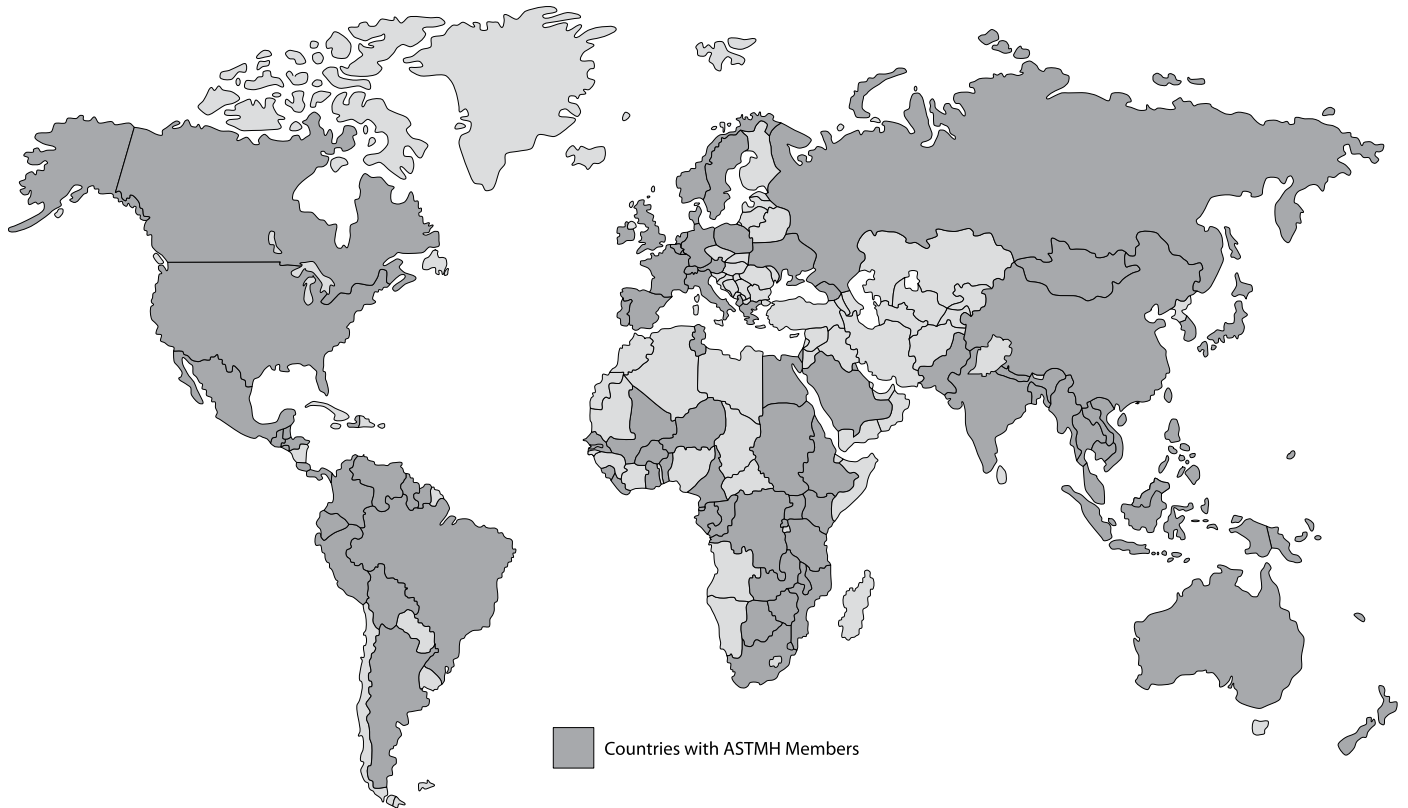
Lifetime: **\$4,600**

Welcome ASTMH Members 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.

ASTMH Members Across Six Continents



- | | | | | |
|--|--------------------|-------------------------------------|-------------------|-----------------------------|
| Afghanistan | Denmark | Iraq | Pakistan | Taiwan R.O.C. |
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| Argentina | Ecuador | Israel | Panama | Thailand |
| Australia | Egypt | Italy | Papua New Guinea | Trinidad and Tobago |
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| | India | Nigeria | Sweden | |
| | Indonesia | | Switzerland | |

ASTMH 67th Annual Meeting

Sunday, October 28, 2018

	Sheraton – Waterbury	Sheraton – Rhythms I	Sheraton – Rhythms II	Sheraton – Rhythms III	Sheraton – Napoleon Ballroom	Sheraton – Nottoway	Sheraton – Oak Alley	Sheraton – Grand Couteau	Sheraton – Grand Ballroom A	Sheraton – Grand Ballroom B
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		Medical Entomology Pre-Meeting Course P. 88								
Noon – 12:30 p.m.			Young Investigator Award Session B P. 90	Young Investigator Award Session C P. 92		Young Investigator Award Session D P. 93	Young Investigator Award Session A P. 89	Young Investigator Award Session E P. 94		ASTMH Communications Training Workshop P. 95
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.									First-Time Attendee Orientation P. 98	
3:30 – 4 p.m.										
4 – 4:30 p.m.	Student Reception									
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.					Opening Reception and Exhibits					
8 – 8:30 p.m.										
8:30 – 9:30 p.m.										

ASTMH 67th Annual Meeting

Sunday, October 28, 2018

	Sheraton – Grand Ballroom D	Sheraton – Grand Ballroom E	Sheraton – Armstrong Ballroom	Sheraton – Orpheus	Marriott – Preservation Hall Studio 1	Marriott – Preservation Hall Studio 2	Marriott – Grand Ballroom	Marriott – Bonaparte	Marriott – Iberville	Marriott – Galvez			
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						ACAV SIE Meeting							
Noon – 12:30 p.m.	Global Health Pre-Meeting Course P. 86	Parasitology Pre-Meeting Course P. 84	Clinical Pre-Meeting Course P. 85	Elsevier Clinical Research Award P. 96		ACAV SIRACA Meeting							
12:30 – 1 p.m.													
1 – 1:30 p.m.													
1:30 – 2 p.m.													
2 – 2:30 p.m.						ACAV SALS Meeting							
2:30 – 3 p.m.													
3 – 3:30 p.m.													
3:30 – 4 p.m.													
4 – 4:30 p.m.					ACMCIP Council Meeting	ACAV Council Meeting		ACGH Council Meeting	ACME Council Meeting	Clinical Group Council Meeting			
4:30 – 5 p.m.													
5 – 5:30 p.m.													
5:30 – 6 p.m.							Opening Plenary Session and Awards Program P. 98						
6 – 6:30 p.m.													
6:30 – 7 p.m.													
7 – 7:30 p.m.													

Online Meeting Program

Search the Annual Meeting program online by abstract keyword, title, subject, author and/or presentation time at astmh.org/annual-meeting. The full text of all abstracts, including Late-Breaker Abstracts, can be found in the Online Program Planner.

Meeting App

Download the meeting app for easy access to all ASTMH program information. Use the app to view the meeting schedule, session and presenter information, full abstracts, exhibitors, maps and Twitter feed.

Program Changes

Times and/or locations of activities or sessions are subject to change. Please check the meeting app for program changes.

Online Abstract Book

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ASTMH 67th Annual Meeting

Monday, October 29, 2018

	Sheraton – Napoleon Ballroom	Marriott – Grand Ballroom	Sheraton – Rodrigue Gallery	Sheraton – Waterbury	Sheraton – Rhythms	Sheraton – Grand Ballroom AB	Sheraton – Grand Ballroom C	Sheraton – Grand Ballroom DE
8 – 9:45 a.m.				2 Scientific Session Filariasis: Epidemiology and Control I P. 100		3 Symposium ACAV I Business Meeting, Awards and Research Presentations P. 101	4 Symposium Clinical Group I P. 101	5 Scientific Session Bacteriology: Cholera P. 103
9:45 – 10:15 a.m.	Coffee Break	Poster Session A Setup						
10:15 a.m. – Noon		Poster Session A Viewing	11 Scientific Session Malaria Epidemiology: Progress in Advancing Surveillance, Measurement and Modeling P. 108	12 Scientific Session Filariasis: Epidemiology and Control II P. 109	13 Symposium Innovations for Mitigating Response to Outbreak-Prone Diseases: A Challenge to ASTMH Members P. 110	14 Symposium ACAV II History of Arbovirology P. 110	15 Symposium Clinical Group II P. 111	16 Symposium Social Science Research in Tackling Antimicrobial Resistance in LMICs P. 111
Noon – 12:15 p.m.								
12:15 – 12:30 p.m.								
12:30 – 12:45 p.m.	Exhibit Hall Open and Light Lunch	22 Poster Session A Presentations and Light Lunch P. 116						
12:45 – 1:30 p.m.								
1:30 – 1:45 p.m.								
1:45 – 3:30 p.m.	Exhibits Open 3:15 – 4:15	Poster Session A Viewing	26 Scientific Session Bacteriology: Other P. 164	27 Symposium Test-and-Not- Treat Strategy for Onchocerciasis Elimination in Loiasis Co-endemic Areas P. 164	28 Scientific Session Clinical Tropical Medicine I P. 165	29 Scientific Session Chikungunya and Other Alphaviruses P. 166	30 Symposium Roadmap for Ivermectin as a Complementary Vector Control Tool for Malaria P. 167	31 Symposium ACGH I: The Local-Global Phenomenon of mHealth P. 168
3:30 – 4 p.m.	Coffee Break							
4 – 5:45 p.m.		Poster Session A Dismantle	38 Scientific Session Soil-Transmitted Helminths: Biology and Immunology P. 173	39 Symposium 100,000 Papers Later: Etiology of Non-Malarial Febrile Illnesses P. 174	40 Scientific Session Clinical Tropical Medicine II P. 174	41 Scientific Session Viral Hemorrhagic Fevers P. 175	42 Symposium Alan J. Magill Malaria Eradication Symposium P. 176	43 Symposium ACGH II: Building a Successful Career in Global Health P. 177
5:45 – 6:15 p.m.								
6:15 – 7 p.m.					50 Plenary II Charles Franklin Craig Lecture P. 181			
7 – 7:15 p.m.								
7:15 – 8 p.m.				Sponsored Symposium: From R&D to Access for Sleeping Sickness Elimination: Innovative Public-Private Partnerships for New Tools P. 43 and 182				
8 – 8:30 p.m.								
8:30 – 9 p.m.								
9 – 9:30 p.m.								

ASTMH 67th Annual Meeting

Monday, October 29, 2018

	Marriott – La Galerie 1/2	Marriott – La Galerie 3	Marriott – La Galerie 4/5/6	Marriott – Mardi Gras D	Marriott – Mardi Gras EFGH	Marriott – Balcony IJK	Marriott – Balcony LMN	Marriott – Grand Ballroom Foyer
8 – 9:45 a.m.	6 Scientific Session Schistosomiasis: Trematodes- Immunology, Pathology, Cellular, Molecular P. 103	7 Scientific Session Cestodes: Cysticercosis and Echinococcosis P. 104	8 Scientific Session Alternative Tools for Malaria Diagnosis P. 105	9 Scientific Session Mosquitoes: Insecticide Resistance and Control I P. 106	10 Symposium Building a Combination Platform for New Antimalarial Combination Therapies P. 107			
9:45 – 10:15 a.m.								Coffee Break
10:15 a.m. – Noon	17 Scientific Session Schistosomiasis - Trematodes: Epidemiology and Control P. 111		18 Scientific Session Mosquitoes: Vector Biology - Epidemiology I P. 112	19 Symposium Transmission Blocking Immunity: From Biology to Interventions P. 113	20 Scientific Session Malaria: Chemotherapy and Drug Resistance P. 114	21 Scientific Session ACMCIP: Malaria: Host-Parasite Interactions and Host Responses P. 115		
Noon – 12:15 p.m.								
12:15 – 12:30 p.m.								
12:30 – 12:45 p.m.				23 Late Breakers in Clinical and Applied Sciences P. 163		24 Symposium Fireside Chats with Global Health Greats P. 163	25 Meet the Professors A P. 163	
12:45 – 1:30 p.m.								
1:30 – 1:45 p.m.								
1:45 – 3:30 p.m.	32 Symposium Integration for Impact: Preventing Typhoid through Policy, Vaccines and WASH P. 168	33 Scientific Session Case Detection for Malaria Elimination P.169	34 Symposium 16th Annual ACMCIP Symposium: Parasite Reservoirs P. 170	35 Symposium Pathophysiology and Treatment of Severe Malaria P. 170	36 Symposium Infectious Disease Research in Vulnerable Populations: Novel Diagnostics P. 171	37 Scientific Session Mosquitoes: Vector Biology - Epidemiology I P. 172		
3:30 – 4 p.m.								Coffee Break
4 – 5:45 p.m.	44 Scientific Session ACMCIP: Malaria and Protozoans - Molecular and Cellular Biology P. 177		45 Symposium Snakebite Envenoming P. 178	46 Scientific Session Mosquitoes: Insecticide Resistance and Control II P. 179	47 Symposium CRISPR/Cas9 Approaches for Apicomplexan Biology P. 179	48 Scientific Session One Health: Interface of Human Health/Animal Diseases P. 180		
5:45 – 6:15 p.m.								
6:15 – 7 p.m.								
7 – 7:15 p.m.								
7:15 – 8 p.m.								
8 – 8:30 p.m.	<p>INCLUDED WITH YOUR REGISTRATION FEE</p> <p>Webcasts (MP4 recordings) of All Sessions Registrants will receive free access to webcasts (MP4 recordings) of all sessions and slides of select presentations.</p>							
8:30 – 9 p.m.								
9 – 9:30 p.m.								

ASTMH 67th Annual Meeting

Tuesday, October 30, 2018

	Sheraton – Napoleon Ballroom	Marriott – Grand Ballroom	Sheraton – Rodrigue Gallery	Sheraton – Waterbury	Sheraton – Rhythms	Sheraton – Grand Ballroom AB	Sheraton – Grand Ballroom C	Sheraton – Grand Ballroom DE
8 – 9:45 a.m.			51 Scientific Session HIV and Tropical Co-Infections P. 183	52 Scientific Session Filariasis: Molecular Biology, Immunology and Diagnostics P. 183	53 Symposium Innovative Treatment Strategies for Severely Ill Infants P. 184	54 Scientific Session Dengue: Pathogenesis/ Immunology P. 185	55 Symposium Combating Antimicrobial Resistance: A Global Health Priority P. 185	56 Symposium Drug Discovery for Rare and Neglected Viral Infections P. 186
	Exhibits Open 9:30 - 10:30							
9:45 – 10:15 a.m.	Coffee Break	Poster Session B Setup						
10:15 a.m. – Noon		Poster Session B Viewing	64 Scientific Session Soil-Transmitted Helminths - Epidemiology and Control P. 192	65 Symposium Advancing O Antigen-based Vaccines against <i>Shigella</i> P. 193	66 Symposium Skinny on Skin in Neglected Tropical Diseases P. 194	67 Scientific Session Dengue: Vaccines P. 194	68 Symposium The Big One: Influenza-1918 and Now P. 195	69 Symposium Debate: Secondary Data Users Should Pay to Access Individual Level Research Data P. 195
Noon – 12:15 p.m.	Exhibit Hall Open and Light Lunch	77 Poster Session B Presentations and Light Lunch P. 200						
12:15 – 12:30 p.m.								
12:30 – 12:45 p.m.								
12:45 – 1:30 p.m.								
1:30 – 1:45 p.m.								
1:45 – 3:30 p.m.		Poster Session B Viewing	81 Symposium Vector-Borne Diseases in Agricultural Landscapes P. 251	82 Symposium Overcoming Challenges in Chagas Disease P. 251	83 Symposium "The Tropical Bookshelf" Authors' Panel with Douglas Preston and Richard Preston P. 252	84 Scientific Session West Nile and Other Viruses P. 252	85 Symposium Updates in Universal Influenza Vaccine Research P. 253	86 Scientific Session Bacteriology: <i>Salmonella</i> / Typhoid/Plague P. 254
	Exhibits Open 3:15 – 4:15 p.m.							
3:30 – 4 p.m.	Coffee Break							
4 – 5:45 p.m.		Poster Session B Dismantle	94 Symposium From Lab to Field: Solutions for Women's Career Advancement in Trop Med and Global Health P. 260	95 Scientific Session Bacteriology: Trachoma P. 260	96 Symposium Malaria Co- Morbidity in Sub- Saharan Africa P. 261	97 Symposium Hepatitis E: The Unrelenting Challenge P. 262	98 Symposium Climate Services for Health P. 262	99 Scientific Session Global Health: Prevention and Control of Malaria and Other Vector- Borne Diseases P. 263
5:45 – 6:15 p.m.								
6:15 – 7 p.m.					107 Plenary III Commemorative Fund Lecture P. 269			
7 – 7:15 p.m.								
7:15 – 8 p.m.								
8 – 8:30 p.m.							108 Symposium Tackling Outbreaks P. 269	
8:30 – 9 p.m.								

ASTMH 67th Annual Meeting

Tuesday, October 30, 2018

	Marriott – La Galerie 1/2	Marriott – La Galerie 3	Marriott – La Galerie 4/5/6	Marriott – Mardi Gras D	Marriott – Mardi Gras EFGH	Marriott – Balcony IJK	Marriott – Balcony LMN	Sheraton – Armstrong Ballroom	Marriott – Grand Ballroom Foyer
8 – 9:45 a.m.	57 Symposium Progress towards the Elimination of Blinding Trachoma P. 187	58 Scientific Session ACMCIP: Worms and Trematodes: Immunology and Vaccines P. 187	59 Scientific Session Malaria: Pre- Clinical and Clinical Drug Development - Tools, Novel Approaches and New Candidates P. 188	60 Scientific Session Malaria: Epidemiology - Risk Factors, Intervention Studies and Impact P. 189	61 Symposium Genetic Epidemiology for Malaria Elimination P. 190	62 Scientific Session Ectoparasite- Borne Disease P. 190	63 Symposium Transgenic Approaches for Control of Vector-Borne Disease P. 191		
9:45 – 10:15 a.m.									Coffee Break
10:15 – Noon	70 Scientific Session Integrated Control Measures for Neglected Tropical Diseases P. 196	71 Scientific Session Water, Sanitation, Hygiene and Environmental Health I P. 197	72 Symposium Pathway to Deployment of Gene Drive Mosquitoes as a Potential Biocontrol Tool for Elimination of Malaria P. 198	73 Symposium Next Generation Rapid Diagnostic Tests for Malaria P. 198	74 Symposium Final Results of the Tracking Resistance to Artemisinin Collaboration (TRACII) Project P. 199	75 Symposium Bite Sized - Sandfly Vector Components on Leishmaniasis P. 199	76 Symposium The Intersection of Advocacy, Policy and Social Media: A Washington, DC, Primer P. 200		
Noon – 12:15 p.m.									
12:15 – 12:30 p.m.									
12:30 – 12:45 p.m.									
12:45 – 1:30 p.m.				78 Late Breakers in Basic Sciences P. 250	79 Panel Discussion: A Journey to Become a Successful Scientist P. 250		80 Meet the Professors B P. 250		
1:30 – 1:45 p.m.									
1:45 – 3:30 p.m.	87 Scientific Session Malaria: Innovation and Challenges in Malaria Research and Control P. 255	88 Scientific Session Water, Sanitation, Hygiene and Environmental Health II P. 255	89 Symposium ACME I Annual Business Meeting, Awards and Hoogstraal Medal Presentations P. 256	90 Symposium Malaria Transmission Biology and Role in Emergence and Spread of ACT Resistance P. 257	91 Scientific Session Malaria: Immunology P. 257	92 Symposium Progress on Development of <i>Leishmania</i> Vaccines P. 258	93 Scientific Session Schistosomiasis and Other Trematodes: Diagnosis and Treatment P.259		
3:30 – 4 p.m.									Coffee Break
4 – 5:45 p.m.	100 Symposium Health and Livelihoods of Rural Communities: Impacts of Zoonotic Diseases of Livestock P. 264	101 Scientific Session ACMCIP: Parasites: Molecular, Cellular and Immunobiology P. 264	102 Symposium ACME II: CDC Regional Centers of Excellence for Vector-Borne Disease P.265	103 Symposium Unraveling the Biology of the Hypnozoite: Integrating Findings from Lab and Field Studies of <i>Plasmodium</i> <i>vivax</i> P. 266	104 Scientific Session Modeling in Malaria P. 267	104 A Special Event "Minutes to Die" Documentary Screening P. 267	105 Symposium Countdown on Schistosomiasis Control P. 268		
5:45 – 6:15 p.m.									
6:15 – 7 p.m.								106 Special Session Speed- Networking with the Experts P. 268	
7 – 7:15 p.m.									
7:15 – 8 p.m.									
8 – 8:30 p.m.									
8:30 – 9 p.m.									

ASTMH 67th Annual Meeting

Wednesday, October 31, 2018

	Sheraton – Napoleon Ballroom	Marriott – Grand Ballroom	Sheraton – Rodrigue Gallery	Sheraton – Waterbury	Sheraton – Rhythms	Sheraton – Grand Ballroom AB	Sheraton – Grand Ballroom C	Sheraton – Grand Ballroom DE
8 – 9:45 a.m.			109 Scientific Session Kinetoplastida: Diagnosis, Treatment and Vaccine Development P. 270	110 Symposium Global Angiostrong- yliasis: An Emergency Clinical Challenge P. 271	111 Scientific Session Zika I P. 271	112 Symposium Spread of <i>Streptococcus</i> and Need for Vaccine P. 272	113 Symposium Ebola: Has the Tide Turned in Combating this Disease? P. 273	114 Scientific Session Global Health: Maternal, Child and Neonatal Health P. 273
	Exhibits Open 9:30 - 10:30							
9:45 – 10:15 a.m.	Coffee Break	Poster Session C Setup						
10:15 a.m. – Noon		Poster Session C Viewing	122 Scientific Session Kinetoplastida: Epidemiology and Diagnosis P. 280	123 Symposium Ethics in Tropical Public Health Today: Issues in NTDs P. 281	124 Scientific Session Zika II P. 282	125 Symposium Reducing Cholera in the Most Vulnerable Populations P. 282	126 Symposium Recent Advances in Viral Hemorrhagic Fever Research P. 283	
Noon – 12:15 p.m.								
12:15 – 12:30 p.m.								
12:30 – 12:45 p.m.								
12:45 – 1:30 p.m.	Exhibit Hall Open and Light Lunch	133 Poster Session C Presentations and Light Lunch P. 288						
1:30 – 1:45 p.m.								
1:45 – 3:30 p.m.		Poster Session C Viewing	144 ASTMH Annual Business Meeting P. 342	136 Re-emergence of <i>Campylobacter</i> P. 336	137 Symposium Travel Medicine Challenges for the Practitioner P.337		138 Symposium Studies to Understand the Epidemiology of Severe Dengue and Inform Vaccine Evaluations P. 337	
3:30 – 4 p.m.								
4 – 5:45 p.m.		Poster Session C Dismantle by 5 p.m.	145 Symposium Supporting Quality and Child Friendly Malaria Interventions P. 342	146 Symposium Onchocerciasis Associated Epilepsy P. 343	147 Symposium Real-Time Epidemic Analysis and Forecasting P. 343	148 Symposium International Zika Cohort Studies P. 344	149 Symposium Technological Innovations for Enhancing Performance of Tropical Disease Control Programs P. 344	150 Symposium Proactive Community Case Detection and Management of Malaria, Diarrhea, Pneumonia and Malnutrition P. 345
5:45 – 6:15 p.m.								
6:15 – 7 p.m.							159 Plenary IV President's Address P. 351	
7 – 7:15 p.m.								
7:15 – 8 p.m.								
8 – 8:30 p.m.								
8:30 – 9 p.m.								
9 – 9:30 p.m.								

ASTMH 67th Annual Meeting

Wednesday, October 31, 2018

	Marriott – La Galerie 1/2	Marriott – La Galerie 3	Marriott – La Galerie 4/5/6	Marriott – Mardi Gras D	Marriott – Mardi Gras EFGH	Marriott – Balcony IJK	Marriott – Balcony LMN	Marriott – Grand Ballroom Foyer
8 – 9:45 a.m.	115 Symposium Enhancing and Integrating Morbidity Management in Lymphatic Filariasis to Achieve SDGs P. 274	116 Scientific Session Malaria: Impact and Adaptation in Vector Control P. 275	117 Scientific Session Malaria: Biology and Pathogenesis P. 276	118 Scientific Session Malaria Elimination in Asia and Africa P. 277	119 Symposium Predicting, Investigating and Ameliorating Global Epidemic Leptospirosis P. 278	120 Scientific Session Mosquitoes: Biochemistry and Molecular Biology P. 278	121 Scientific Session ACMCIP: Worms and Trematodes: Molecular and Cellular Biology P. 279	
9:45 – 10:15 a.m.								Coffee Break
10:15 a.m. – Noon	127 Symposium Bumps In the Road to MDA-based Schistosomiasis Control P. 283	128 Symposium Sanitation at Scale: Implementation, Outcomes, and Equity P. 284	129 Symposium Cryptic Reservoirs of <i>T.b. Gambiense</i> P. 285	130 Symposium Moving Beyond Passive Case Detection: Evidence-Based Surveillance Strategies in Malaria P. 286	131 Scientific Session Malaria: Vaccines P. 286	132 Scientific Session Mosquitoes: Molecular Genetics and Genomics P. 287		
Noon – 12:15 p.m.								
12:15 – 12:30 p.m.				134 Late Breakers in Malaria P. 336			135 Meet the Professors C P. 336	
12:30 – 12:45 p.m.								
12:45 – 1:30 p.m.								
1:30 – 1:45 p.m.								
1:45 – 3:30 p.m.	139 Symposium Challenges and Solutions when Nearing Elimination of Kinetoplastid Diseases P. 338		140 Scientific Session Pneumonia, Respiratory Infections and Tuberculosis I P. 339	141 Symposium IRS and Drug-based Malaria Control: Interaction, Timing and Next Steps P. 340	142 Symposium Naturally Acquired Immunity to Malaria: Updates P. 340	143 Scientific Session Genomic Tools and Insights into Malaria Transmission and Host Susceptibility P. 341		
3:30 – 4 p.m.								
4 – 5:45 p.m.	151 Symposium Accelerating Malaria Elimination Through Private Sector Engagement P. 346	152 Scientific Session Kinetoplastida: Molecular Biology and Immunology P. 346	153 Scientific Session Pneumonia, Respiratory Infections and Tuberculosis II P. 347	154 Scientific Session ACMCIP: Malaria - Genome Scale Approaches P. 348	155 Symposium The Nexus of Poop and Public Health: Harnessing the Human Gut Microbiome P. 349	156 Symposium Cell-to-Cell Communications Underlying Malarial Life Cycle Transitions P. 349	157 Symposium Advancing a Spatial Repellent Category for Public Health Use P. 350	
5:45 – 6:15 p.m.								
6:15 – 7 p.m.	<p>Online Meeting Program</p> <p>Search the Annual Meeting program online by abstract keyword, title, subject, author and/or presentation time at astmh.org/annual-meeting. The full text of all abstracts, including Late-Breaker Abstracts, can be found in the Online Program Planner.</p>							
7 – 7:15 p.m.								
7:15 – 8 p.m.	<p>Meeting App</p> <p>Download the meeting app for easy access to all ASTMH program information. Use the app to view the meeting schedule, session and presenter information, full abstracts, exhibitors, maps and Twitter feed.</p>							
8 – 8:30 p.m.								
8:30 – 9 p.m.	<p>Program Changes</p> <p>Times and/or locations of activities or sessions are subject to change. Please check the meeting app for program changes.</p>							
9 – 9:30 p.m.	<p>Online Abstract Book</p> <p>The Annual Meeting Abstract Book is accessible at astmh.org/annual-meeting. View the full text of the abstracts presented.</p>							



ASTMH 67th Annual Meeting

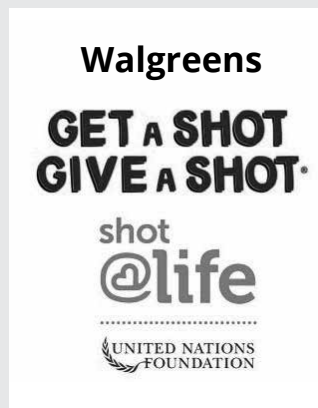
Thursday, November 1, 2018

	Sheraton – Napoleon Ballroom	Sheraton – Rodrigue Gallery	Sheraton – Waterbury	Sheraton – Rhythms	Sheraton – Grand Ballroom AB	Sheraton – Grand Ballroom C	Sheraton – Grand Ballroom DE	Marriott – La Galerie 1/2
7 – 7:30 a.m.								
7:30 – 8 a.m.								
8 – 9:45 a.m.		160 Symposium Redefining Control for Schistosomiasis P. 351	161 Symposium Quality in Clinical Parasite Diagnostics P. 352	162 Symposium The Impact of Improving Laboratory Services on Public Health P. 353	163 Symposium Can We Make Rabies History? P. 353		164 Symposium Japanese Encephalitis, No Longer Neglected P. 354	165 Symposium NTD Prevalence Survey Methodologies Used in Refugee Camps P. 355
9:45 – 10:15 a.m.	Coffee Break							
10:15 a.m. – Noon		172 Scientific Session Filariasis: Clinical P. 359	173 Symposium Host Directed Therapy in Leishmaniasis P. 360	174 Symposium Implementing Disease and Control Programs in Urban Settings P. 361	175 Scientific Session Global Health: Disease Surveillance and Outbreaks Response P. 361		176 Symposium Rotavirus Vaccines P. 362	177 Symposium Chagas Disease in the United States P. 363

Get Your Flu Shot @ TropMed! Get a Shot Give a Shot®

Marriott – Grand Ballroom Foyer (3rd Floor)

Walgreens' Get a Shot. Give a Shot.® campaign has helped provide more than 20 million lifesaving vaccines to children in need around the world through the United Nations Foundation's Shot@Life campaign. Now, TropMed18 is giving attendees an opportunity to give back to the global health communities we serve. Receive your annual flu shot and provide lifesaving vaccines to families in developing countries. Immunizations are one of the world's biggest public health success stories, but not all communities have the same access to vaccines.



ASTMH 67th Annual Meeting

Thursday, November 1, 2018

	Marriott – La Galerie 3	Marriott – La Galerie 4/5/6	Marriott – Mardi Gras D	Marriott – Mardi Gras EFGH	Marriott – Balcony IJK	Marriott – Balcony LMN	Marriott – Grand Ballroom Foyer
7 – 7:30 a.m.							
7:30 – 8 a.m.							
8 – 9:45 a.m.	166 Symposium Combating Fungal Co-Infections in Advanced HIV Care P. 355	167 Symposium Short Course Primaquine Regimen for Radical Cure of <i>Plasmodium vivax</i> P. 356	168 Symposium Why Is Malaria Transmission Persisting in Some Contexts Despite High Coverage of Vector Control Tools? P. 357	169 Symposium Controlled Human Infection Studies P. 357	170 Scientific Session Arthropods: Other Arthropods P. 358	171 Scientific Session Protozoa P. 359	
9:45 – 10:15 a.m.							Coffee Break
10:15 a.m. – Noon	178 Symposium Integrated Vector Management in Malaria Elimination Setting P. 363	179 Symposium Barriers and Opportunities in Driving down the Burden of Diarrheal Disease P. 364	180 Symposium Accelerating the Decline in Malaria Cases and Deaths: Targeting Gaps in Malaria Intervention Coverage P. 365	181 Symposium Blood Feeding and Pathogen Transmission: Spit P. 365	182 Scientific Session Malaria: Prevention P. 366	183 Scientific Session Global Health: Community Health Systems and Operational Program Implementation P. 367	

Experience the Smithsonian @ TropMed!

Throughout the Sheraton and Marriott, attendees will be able to view images of the Smithsonian Institute’s new exhibit, *Outbreak: Epidemics in a Connected World*. Open through 2021, *Outbreak* brings to life the work of “disease detectives” and the concept of “One Health,” which are familiar to the tropmed community but quite unknown to millions of visitors to the Smithsonian. Images, stories, and personal perspectives throughout the exhibit capture the work of epidemiologists, veterinarians, public health workers and citizens of all ages and origins as they rush to identify, contain, and prevent infectious disease outbreaks. Case studies of HIV/AIDS, Ebola virus and influenza highlight the social and emotional fallout of outbreaks—for patients, their loved ones and society overall. The exhibit is represented at TropMed18 in its free, translatable and customizable form, *Outbreak DIY*, a toolkit for community use that Smithsonian is sharing worldwide.



This exhibition is part of the Smithsonian National Museum of Natural History’s Outbreak project, which convenes global partners to raise awareness of the human, animal, and environmental factors contributing to infectious disease epidemics.

Meeting Room Directory

Sheraton New Orleans

First Floor

Rodrigue Gallery

Second Floor

Lagniappe (TropStop Student Lounge)

Rhythms

Waterbury

Third Floor

Maurepas (Speaker Ready Room – For speakers presenting at the Sheraton)

Napoleon Ballroom (Exhibit Hall)

Poydras

Fourth Floor

Bayside A

Bayside B

Bayside C

Crescent

Edgewood A (Nursing Mothers Room)

Edgewood B

Ellendale

Estherwood

Evergreen

Gallier

Nottoway

Oak Alley

Oakley

Fifth Floor

Grand Ballroom AB

Grand Ballroom C

Grand Ballroom DE

Grand Chenier

Grand Couteau

Rampart

Eighth Floor

Armstrong Ballroom

Bacchus

Endymion

Iris

Mid-City (Meeting Sign-Up Room)

Muses (Meeting Sign-Up Room)

Orpheus

Proteus

Rex

Zulu

New Orleans Marriott

Second Floor

Galerie 1/2

Galerie 3

Galerie 4/5/6

Preservation Hall Foyer

Preservation Hall (**Registration**)

Preservation Hall Studio 1

Preservation Hall Studio 2

Preservation Hall Studio 3

Preservation Hall Studio 4

Preservation Hall Studio 5

Third Floor

Grand Ballroom (Poster Hall)

Mardi Gras Ballroom ABC (Speaker Ready Room – For speakers presenting at the Marriott)

Mardi Gras Ballroom D

Mardi Gras Ballroom EFGH

Fourth Floor

Bacchus

Balcony IJK

Balcony LMN

Bonaparte

Iberville (Nursing Mothers Room)

Fifth Floor

Audobon (Press Room)

Beauregard

Galvez

Jackson

41st Floor

Lafayette

Napoleon

St. Charles

Riverview I

Riverview II

AGAIN THIS YEAR!

**Meeting App &
FREE Wi-Fi**



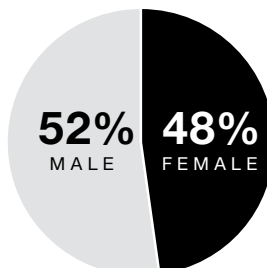
Program Information

ASTMH Values and Promotes Diversity

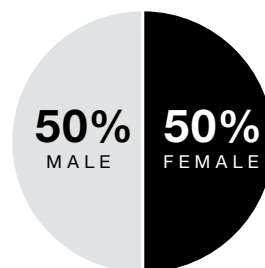
ASTMH takes pride in its diverse membership, represented through the Society's leadership, Annual Meeting presenters and attendees. Symposium Organizers were encouraged to consider diversity with respect to gender, institutional background and country of origin when developing symposium submissions. All symposia were required to have at least one male and one female participant.



2018 New Orleans Symposium and Abstract Presenters



2017 Baltimore Annual Meeting Attendance



Council/Executive Committee

ASTMH Council, Subgroup Leadership and Fellows of ASTMH (FASTMH)

ASTMH extends a special thank you to its Council members for their outstanding contributions throughout the year and their dedication to advancing the Society's mission.

Executive Committee

*Indicates voting member

President*

Regina Rabinovich
Harvard T.H. Chan School of Public Health, United States

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Abdoulaye Djimde* (2016-2020)
University of Science, Techniques and Technologies of Bamako, Mali

David Fidock* (2015-2019)
Columbia University Medical Center, United States

David Hamer* (2018-2021)
Boston University, United States

Julie Jacobson* (2016-2020)
Uniting to Combat NTDs, U.S.-based

Laura Kramer* (2014-2018)
New York State Department of Health, Wadsworth Center, United States

Ann Powers* (2014-2018)
Centers for Disease Control and Prevention, United States

Jetsumon Sattabongkot Prachumsri* (2018-2021)
Mahidol University, Thailand

Subgroup Leadership

American Committee of Medical Entomology (ACME)
Chair: Philip Armstrong
Connecticut Agricultural Experiment Station, United States

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP)
President: Christine Petersen
University of Iowa, United States

American Committee on Arthropod-Borne Viruses (ACAV)
Chair: A. Desiree LaBeaud
Stanford University, United States

ASTMH Council, Subgroup Leadership and Fellows of ASTMH (FASTMH)

American Committee on Clinical Tropical Medicine and Travelers' Health (ACCTMTH – Clinical Group)
*President: David Brett-Major
 Uniformed Services University, United States*

ASTMH Committee on Global Health (ACGH)
*President: Ramin Asgary
 George Washington University School of Public Health and Weill Cornell Medical College, United States*

Fellows of ASTMH (FASTMH)

Fellow member status in the Society is an honor recognizing sustained professional excellence in any phase of tropical medicine, hygiene, global health and related disciplines. 2018 Fellows will be announced and recognized at the Awards Program on Sunday, October 28.

2017 Fellows

John Adams
University of South Florida College of Public Health

Carolina Barillas-Mury
National Institutes of Health

Robert Breiman
Emory University Global Health Institute

Robert Edelman
University of Maryland School of Medicine

David Freedman
University of Alabama Birmingham

Steven Meshnick
University of North Carolina Chapel Hill

Mark Kortepeter
Uniformed Services University of the Health Sciences

Gregory Martin
U.S. Department of State

Danny Milner
American Society of Clinical Pathology

Hira Nakhasi
Food and Drug Administration

Daouda Ndiaye
Cheikh Anta Diop University

B. Kim Lee Sim
Protein Potential, LLC

Christopher Woods
Durham Veterans Administration Medical Center

ASTMH Staff

Karen A. Goraleski, *Executive Director*

Steven M. Croll, *Chief Operating Officer*

Madhuri Carson, *Manager, Partnership Opportunities*

Judy DeAcetis, *Administrator*

Doug Dusik, *Senior Communications Executive*

Buffy Finn, *Member Services Administrator*

Michael Giliberto, *Annual Meeting Intern*

Brenda Howe, *Conference Administrator*

Alison Jaeb, *AJTMH Editorial Assistant*

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Graham Schofield, *Group Controller*

Rhonda Schultz, *Coordinator, Awards and Fellowships*

Cathi Siegel, *AJTMH Managing Editor*

Rita Wallace, *Accounts Receivable Administrator*

Additional Annual Meeting Onsite Support

Heather Currier, *Assistant Meeting Manager, Kellen*

Matthew Davis, *Burness*

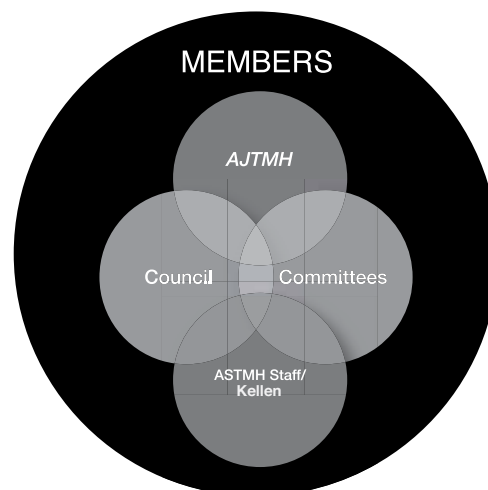
Bridget DeSimone, *Burness*

Gideon Hertz, *Burness*

Nick Seaver, *Burness*

Preeti Singh, *Burness*

ASTMH Organizational Chart



ASTMH Subgroups and Committees

Subgroups

American Committee of Medical Entomology (ACME)

ACME promotes medical entomology within ASTMH and in organizations with scopes of activities that include the area of human diseases transmitted by arthropods.

Philip Armstrong, *Chair, Councilor and Hoogstraal Medal Coordinator*

Matt Thomas, *Chair-Elect and Councilor*; Gonzalo Vazquez-Prokopec, *Past Chair*; Alvaro Molina-Cruz, *Secretary-Treasurer and Councilor*; Michael Reddy, *Councilor*; Michel Slotman, *Councilor*; Kate Aultman, *Councilor*; Jason Richardson, *Councilor*; Laura Harrington, *Councilor*; Diana Ortiz, *Councilor*; Christopher Barker, *Councilor*; Ellen Dotson, *Councilor*; Gabriel Hamer, *Councilor*; Maria Luisa Simoes, *Student Representative*

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP)

ACMCIP facilitates interactions among scientists within ASTMH who work in the varied disciplines of parasitology, especially in basic laboratory, pre-clinical and translational research, clinician sciences and population-based sciences.

Christine Petersen, *President*

Michael Ferdig, *President-Elect*; Julian Rayner, *Past President*; Amanda Lukens, *Secretary-Treasurer*; John Adams, *Councilor*; Robin Stephens, *Councilor*; Manoj Duraisingh, *Councilor for Annual Meeting Symposia*; Timothy Yoshino, *Councilor for Communications*; Christian Happi, *International Councilor*; Jenna Oberstaller, *Councilor for Trainees*

American Committee on Arthropod-Borne Viruses (ACAV)

ACAV provides a forum for exchange of information among people interested in arbovirus research.

A. Desiree LaBeaud, *Chair and Councilor*

Lark Coffey, *Chair-Elect, Secretary and Councilor*; Nikos Vasilakis, *Past Chair*; Scott Weaver, *Treasurer*; Donald Burke, *Archivist/Historian*; Rebecca Christofferson, *Councilor*; Kathryn Hanley, *Councilor*; Thomas Ksiazek, *Councilor*; David Morens, *Councilor*; Rebecca Rico-Hesse, *Councilor*; Laura Kramer, *Councilor*; Nunya Chotiwan, *Councilor for Trainees*; Ann Powers, *Ex-Officio Councilor*; Mike Turell, *Ex-Officio Councilor*

American Committee on Clinical Tropical Medicine and Travelers' Health (ACCTMTH – Clinical Group)

The Clinical Group (ACCTMTH) is the clinicians' group within ASTMH and includes civilian, military and governmental experts in travelers' health, tropical infection and tropical disease.

David Brett-Major, *President*

M. Patricia Joyce, *President-Elect*; John Sanders, *Past President*; Latha Rajan, *Secretary-Treasurer*; Miguel Cabada, *Councilor*; Janine Danko, *Councilor*; Natasha Hochberg, *Councilor*; Kimberly Breglio, *Student Representative*; Michael Harper, *Student Representative*

ASTMH Committee on Global Health (ACGH)

ACGH promotes the development of the field of global health within ASTMH and addresses multidisciplinary transnational approaches to health issues that unfavorably affect underserved and under-resourced populations.

Ramin Asgary, *President*

Julie Pavlin, *President-Elect*; Christina Polyak, *Past President*; Miguel Reina Ortiz, *Secretary-Treasurer*; Ryan Carroll, *Councilor*; Abiola Fasina, *Councilor*; Jessica Manning, *Councilor*; Eileen Stillwaggon, *Councilor*

Administration

Clinical Standards and Treatment Guidelines

Philip Coyne, *Chair*

Naomi Aronson; Josh Berman; Johanna Daily; David Freedman; Robert Gasser; Hector Gorbea; David Hill; Eric Houpt; Chandy John; Kevin Kain; James Maguire; Jean Nachega; William Stauffer; Joe Vinetz; Mary Wilson

Editorial Board, American Journal of Tropical Medicine and Hygiene

Editorial Staff: Philip Rosenthal, *Chair (Editor-in-Chief)*; Joe Vinetz (*Associate Editor*); Cathi Siegel (*Managing Editor*); Alison Jaeb (*Editorial Assistant*); Daniel Tisch (*Biostatistical Editor*)

Section Editors: Bradley Blitvich; Aaron Brault; J. Stephen Dumler; Duane Hospenthal; James Kazura; Kristina Krohn; Miriam Laufer; Anna Mandalakas; Regina Rabinovich; John Sanders; Thomas Scott; Christina Stauber; Maxine Whittaker; Mary Wilson

Editorial Board: Jonathan Berman; Dwight Bowman; Brett Forshey; Hector Garcia; Steven Graves; Eric Halsey; A. Desiree LaBeaud; Patrick Lammie; Alan Magill (In Memoriam); Thomas Nutman; Tyler Sharp; Terrie Taylor; David Walker; A. Clinton White

Nominations

Stephen Higgs, *Chair*

Serap Aksoy; Lin Chen; Eva Harris; Lee Hall; Moses Kamya; Rick Fairhurst; Bernard Nahlen; Christina Polyak; Larry Slutsker; Kyaw Zin Thant; Patricia Walker

ASTMH Subgroups and Committees (cont.)

Annual Meeting

Commemorative Fund Lectureship

Regina Rabinovich, *Chair*

Lecture (Fred L. Soper and Charles F. Craig)

Robert Tesh, *Chair*

Donald Burke; David Freedman (Gorgas representative); Peter Hotez; William Petri

Scientific Program

Dan Bausch, *Chair*

Stephanie Yanow, *Associate Chair*

See full committee roster on page 30.

Travel Awards

Nirbhay Kumar, *Chair*

James Burns; John Donelson; Erin Eckert; Brian Foy; Nisha Garg; Kent Kester; Sanjai Kumar; Kim Lindblade; Kevin Macaluso; James Maguire; Indu Malhotra; Julie Moore; Ann Moormann; Hira Nakhasi; Momar Ndao; Richard Reithinger; John Sanders; Mary Stevenson; Diane Wallace Taylor; Venkatachalam Udhayakumar; Jefferson Vaughan; Eileen Villasante; Joe Vinetz; Sarah Volkman; Wei-Kung Wang; Yimin Wu

Young Investigator Award

Ed Mitre, *Chair*

Jeffrey Bailey; Amy Bei; Nicholas Bergren; Fernando Bruno; Vitaliano Cama; Peter Crompton; Stephen Davies; Nicole Gottdenker; Nathan Grubaugh; Matt Laurens; Naomi Lucchi; Ann Moormann; David Narum; John Michael Ong'Echa; Silvia Portugal; Bennuru Sasisekhar; Roshanak Semnani; Prakash Srinivasan; Ann Stewart; Tuan Tran; Ned Walker

Awards and Professional Recognition

Medals

Christopher Plowe, *Chair*

Stephen Higgs; Patricia Walker

Communications Award

Peter Hotez and Karen Goraleski, *Co-Chairs*

Caroline Ash; Philip Coyne; Brian Foy; Mandy Izzo; Heather Jameson; Anne Rimoin

Certificate Examination

Certificate Examination

Patrick Hickey, *Chair*

David Boulware; Robert DeFraitess; Jessica Fairley; Yasuyuki Kato; Alexia Knapp; Obinna Nnedu; Jakrapun Pupaibool; Latha Rajan; Kristina St. Clair; Jill Weatherhead

Diploma Course Certification Committee

Susan McLellan, *Chair*

David Freedman; Amy Klion; Anne McCarthy

Clinical Tropical and Travel Medicine Education Program Committee

John Sanders, *Chair*

Christina Coyle; Michael Libman; Susan McLellan; Lin Chen; Patrick Hickey; Latha Rajan

Courses

Courses Committee

Christina Coyle and Michael Libman, *Co-Chairs*

Dan Bausch; David Brett-Major; Philip Coyne (CME Liaison); Rick Fairhurst; David Hill; Louise Ivers (CME Liaison); Christopher King

Update Course in Clinical Tropical Medicine and Travelers' Health

Christina Coyle and Michael Libman, *Co-Chairs*

Education/Fellowships/Grant Awards

Alan J. Magill Fellowship

Kent Kester, *Chair*

Janiine Babcock; Mark Fukuda; Karen A. Goraleski; Andres Lescano; Bruno Moonen; Christopher Plowe; Rick Steketee; Mahamadou Ali Thera; Sarah K. Volkman

Benjamin H. Kean Travel Fellowship in Tropical Medicine

A. Desiree LaBeaud, *Chair*

James Cummings; Arlene Dent; Michael Hawkes; Miriam Laufer; Mark Polhemus; Mark Travassos

Burroughs Wellcome Fund-ASTMH Fellowship

Joseph Tucker, *Chair*

Subash Babu; Ravi Durvasula; Molly Hughes; Anuja Mathew; Victoria McGovern; Dan Milner; Joe Vinetz

ASTMH Subgroups and Committees (cont.)

Centennial Travel Award

Joe Vinetz, *Chair*

David Fidock; Douglas Perkins; Sarah Volkman

Digital Education Committee

Nicole Achee, *Co-Chair*

Daniel Bausch; Gonzalo Vazquez-Prokopec; Christina Polyak; Julian Rayner; John Sanders; Nikos Vasilakis

Robert E. Shope International Fellowship

Ann Powers, *Chair*

Charles Calisher; Eric Mossel; Richard Shope; Nikos Vasilakis; Tom Yuill

Membership

Fellows

David Hill, *Chair*

Josh Berman; Stephen Higgs; Laura Kramer; Rick Steketee; Mary Wilson

Honorary Membership

John Aaskov, *Chair*

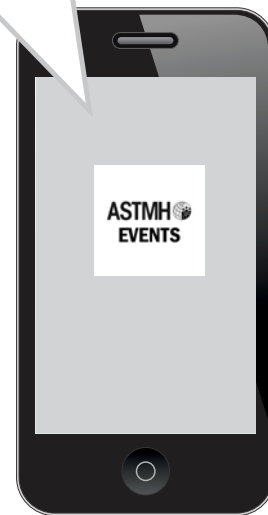
Yaowalark Sukthana; Marcel Tanner

Membership

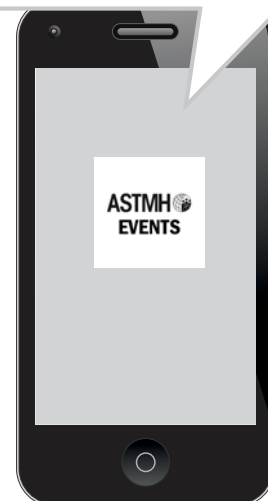
David Hill, *Chair*

Daniel G. Bausch; Joel Breman; Sarah Schaffer DeRoo; Tim Endy; Rick Fairhurst; Karen A. Goraleski; Martin Grobusch; David Hamer; Selma Jeronimo; Kent Kester; Beth Kirkpatrick; A. Desiree LaBeaud; Kevin Macaluso; Wilbur Milhous; Scott Weaver; Pete Zimmerman

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(MP4 Recordings)
of Sessions



ASTMH Scientific Program Committee

The Society and the Annual Meeting attendees offer special thanks to the Scientific Program Committee for their work in determining the robust agenda offered at this year's meeting.

Chair: Daniel G. Bausch,
UK Public Health Rapid Support Team

Associate Chair:
Stephanie Yanow,
University of Alberta



Bacterial Illness and Diarrhea

Chair: Ed Ryan, *Massachusetts General Hospital*
Richelle Charles, *Massachusetts General Hospital*
Robert Hall, *National Institutes of Health*
Daniel Leung, *University of Utah*
Megan Reller, *Duke University*
Mark Simons, *Naval Medical Research Center*
Duncan Steele, *Bill & Melinda Gates Foundation*

Clinical Tropical Medicine

Chair: Elizabeth Barnett, *Boston University*
Bradley Connor, *Weill Cornell Medical College*
Janine Danko, *Walter Reed Military Medical Center*
John Gawoski, *Lahey Hospital and Medical Center*
Brett Hendel-Paterson, *University of Minnesota*
Mark Kortepeter, *Uniformed Services University of the Health Sciences*
Jason Maguire, *Pfizer*
Joe Vinetz, *Yale University*
Henry Wu, *Emory University*

Ectoparasite-Borne Diseases

Chair: J. Stephen Dumler
Robert Smith, *Maine Medical Center*
Sam Telford, *Tufts University*
Saravanan Thangamani, *University of Texas Medical Branch*
Jefferson Vaughan, *University of North Dakota*

Entomology

Chair: Michel Slotman, *Texas A&M University*
Kate Aultman, *St. Mary's University*
Louis Lambrechts, *Institut Pasteur*
Greg Lanzaro, *University of California Davis*
Audrey Lenhart, *Centers for Disease Control and Prevention*

Filariasis

Chair: Peter Fischer, *Washington University*
Subash Babu, *NIH-NIRT-ICER*
Sasisekhar Bennuru, *National Institutes of Health*
Daniel Tisch, *Case Western Reserve University*

Global Health

Chair: Richard Reithinger, *RTI International*
Erin Eckert, *United States Agency for International Development*
Philip Gould, *World Health Organization*
David Hamer, *Boston University*
Mary Hayden, *National Center for Atmospheric Research*
Louise Ivers, *Massachusetts General Hospital*
Jean Lang, *Sanofi Pasteur*
Kayla Laserson, *Centers for Disease Control and Prevention*
Mark Paris, *Mark Paris, MD*
Julie Pavlin, *National Academies of Sciences, Engineering and Medicine*
Eileen Stillwaggon, *Gettysburg College*
Jose Stoute, *Pennsylvania State University*
Katherine Taylor, *University of Notre Dame*
Theresa Townley, *Creighton University*
Michael Wimberly, *South Dakota State University*

HIV and Tropical Co-Infections

Chair: Christina Polyak, *Military HIV Research Program*
David Boulware, *University of Minnesota*
Martin Grobusch, *Academic Medical Center*
Daniel Leung, *University of Utah*
Jean Nachega, *Johns Hopkins University*

Integrated Control Measures for Neglected Tropical Diseases

Chair: Charles King, *Case Western Reserve University*
Darin Evans, *United States Agency for International Development*
Eric Ottesen, *Task Force for Global Health*
Ricardo Soares Magalhaes, *University of Queensland*

Intestinal and Tissue Helminths, Cestodes

Chair: David Abraham, *Thomas Jefferson University*
Siddhartha Mahanty, *University of Melbourne*
Makedonka Mitreva, *Washington University*
Jose Serpa-Alvarez, *Baylor College of Medicine*
Francesca Tamarozzi, *Center for Tropical Diseases, Sacro Cuore-Don Calabria Hospital*

Kinetoplastida

Chair: Lynn Soong, *University of Texas Medical Branch*
Caryn Bern, *University of California San Francisco*
Natalie Bowman, *University of North Carolina*
Nisha Garg, *University of Texas Medical Branch*
Shaden Kamhawi, *National Institute of Allergy and Infectious Diseases*
Hira Nakhasi, *Food and Drug Administration*
Paul Nguewa, *Instituto de Salud Tropical, Universidad de Navarra*

Late-Breakers in Basic Sciences

Co-Chair: Naomi Forrester, *University of Texas Medical Branch*
Co-Chair: Rebekah Kading, *Colorado State University*

ASTMH Scientific Program Committee (cont.)

Late-Breakers in Clinical and Applied Sciences

Co-Chair: Barbara Herwaldt, Centers for Disease Control and Prevention

Co-Chair: Jason Maguire, Pfizer

Noreen Hynes, Johns Hopkins University

Late-Breakers in Malaria

Co-Chair: Stefan Kappe, Center for Infectious Disease Research

Co-Chair: Carol Sibley, University of Washington

Jonathan Juliano, University of North Carolina

Kent Kester, Sanofi Pasteur

Urszula Krzych, Walter Reed Army Institute of Research

Eleanore Sternberg, Pennsylvania State University

Malaria

Chair: Carol Sibley, University of Washington

Arlene Dent, Case Western Reserve University

Meghna Desai, Centers for Disease Control and Prevention

Mahamadou Diakite, Malaria Research & Training Center-USTTB

Silvia Di Santi, USP

Francisco-Javier Gamo, GlaxoSmithKline

Susanta Ghosh, National Institute of Malaria Research

Michael Good, Griffith University

Shannon Takala Harrison, University of Maryland

Jonathan Juliano, University of North Carolina

Patrick Kachur, Columbia University

Stefan Kappe, Center for Infectious Disease Research

Kent Kester, Sanofi Pasteur

Urszula Krzych, Walter Reed Army Institute of Research

Sanjai Kumar, Food and Drug Administration

Miriam Laufer, University of Maryland

Jessica Lin, University of North Carolina

Kim Lindblade, Centers for Disease Control and Prevention

Miranda Oakley, Food and Drug Administration

Karl Seydel, Michigan State University

Eleanore Sternberg, Pennsylvania State University

Moriya Tsuji, Rockefeller University

Sarah Volkman, Harvard T.H. Chan School of Public Health

Yimin Wu, PATH Malaria Vaccine Initiative

Meet the Professors

Chair: David Boulware, University of Minnesota

Molecular Parasitology

Chair: Julian Rayner, Wellcome Trust Sanger Institute

David Abraham, Thomas Jefferson University

Ahmed Aly, Tulane University

Manoj Duraisingh, Harvard T.H. Chan School of Public Health

Kami Kim, University of South Florida

Dylan Pillai, University of Calgary

David Serre, University of Maryland

Niraj Tolia, Washington University

One Health: The Interface of Human Health and Animal Diseases

Chair: Christopher Woods, Durham Veterans Administration Medical Center

Claire Cornelius, United States Army

David Morens, National Institute of Allergy and Infectious Diseases

Kristy Murray, Baylor College of Medicine

Opportunistic and Anaerobic Protozoa

Chair: Upinder Singh, Stanford University

Boris Striepen, University of Pennsylvania

Pneumonia, Respiratory Infections and Tuberculosis

Chair: Robert Breiman, Emory University

Abdullah Brooks, Johns Hopkins Bloomberg School of Public Health

Natasha Hochberg, Boston University

Keith Klugman, Bill & Melinda Gates Foundation

Samba Sow, Center for Vaccine Development Mali

Schistosomiasis-Helminths

Chair: Jennifer Friedman, Brown University

Stephen Davies, Uniformed Services University of the Health Sciences

Robert Greenberg, University of Pennsylvania

Michael Hsieh, Biomedical Research Institute

Emily McDonald, Rhode Island Hospital

Virology

Chair: Greg Ebel, Colorado State University

Anna Durbin, Johns Hopkins Bloomberg School of Public Health

Brett Forshey, DoD Global Emerging Infections Surveillance (GEIS)

Sharon Green, University of Massachusetts

Maria Guzman, "Pedro Kouri" Tropical Medicine Institute

Michael Holbrook, National Institute of Allergy and Infectious Diseases

Christopher Mores, Louisiana State University/Naval Medical Research Unit #6

Lyle Petersen, Centers for Disease Control and Prevention

John Schieffelin, Tulane University

Theodore Tsai, Takeda Vaccines

Nikos Vasilakis, University of Texas Medical Branch

Water, Sanitation, Hygiene and Environmental Health

Chair: Pavani Ram, University at Buffalo

Joseph Eisenberg, University of Michigan School of Public Health

Christine George, Johns Hopkins University

Eric Mintz, Centers for Disease Control and Prevention

Christine Moe, Emory University

Amy Pickering, Tufts University

ASTMH Fellowships, Travel Awards, and Grants



ASTMH is grateful for the support and partnership with the Bill & Melinda Gates Foundation.

BILL & MELINDA
GATES foundation

Alan J. Magill Fellowship

This fellowship, created in honor of Alan Magill, supports career-broadening experiences to enhance professional development and leadership opportunities beyond those traditionally available from within an applicant's home organization, and in so doing, equips awardees to later assume leadership and mentoring roles in various aspects of tropical medicine.

Committee Chair: Kent Kester, Sanofi Pasteur, United States

2018 Recipient



Abhilasha Karkey,
Patan Hospital, Nepal

2017 Recipient



Pedro Aide, *Centro de Investigacao em Saude de Manhica (CISM), Maputo, Mozambique*

ASTMH Annual Meeting Travel Awards

Chair: Nirbhay Kumar, Tulane University, United States

ASTMH offers travel awards to qualified students, early career investigators and scientists actively working in the tropical medicine field to attend the Annual Meeting. These awards facilitate participation for those who might not otherwise be able to attend.

ASTMH gratefully acknowledges the support received from the Bill & Melinda Gates Foundation.

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GATES foundation

Manfred Accrombessi, *Institut de Recherche Clinique du Benin (IRCB), Benin*

Abstract 319

Syed Fazil Ahamed, *St. John's Research Institute, India*

Abstract 190

Kristen Aiemjoy, *University of California San Francisco, United States*

Abstract 783

Munir Akkaya, *National Institutes of Health, United States*

Abstract 354

Abena Amoah, *Leiden University Medical Center, Netherlands*

Abstract 18

Racheal Aye, *Kenya Medical Research Institute-Wellcome Trust, Kenya*

Abstract 361

Justy Antony Chiramal, *St. John's National Academy of Health Sciences, India*

Abstract 502

David Cook, *National Institutes of Health, United States*

Abstract 1141

Eugenia Corrales-Aguilar, *University of Costa Rica, Costa Rica*

Abstract 575

Alexandra Cossio, *Corporacion Centro Internacional de Entrenamiento E Investigaciones Medicas, Colombia*

Abstract 572

Isadora De Siqueira, *FIOCRUZ, Brazil*

Abstract 215

Bruno Gomes, *FIOCRUZ, Brazil*

Abstract 132

Sherry Haller, *University of Texas Medical Branch, United States*

Abstract 220

ASTMH Fellowships, Travel Awards, and Grants (cont.)

Yabo Honkpehdji, *Centre de Recherches Medicales de
Iambarene, Gabon*
Abstract 507

Fang Huang, *National Institute of Parasitic Diseases, China*
Abstract 265

Fatou Joof, *Medical Research Council, The Gambia*
Abstract 991

J. Daniel Kelly, *University of California San Francisco
School of Medicine, United States*
Abstract 684

Damaris Matoke, *Kenya Medical Research Institute, Kenya*
Abstract 2077

Godfrey Mayoka, *University of Cape Town, South Africa*
Abstract 296

Oscar Mbare, *International Center of Insect Physiology and
Ecology, Kenya*
Abstract 438

Brandon Mercado, *Universidad Peruana Cayetano Heredia,
Bolivia*
Abstract 1468

Pallavi Mishra, *Weill Cornell Medicine, United States*
Abstract 612

Jose Moreira, *FIOCRUZ, Brazil*
Abstract 1392

Beth Mutai, *Kenya Medical Research Institute, Kenya*
Abstract 822

Julia Mwesigwa, *MRC Unit The Gambia at London School
of Hygiene & Tropical Medicine, The Gambia*
Abstract 403

Latif Ndeketa, *Malawi-Liverpool-Wellcome Trust Clinical
Research Program, Malawi*
Abstract 421

Leonardo Ortega-Lopez, *University of Glasgow, United
Kingdom*
Abstract 164

Alex Pauvolid-Correa, *FIOCRUZ, Brazil*
Abstract 217

Melissa Pender, *University of Utah School of Medicine,
United States*
Abstract 460

Yoenten Phuentshok, *National Center for Animal Health,
Bhutan*
Abstract 824

Anielle Pina Costa, *FIOCRUZ, Brazil*
Abstract 371

Melissa Richard-Greenblatt, *University of Toronto,
Canada*
Abstract 676

Peter Sangoro, *Ifakara Health Institute, Tanzania*
Abstract 448

Joseph Nelson Siewe Fodjo, *University of Antwerp,
Belgium*
Abstract 2089

Lwitiko Sikana, *Ifakara Health Institute, Tanzania*
Abstract 245

Morgan Smith, *University of Notre Dame, United States*
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Seynabou Sougoufara, *Keele University, School of Life
Sciences, Senegal*
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Nataya Sutthanont, *Chulalongkorn University, Thailand*
Abstract 133

Dipomin Traore, *Institut Pierre Richet Bouaké, Cote d'Ivoire*
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Jessica Tuan, *University of Connecticut, United States*
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Ana Valenciano Murillo, *University of Georgia, United
States*
Abstract 299

Megan Vogt, *Baylor College of Medicine, United States*
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Trung Vu, *Oxford University Clinical Research Unit, Vietnam*
Abstract 188

Xiaotong Zhu, *China Medical University, China*
Abstract 425

ASTMH Fellowships, Travel Awards, and Grants (cont.)

Young Investigator Awards

ASTMH gratefully accepts support for these awards in memory of William A. Petri, Sr. and Annie Liberati.

SUPPORTED WITH FUNDING FROM

Dr. Ann E. Petri and the late William A. Petri, Sr.

TECHLAB Inc.

The Petri Family



Michael Gottlieb, PhD

Thomas C. Green, Jr.

Joel Moss, MD, PhD

Chair: Edward Mitre, Uniformed Services University of the Health Sciences

Young Investigator Awards are given to young scientists who have completed the majority of work described in their accepted abstracts as undergraduates, graduate students or during the first two years of postdoctoral research. The early-career investigators hold a primary role in the reported experimental work, as evidenced by first-author status on their abstracts. 2018 recipients will be determined at the competitive judging event held on Sunday, October 28, at the Annual Meeting. Winners will be announced during the Awards Program at the opening session.

Congratulations to the 2017 Recipients

(Selected during ASTMH 66th Annual Meeting, November 2017)

Alexandra Grote, *New York University, United States*

Martina Laidemitt, *University of New Mexico, United States*

Inke Lubis, *London School of Hygiene & Tropical Medicine, United Kingdom*

David Markman, *Colorado State University, United States*

Katelyn Walzer, *Duke University, United States*

First-Tier Mention

David Berendes, *Georgia Institute of Technology, United States*

Charlotte Heuvelings, *Academic Medical Center/University of Amsterdam, The Netherlands*

Hyeogsun Kwon, *Iowa State University, United States*

Jiangtao Liang, *Virginia Tech, United States*

Carla Mavian, *University of Florida, United States*

Young Investigator Awards (cont.)

Honorable Mention

Manuela Carugati, *Duke University Medical Center, United States*

Sage Davis, *Eck Institute for Global Health, University of Notre Dame, United States*

Kenneth Gavina, *University of Alberta, Canada*

Raul Saraiva, *Johns Hopkins Bloomberg School of Public Health, United States*

Angela Toepp, *University of Iowa, United States*

Burroughs Wellcome Fund – ASTMH Postdoctoral Fellowship in Tropical Infectious Diseases (\$65,000)

ASTMH is grateful for the continuing commitment from the Burroughs Wellcome Fund.



Chair: Joseph Tucker, UNC China Project, China

This fellowship encourages long-term career development in tropical infectious diseases by providing support to individuals who will pursue careers focused on clinical research in tropical or developing areas of the world.

2018 Recipients



Lisa Bebell

Massachusetts General Hospital, United States



DeAnna Friedman-Klabanoff

University of Maryland, United States



Peyton Wilson

University of North Carolina at Chapel Hill, United States

ASTMH Fellowships, Travel Awards, and Grants (cont.)

Benjamin H. Kean Travel Fellowship in Tropical Medicine



Chair: A. Desiree LaBeaud, Stanford University, United States

Named after renowned educator, physician and researcher Benjamin H. Kean (1912-1993), this fellowship provides travel support to medical students who arrange clinical tropical medicine or tropical medicine research electives overseas.

2018 Recipients

- George Agyapong, *Harvard Medical School, United States*
Nahid Bakhtari (shared award with Ariel Yang), *Stony Brook School of Medicine, United States*
Diana Cheung, *NYIT College of Osteopathic Medicine, United States*
Daniel Farrell, *SUNY Upstate Medical University, United States*
Rose Gabert, *University of Washington School of Medicine, United States*
George Hafzalla, *Wake Forest School of Medicine, United States*
Sardis Harward, *University of Massachusetts Medical School, United States*
Rebecca Henderson, *University of Florida, United States*
Daniel Hodson, *Yale School of Medicine, United States*
Diana Jeang, *Emory University School of Medicine, United States*
Cesar Lopez, *University of North Carolina, United States*
Raffaele Macri, *Ross University School of Medicine, United States*
Matthew Neale, *Warren Alpert Medical School of Brown University, United States*
Joseph Perosky, *Michigan State University College of Human Medicine, United States*
Fartoon Said, *University of Calgary, Canada*
Michael Sikorski, *University of Maryland School of Medicine, United States*
Shelby Stoneking, *University of North Carolina, United States*
Margaret To, *Emory University School of Medicine, United States*
Grace Trompeter, *Jacobs School of Medicine and Biomedical Sciences at University at Buffalo, United States*
Malcolm Velasco, *Mercer University School of Medicine, United States*
Lisa Wanda, *University of North Carolina, United States*
Ariel Yang (shared award with Nahid Bakhtari), *Stony Brook School of Medicine, United States*

Centennial Travel Award in Basic Science Tropical Disease Research (\$25,000)

Chair: Joseph Vinetz, University of California San Diego, United States

This award provides support to individuals with doctoral-level degrees who travel to laboratories in the tropics to perform molecular, cellular or immunological studies of tropical infectious diseases.

2018 Recipients



Katherine Siddle, Broad Institute, United States

Robert E. Shope International Fellowship in Infectious Diseases (\$25,000)



Chair: Ann Powers, Centers for Disease Control and Prevention, United States

Named for ASTMH past president Robert E. Shope (1929-2004), one of the world's foremost authorities on insect-borne viruses, this fellowship provides support for travel, living expenses and research for doctoral level scientists working in laboratories overseas on studies pertaining to arbovirology and/or emerging tropical infectious diseases.

2018 Recipient



Cameron Myhrvold, Broad Institute, United States

ASTMH Subgroup Awards

American Committee of Medical Entomology (ACME) Student Travel Awards

Chair: Gonzalo Vazquez-Prokopec, Emory University, United States

The ACME travel awards support travel to the Annual Meeting for doctoral and post-doctoral students whose work involves arthropods of medical importance.

2018 Recipients

Young Investigator Award – Graduate

Leticia Smith, *Cornell University, United States*

Olivia Winokur, *University of California Davis, United States*

Young Investigator Award – International

Fabien Aubry, *Institut Pasteur, France*

Young Investigator Award – Post-Doc

Sarah Merklings, *Institut Pasteur, France*

American Committee of Medical Entomology (ACME) Breakthrough in Medical Entomology Award

Chair: Gonzalo Vazquez-Prokopec, Emory University, United States

This award is for outstanding recent contributions (within the past five years) to the study and/or practice of Medical Entomology that ultimately will contribute to reducing the burden of human diseases transmitted by arthropods. This award is designed to encourage and acknowledge significant advances in the field by investigators at any career stage. Examples of such advances include breakthrough research findings in vector biochemistry, molecular biology, genetics, genomics or insecticide resistance, or significant advances in technologies for vector surveillance or control.

2018 Recipient

Alvaro Molina-Cruz, *National Institutes of Health, United States*

American Committee of Medical Entomology (ACME) Future Leaders in International Medical Entomology Award

Chair: Gonzalo Vazquez-Prokopec, Emory University, United States

The Future Leaders fellowship is a competitive award offered to an outstanding junior medical entomology researcher (must be at the undergraduate to post-doctoral level) to showcase individuals that have matched interests to ACME's objectives of promoting medical entomology and reducing the burden of human diseases transmitted by arthropods globally. Applicants must be non-U.S. citizens from a low or low-middle income country.

2018 Recipients

Mabel Taracena, *Universidad del Valle de Guatemala, Guatemala*

Puja Tiwary, *Banaras Hindu University, India*

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) Travel Award for Low and Low-Middle Income (LMIC) Trainees

Chair: Christine Petersen, University of Iowa, United States

The ACMCIP student travel award recognizes a student or trainee conducting basic parasitology research who is primarily based in a low or low-middle income country.

2018 Recipient

Syed Yusuf Mian, *Jawaharlal Nehru University, India*

ASTMH Subgroup Awards

American Committee of Molecular Cellular and Immunoparasitology (ACMCIP) Award for Advanced Training

Chair: Christine Petersen, *University of Iowa, United States*

This award supports travel expenses for trainees to attend practical training courses in the fields of molecular, cellular or immunoparasitology. Trainees can use the award to attend any post-graduate level training course of at least one day in duration to explore new parasitological systems, gain hands-on skills in working with parasites and their hosts, and obtain advanced knowledge in cutting-edge research topics and technologies.

2018 Recipient

Ruwandi Kariyawasam, *University of Toronto, Canada*

American Committee on Arthropod-Borne Viruses (ACAV) Student/Post-Doc Travel Awards

Chair: A. Desiree LaBeaud, *Stanford University, United States*

The ACAV travel awards support travel to the Annual Meeting for graduate students or postdoctoral fellows who are actively conducting arbovirus research.

2018 Recipients

Juan Aguilar, *Federal University of Bahia, Brazil*

Nikita Cudjoe, *St. George's University, Grenada*

Laura Dickson, *Institut Pasteur, France*

Danilo Lemos, *University of California Davis, United States*

Daniela Michlmayr, *University of California Berkeley, United States*

Ranya Mulchandani, *London School of Hygiene & Tropical Medicine, United Kingdom*

Nivison Nery, Jr., *Federal University of Bahia, Brazil*

Maria Onyango, *New York State Department of Health, United States*

ASTMH Committee on Global Health (ACGH) Student/Post-Doc Travel Awards

Chair: Ramin Asgary, *George Washington University School of Public Health and Weill Cornell Medical College, United States*

The ACGH travel award program supports travel to the Annual Meeting for a student or postdoctoral fellow whose research directly promotes the practice of global health.

2018 Recipients

Mahfuza Talukder Flowra, *Universitas Gadjah Mada, Indonesia*

Sarah Boudova, *Indiana University School of Medicine, United States*

Elsevier Clinical Research Award

ASTMH appreciates the support for this award by Elsevier.

Chair: M. Patricia Joyce, *Centers for Disease Control and Prevention, United States*

This award recognizes excellence in clinically-oriented research presented by students (within six months of completing undergraduate or Master's level training, including medical undergraduate degrees) or those in graduate medical training of work submitted and presented at the Annual Meeting. 2018 recipients will be determined at the competitive judging event held on Sunday, October 28, during the Annual Meeting. Winners will be announced during the Awards Program at the opening session.

2017 Recipients (selected during ASTMH 66th Annual Meeting, November 2017)

First Place Inke Lubis, *London School of Hygiene & Tropical Medicine, United Kingdom*

Second Place: Menno Smit, *Liverpool School of Tropical Medicine, United Kingdom*

Third Place: Charlotte Heuvelings, *Academic Medical Center/University of Amsterdam, The Netherlands*

Program Information

Elsevier Clinical Research Award Competition

Sheraton – Orpheus (Eighth Floor)

Sunday, October 28, Noon – 3:00 p.m.

This award recognizes excellence in clinically-oriented research presented by students (within six months of completing undergraduate or Master's level training, including medical undergraduate degrees, or those in graduate medical training), of work submitted and presented at the Annual Meeting. Support these young scientists by attending their presentations during this session. View the session schedule on page 96.

Young Investigator Award Competition

Sheraton – Oak Alley (Fourth Floor), Rhythms II (Second Floor), Rhythms III (Second Floor), Nottoway (Fourth Floor) and Grand Couteau (Fifth Floor)

Sunday, October 28, 10 a.m. – 3 p.m.

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. View the session schedule on page 88.

ASTMH Communications Training Workshop

Sheraton – Grand Ballroom B (Fifth Floor)

Sunday, October 28, 10:30 a.m. – 2:30 p.m.

It is critical for researchers and clinicians to be able to clearly communicate about their work and explain the importance of tropical medicine/global health programs and advocate for research funding. To be effective advocates, to stand out from the crowd of important issues you need skills that help you to be persuasive and memorable. How can you prepare for an important presentation or manage challenging media interviews? How do you explain your research to people who might not know anything about your work, and get them invested in the outcome - with only minutes to make your case? This half-day course will teach you how to clearly and effectively communicate about your work. You will learn how to prepare and deliver messages, craft and tell persuasive stories, and how to stay in control of what you say in any meeting or interview. Time and again we see the power of these communications skills to change minds, build awareness and grab attention.

SESSION FULL

Late-Breaker Abstracts

These sessions feature brief presentations of important new data obtained after the closing date for abstract submission. Late-Breaker poster presentations will take place during the poster sessions on Monday, Tuesday and Wednesday. A schedule of Late-Breaker Abstract presentations can be found in your registration packet.

Symposium 42:

Alan J. Magill Malaria Eradication Symposium

Sheraton – Grand Ballroom C

Monday, October 29, 4 p.m. – 5:45 p.m.

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 will bring together leaders in the malaria field to summarize the challenges and advances in areas of relevance to the malaria elimination and eradication effort. This year the symposium will focus on surveillance, a key pillar of the WHO Global Strategy for Malaria 2016-30. Surveillance generates the data for how we measure progress, understand patterns of transmission, identify risk areas for focused response, provides the evidence for elimination, and serves as the basis for planning the response needed to ensure that global goals are attained.

The session will include an overview of the data and methods that underlie the WHO global malaria burden and trends; the role of modeling to support the targeting and combination of interventions; measurement in communities to target response; and use of molecular tools for surveillance to understand resistance.

These talks will be followed by a panel discussion of the challenges of bringing innovation to improve malaria surveillance as well as response to the emerging data on where malaria progress is advancing or stalling. Diverse viewpoints will be solicited from the panelists and audience.

Meet the Professors Sessions

Although open to all meeting attendees, students and trainees are especially encouraged to attend the Meet the Professors sessions. The speaker will present a clinical case of a tropical disease specific to a particular region that they have found challenging to manage or diagnose.

Program Information

ACMCIP Abstracts

Throughout this book, you will notice that some abstracts are followed by the notation “(ACMCIP abstract).” This notation means the abstract content pertains to molecular, cellular or immunoparasitology. ACMCIP refers to the American Committee of Molecular, Cellular and Immunoparasitology, an ASTMH subgroup. For more information, go to astmh.org/subgroups/acmcip.

Calling All Early- and Mid-Career Attendees

Are you a trainee or otherwise fairly new to research, global public health or clinical tropical medicine? The following sessions are designed to help build fundamental skills and perspectives for a successful start to your career. Mark your planner on the ASTMH Annual Meeting app and learn from experienced members of the various ASTMH professional communities.

Symposium 43

**ASTMH Committee on Global Health (ACGH)
Symposium II: Building a Successful Career
in Global Health – An Interactive Session with
Global Health Experts**

Sheraton – Grand Ballroom C (Fifth Floor)
Monday, October 29, 4 p.m. – 5:45 p.m.

Mid-Day Session 79

**Panel Discussion: A Journey to Become a
Successful Scientist**

Marriott – Mardi Gras EFGH (Third Floor)
Tuesday, October 30, 12:15 p.m. – 1:30 p.m.

**INCLUDED
WITH YOUR
REGISTRATION
FEE:
FREE Wi-Fi!**


**#TropMed18
#IamTropMed**

**Stop in at
the
TropMed Hub**

Events for Students, Trainees, Fellows, Residents and Junior Faculty

The TropStop – Student/Trainee Lounge*

Sheraton – Lagniappe (Second Floor)

This casual setting, designed with students, trainees and residents in mind (e.g., free coffee and free internet), is your place for a break from the fast pace of the meeting and to relax with colleagues and friends. This year, check out Career Chats held in the TropStop. This is your opportunity to meet professionals in the fields of tropical medicine and global health who will share their career stories and discuss topics and strategies to help you along your career path.

TropStop Career Chats – Faculty Available

Monday, October 29, 3 p.m. – 4 p.m.

Tuesday, October 30, 3 p.m. – 4 p.m.

Wednesday, October 31, 3 p.m. – 4 p.m.

Young Investigator Award Competition

Sunday, October 28, 10 a.m. – 3 p.m.

Sheraton – Oak Alley (Fourth Floor), Rhythms II (Second Floor), Rhythms III (Second Floor), Nottoway (Fourth Floor) and Grand Couteau (Fifth Floor)

Elsevier Clinical Research Award Competition

Sunday, October 28, Noon – 3 p.m.

Sheraton – Orpheus (Eighth Floor)

Student Reception*

Sunday, October 28, 4 p.m. – 5 p.m.

Sheraton – Waterbury (Second Floor)

The ASTMH Council invites all students, postdoctoral fellows and residents to the student reception. This reception is an opportunity to meet fellow trainees, network with colleagues and mentors and engage in conversation with Society leaders.

Meet the Professors 25*

Meet the Professors A

Monday, October 29, 12:15 p.m. - 1:30 p.m.

Marriott – Balcony LMN (Third Floor)

Meet the Professors 80*

Meet the Professors B

Tuesday, October 30, 12:15 p.m. - 1:30 p.m.

Marriott – Balcony LMN (Third Floor)

Meet the Professors 135*

Meet the Professors C

Wednesday, October 31, 12:15 p.m. - 1:30 p.m.

Marriott – Balcony LMN (Third Floor)

*Refreshments served

Program Information

Global Health by the Pint

Monday, October 29, 7 p.m. – 9 p.m.
Tuesday, October 30, 7 p.m. – 9 p.m.
Wednesday, October 31, 7 p.m. – 9 p.m.
*The Vintage, 3121 Magazine Street,
New Orleans, LA 70115*



Join us as we take ASTMH science to the public spaces of New Orleans in “Global Health by the Pint”. ASTMH members will give short interactive presentations about their work to members of the public at The Vintage (<https://www.thevintagenola.com/>), a relaxed café and bar on Magazine Street, with three talks featured each night. Come and support your colleagues and friends over a drink and bite to eat, and help share the exciting work of ASTMH with residents of our gracious host city. Bring your family and friends - this informal gathering is open to all, although speaking slots will be organized in advance. Contact Phaikiyeong Cheah (University of Oxford, Phaikiyeong@tropmedres.ac) or Lina Moses (Tulane University, Imoses2@tulane.edu) for more information.

Burroughs Wellcome Fund-ASTMH Postdoctoral Fellowship in Tropical Infectious Diseases



Following are abstract presentations to be made by recipients of the Burroughs Wellcome Fund-ASTMH Postdoctoral Fellowship in Tropical Infectious Diseases:

Katherine Dobbs, *Case Western Reserve University, United States*
Abstract 1785

Matthew Ippolito, *Johns Hopkins University School of Medicine, United States*
Abstracts 743, 1809

John Openshaw, *Stanford University, United States*
Abstract 22

Jonathan Parr, *University of North Carolina Chapel Hill, United States*
Abstract 1012

Point of Entry: First-Time Attendee Orientation

Sunday, October 28
2:30 p.m. – 3:30 p.m.
Sheraton – Grand Ballroom A (Fifth Floor)

Are you new to the ASTMH Annual Meeting and want to get the lay of the land? Don't miss our Point of Entry session on Sunday afternoon. ASTMH Past President Stephen Higgs will orient new attendees to the schedule, session structure and highlights of the Annual Meeting. Meet others attending the meeting for the first time and expand your professional network while learning the ins and outs of where to go and what to attend.

ASTMH Hosts New Orleans High School Students

Engage: Global Health
Tuesday, October 30
11 a.m. – 1 p.m.
Armstrong Ballroom (Sheraton – 8th Floor)

For the first time, ASTMH is pleased to host local school students at the Annual Meeting. ASTMH members and volunteers will engage the students with their work in short focused interactions at tables set up throughout the Armstrong Ballroom. A partnership between ASTMH, Tulane University and local schools, the goal is to enthuse the next generation of researchers with the fascinating world of tropical medicine and global health. Attendance is limited to the event volunteers and the high school students, but please greet the school groups as they make their way to and from the Armstrong Ballroom, and make them feel part of the ASTMH Annual Meeting!

Program Information

Poster Sessions

Marriott – Grand Ballroom (Third Floor)

Three poster sessions will be held in the Grand Ballroom of the Marriott. During these sessions, presenters will be available at their posters for discussion. There are additional times for poster viewing (presenters need not be in attendance during these time periods). We encourage attendees to visit the Poster Hall throughout the day.

Poster Session Schedule

Poster Session A

Monday, October 29

Setup 9:45 a.m. – 10:15 a.m.
 Viewing 10:15 a.m. – 4 p.m.
 Presentations/Light Lunch. Noon – 1:45 p.m.
 Dismantle. 4 p.m. – 6:15 p.m.

Poster Session B

Tuesday, October 30

Setup 9:45 a.m. – 10:15 a.m.
 Viewing 10:15 a.m. – 4 p.m.
 Presentations/Light Lunch. Noon – 1:45 p.m.
 Dismantle. 4 p.m. – 6:15 p.m.

Poster Session C

Wednesday, October 31

Setup 9:45 a.m. – 10:15 a.m.
 Viewing 10:15 a.m. – 4 p.m.
 Presentations/Light Lunch. Noon – 1:45 p.m.
 Dismantle. 4 p.m. – 5 p.m.

POSTER SESSION A

ENTRANCE

Virology

Malaria

Late-Breakers

Entomology

<p>Bacteriology – Enteric Infections</p> <p>Bacteriology – Systemic Infections</p> <p>Cestodes - Echinococcosis/ Hydatid Disease</p> <p>Cestodes – Taeniasis and Cysticercosis</p> <p>Clinical Tropical Medicine</p> <p>Helminths – Nematodes – Filariasis (Cellular and Molecular Biology)</p> <p>Helminths – Nematodes – Filariasis (Other)</p> <p>Integrated Control Measures for Neglected Tropical Diseases (NTDs)</p> <p>Kinetoplastida – Cellular and Molecular Biology (Including <i>Leishmania</i> and Trypanosomes)</p>	<p>Kinetoplastida – Diagnosis and Treatment (Including <i>Leishmania</i> and Trypanosomes)</p> <p>One Health: Interface of Human Health/Animal Diseases</p> <p>Pneumonia, Respiratory Infections and Tuberculosis</p> <p>Protozoa – Ameba/Giardia</p> <p>Protozoa – Other Protozoa</p> <p>Schistosomiasis and Other Trematodes – Epidemiology and Control</p> <p>Water, Sanitation, Hygiene and Environmental Health</p>
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Global Health

ENTRANCE

Program Information

POSTER SESSION B

ENTRANCE

Virology

Malaria

Entomology

Bacteriology – Enteric Infections
 Bacteriology – Other Bacterial Infections
 Bacteriology – Trachoma
 Clinical Tropical Medicine
 Helminths – Nematodes – Filariasis (Epidemiology)
 Helminths – Nematodes – Intestinal Nematodes
 Kinetoplastida – Diagnosis and Treatment (Including *Leishmania* and Trypanosomes)
 Kinetoplastida – Immunology (Including *Leishmania* and Trypanosomes)

One Health: Interface of Human Health/Animal Diseases
 Pneumonia, Respiratory Infections and Tuberculosis
 Schistosomiasis and Other Trematodes – Diagnostics and Treatment
 Schistosomiasis and Other Trematodes – Epidemiology and Control
 Water, Sanitation, Hygiene and Environmental Health

Global Health

Late-Breakers

ENTRANCE

POSTER SESSION C

ENTRANCE

Virology

Malaria

Entomology

Bacteriology – Enteric Infections
 Bacteriology – Other Bacterial Infections
 Clinical Tropical Medicine
 Helminths – Nematodes – Filariasis (Clinical)
 Helminths – Nematodes – Filariasis (Epidemiology)
 Helminths – Nematodes – Intestinal Nematodes
 HIV and Tropical Co-Infection
 Kinetoplastida – Epidemiology (Including *Leishmania* and Trypanosomes)

One Health: Interface of Human Health/Animal Diseases
 Pneumonia, Respiratory Infections and Tuberculosis
 Schistosomiasis and Other Trematodes – Immunology, Pathology, Cellular and Molecular Biology
 Water, Sanitation, Hygiene and Environmental Health

Global Health

Late-Breakers

ENTRANCE

Sponsored Symposium

From R&D to Access for Sleeping Sickness Elimination: Innovative Public-Private Partnerships for New Tools

Sponsored by Sanofi and Drugs for Neglected Diseases initiative (DNDi)

Sheraton - Waterbury (2nd Floor)

Monday, October 29, 7:15 p.m. - 9:15 p.m.

The first all-oral treatment for *Trypanosoma brucei gambiense* human African trypanosomiasis (g-HAT), co-developed through an innovative public-private partnership between Sanofi and the Drugs for Neglected Diseases initiative (DNDi) has proven to be effective and safe, according to results of clinical trials led by DNDi and numerous partners in DR Congo and Central African Republic, and published in *The Lancet* in October 2017. This new drug joins new diagnostics to round out the elimination toolbox for this fatal disease that is now at a historical low in terms of global disease burden.

CO-CHAIR

Victor Kande Betu Kumeso

NTD Director, Ministry of Health, Kinshasa, Democratic Republic of the Congo

Luc Kuykens

Senior Vice-President Global Health Programs, Sanofi, Gentilly, France

SESSION INTRODUCTION

Victor Kande Betu Kumeso

NTD Director, Ministry of Health, Kinshasa, Democratic Republic of the Congo

DISCUSSION FACILITATION

Luc Kuykens

Senior Vice President Global Health Programs, Sanofi, Gentilly, France

AN ALTERNATIVE MODEL FOR DRUG DEVELOPMENT: THE STORY OF FEXINIDAZOLE

Nathalie Strub-Wourgaft

Clinical Director, Drugs for Neglected Diseases initiative, Geneva, Switzerland

WORKING IN PARTNERSHIP FOR SLEEPING SICKNESS ELIMINATION: USING NEW TECHNOLOGIES

Erick Mwamba Miaka

Director, National HAT Programme, Kinshasa, Democratic Republic of the Congo

FINDING EVERY LAST CASE: THE ROLE OF DIAGNOSTICS IN HAT ELIMINATION

Veerle Lejon

Research Director, Institut de Recherche pour le Développement, Montpellier, France

ROLL-OUT OF ALL-ORAL TREATMENT: INTRODUCING A DONATION PROGRAM FOR SLEEPING SICKNESS

Luc Kuykens

Senior Vice-President Global Health Programs, Sanofi, Gentilly, France

STRIVING TOWARDS HAT ELIMINATION IN SOUTH SUDAN: AN OPERATIONAL PERSPECTIVE

Laurence Flévaud

Operational Centre Barcelona-Athens, Médecins Sans Frontières

MONITORING HAT ELIMINATION: PLANS FOR VALIDATION

Gerardo Priotto

Department of Control of Neglected Tropical Diseases, World Health Organization, Geneva, Switzerland

Meet us in the TropMed Hub

Visit the TropMed Hub in the Exhibit Hall (*Sheraton – Napoleon Ballroom, located near entrance*) and visit with representatives from:

- American Committee of Medical Entomology (ACME)
- American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP)
- American Committee on Arthropod-Borne Viruses (ACAV)
- American Committee on Clinical Tropical Medicine and Travelers' Health (ACCTMTH – Clinical Group)
- ASTMH Committee on Global Health (ACGH)
- ASTMH/AJTMH

Our subgroups provide unique forums for members to engage in core scientific, educational, advocacy and policy issues related to a specific expertise with fellow stakeholders of similar interests. Benefits include networking and pre-meeting courses and symposia activities planned for Annual Meetings to enhance career development.

Learn more about:

- What subgroups do
- How to get involved
- The benefits of becoming an ASTMH member
- Submitting material to the *American Journal of Tropical Medicine and Hygiene*

Onsite: What, When, Where

Social Media at the 67th Annual Meeting

Follow the 67th Annual Meeting on ASTMH social media channels. Visit astmh.org where you can access all social media outlets as follows:



Subscribe to the ASTMH Facebook page for updates from the Annual Meeting and for relevant content year round.



Follow **@ASTMH**. During the conference, you will be able to follow what your colleagues are tweeting by using the **#TropMed18** and **#IamTropMed** hashtags.



Enjoy classic interviews of pioneers in the field, such as William Reeves, Calista and Ottis Causey, Thomas Weller and Jordi Casals.



ASTMH Twitter Board

Sponsored by Takeda Pharmaceuticals International AG

If you're tweeting during the meeting, be sure to add the hashtag **#TropMed18** to your tweets so that your message gets through to other attendees or those following the meeting exclusively on Twitter. Using the hashtag is a great way to connect with your fellow tweeps, pick up new followers or, for exhibitors, drive traffic to your booth.

Registration

Marriott-Preservation Hall (Second Floor)

Annual Meeting Registration Hours

Sunday, October 28 9 a.m. – 7:30 p.m.
Monday, October 29 7 a.m. – 5 p.m.
Tuesday, October 30 7 a.m. – 5 p.m.
Wednesday, October 31 7 a.m. – 5 p.m.
Thursday, November 1 7 a.m. – 10:30 a.m.

The following food functions are included in the registration fee:

- Opening reception (Sunday)
- Student reception (Sunday)
- Poster session lunches (Monday, Tuesday, Wednesday)
- Coffee breaks

Badges/Meeting Access

Participation in the Annual Meeting is limited to registered attendees. An official badge is required for admission to all sessions, social activities and exhibit area. Do not place a business card into your badgeholder as identification. If there is an error on a badge, please have it corrected at the registration desk.

Spouse/Guest Registration

(Only for those outside the tropical medicine and global health field.)

Spouse/guest registration includes admission to the opening reception on Sunday and admission to the exhibit hall, plenary sessions, poster sessions and food functions only.

Hotel

Annual Meeting sessions and events will be held at the Sheraton New Orleans and New Orleans Marriott.

New Orleans Marriott

555 Canal Street
New Orleans, LA 70130
Phone +1-504-581-1000
Fax +1-504-523-6755

Sheraton New Orleans

500 Canal Street
New Orleans, LA 70130
Phone +1-504-525-2500
Fax +1-504-595-5552

Message Board

A message board will be available in the ASTMH registration area in Preservation Hall on the second floor of the Marriott. Check the message board often to retrieve your messages.

Americans with Disabilities Act (ADA)

ASTMH fully complies with the legal requirements of the ADA and the rules and regulations thereof.

Camera/Recording Restrictions and Unauthorized Photography

Only registered members of the media and attendees who receive prior approval from ASTMH staff may take cameras into the exhibit hall or use recording devices during sessions. Still and video photography, including photography by mobile phones, is strictly prohibited in educational sessions. Attendees found to be using cameras in educational sessions without permission will be asked to leave the conference and will not be issued a refund.

Onsite: What, When, Where

Impromptu Meeting Rooms for Attendees

Sheraton – Mid-City and Muses (Eighth Floor)

The Mid-City and Muses rooms on the eighth floor of the Sheraton are designated for committee meetings and other group meetings. Meeting room reservations are available on a first-come, first-served basis. Use the sign-up sheet located outside the rooms to reserve meeting time for your group.

Solicitations

Sales and promotional activities are restricted to exhibitors and must take place in their assigned exhibit area. Solicitations by unauthorized persons are strictly prohibited.

Press Room

Marriott – Audobon (5th Floor)

The press room is available for professional journalists reporting on the conference. ASTMH media kits are available. Media announcements and other details can be found in the press room.

Press room hours of operation are:

Sunday, October 28 Noon – 5 p.m.
 Monday, October 29 7:45 a.m. – 5 p.m.
 Tuesday, October 30 7:45 a.m. – 5 p.m.
 Wednesday, October 31 7:45 a.m. – 5 p.m.

Exhibits

Sheraton – Napoleon Ballroom (Third Floor)

The Annual Meeting features an exposition of displays by leading suppliers and vendors. A complete exhibitor and supporter directory starts on page 68.

Exhibit Hours

Sunday, October 28	7 p.m. – 9:30 p.m.
Monday, October 29	9:30 a.m. – 10:30 a.m. Noon – 1:45 p.m. 3:15 p.m. – 4:15 p.m.
Tuesday, October 30	9:30 a.m. – 10:30 a.m. Noon – 1:45 p.m. 3:15 p.m. – 4:15 p.m.
Wednesday, October 31	9:30 a.m. – 10:30 a.m. Noon – 2:30 p.m.

ASTMH Subgroup Information Tables/ TropMed Hub

Sheraton – Napoleon Ballroom (Third Floor)

Visit the information tables in the ASTMH exhibit hall located near the entrance, to learn about programs and activities for these subgroups:

- American Committee of Medical Entomology (ACME)
- American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP)
- American Committee on Arthropod-Borne Viruses (ACAV)
- American Committee on Clinical Tropical Medicine and Travelers' Health (ACCTMTH – Clinical Group)
- ASTMH Committee on Global Health (ACGH)

Career Development Employment Opportunities

Bulletin boards for posting employment opportunities are available in the registration area.

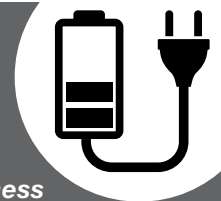
Career Center

Our online Career Center, available at astmh.org, features a wide range of available positions in the tropical medicine and hygiene field. Members can post resumes anonymously and search for jobs by keyword, location and job type. Employers can set up an account, post open positions on the ASTMH website and search the ASTMH resume bank for qualified applicants.

NEW! ASTMH Charging Stations

Sponsored by Novartis Social Business

Need a charge for your mobile device at TropMed? We have you covered! Charging stations are available in the Exhibit Hall at the Sheraton and in the Poster Hall at the Marriott. Charge your devices in a secure locker while you attend sessions or network at a coffee break. A safe and convenient way to keep powered throughout the meeting.



Onsite: What, When, Where

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 32.25 *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. CME certificates will be mailed in early January 2019. Complete your online CME Attendance and Evaluation Form by accessing the evaluation form at astmh.org/annual-meeting.

NEW! ABIM MOC Credit

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 32.25 Medical Knowledge MOC points in the American Board of Internal Medicine's (ABIM) Maintenance of Certification (MOC) program. Participants will earn MOC points equivalent to the amount of CME credits claimed for the activity. It is the CME activity provider's responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC credit. If you wish to receive ABIM MOC credit, please register for CME credit for \$150 US. ABIM MOC credit cannot be issued unless the registration includes payment for CME credit. Attendees seeking ABIM MOC credit must also provide their ABIM MOC ID number and date of birth during the registration process.

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 32.25 *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 determining body, the American Association of Veterinary State Boards RACE Committee. Anticipating approval, ASTMH is typically notified just prior to the start of the Annual Meeting. Visit the onsite registration desk for a veterinarian continuing education evaluation form. This form will indicate the specific sessions that qualify for veterinary CE credits. Pay the \$150 US documentation fee at the registration desk. Complete and return the evaluation form to the registration desk by Thursday, November 1 at 10:30 a.m. or send the form to the ASTMH office following the meeting. A continuing education certificate will be sent by postal mail in January 2019.

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.

Disclaimer

ASTMH is not responsible for the opinions expressed by speakers or the content of speaker slides and handout materials.

Miss a Session?

All Registrants Receive a Webcast Library

Can't figure out how to be in two places at once? Problem solved! All registrants will receive access to Webcasts (MP4 recordings), for each session within 48 hours after the session has ended. Slides will be available for sessions where permission has been granted by presenters.

Onsite: What, When, Where

Information for Speakers: Speaker Ready Room and Audiovisual Guidelines

Sheraton – Maurepas Room (Third Floor)

Marriott – Mardi Gras Ballroom ABC (Third Floor)

Hours

Sunday, October 28 Noon – 6 p.m.

Monday, October 29 7 a.m. – 5 p.m.

Tuesday, October 30 7 a.m. – 5 p.m.

Wednesday, October 31 7 a.m. – 5 p.m.

Thursday, November 1 7 a.m. – 10:30 a.m.

Important: Widescreen Format for Slide Presentations! The slide presentation format is widescreen HD format (16:9 aspect ratio).

Audio visual staff will be available in the Speaker Ready Room to answer questions about the slide presentation format or to assist in converting presentations to the widescreen HD format. Please note that slide presentations using the 4:3 aspect ratio will display correctly, but black frames will appear on the sides of the screen when presented.

Load your presentation in the Speaker Ready Room of the hotel where your presentation will take place 24 hours prior to your session. If you are unable to do so, visit the Speaker Ready Room of the hotel where your presentation will take place as early as possible on the morning of your presentation. Speakers can begin accessing the Speaker Ready Rooms on Sunday, October 28 at noon.

Slide Presentation Format Guidelines

- Save your presentation as a Microsoft PowerPoint file in a format that is compatible with PowerPoint 2016.
- Save your file in a PPTX format for both Macintosh and PC.
- Test your presentation on a Windows machine running Windows 7 to ensure your presentation runs properly.

All meeting rooms will be equipped with one Windows 7 computer and PowerPoint 2016 software, screen, LCD projector display device, microphone and laser pointer. You will not be permitted to connect your own computer to the LCD projector. Your presentation will be run from the AV technician's PC-based computer. Therefore, you should visit the Speaker Ready Room in advance of your session, with your presentation saved to a storage device (USB flash drive). Please inform your meeting room technician as to any special needs e.g. video playback or audio playback in your presentation.

Embedded Videos

If your presentation includes video, it is imperative that you visit the Speaker Ready Room in advance of your presentation to ensure compatibility with meeting equipment. Embedded videos should be saved in mp4 or .wmv format. Quicktime .mov, will not be compatible. Embedded audio should be saved in mp3 or .wav format.

Audio Visual Guidelines

Important Things to Remember

- The slide presentation format is widescreen HD format (16:9 aspect ratio)
- Slide presentations using the 4:3 aspect ratio will display correctly, but black frames will appear on the sides of the screen when presented
- Save your presentation as a Microsoft PowerPoint file in a format that is compatible with PowerPoint 2016
- Save your file in a PPTX format for both Macintosh and PC
- All meeting rooms will be equipped with one Windows 7 computer and PowerPoint 2016 software

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.

Update Course in Clinical Tropical Medicine and Travelers' Health

This two-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 CTropMed® Exam will be held on Saturday, November 14, 2020, in conjunction with the ASTMH 69th Annual Meeting, November 15-19, 2020 at the Metro Toronto Convention Centre, Toronto, Ontario, Canada.

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 licensed medical professionals who 1) have passed an ASTMH-accredited diploma course or have extensive professional experience in clinical tropical medicine, 2) have experience in a clinical setting in the tropics, 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.

The 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.

MARK YOUR CALENDAR

World Malaria Day 2019
April 25, 2019

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.



Check Out Our New 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
- ▶ Elsevier Clinical Research Award Competition
- ▶ Annual Meeting
- ▶ Student Reception
- ▶ Speed-Networking with the Experts
- ▶ Young Investigator Awards
- ▶ Advocacy

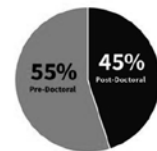


What ASTMH (
 (click on a link below
 • Discounted Mem
 • ASTMH Subgroup
 • Annual Meeting
 • Funding Opportu
 • Advocacy
 • Additional Resour

Look for the Pre-/Post Docs page under the Education & Resources Tab



Total Members



Pre-Doc/Post-Doc Members

Session Topic Guide

General Interest/Multidisciplinary

Sunday

Plenary Session 1: Plenary Session I: Keynote Address and Awards Program

Monday

Poster Session 22: Poster Session A: Presentations and Light Lunch

Special Session 49: Ponder to Probe: A Cosmopolitan Debate and Peer Networking Session

Plenary Session 50: Plenary Session II: Charles Franklin Craig Lecture

Tuesday

Symposium 76: The Intersection of Advocacy, Policy and Social Media: A Washington, DC, Primer

Poster Session 77: Poster Session B: Presentations and Light Lunch

Plenary Session 107: Plenary Session III: Commemorative Fund Lecture

Wednesday

Poster Session 133: Poster Session C: Presentations and Light Lunch

Session 144: ASTMH Annual Business Meeting

Special Session 158: Moving back Home: Strategies for Returning back to LMICs after Training Abroad

Plenary Session 159: Plenary Session IV: President's Address

Clinical Tropical Medicine

Monday

Symposium 4: Clinical Group Symposium I (American Committee on Clinical Tropical Medicine and Travelers' Health – ACCTMTH): The Vincenzo Marcolongo Lecture and Panel Discussion

Symposium 15: Clinical Group Symposium II (American Committee on Clinical Tropical Medicine and Travelers' Health – ACCTMTH): Assess Your Knowledge of Clinical Tropical Medicine

Late-Breaker Abstract Session 23: Late-Breakers in Clinical and Applied Sciences

Meet the Professors 25: Meet the Professors A: Engimatic and Teaching Cases

Scientific Session 28: Clinical Tropical Medicine I

Symposium 35: Pathophysiology and Treatment of Severe Malaria

Scientific Session 40: Clinical Tropical Medicine II

Tuesday

Symposium 53: Innovative Treatment Strategies for Severely Ill Infants and Children in Low-Resource Settings - Thinking Beyond Antibiotics

Symposium 66: What's the Skinny on Skin in Neglected Tropical Diseases?

Meet the Professors 80: Meet the Professors B: Engimatic and Teaching Cases

Symposium 82: Overcoming Challenges in Screening and Diagnosis of Chagas Disease

Symposium 96: Malaria Co-Morbidity in Sub-Saharan Africa

Wednesday

Symposium 110: Global Angiostrongyliasis: An Emerging Clinical Challenge

Symposium 123: Ethics in Tropical Public Health Today: Issues in NTDs

Meet the Professors 135: Meet the Professors C: Engimatic and Teaching Cases

Symposium 137: Travel Medicine Challenges for the Practitioner

Symposium 146: Onchocerciasis Associated Epilepsy: An Important Neglected Public Health Problem

Thursday

Symposium 161: Quality in Clinical Parasite Diagnostics - How Good is it Really?

Diarrhea and Bacterial Illness

Monday

Scientific Session 5: Bacteriology: Cholera

Scientific Session 26: Bacteriology: Other

Symposium 32: Integration for Impact: Preventing Typhoid Through Policy, Vaccines and WASH

Session Topic Guide (cont.)

Tuesday

Symposium 65: Advancing O-Antigen-Based Vaccines Against *Shigella*: The Need, the Candidates, Challenge Models and Considerations for Licensure and Introduction

Scientific Session 86: Bacteriology: *Salmonella*/Typhoid/Plague

Scientific Session 95: Bacteriology: Trachoma

Wednesday

Symposium 112: The Spread of *Streptococcus* and the Urgent Need for a Vaccine

Symposium 125: Reducing Cholera Illness and Deaths in the Most Vulnerable Populations

Symposium 136: Re-Emergence of a Neglected Bacterial Enteric Disease: *Campylobacter*, an Old Pathogen With New Problems

Thursday

Symposium 176: Rotavirus Vaccines: Progress, Challenges and the Road Ahead

Symposium 179: Barriers and Opportunities in Driving Down the Burden of Diarrheal Disease Among Children Under Age 5: Where Do We Go from Here?

Ectoparasite-Borne Diseases

Monday

Scientific Session 62: Ectoparasite-Borne Disease

Tuesday

Symposium 75: Bite Sized - Updates on the Impact of the Sand Fly Vector Components on Leishmaniasis

Entomology

Monday

Scientific Session 9: Mosquitoes: Insecticide Resistance and Control I

Scientific Session 18: Mosquitoes: Vector Biology - Epidemiology I

Scientific Session 37: Mosquitoes: Vector Biology - Epidemiology II

Scientific Session 46: Mosquitoes: Insecticide Resistance and Control II

Tuesday

Symposium 63: New Tools to Fight Old Foes: Transgenic Approaches for Control of Vector-Borne Disease

Symposium 89: American Committee of Medical Entomology (ACME) Symposium I: Annual Business Meeting, Awards and Hoogstraal Medal Presentations and Networking Reception

Symposium 102: American Committee of Medical Entomology (ACME) Symposium II: The CDC Regional Centers of Excellence for Vector-Borne Disease

Wednesday

Scientific Session 120: Mosquitoes - Biochemistry and Molecular Biology

Scientific Session 132: Mosquitoes: Molecular Genetics and Genomics

Symposium 157: Advancing a Spatial Repellent Category for Public Health Use: New Insights, Considerations and Remaining Challenges

Thursday

Scientific Session 170: Arthropods: Other Arthropods

Symposium 177: Chagas' Disease in the United States – Is it Time for Primary Prevention?

Symposium 178: Integrated Vector Management in Malaria Elimination Settings: Charting the Way forward in the Americas

Symposium 181: Blood Feeding and Pathogen Transmission: It's All in the Spit

Filariasis

Monday

Scientific Session 2: Filariasis: Epidemiology and Control I

Scientific Session 12: Filariasis: Epidemiology and Control II

Symposium 27: Test-And-Not-Treat Strategy for Onchocerciasis Elimination in Loiasis Co-Endemic Areas: Empirical Evidence for Safe, Effective and Efficient Up-Scaling of a Promising Strategy

Session Topic Guide (cont.)

Tuesday

Symposium 30: A Roadmap for Ivermectin as a Complementary Vector Control Tool for Malaria

Scientific Session 52: Filariasis: Molecular Biology, Immunology and Diagnostics

Wednesday

Symposium 115: Enhancing and Integrating Morbidity Management in LF Endemic Countries to Achieve Sustainability Development Goals

Symposium 146: Onchocerciasis Associated Epilepsy: An Important Neglected Public Health Problem

Thursday

Scientific Session 172: Filariasis: Clinical

Global Health

Monday

Symposium 13: Innovations for Mitigating Response to Outbreak-Prone Diseases: A Challenge to ASTMH Attendees to Pitch Their Innovations for Reducing Risk, Improving Prediction and Delivering Better Healthcare Tools

Symposium 16: The Importance of Social Science Research in Tackling Antimicrobial Resistance in Low and Middle-Income Countries

Symposium 24: Fireside Chats with Global Health Greats: The Importance of Learning From Failure

Symposium 31: ASTMH Committee on Global Health (ACGH) Symposium I: The Local-Global Phenomenon of mHealth: How and Why Global Health Starts at Home

Symposium 32: Integration for Impact: Preventing Typhoid Through Policy, Vaccines and WASH

Symposium 36: Infectious Disease Research in Vulnerable Populations: Evaluating the Role of Novel Diagnostics

Symposium 39: 100,000 Papers Later: Reviewing and Mapping the Etiology of Non-Malarial Febrile Illnesses Globally

Symposium 43: ASTMH Committee on Global Health (ACGH) Symposium II: Building a Successful Career in Global Health: An Interactive Session with Global Health Experts

Tuesday

Symposium 55: Combating Antimicrobial Resistance: A Global Health Priority

Symposium 69: Debate: Secondary Data Users Should Pay to Access Individual Level Research Data

Symposium 81: Vector-Borne Diseases in Agricultural Landscapes

Symposium 83: “The Tropical Bookshelf” Authors’ Panel with Douglas Preston and Richard Preston

Symposium 94: From the Lab to the Field: Solutions for Women’s Career Advancement in Tropical Medicine and Global Health

Symposium 98: Climate Services for Health: Improving Public Health Decision-Making in a New Climate

Scientific Session 99: Global Health: Prevention and Control of Malaria and Other Vector-Borne Diseases

Wednesday

Scientific Session 114: Global Health: Maternal, Child and Neonatal Health

Symposium 119: Predicting, Investigating and Ameliorating Global Epidemic Leptospirosis

Symposium 147: Real-Time Epidemic Analysis and Forecasting

Symposium 149: Technological Innovations for Enhancing the Performance of Tropical Disease Control Programs

Symposium 150: Proactive Community Case Detection and Management of Malaria, Diarrhea, Pneumonia and Malnutrition

Symposium 155: The Nexus of Poop and Public Health: Harnessing the Human Gut Microbiome for Global Health

Thursday

Symposium 162: The Impact of Improving Laboratory Services on Public Health

Symposium 169: Controlled Human Infection Studies: Experiences and Opportunities from LMICs

Symposium 174: Implementing Disease and Control Programs in Urban Settings

Scientific Session 175: Global Health: Disease Surveillance and Outbreaks Response

Symposium 179: Barriers and Opportunities in Driving Down the Burden of Diarrheal Disease Among Children Under Age 5: Where Do We Go from Here?

Session Topic Guide (cont.)

Scientific Session 183: Global Health: Community Health Systems and Operational Program Implementation

HIV and Tropical Co-Infections

Tuesday

Scientific Session 51: HIV and Tropical Co-Infections

Thursday

Symposium 166: Combating Fungal Co-Infections in Advanced HIV Care: What We Need to Know to Be Ready

Integrated Control Measures for Neglected Tropical Diseases (NTDs)

Monday

Symposium 45: Snakebite Envenoming

Tuesday

Symposium 57: Progress Towards the Global Elimination of Trachoma through Integrated NTD Programs

Scientific Session 70: Integrated Control Measures for Neglected Tropical Diseases

Special Event 104A: "Minutes to Die" Documentary Screening

Wednesday

Symposium 115: Enhancing and Integrating Morbidity Management in LF Endemic Countries to Achieve Sustainability Development Goals

Symposium 123: Ethics in Tropical Public Health Today: Issues in NTDs

Symposium 139: Challenges and Solutions When Nearing Elimination of the Kinetoplastid Diseases

Thursday

Symposium 165: Neglected Tropical Diseases Prevalence Survey Methodologies Used in Refugee Camps: Experiences from Three Countries

Intestinal and Tissue Helminths, Cestodes

Monday

Scientific Session 7: Cestodes: Cysticercosis and Echinococcosis

Scientific Session 38: Intestinal and Tissue Helminths: Soil-Transmitted Helminths - Biology and Immunology

Tuesday

Scientific Session 64: Intestinal and Tissue Helminths: Soil-Transmitted Helminths - Epidemiology and Control

Kinetoplastida

Tuesday

Symposium 75: Bite Sized - Updates on the Impact of the Sand Fly Vector Components on Leishmaniasis

Symposium 82: Overcoming Challenges in Screening and Diagnosis of Chagas Disease

Symposium 92: Progress on the Development of *Leishmania* Vaccines

Wednesday

Scientific Session 109: Kinetoplastida: Diagnosis, Treatment and Vaccine Development

Scientific Session 122: Kinetoplastida: Epidemiology and Diagnosis

Symposium 129: Cryptic Reservoirs of *T.B. gambiense*: A Threat to HAT Elimination?

Scientific Session 152: Kinetoplastida: Molecular Biology and Immunology

Thursday

Symposium 173: Inhibitory Molecules and Immune Check Point Targets for Host Directed Therapy in Leishmaniasis

Session Topic Guide (cont.)

Malaria

Monday

Scientific Session 8: Alternative Tools for Malaria Diagnosis

Symposium 10: Building a Combination Platform For New Antimalarial Combination Therapies

Scientific Session 11: Malaria: Epidemiology - Recent Progress in Advancing Surveillance, Measurement and Modeling for Program Success

Symposium 19: Transmission Blocking Immunity: From Biology to Interventions

Scientific Session 20: Malaria: Chemotherapy and Drug Resistance

Symposium 30: A Roadmap for Ivermectin as a Complementary Vector Control Tool for Malaria

Scientific Session 33: Case Detection for Malaria Elimination

Symposium 42: Alan J. Magill Malaria Eradication Symposium

Tuesday

Scientific Session 59: Malaria: Pre-Clinical and Clinical Drug Development - Tools, Novel Approaches and New Candidates

Scientific Session 60: Malaria: Epidemiology - Risk Factors, Intervention Studies and Impact

Symposium 61: Genetic Epidemiology for Malaria Elimination

Symposium 72: Pathway to Deployment of Gene Drive Mosquitoes as a Potential Biocontrol Tool for Elimination of Malaria in Sub-Saharan Africa

Symposium 73: Next Generation Rapid Diagnostic Tests for Malaria: Prospects and Considerations

Symposium 74: Final Results of the Tracking Resistance to Artemisinin Collaboration (TRACII) Project

Scientific Session 87: Malaria: Innovation and Challenges in Malaria Research and Control

Symposium 90: Malaria Transmission Biology and Its Role in the Emergence and Spread of ACT Resistance

Scientific Session 91: Malaria: Immunology

Symposium 96: Malaria Co-Morbidity in Sub-Saharan Africa

Symposium 103: Unraveling the Biology of the Hypnozoite - Integrating Findings From Lab Models and Field Studies of *Plasmodium vivax*

Scientific Session 104: Modeling in Malaria

Wednesday

Scientific Session 116: Malaria: Impact and Adaptation in Vector Control

Scientific Session 117: Malaria: Biology and Pathogenesis

Scientific Session 118: Malaria Elimination in Asia and Africa

Symposium 130: Moving Beyond Passive Case Detection: Evidence-Based Approaches to Planning and Implementing Active Surveillance Strategies in Malaria Elimination Settings

Scientific Session 131: Malaria: Vaccines

Late-Breaker Abstract Session 134: Late-Breakers in Malaria

Symposium 141: IRS and Drug-Based Malaria Control: Interaction, Timing and Next Steps

Symposium 142: Naturally Acquired Immunity to Malaria - Updates From the Field

Scientific Session 143: Genomic Tools and Insights into Malaria Transmission and Host Susceptibility

Symposium 145: Supporting Quality and Child Friendly Malaria Interventions

Symposium 151: Accelerating Malaria Elimination Through Private Sector Engagement: Dynamic Strategies to Better Localize Cases to Test, Treat and Track in the Greater Mekong Subregion (GMS)

Symposium 156: Cell-to-Cell Communications Underlying Malarial Life Cycle Transitions

Thursday

Symposium 167: Short Course Primaquine Regimen For the Radical Cure of *Plasmodium vivax*

Symposium 168: Why is Malaria Transmission Persisting in Some Contexts Despite High Coverage of Vector Control Tools, Such as LLINs and IRS? Results From Recent Studies Across Three WHO Regions

Symposium 180: Accelerating the Decline in Malaria Cases and Deaths: Targeting Gaps in Malaria Intervention Coverage

Scientific Session 182: Malaria: Prevention

Session Topic Guide (cont.)

Molecular Parasitology

Monday

Scientific Session 21: American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Malaria - Host-Parasite Interactions and Host Responses

Symposium 34: The 16th Annual American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) Symposium: Parasite Reservoirs: Extent, Utility and Relevance to Disease Eradication

Scientific Session 44: American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Malaria and Protozoans - Molecular and Cellular Biology

Symposium 47: CRISPR/Cas9 Approaches for Understanding Apicomplexan Biology

Tuesday

Scientific Session 58: American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Worms and Trematodes: Immunology and Vaccines

Late-Breaker Abstract Session 78: Late-Breakers in Basic Sciences

Scientific Session 101: American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Parasites - Molecular, Cellular and Immunoparasitology

Wednesday

Scientific Session 121: American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Worms and Trematodes - Molecular and Cellular Biology

Scientific Session 154: American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Malaria - Genome Scale Approaches

Symposium 161: Quality in Clinical Parasite Diagnostics - How Good is it Really?

One Health: Interface of Human Health/Animal Diseases

Monday

Scientific Session 48: One Health: Interface of Human Health/Animal Diseases

Tuesday

Symposium 81: Vector-Borne Diseases in Agricultural Landscapes

Symposium 100: Health and Livelihoods of Rural Communities: The Impacts of Zoonotic Diseases of Livestock

Thursday

Symposium 163: Can We Make Rabies History? One Health Approaches to Controlling a Neglected and Preventable Killer

Opportunistic and Anaerobic Protozoa

Thursday

Scientific Session 171: Protozoa

Pneumonia, Respiratory Infections and Tuberculosis

Tuesday

Symposium 68: The Big One: Influenza -1918 and Now

Symposium 85: Updates in Universal Influenza Vaccine Research

Wednesday

Scientific Session 140: Pneumonia, Respiratory Infections and Tuberculosis I

Scientific Session 153: Pneumonia, Respiratory Infections and Tuberculosis II

Schistosomiasis-Helminths

Monday

Scientific Session 6: Schistosomiasis - Trematodes: Immunology, Pathology, Cellular, Molecular

Scientific Session 17: Schistosomiasis - Trematodes: Epidemiology and Control

Session Topic Guide (cont.)

Tuesday

Scientific Session 93: Schistosomiasis and Other Trematodes: Diagnosis and Treatment

Symposium 105: A Countdown on Schistosomiasis Control: Why Precision Mapping and Expanded Access to Praziquantel Treatment is Needed Now and Even More in the Future

Wednesday

Symposium 127: Bumps in the Road to MDA-Based Schistosomiasis Control: Why Some Regions Will (and Others Will Not) Reach the 2020 or 2025 WHO Roadmap Goals

Thursday

Symposium 160: Redefining Control for Schistosomiasis: Identifying New Targets for Morbidity Control

Virology

Monday

Symposium 3: American Committee on Arthropod-Borne Viruses (ACAV) Symposium I: Annual Business Meeting, Awards and Research Presentations by Previous Awardees

Symposium 14: American Committee on Arthropod-Borne Viruses (ACAV) Symposium II: History of Arbovirology: How the Past Informs the Present

Scientific Session 29: Chikungunya and Other Alphaviruses

Scientific Session 41: Viral Hemorrhagic Fevers

Tuesday

Scientific Session 54: Dengue: Pathogenesis/Immunology

Symposium 56: Overcoming Challenges in Drug Discovery and Development for Rare and Neglected Viral Infections

Scientific Session 67: Dengue: Vaccines

Mid-Day Session 79: Panel Discussion: A Journey to Become a Successful Scientist

Scientific Session 84: West Nile and Other Viruses

Symposium 85: Updates in Universal Influenza Vaccine Research

Symposium 97: Hepatitis E - The Unremitting Challenge

Symposium 108: Tackling Outbreaks

Wednesday

Scientific Session 111: Zika I

Symposium 113: Ebola: Has the Tide Turned in Combating This Disease?

Scientific Session 124: Zika II

Symposium 126: Recent Advances in Viral Hemorrhagic Fever Research

Symposium 138: Insights From Prospective Cohort Studies to Understand the Epidemiology of Severe Dengue and Inform Dengue Vaccine Evaluations

Symposium 148: International Zika Cohort Studies

Thursday

Symposium 164: Japanese Encephalitis, No Longer Neglected: A Model for Other New Vaccines

Symposium 176: Rotavirus Vaccines: Progress, Challenges and the Road Ahead

Water, Sanitation, Hygiene and Environmental Health

Tuesday

Scientific Session 71: Water, Sanitation, Hygiene and Environmental Health I

Scientific Session 88: Water, Sanitation, Hygiene and Environmental Health II

Wednesday

Symposium 128: Sanitation at Scale: Implementation, Outcomes and Equity

ASTMH Council, Subgroup and Committee Meetings

Saturday, October 27

ASTMH Council Meeting

Sheraton - Waterbury (2nd Floor)
Saturday, October 27, Noon - 6 p.m.

Sunday, October 28

Burroughs Wellcome Fund/ASTMH Fellowship Committee Meeting

Sheraton - Bacchus (8th Floor)
Sunday, October 28, 9 a.m. - 11 a.m.

American Committee on Arthropod-Borne Viruses (ACAV) SIE Subcommittee Meeting

Marriott - Preservation Hall Studio 2 (2nd Floor)
Sunday, October 28, 11 a.m. - Noon

American Committee on Arthropod-Borne Viruses (ACAV) SIRACA Subcommittee Meeting

Marriott - Preservation Hall Studio 2 (2nd Floor)
Sunday, October 28, Noon - 2 p.m.

American Committee on Arthropod-Borne Viruses (ACAV) SALS Subcommittee Meeting

Marriott - Preservation Hall Studio 2 (2nd Floor)
Sunday, October 28, 2 p.m. - 3:30 p.m.

Young Investigator Award Committee Meeting

Sheraton - Oak Alley (4th Floor)
Sunday, October 28, 3 p.m. - 4 p.m.

ASTMH Committee on Global Health (ACGH) Council Meeting

Marriott - Bonaparte (4th Floor)
Sunday, October 28, 3:30 p.m. - 5:30 p.m.

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) Council Meeting

Marriott - Preservation Hall Studio 1 (2nd Floor)
Sunday, October 28, 3:30 p.m. - 5:30 p.m.

Clinical Group Council Meeting (American Committee on Clinical Tropical Medicine and Travelers' Health- ACCTMTH)

Marriott - Galvez (5th Floor)
Sunday, October 28, 3:30 p.m. - 5:30 p.m.

American Committee of Medical Entomology (ACME) Council Meeting

Marriott - Iberville (4th Floor)
Sunday, October 28, 4 p.m. - 5:30 p.m.

American Committee on Arthropod-Borne Viruses (ACAV) Council Meeting

Marriott - Preservation Hall Studio 2 (2nd Floor)
Sunday, October 28, 4 p.m. - 5:30 p.m.

Monday, October 29

ASTMH Diploma Course Directors Meeting

Sheraton - Orpheus (8th Floor)
Monday, October 29, 7 a.m. - 8 a.m.

Clinical Standards and Treatment Guidelines Committee Meeting

Sheraton - Zulu (8th Floor)
Monday, October 29, 7 a.m. - 8 a.m.

Clinical Tropical and Travel Medicine Education Program Committee Meeting

Sheraton - Proteus (8th Floor)
Monday, October 29, 7 a.m. - 8 a.m.

ASTMH Travel Awards Meeting

Sheraton - Armstrong Ballroom (8th Floor)
Monday, October 29, 7 a.m. - 8 a.m.

Kean Fellowship Committee Meeting

Marriott - Preservation Hall Studio 5 (2nd Floor)
Monday, October 29, 12:15 p.m. - 1:30 p.m.

Courses Committee Meeting

Marriott - Riverview I (41st Floor)
Monday, October 29, 12:15 p.m. - 1:30 p.m.

ASTMH Council, Subgroup and Committee Meetings

Tuesday, October 30

Clinical Group (ACCTMTH) Past Presidents Meeting

Sheraton - Proteus (8th Floor)

Tuesday, October 30, 7 a.m. - 8 a.m.

Shope Fellowship Committee Meeting

Sheraton - Crescent (4th Floor)

Tuesday, October 30, 7 a.m. - 8 a.m.

AJTMH Editorial Board Meeting

Sheraton - Grand Couteau (5th Floor)

Tuesday, October 30, 7 a.m. - 8 a.m.

Wednesday, October 31

Diploma Course Certification Committee Meeting

Sheraton - Crescent (4th Floor)

Wednesday, October 31, 7 a.m. - 8 a.m.

Scientific Program Committee Meeting

Sheraton - Armstrong Ballroom (8th Floor)

Wednesday, October 31, 7 a.m. - 8 a.m.

ASTMH Past Presidents Meeting

Sheraton - Nottoway (4th Floor)

Wednesday, October 31, 7 a.m. - 8 a.m.

CTropMed® Exam Committee Meeting

Marriott - Preservation Hall Studio 1 (2nd Floor)

Wednesday, October 31, 12:15 p.m. - 1:30 p.m.

Membership Committee Meeting

Marriott - Preservation Hall Studio 2 (2nd Floor)

Wednesday, October 31, 12:15 p.m. - 1:30 p.m.

Thursday, November 1

ASTMH Council Meeting

Sheraton - Oak Alley (4th Floor)

Thursday, November 1, 7:30 a.m. - 9:30 a.m.

Related Organization Meetings (at press time)

Friday, October 26

Jhpiego - Malaria Team Retreat Meeting

Marriott - Jackson (5th Floor)
Friday, October 26, 8 a.m. - 5 p.m.

Johns Hopkins Malaria Research Institute - Malawi ICEMR and Southern and Central Africa ICEMR SAG Meeting

Sheraton - Grand Ballroom E (5th Floor)
Friday, October 26, 8 a.m. - 6 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Poydras (3rd Floor)
Friday, October 26, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Ellendale (4th Floor)
Friday, October 26, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Bayside B (4th Floor)
Friday, October 26, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Bayside C (4th Floor)
Friday, October 26, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Grand Chenier (5th Floor)
Friday, October 26, 8 a.m. - 8 p.m.

Saturday, October 27

IVCC Meeting

Sheraton - Poydras (3rd Floor)
Saturday, October 27, 7:30 a.m. - 6 p.m.

Jhpiego - Malaria Team Retreat Meeting

Marriott - Jackson (5th Floor)
Saturday, October 27, 8 a.m. - 5 p.m.

Shoreland Travax - International Partners Members Meeting

Sheraton - Bayside A (4th Floor)
Saturday, October 27, 8 a.m. - 5 p.m.

Johns Hopkins Malaria Research Institute - Malawi ICEMR and Southern and Central Africa ICEMR SAG Meeting

Sheraton - Grand Ballroom E (5th Floor)
Saturday, October 27, 8 a.m. - 6 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Poydras (3rd Floor)
Saturday, October 27, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Ellendale (4th Floor)
Saturday, October 27, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Bayside B (4th Floor)
Saturday, October 27, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Bayside C (4th Floor)
Saturday, October 27, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Grand Ballroom C (5th Floor)
Saturday, October 27, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Grand Chenier (5th Floor)
Saturday, October 27, 8 a.m. - 8 p.m.

University of Notre Dame - VectorBase and EuPathDB Project Development Meeting

Sheraton - Gallier (4th Floor)
Saturday, October 27, 1 p.m. - 8 p.m.

Sunday, October 28

IVCC Meeting

Sheraton - Rex (8th Floor)
Sunday, October 28, 7:30 a.m. - 6 p.m.

Sustainable Sciences Institute - Annual P01 Meeting

Marriott - Riverview I (41st Floor)
Sunday, October 28, 8 a.m. - 4 p.m.

Shoreland Travax - International Partners Members Meeting

Sheraton - Bayside A (4th Floor)
Sunday, October 28, 8 a.m. - 5 p.m.

Related Organization Meetings (at press time)

Centers for Disease Control and Prevention - CDC PMI Management Meeting

Marriott - Riverview II (41st Floor)
Sunday, October 28, 8 a.m. - 6 p.m.

Clinton Health Access Initiative (CHAI) - CHAI Malaria Internal Meeting

Marriott - Preservation Hall Studio 5 (2nd Floor)
Sunday, October 28, 8 a.m. - 6 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Poydras (3rd Floor)
Sunday, October 28, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Ellendale (4th Floor)
Sunday, October 28, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Bayside B (4th Floor)
Sunday, October 28, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Bayside C (4th Floor)
Sunday, October 28, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Grand Ballroom C (5th Floor)
Sunday, October 28, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Grand Chenier (5th Floor)
Sunday, October 28, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation - ClinEpiDB: the Clinical Epidemiology Database Resource Meeting

Marriott - La Galerie 4 (2nd Floor)
Sunday, October 28, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Preservation Hall Studio 3 (2nd Floor)
Sunday, October 28, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Preservation Hall Studio 4 (2nd Floor)
Sunday, October 28, 8 a.m. - 8 p.m.

Malaria Eradication Scientific Alliance (MESA) - Annual Partners Meetings

Marriott - Jackson (5th Floor)
Sunday, October 28, 8 a.m. - 8 p.m.

Medicines for Malaria Venture - MMV Meetings (closed to public)

Marriott - Lafayette (41st Floor)
Sunday, October 28, 8 a.m. - 8 p.m.

Takeda Pharmaceuticals International AG Meetings

Marriott - Regent (4th Floor)
Sunday, October 28, 8 a.m. - 8 p.m.

University of California Davis - TropMed Iquitos 2018 Meeting

Sheraton - Gallier (4th Floor)
Sunday, October 28, 8 a.m. - 8 p.m.

Valneva - Advisory Board Meeting

Sheraton - Muses (8th Floor)
Sunday, October 28, 8 a.m. - 8 p.m.

The Pirbright Institute - Minimum Information for Reporting Arthropod Infection Studies Meeting

Marriott - Bonaparte (4th Floor)
Sunday, October 28, 9 a.m. - 11 a.m.

University of Rhode Island - DHF Project Investigators Meeting

Marriott - St. Charles (41st Floor)
Sunday, October 28, Noon - 6 p.m.

Penn State College of Medicine - Global Health International Fund Complement Meeting

Sheraton - Evergreen (4th Floor)
Sunday, October 28, 1 p.m. - 5 p.m.

Novartis Pharma AG - Severe Malaria Ad Board Meeting

Sheraton - Proteus/Zulu (8th Floor)
Sunday, October 28, 1:30 p.m. - 6 p.m.

Norartis Pharma AG - Severe Malaria Ad Board Meeting

Marriott - Preservation Hall Studio 3 (2nd Floor)
Sunday, October 28, 2 p.m. - 6 p.m.

Related Organization Meetings (at press time)

Monday, October 29

Pan American Dengue Research Network - Organizing Committee VII Pan Dengue Net Meeting

Sheraton - Crescent (4th Floor)
Monday, October 29, 6:30 a.m. - 7:45 a.m.

Jhpiego - RBM MiP Working Group Meeting

Sheraton - Oak Alley (4th Floor)
Monday, October 29, 7 a.m. - 8 a.m.

PATH - Ultrasensitive RDT (URDT) Study Results and Impact Meeting

Sheraton - Nottoway (4th Floor)
Monday, October 29, 7 a.m. - 8:30 a.m.

Walter Reed Army Institute of Research (WRAIR) Meeting

Sheraton - Rampart (5th Floor)
Monday, October 29, 7 a.m. - 9 p.m.

IVCC Meeting

Sheraton - Rex (8th Floor)
Monday, October 29, 7:30 a.m. - 6 p.m.

Innovation to Impact - i2i Meeting Room

Marriott - Galvez (5th Floor)
Monday, October 29, 7:30 a.m. - 6:30 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Ellendale (4th Floor)
Monday, October 29, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Poydras (3rd Floor)
Monday, October 29, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Bayside B (4th Floor)
Monday, October 29, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Bayside C (4th Floor)
Monday, October 29, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Grand Chenier (5th Floor)
Monday, October 29, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Preservation Hall Studio 3 (2nd Floor)
Monday, October 29, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Preservation Hall Studio 4 (2nd Floor)
Monday, October 29, 8 a.m. - 8 p.m.

DNDi Meeting Room

Sheraton - Oakley (4th Floor)
Monday, October 29, 8 a.m. - 8 p.m.

Infectious Diseases Data Observatory - Stakeholder Meeting

Marriott - St. Charles (41st Floor)
Monday, October 29, 8 a.m. - 8 p.m.

Malaria Eradication Scientific Alliance (MESA) - Annual Partners Meetings

Marriott - Jackson (5th Floor)
Monday, October 29, 8 a.m. - 8 p.m.

Medicines for Malaria Venture - MMV Meetings (closed to public)

Marriott - Lafayette (41st Floor)
Monday, October 29, 8 a.m. - 8 p.m.

PATH Malaria Vaccine Initiative Meeting

Sheraton - Iris (8th Floor)
Monday, October 29, 8 a.m. - 8 p.m.

PATH Malaria Vaccine Initiative Meeting

Sheraton - Endymion (8th Floor)
Monday, October 29, 8 a.m. - 8 p.m.

Takeda Pharmaceuticals International AG Meetings

Sheraton - Bacchus (8th Floor)
Monday, October 29, 8 a.m. - 8 p.m.

Takeda Pharmaceuticals International AG Meetings

Marriott - Regent (4th Floor)
Monday, October 29, 8 a.m. - 8 p.m.

Jhpiego - Transforming IPT for Optimal Pregnancy (TIPTOP) Project Steering Committee Meeting

Sheraton - Nottoway (4th Floor)
Monday, October 29, Noon - 2 p.m.

Related Organization Meetings (at press time)

BOVA Network - Grant Awardees Meeting

Marriott - Preservation Hall Studio 5 (2nd Floor)
Monday, October 29, 3 p.m. - 5 p.m.

University of California San Francisco - PRISM ICEMR Program Meeting

Marriott - Riverview I (41st Floor)
Monday, October 29, 5 p.m. - 7 p.m.

Bill & Melinda Gates Foundation Grantee Reception

Sheraton - Armstrong Ballroom (8th Floor)
Monday, October 29, 7:15 p.m. - 9 p.m.

International Society of Travel Medicine - GeoSentinel Mid-Year Meeting

Sheraton - Oak Alley (4th Floor)
Monday, October 29, 7:15 p.m. - 10 p.m.

University of Notre Dame's Eck Institute for Global Health - Rally with Notre Dame for Global Health

Sheraton - Orpheus (8th Floor)
Monday, October 29, 8 p.m. - 10 p.m.

Tuesday, October 30

International Society of Travel Medicine - JTM Editorial Board Meeting

Marriott - Preservation Hall Studio 1 (2nd Floor)
Tuesday, October 30, 7 a.m. - 8 a.m.

Walter Reed Army Institute of Research (WRAIR) Meeting

Sheraton - Rampart (5th Floor)
Tuesday, October 30, 7 a.m. - 9 p.m.

Innovation to Impact - i2i Meeting Room

Marriott - Galvez (5th Floor)
Tuesday, October 30, 7:30 a.m. - 6:30 p.m.

IVCC Meeting

Sheraton - Rex (8th Floor)
Tuesday, October 30, 7:30 a.m. - 6 p.m.

PATH Malaria Vaccine Initiative Meeting

Sheraton - Endymion (8th Floor)
Tuesday, October 30, 8 a.m. - 4 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Poydras (3rd Floor)
Tuesday, October 30, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Ellendale (4th Floor)
Tuesday, October 30, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Bayside B (4th Floor)
Tuesday, October 30, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Bayside C (4th Floor)
Tuesday, October 30, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Grand Chenier (5th Floor)
Tuesday, October 30, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Preservation Hall Studio 3 (2nd Floor)
Tuesday, October 30, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Preservation Hall Studio 4 (2nd Floor)
Tuesday, October 30, 8 a.m. - 8 p.m.

DNDi Meeting Room

Sheraton - Oakley (4th Floor)
Tuesday, October 30, 8 a.m. - 8 p.m.

Infectious Diseases Data Observatory - Stakeholder Meeting

Marriott - St. Charles (41st Floor)
Tuesday, October 30, 8 a.m. - 8 p.m.

Malaria Eradication Scientific Alliance (MESA) - Annual Partners Meetings

Marriott - Jackson (5th Floor)
Tuesday, October 30, 8 a.m. - 8 p.m.

Medicines for Malaria Venture - MMV Meetings (closed to public)

Marriott - Lafayette (41st Floor)
Tuesday, October 30, 8 a.m. - 8 p.m.

PATH Malaria Vaccine Initiative Meeting

Sheraton - Iris (8th Floor)
Tuesday, October 30, 8 a.m. - 8 p.m.

Related Organization Meetings (at press time)

Takeda Pharmaceuticals International AG Meetings

Sheraton - Bacchus (8th Floor)

Tuesday, October 30, 8 a.m. - 8 p.m.

Takeda Pharmaceuticals International AG Meetings

Marriott - Regent (4th Floor)

Tuesday, October 30, 8 a.m. - 8 p.m.

PLOS Neglected Tropical Diseases - NTDs Editor Mini-Summit Meeting

Marriott - Preservation Hall Studio 2 (2nd Floor)

Tuesday, October 30, 9 a.m. - 11 a.m.

Coalition Against Typhoid - Racing against Resistance: Milestones in the Fight to Take on Typhoid Meeting

Sheraton - Orpheus (8th Floor)

Tuesday, October 30, 4 p.m. - 8 p.m.

University of Sciences, Techniques and Technologies of Bamako - USTTB-NIH Annual Collaborative Dinner Meeting

Sheraton - Bayside A (4th Floor)

Tuesday, October 30, 7 p.m. - 10 p.m.

University of Minnesota - Global Medicine - Alumni Event

Marriott - Preservation Hall Studio 1 (2nd Floor)

Tuesday, October 30, 7:15 p.m. - 9 p.m.

London School of Hygiene & Tropical Medicine - Alumni Reception

Sheraton - Endymion/Mid-City/Proteus/Zulu (8th Floor)

Tuesday, October 30, 7:15 p.m. - 10 p.m.

Johns Hopkins and Harvard Universities Alumni and Researchers' Reception

Marriott - Riverview (41st Floor)

Tuesday, October 30, 7:30 p.m. - 9 p.m.

Wednesday, October 31

Child Health and Mortality Prevention Surveillance Network - CHAMPS Data Discovery Meeting

Sheraton - Oak Alley (4th Floor)

Wednesday, October 31, 6:45 a.m. - 8 a.m.

Walter Reed Army Institute of Research (WRAIR) Meeting

Sheraton - Rampart (5th Floor)

Wednesday, October 31, 7 a.m. - 9 p.m.

IVCC - Julian Entwistle Meeting Room

Sheraton - Zulu (8th Floor)

Wednesday, October 31, 7:30 a.m. - 6 p.m.

IVCC Meeting

Sheraton - Rex (8th Floor)

Wednesday, October 31, 7:30 a.m. - 6 p.m.

Innovation to Impact - i2i Meeting Room

Marriott - Galvez (5th Floor)

Wednesday, October 31, 7:30 a.m. - 6:30 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Poydras (3rd Floor)

Wednesday, October 31, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Bayside B (4th Floor)

Wednesday, October 31, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Bayside C (4th Floor)

Wednesday, October 31, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Ellendale (4th Floor)

Wednesday, October 31, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Grand Chenier (5th Floor)

Wednesday, October 31, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Preservation Hall Studio 3 (2nd Floor)

Wednesday, October 31, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Preservation Hall Studio 4 (2nd Floor)

Wednesday, October 31, 8 a.m. - 8 p.m.

DNDi Meeting Room

Sheraton - Oakley (4th Floor)

Wednesday, October 31, 8 a.m. - 8 p.m.

Related Organization Meetings (at press time)

Infectious Diseases Data Observatory - Stakeholder Meeting

Marriott - St. Charles (41st Floor)
Wednesday, October 31, 8 a.m. - 8 p.m.

Malaria Eradication Scientific Alliance (MESA) - Annual Partners Meetings

Marriott - Jackson (5th Floor)
Wednesday, October 31, 8 a.m. - 8 p.m.

Medicines for Malaria Venture - MMV Meetings (closed to public)

Marriott - Lafayette (41st Floor)
Wednesday, October 31, 8 a.m. - 8 p.m.

PATH Malaria Vaccine Initiative Meeting

Sheraton - Endymion (8th Floor)
Wednesday, October 31, 8 a.m. - 8 p.m.

Takeda Pharmaceuticals International AG Meetings

Sheraton - Bacchus (8th Floor)
Wednesday, October 31, 8 a.m. - 8 p.m.

Takeda Pharmaceuticals International AG Meetings

Marriott - Regent (4th Floor)
Wednesday, October 31, 8 a.m. - 8 p.m.

Johns Hopkins Center for Communication Programs - PMI ITN Partner's Meeting

Sheraton - Grand Coueteau (5th Floor)
Wednesday, October 31, 11:30 a.m. - 1:30 p.m.

Thursday, November 1

IVCC - Julian Entwistle Meeting Room

Sheraton - Zulu (8th Floor)
Thursday, November 1, 7:30 a.m. - 1 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Poydras (3rd Floor)
Thursday, November 1, 8 a.m. - 1 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Bayside B (4th Floor)
Thursday, November 1, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Bayside C (4th Floor)
Thursday, November 1, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Ellendale (4th Floor)
Thursday, November 1, 8 a.m. - 1 p.m.

Bill & Melinda Gates Foundation Side Meeting

Sheraton - Grand Chenier (5th Floor)
Thursday, November 1, 8 a.m. - 1 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Preservation Hall Studio 3 (2nd Floor)
Thursday, November 1, 8 a.m. - 1 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Preservation Hall Studio 4 (2nd Floor)
Thursday, November 1, 8 a.m. - 1 p.m.

DNDi Meeting Room

Sheraton - Oakley (4th Floor)
Thursday, November 1, 8 a.m. - 1 p.m.

Infectious Diseases Data Observatory - Stakeholder Meeting

Marriott - St. Charles (41st Floor)
Thursday, November 1, 8 a.m. - 1 p.m.

Malaria Eradication Scientific Alliance (MESA) - Annual Partners Meetings

Marriott - Jackson (5th Floor)
Thursday, November 1, 8 a.m. - 1 p.m.

Medicines for Malaria Venture - MMV Meetings (closed to public)

Marriott - Lafayette (41st Floor)
Thursday, November 1, 8 a.m. - 1 p.m.

Takeda Pharmaceuticals International AG Meetings

Sheraton - Bacchus (8th Floor)
Thursday, November 1, 8 a.m. - 8 p.m.

Takeda Pharmaceuticals International AG Meetings

Marriott - Regent (4th Floor)
Thursday, November 1, 8 a.m. - 8 p.m.

Related Organization Meetings (at press time)

Westat - Annual Meeting of the Zika in Infants and Pregnancy (ZIP) Study

Sheraton - Nottoway (4th Floor)

Thursday, November 1, 8:30 a.m. - 4 p.m.

University of Notre Dame - Spatial Repellent Landscape Meeting

Sheraton - Orpheus (8th Floor)

Thursday, November 1, Noon - 5 p.m.

Friday, November 2

Takeda Pharmaceuticals International AG Meetings

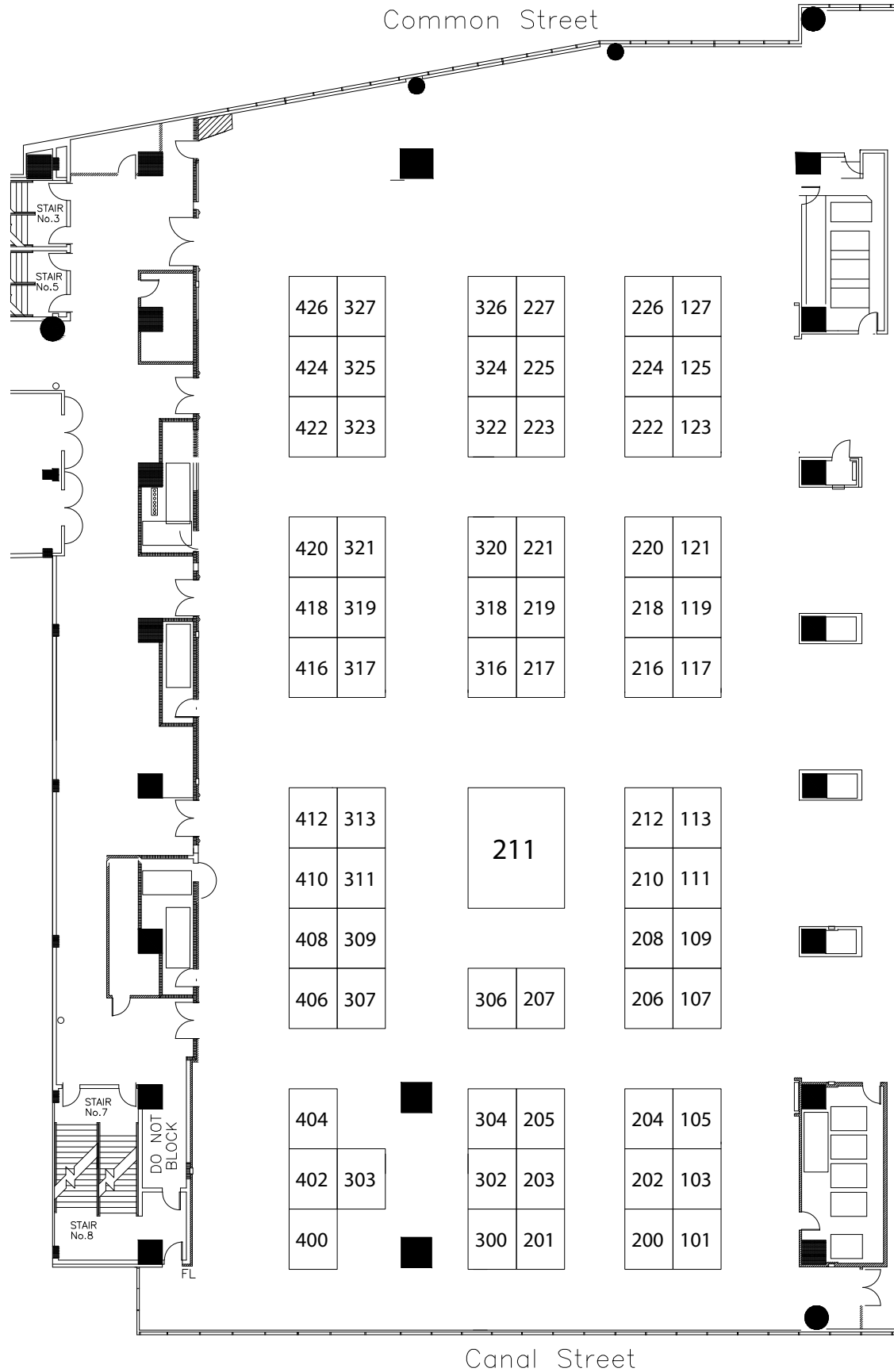
Marriott - Bacchus (8th Floor)

Friday, November 2, 8 a.m. - 8 p.m.

2018 Exhibitors

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Albourn Translation Services	223	Longhorn Vaccines and Diagnostics LLC	222
Altona Diagnostics USA, Inc.	210	Medical Care Development International (MCDI)	316
Antigen Discovery Inc. (ADI)	226	Meridian Bioscience, Inc.	227
BEI Resources	121	Mérieux Foundation USA	311
BioFire Defense.	217	MiCAN Technologies Inc.	408
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Chan Zuckerberg Initiative	111	Oxford University Press	325
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The Geneva Foundation	302	Traveler's Supply, Inc	101
Global Snakebite Initiative	300	Tulane University School of Public Health and Tropical Medicine	201
Global Vector Hub	404	University of Minnesota - Global Medicine	125
Healgen Scientific, LLC	220	University of Notre Dame's Eck Institute for Global Health	313
Hemex Health, Inc.	219	University Research Co., LLC	206
Henry M. Jackson Foundation, Inc. (HJF)	323	Vanderbilt Vaccine Center	418
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Illumina	400	Walter Reed Army Institute of Research (WRAIR)	327
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International Society of Travel Medicine.	119		

Exhibit Hall Floor Plan



Exhibitors/
Sponsors

ENTRANCE

Exhibitor, Sponsor and Supporter Directory (at press time)

60 Degrees Pharmaceuticals

Booth 321

Contact: Doug Loock, VP Global Commercial Ops
1025 Connecticut Ave., NW
Washington, DC 20036 USA
Phone: +1-202-999-8825
Email: dougloock@60degreespharma.com
Website: www.60degreespharma.com

60P, founded in 2010, focuses on discovering, developing and distributing new medicines for treatment and prevention of tropical diseases, including malaria and dengue. 60P is the commercial partner for the US Army (USAMMDA) working closely together on the development of an antimalarial product for the protection of Service Members and civilian personnel while in endemic areas. The US FDA recently approved ARAKODA (tafenoquine) tablets for oral use, for the prevention of malaria in patients 18 and older (stop booth #321 to receive full prescribing information). For more information on 60P's development program go to www.60degreespharma.com.

Abbott

Booth 304

Contact: Shanil Govindpershad, Marketing Director
51 Sawyer Road, Suite 200
Waltham, MA 02453 USA
Email: events@alere.com
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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.

Abt Associates

Booth 200

Contact: Lisa Nichols, Principal Associate/Scientist
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Website: www.abtassociates.com
Twitter: @abtassociates

Abt Associates is an engine for social impact, dedicated to moving people from vulnerability to security. Harnessing the power of data and our experts' grounded insights, we provide research, consulting and technical services globally in the areas of health, environmental and social policy, technology and international development.

Africa Clinical Research Management (ACE Research)

Booth 322

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Website: www.aceresearchafrica.com
Twitter: @ACEResearchCRO

ACE Research is Africa niche full service CRO specializing in providing industry, governments, academia, philanthropies and NGOs with Phase I -IV clinical research services for infectious diseases, emerging pathogens, and bio-threats vaccine, drug and medical device development. Our expertise includes:

- Feasibility and Protocol Development.
- Site Identification and Selection.
- Participant Recruitment.
- GCP Training.
- Regulatory Affairs.
- Clinical monitoring.
- Project Management.
- Samples Management.
- Quality Assurance.
- Translation Services.
- Drug Safety and Pharmacovigilance.

Albourn Translation Services

Booth 223

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Email: sandra@albourn.com
Website: www.albourn.com
Twitter: @AlbournSays

Albourn Translation Services exclusively supports non-profits and mission driven organizations. We work with you, not for you, as you better the world. Our high-quality, affordable translation services make your message accessible in any language.

Altona Diagnostics USA, Inc.

Booth 210

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Email: tyler.carney@altona-diagnostics.com
Website: www.altona-diagnostics.com

Altona Diagnostics USA, Inc. is a San Francisco, CA based company with headquarters in Hamburg, Germany. The company focuses on the sales and technical support of real-time PCR based reagents for the detection of pathogen specific DNA/RNA, developed and manufactured by their scientists in Hamburg.

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Antigen Discovery Inc. (ADI)

Booth 226

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Email: info@antigen-discovery.com
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Twitter: @AntigenDiscover

Antigen Discovery Inc. provides research services specializing in high throughput protein microarray technology that simplifies proteomic biomarker discovery and enables serological and immune profiling of whole proteomes from more than 30 medically important infectious microorganisms such as bacteria, protozoa, and viruses.

BEI Resources

Booth 121

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Website: www.beiresources.org

BEI Resources, funded by NIAID, supplies microbial pathogen and parasite cultures, reagents, and arthropod vectors for targeting emerging and tropical diseases, including malaria, TB, HIV and viral hemorrhagic fever agents. Explore the benefits we offer at www.beiresources.org. We'll provide the pathogens while you focus on your research.

Bill & Melinda Gates Foundation

P.O. Box 23350
Seattle, WA 98102 USA
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 Dr. Susan Desmond-Hellmann and co-chair William H. Gates, Sr., under the direction of Bill and Melinda Gates and Warren Buffett.

BioFire Defense

Booth 217

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Website: www.biofiredefense.com
Twitter: @BiofireDefense

At BioFire Defense we deliver a fully integrated suite for detection of pathogens and emerging infection diseases to the biodefense and first responder community. Our products and services speed up medical results, help people stay healthy and make communities more secure. Simply put, we make the world a safer and healthier place.

Burroughs Wellcome Fund

P.O. Box 13901
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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.

CABI

Booth 203

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CABI (Centre for Agriculture and Biosciences International) is an international not-for-profit organization that improves people's lives worldwide by providing information and applying scientific expertise to solve problems in agriculture and the environment.

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Carramore International Ltd Booth 113

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Website: www.carramore.com

Carramore is a supplier of custom services to medical projects throughout the world. Our services are:

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- Third party logistics, including infectious substances

Our reputation is founded on our ability to anticipate, overcome and manage the challenges that arise. Our experience in meeting such challenges is unsurpassed
www.carramore.com

CDC Booth 324

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Handouts and communication products about the work that the National Center for Emerging and Zoonotic Infectious Diseases is doing to protect America's health, safety, and security.

Celgene Global Health, Celgene Corporation

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Website: www.celgene.com/responsibility/global-health/
Twitter: @celgene

Celgene Global Health (CGH) is a dedicated R&D unit of Celgene committed to discovering, developing and delivering novel drugs for Diseases of the Developing World (DDWs). Collaborating with non-profit and academic institutions around the globe, CGH has utilized the company's library of more than 400,000 compounds to evaluate candidates for drug development for DDWs. More than 10 discovery and development programs are ongoing in several disease areas such as malaria and tuberculosis.



Centers for Disease Control and Prevention Booth 225

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Website: www.cdc.gov/ncezid/dvbd/specimensub/arc/index.html
Twitter: @CDCFound

As a World Health Organization Collaborating Centre for Arthropod-Borne Viruses Reference and Research, CDC's Arbovirus Reference Collection (ARC) provides reagents to public health laboratories for arbovirus diagnostics for which no commercial assays are available and serves as an arbovirus repository for reference strains. The ARC provides reference quantities of reagents and reference viruses to research and commercial laboratories.

Centre for Tropical Medicine and Global Health, Oxford University Booth 416

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Email: claire.escherkessler@ndm.ox.ac.uk
Website: www.tropicalmedicine.ox.ac.uk
Twitter: @TropMedOxford

Our center is a world leading institution, comprised of research groups permanently based in Africa and Asia as well as in Oxford. Tackling infectious diseases, which kill many millions every year, is one of the greatest challenges of the 21st century. We are researching solutions to the increasingly urgent problems these diseases cause. Our research ranges from clinical studies to behavioral sciences, with capacity building integral to all our activities.

Chan Zuckerberg Initiative Booth 111

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ClinEpiDB/University of Pennsylvania

Booth 319

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Twitter: @ClinEpiDB

The Clinical Epidemiology Database Resource, ClinEpiDB (<https://ClinEpiDB.org>), is a global open-access, epidemiological data resource charged with enabling investigators to maximize the utility and reach of their data and make optimal use of information released by others. ClinEpiDB is a project of the NIH/NIAID funded Bioinformatics Resource Center, EuPathDB, and funded by the Bill and Melinda Gates Foundation. ClinEpiDB staff will demo the resource, discuss availability of data and answer questions.

CTK Biotech

Booth 212

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Focusing on improving global health, CTK develops & manufactures innovative IVD technologies including RAPID TESTS, ELISA, PCR, EXTERNAL CONTROLS, INSTRUMENTS, and REAGENTS. Our products specialize in TROPICAL DISEASES, PARASITIC INFECTIONS, BLOOD BORNE, GASTROINTESTINAL illnesses along with CANCER/HORMONE/NEONATAL tests. Development, production and use of proprietary recombinant antigens & antibodies guarantee consistent supply of high quality products at an exceptional value. CTK is a US-based company located in San Diego, California. ISO 13485:2016, GMP, US FDA registered.

DCN Dx

Booth 216

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Contract development of rapid diagnostic tests is at the core of all that we do at DCN. Our cross-functional team of scientists and engineers can develop and integrate all aspects of the assay system, including cassettes, sample handling devices, and reader systems. We will assist you in the development of your entire rapid diagnostic test from concept to commercialization.

DF/Net Research, Inc.

Booth 320

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DF/Net Research (DF/Net) provides data management, data analytics, and software solutions to support clinical research globally. Drawing on over 14 years of experience, DF/Net is a trusted partner serving our industry, academic, government, and non-profit clients. Our hybrid (EDC/offline tablet/paper) clinical data management system, DataFax/DFdiscover has been used to manage early phase to pivotal trials in over 35 countries.

Drugs for Neglected Diseases *initiative* (DNDi)

Booth 318

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The Drugs for Neglected Diseases *initiative* (DNDi) is a collaborative, patient needs-driven, not-for-profit research and development (R&D) organization that develops safe, effective, and affordable treatments for patients with neglected diseases, notably human African trypanosomiasis (sleeping sickness), leishmaniasis, Chagas disease, filariasis, paediatric HIV, mycetoma, and hepatitis C. In 2016, in collaboration with the World Health Organization, DNDi launched the Global Antibiotic Research and Development Partnership to develop antibiotic treatments and ensure sustainable access.

Elsevier

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Engaging Tools for Communications in Health

Booth 420

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ETCH brings together experts in game design, education, psychology and public health to develop and evaluate tailored game-based interventions for health system benefit.

EuPathDB - University of Pennsylvania / University of Georgia

VectorBase

Booth 317

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VectorBase - Gloria Giraldo-Calderon
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Website: www.vectorbase.org
Twitter: @VectorBase

NIH/NIAID funded Bioinformatics Resource Centers consist of five online databases that provide data, analysis tools and services to infectious disease pathogen researchers. Each center specializes in different groups of pathogens: The Eukaryotic Pathogen Database (www.EuPathDB.org) specializes in eukaryotic pathogens, VectorBase (www.vectorbase.org) covers invertebrate vectors of human pathogens, ViPR (www.viprbrc.org) encompasses human viral pathogens, IRD (www.fludb.org) focuses on influenza virus, and PATRIC (www.patricbrc.org) supports bacteria. Each research center provides services to analyze and query functional data from each of the maintained organisms. Representatives will be available to answer questions and help with queries.

F1000

Booth 303

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F1000 works with Researchers, Funders and Institutions to improve the way research is communicated. Publish your research fast, openly and without restrictions. Gain credit and visibility for your tropical medicine research on an Open Research Platform: F1000Research, Gates Open Research, Wellcome Open Research and AAS Open Research.

FHI 360

Booth 410/412

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Twitter: @fhi360

Complete CRO services are provided by a team of experts in the Global Research Services (GRS) department within FHI 360. Staff live and work throughout Africa, Asia and the Americas, providing insights on local customs, locations of sites and regulatory requirements. With years of experience supporting clinical trials, the GRS team has developed strategies for success: work instructions for clear procedures; guidelines for best practices; and tools for promoting compliance and consistency across multiple sites.

The Geneva Foundation

Booth 302

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The Geneva Foundation is a 501(c)3 non-profit organization that advances military medicine through innovative scientific research, exceptional program management, and a dedication to U.S. service members and veterans, their families, and the global community. Geneva is proud to have over 25 years of experience in delivering full spectrum scientific, technical, and program management expertise in the areas of federal contracts, federal grants, and industry sponsored clinical trials.

Global Snakebite Initiative

Booth 300

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Twitter: @globalsnakebite

The Global Snakebite Initiative (GSI) provides political and social advocacy, information and resources on the neglected problem of snakebite envenoming. GSI promotes projects in developing countries to reduce the burden of snakebite and to improve prevention and treatment of envenoming.

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Global Vector Hub

Booth 404

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Twitter: @globalvectorhub

The Global Vector Hub is a global first. It is an open access, interactive resource that not only has the capacity to transform vector research and vector control programmes, but revolutionise our preparedness and ability to respond quickly and effectively to vector-borne disease outbreaks, around the world. For the first time, we aim to bring together researchers and health workers on the largest scale ever seen, cutting across several disciplines, diseases and vectors around the world.

Healgen Scientific, LLC

Booth 220

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Website: www.healgen.com

Located in Houston, Texas, Healgen Scientific manufactures and distributes, by wholesale, both OEM and generic Lateral Flow Immunoassay's (Rapid Tests) worldwide. Various products hold certifications of FDA, CE, COFEPRIS, CFDA and Health Canada. Product categories include Drugs of Abuse, Infectious Disease, Pregnancy and Fertility, Cardiac Markers, Tumor Markers and Urine Reagent Strips.

Hemex Health, Inc.

Booth 219

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Hemex Health has developed diagnostics that are fast, affordable, and designed for challenging environments in emerging markets. Our device includes a highly-sensitive, one-minute malaria test and a quantitative sickle cell test that delivers results during a patient visit. Both tests operate on a portable, battery-powered reader that can be used in the field or in clinics by entry-level healthcare workers. Information can be stored digitally or transmitted to the cloud along with GPS location.

Henry M. Jackson Foundation, Inc. (HJF)

Booth 323

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The Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc. is a private, not-for-profit organization established in 1983 and authorized by Congress to support medical research and education at the Uniformed Services University of the Health Sciences and throughout the broader military medical community. We serve military, academic and government clients by administering, managing and supporting preeminent scientific programs that benefit members of the armed forces and civilians alike. For more information, visit www.hjf.org.

HUMAN Gesellschaft fuer Biochemica und Diagnostica mbH

Booth 207

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HUMAN Diagnostics Worldwide is a global player in the IVD industry with nearly 50 years of experience. HUMAN offers a comprehensive portfolio of high quality products, a broad distribution, an excellent service and a worldwide support network. Next to a wide range of products with German quality standards HUMAN will present the panel of experts at the ASTMH its new Malaria LAMP Plasmodium Vivax. Find out more at human@human.de.

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IAMAT – International Association for Medical Assistance to Travellers

67 Mowat Avenue, Suite 036
Toronto, ON M6K 3E3 Canada

Email: info@iamat.org

Website: www.iamat.org

Twitter: [@IAMAT_Travel](https://twitter.com/IAMAT_Travel)

IAMAT's mission is to make the world a healthier place to travel. As an advocate for travelers' health since 1960, IAMAT protects the well-being of travelers with up-to-date health information and an international network of English-speaking doctors. The non-profit organization also awards travel medicine scholarships to health practitioners from countries where travel medicine is an emerging specialty. The scholarship program aims to advance travel medicine education and enhance care for travellers and local patients. Since 1990, IAMAT has sponsored the annual ASTMH Vincenzo Marcolongo Memorial Lecture in honor of IAMAT's founder, a specialist in tropical medicine who dedicated his life to the medical needs of travelers.

ICF

Booth 224

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Twitter: [@ICFHealth](https://twitter.com/ICFHealth)

ICF (NASDAQ:ICFI) is a global consulting services company with over 5,000 specialized experts, 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.

Illumina

Booth 400

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Illumina is dedicated to improving human health by unlocking the power of the genome. Illumina technology is responsible for generating more than 90% of the world's sequencing. Through the power of next generation sequencing technology, microbiologists can achieve higher resolution and knowledge of microbial organisms that were previously impossible to study.



Understand the genetic makeup and biological functions of these organisms enable microbiologists to track genetic changes, identify pathogen sources, and respond to outbreaks earlier.

InBios International, Inc.

Booths 424/426

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Email: wendy@inbios.com

Website: www.inbios.com

Twitter: [@inbiosusa](https://twitter.com/inbiosusa)

InBios is a diagnostics developer and manufacturer located in Seattle, Washington. Since 1997, InBios has developed many commercial products for infectious diseases including Zika, dengue, chikungunya, leishmaniasis, and Chagas. InBios is also developing tests for biothreat targets such as melioidosis and anthrax. InBios can partner with you on your assay development and contract manufacturing projects. InBios has decades of experience and a toolbox of proprietary reagents with novel bioengineering technologies to help meet your challenges.

Indiana University Ryan White Center for Pediatric Infectious Diseases & Global Health

Contact: Chandy John, Director

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Twitter: [@ChandyJohnLab](https://twitter.com/ChandyJohnLab)

The Ryan White Center for Pediatric Infectious Diseases & 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. This work benefits children in Indiana and worldwide and builds on an extraordinary legacy from Ryan White, Dr. Marty Kleiman and the Indiana University Dance Marathon.



International Society of Travel Medicine

Booth 119

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The ISTM, with more than 3,500 members in close to 100 countries, is the largest organization of professionals dedicated to the advancement of the specialty of travel

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medicine. Members include physicians, nurses and other health professionals from academia, government and the private sector. In cooperation with healthcare providers, academic centers, the travel industry and the media, ISTM advocates and facilitates education, service, and research activities in the field of travel medicine.

IVCC

Booth 107/109

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IVCC creates solutions and develops products focused on insects; to control, eliminate and eradicate vector borne disease.

Jhpiego

Booth 422

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A Johns Hopkins University affiliate, Jhpiego is a nonprofit global leader in the creation and delivery of transformative healthcare solutions that save lives. Through our close partnerships with local communities, policymakers, donors and health providers, we are able to transform health care systems, leading to better health across a lifespan—from pregnancy to delivery, and beyond. By embedding our know-how and skills into everyday practice, we are creating lasting change that improves the health of some of the world's most disadvantaged for generations to come.

Leidos Life Sciences

Booth 205

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Leidos is a Fortune 500® information technology, engineering, and science solutions and services leader working to solve the world's toughest challenges. Leidos Life Sciences executes a diverse portfolio of medical science, biopharmaceutical, and grant/program review contracts with services that span the full spectrum of the

biomedical product lifecycle, from discovery through post-marketing surveillance. We deliver customized solutions that support groundbreaking medical research, optimize business operations, and expedite the discovery of safe and effective medical treatments.

London School of Hygiene & Tropical Medicine

Booth 306

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The London School of Hygiene & Tropical Medicine is a world-leading centre for research and postgraduate education in public and global health. We deliver research-led educational programmes to future health leaders, managers and researchers across the world. We have more than 1,000 face-to-face Master's and Research students, 3,000 studying by distance learning, and 1,000 each year on short courses and continuous professional development. Our free online courses are studied by more than 30,000 participants globally.

Longhorn Vaccines and Diagnostics LLC

Booth 222

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Longhorn's FDA cleared predicate microbial nucleic acid storage and stabilization device PrimeStore® Molecular Transport Medium (MTM) facilitates sample collection and cold-chain free transportation. PrimeStore® MTM inactivates viral and bacterial pathogens, preserves and stabilizes naked RNA and DNA at ambient or elevated temperatures thereby providing safe, non-hazardous samples for MDx, NGS, clinical trials and biobanking. Sample types can include vector-borne, sputum, nasal, oral and other secretions/bodily fluids, urine, stool/microbiome, blood/plasma/serum, and fresh tissue.

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Medical Care Development International (MCDI) Booth 316

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Email: mcdi@mcdi.org
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Twitter: @MCDITweets

For over 40 years in over 40 countries, MCDI has worked to improve the health of vulnerable populations globally through innovative, integrated, sustainable and locally-driven interventions. MCDI collaborates with donors, national governments, the private sector, health agencies, communities and local stakeholders to improve health and save lives in the following areas: malaria control; water, sanitation and hygiene; maternal, neonatal and child health; Zika; cervical cancer screening and treatment; HIV/AIDS and TB; and other communicable diseases.

Meridian Bioscience, Inc. Booth 227

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Website: www.meridianbioscience.com
Twitter: @Meridian_Bio

Meridian Bioscience manufactures a broad range of innovative rapid and molecular diagnostic test kits and purified reagents. Meridian's illumigene Malaria assay is a field-lab deployable molecular test that provides a result in about 45 minutes; 3-4 minutes sample preparation and 40 minutes incubation. The assay's design on a loop-mediated isothermal amplification (LAMP) platform provides 18-24 months of stability and does not require refrigeration. The assay is a qualitative *in vitro* diagnostic test for the direct detection of *Plasmodium* sp. (P.f, P.v, P.o, P.m, and P.k) DNA in human venous EDTA whole blood specimens. With a 100% negative predictive value the illumigene Malaria detects as few as 0.125 parasites/ μ l.

Mérieux Foundation USA Booth 311

Contact: Emily Penrose, Program & Operations Director
1211 Connecticut Ave NW, Floor 8
Washington, DC 20036 USA
Phone: +1-202-222-0412
Email: contact@fondation-merieuxusa.org
Website: www.fondation-merieuxusa.org
Twitter: @FdnMerieuxUSA

The Mérieux Foundation USA is a public charity dedicated to building capacity in developing countries to improve diagnostic capabilities for local healthcare, and for the surveillance, alert and response to infectious disease epidemics. The foundation focuses on programs to strengthen national laboratory systems for surveillance and applied research, the backbone of effective global prevention and response to epidemics.

MiCAN Technologies Inc. Booth 408

Contact: Kazuo Miyazaki, CEO
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Email: kmiyazaki@micantechnologies.com
Website: www.micantechnologies.com

"Creating a Platform to Cure the Most Difficult Diseases"
MiCAN will accelerate infectious disease research through special cells created with regenerative medicine technology. MiCAN will provide immature or intermediate blood cells that are difficult to collect from donor blood. And our services will make a screening platform for drug or vaccine research in infectious disease area.

National Academies of Sciences, Engineering and Medicine Booth 202

Contact: Ray Gamble, Director, Fellowships Office
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Email: FellowshipsOffice@nas.edu
Website: nas.edu/FellowshipsOffice
Twitter: @NASEM_NRC_RAP

The National Academies of Sciences, Engineering, and Medicine Fellowships Office administers predoctoral, postdoctoral, and senior fellowship awards on behalf of government and private/foundation sponsors. These fellowship awards play an important role in the career development of doctoral and postdoctoral researchers and scholars for the academic, federal, industrial and international workforce. Current opportunities are as follows: NRC Research Associateship Programs, Ford Foundation Fellowship Programs, Jefferson Science Fellowship Program, and more.

Exhibitor, Sponsor and Supporter Directory (at press time)

National Death Index

Booth 127

Contact: Michelle Goodier, Program Specialist
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Hyattsville, MD 20782 USA
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Email: ndi@cdc.gov
Website: www.cdc.gov/nchs/ndi

The National Death Index is a computerized index of death record information on file from the state vital statistics offices. Working with the states, NCHS established the NDI as a resource to aid epidemiologists and other health and medical investigators with mortality ascertainment. The NDI is available solely for statistical purposes in medical and health research. Legal, administrative or genealogical research is not a permitted use of NDI data.

National Institute of Allergy and Infectious Diseases

(NIAID)

Booth 309

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Website: <https://www.niaid.nih.gov/topics/GlobalResearch>
Twitter: @NIAIDNews

The National Institutes of Health (NIH): National Institute of Allergy and Infectious Diseases (NIAID) Office of Global Research (OGR) facilitates and coordinates NIAID's international activities and collaborative research programs. OGR works closely with other NIH institutes and Centers, Department of Health and Human Services (HHS) offices and agencies and numerous foreign government agencies.

noul Inc.

Booth 208

Contact: Chloe Jiyeon Lee, Project Manager
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Website: www.noul.kr

noul's malaria diagnostic platform, miLab®, enables faster and more accurate diagnosis of infectious disease by adoption of all-in-one technology that transfers the entire diagnostic laboratory into one single portable platform through an integration of three main technologies 1) Tubing-free staining on a chip 2) High resolution digital imaging system and 3) Artificial intelligence for Morphology Analysis. miLab® will be the ultimate solution for point of care diagnostic testing in advanced countries and resource-poor settings.

Novartis Social Business

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Phone: +41795359694
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Website: <https://www.novartis.com/our-company/corporate-responsibility/expanding-access-healthcare/novartis-social-business>
Twitter: @Novartis

R&D benefits Novartis' global businesses Innovative Medicines, Alcon and Sandoz, a leader in generics and biosimilars. Novartis Social Business (NSB) includes our key access-to-healthcare programs Novartis Access, Novartis Malaria Initiative, Healthy Family, SMS for Life and NGO supply. Partnering with governments and public/private stakeholders, NSB supports public health needs by building capabilities in lower-income countries. Novartis fosters long-lasting access solutions, including sustainable, equitable & zero-profit commercial models and patient assistance programs.

Oxford Immunotec

Booth 218

Contact: Amy Tolivaisa, Marketing Communications Manager
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Marlborough, MA 01752 USA
Phone: +1-508-532-7725
Email: atolivaisa@oxfordimmunotec.com
Website: www.oxfordimmunotec.com
Twitter: @oxfdimmunotec

Oxford Immunotec is a global, high-growth diagnostics company focused on developing and commercializing proprietary tests for the management of underserved immune-regulated conditions. We have two state-of-the-art laboratories in the United States located in Memphis, TN and Norwood, MA. Our Norwood laboratory specializes in performing the Accutix™ tick-borne disease tests. The Accutix tests are a range of assays for tick-borne diseases, such as Lyme disease, obtained through the acquisitions of Imugen and Immunetics.

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Oxford University Press

Booth 325

198 Madison Avenue
New York, NY 10016 USA
Phone: +1-800-451-7556
Email: custserv.us@oup.com
Website: <https://global.oup.com>
Twitter: @OxUniPress

Oxford University Press is a publisher of some of the most respected and prestigious books and journals in the world. Visit our stand to browse books and to pick up sample copies of our journals, or visit online at www.global.oup.com for more information.

PATH

Booth 406

Contact: Kelsey Mertes, Communications Officer
2201 Westlake Avenue, Suite 200
Seattle, WA 98109 USA
Phone: +1-206-285-3500
Email: kmertes@path.org
Website: www.path.org
Twitter: @PATHtweets

Learn more about PATH's Center for Vaccine Innovation and Access at our booth, which will feature an interactive game with giveaways!

PLOS (Public Library of Science)

Booth 117

Contact: Charlotte Bhaskar, Publications Manager
PLOS Neglected Tropical Diseases
1160 Battery Street, Suite 225
San Francisco, CA 94111 USA
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Email: plos@plos.com
Website: www.plos.org
Twitter: @PLOS

PLOS (Public Library of Science) is a nonprofit Open Access publisher, innovator and advocacy organization dedicated to accelerating progress in science and medicine by leading a transformation in research communication. The PLOS suite of influential journals contain rigorously peer-reviewed Open Access research articles from all areas of science and medicine.

Public Health Institute

Booth 402

Contact: Ilana Nevins, Recruitment & Outreach Specialist
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Email: inevins@ghstar.org
Website: www.phi.org

Sustaining Technical and Analytic Resources (STAR) project of the Public Health Institute works to improve effectiveness in global health by developing and strengthening capacity of global health professionals

and institutions through competency-based learning and creating systems for open-access knowledge sharing.

RTI International

Booth 103

Contact: Ned Burns, Senior Business Development Specialist
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Website: www.rti.org
Twitter: @rti Intl

RTI International is an independent, nonprofit research institute dedicated to improving the human condition. We combine scientific rigor and technical expertise in social and laboratory sciences, engineering, and international development to deliver solutions to the critical needs of clients worldwide.

SANARIA INC.

Booth 326

Contact: Alexander Hoffman, Chief Legal Officer
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Rockville, MD 20850 USA
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Email: sanaria@sanaria.com
Website: www.sanaria.com
Twitter: @sanaria_inc

Sanaria is a biotechnology company developing vaccines protective against malaria. Sanaria's vaccines have proven highly protective in humans. Sanaria's primary mission is to develop and commercialize whole-parasite sporozoite vaccines that confer high-level, long-lasting protection against *Plasmodium falciparum*, the malaria parasite responsible for more than 95% of malaria associated severe illness and death world-wide and the malaria parasite for which there is the most significant drug resistance. The overall mission includes developing vaccines that prevent all human malaria.

Sanofi Pasteur

Contact: Roman Chicz, AVP External Research and Development
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Cambridge, MA 02140 USA
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Website: www.sanofipasteur.com
Twitter: @sanofipasteur

Sanofi Pasteur is the vaccines division of Sanofi. We distribute more than 1 billion doses of vaccine per year, making it possible to vaccinate more than 500 million people across the globe. Our broad portfolio protects against infectious diseases such as: cholera, diphtheria, dengue, *Haemophilus influenzae* type b infections, hepatitis A, hepatitis B, influenza, Japanese encephalitis, measles, meningococcal infections, mumps, pertussis,



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pneumococcal infections, poliomyelitis, rabies, rubella, tetanus, tuberculosis, typhoid fever and yellow fever.

Sawyer Products

Booth 204

Contact: Darrel Larson, International Director
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Email: darrel@sawyer.com
Website: www.sawyer.com
Twitter: @sawyerproducts

We are a US based company with a global mission. At Sawyer, we use the best technology to make simple products that keep you going regardless of your journey – whether camping or ultralight backpacking, keeping your kids safe and hydrated, or bringing clean water to developing countries. We supply water filtration, insect repellents, sunscreens, and first aid products.

Shin Poong Pharmaceutical Co., Ltd.

Booth 221

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Email: seonyoung@shinpoong.co.kr
Website: www.shinpoong.co.kr

Shin Poong is a Korea-based company mainly engaged in the manufacture of pharmaceuticals over 50 years and has developed Pyronaridine-Artesunate with Medicines for Malaria Venture. Pyronaridine-Artesunate is the only ACT with a positive opinion from SRA for the treatment of both *P. falciparum* and *P. vivax* malaria in adults, children, and infants over 5 kg. It is cross-referenced in WHO's list of prequalified medicines, and included WHO List of Essential Medicines for adults and children (EML, EMLc) in 2017.

Southern Research

Booth 123

Contact: Jin Kim, Senior Business Development Executive
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Birmingham, AL 35205 USA
Phone: +1-800-967-6774
Email: drugdevelopment@southernresearch.org
Website: www.southernresearch.org/drug-development
Twitter: @SoResearchNews

Southern Research understands the needs of rapid response vaccine and drug developers. We're dedicated to developing relevant small and large animal models of mosquito-borne flavivirus infection and GLP validated supporting assays. In addition to excellent support for dengue virus and yellow fever medical countermeasure development, we were among the first CROs to offer full-service capabilities for evaluation of Zika virus countermeasures including clinical trial support services

for the vaccines. Learn more at southernresearch.org/drug-development.

Takeda Pharmaceuticals International AG

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Email: nigel.glover@takeda.com
Website: www.takeda.com
Twitter: @TakedaPharma

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Takeda Pharmaceutical Company Limited is a global research and development-driven pharmaceutical company committed to bringing better health and a brighter future to patients by translating science into life-changing medicines. Takeda focuses its R&D efforts on oncology, gastroenterology and central nervous system therapeutic areas plus vaccines. Takeda conducts R&D both internally and with partners to stay at the leading edge of innovation. New innovative products, especially in oncology and gastroenterology, as well as our presence in Emerging Markets, fuel the growth of Takeda. For the past 70 years, Takeda has supplied vaccines to protect the health of people in Japan. Today, Takeda's global vaccine business is applying innovation to tackle some of the world's most challenging infectious diseases, such as dengue, Zika, norovirus and polio. For more information, visit <http://www.takeda.com/news>.

TDR, the Special Programme for Research and Training in Tropical Diseases (TDR/WHO)

Booth 307

Contact: Kristen Kelleher, Communications Officer
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Phone: + 41 79 441 2289
Email: kelleherk@who.int
Website: www.who.int/tdr
Twitter: @TDRnews

TDR, the Special Programme for Research and Training in Tropical Diseases, is a global programme of scientific collaboration that helps facilitate, support and influence efforts to combat diseases of poverty. TDR is hosted at the World Health Organization (WHO), and is sponsored by the United Nations Children's Fund (UNICEF), the United Nations Development Programme (UNDP), the World Bank and WHO. Information about TDR grants and supported research and training will be available.

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TECHLAB, Inc.

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TECHLAB has over 25 years of experience focused on the development and manufacturing of quality rapid non-invasive enteric *in vitro* diagnostics. Today the company continues to develop, manufacture and distribute intestinal diagnostics worldwide retaining an emphasis on science and collaboration with universities both international and domestic. Products are focused in the areas of intestinal inflammation, antibiotic-associated diarrhea, foodborne pathogens, *H. pylori* and parasitology.

Thermosurgery Technologies, Inc

Contact: Gena Zischke, CEO
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Phoenix, AZ 85029 USA
Phone: +1-480-330-5840
Email: Gzischke@thermosurgery.com
Website: www.thermosurgery.com



Non-invasive medical device that treats cutaneous leishmaniasis and other skin diseases.

Traveler's Supply, Inc.

Booth 101

Contact: James P. Dusza, Chief Operating Officer
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Email: jim@travelerssupply.com
Website: www.travelerssupply.com

Experience. Knowledge. Resources. Traveler's Supply provides the fundamentals for safe international travel. We support travel health clinics, corporations, universities and retail markets with insect repellents and the essentials in custom medical kits including; OTC's, safe drinking water, diarrhea prevention/treatment products. We also manufacture Duration permethrin 0.5% and 10% Concentrate offering multiple sizes available in spray and soak options. As the largest distributor of 3M Ultrathon, Katadyne and SteriPen water purifiers along with Micropur Chlorine Dioxide tablets and DiaResQ we bring convenience and cost savings together.

Tulane University School of Public Health and Tropical Medicine

Booth 201

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Email: dboling@tulane.edu
Website: sph.tulane.edu
Twitter: @TulaneSPHTM

The Tulane University School of Public Health and Tropical Medicine has been advancing public health for more than a century, in New Orleans, Louisiana, the world. One of the foundational schools of public health in the U.S., Tulane continues to be a catalyst for health improvement in the local community and around the globe, and is the only American school of public health with a tropical medicine department.

University of Minnesota - Global Medicine

Booth 125

Contact: Sarah Sponsler, Program Coordinator
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Website: www.dom.umn.edu/global-health
Twitter: @umnglobalhealth

University of Minnesota Department of Medicine Global Medical Education is committed to improving the health of individuals and communities globally. We are engaged in global health teaching, research, and clinical care which is values based and which improves the health of individuals and communities. We offer a wide range of courses, in-person and online, to meet your educational needs including: CTropMed® Certification training/preparation, our Global Health Course, Asian Clinical Tropical Medicine Course, and Interactive Case learning.

University of Notre Dame's Eck Institute for Global Health

Booth 313

Contact: Sarah Craig, Communications
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Email: craig.20@nd.edu
Website: www.globalhealth.nd.edu
Twitter: @ndeckinstitute

The University of Notre Dame's Eck Institute for Global Health is a university-wide enterprise that recognizes health as a fundamental human right and endeavors to promote research, training, and service to advance health standards for all people, especially people in low and middle-income countries, who are disproportionately impacted by preventable diseases. Information will be available for research opportunities, faculty positions and student recruitment, especially for our Master of Science in Global Health one-year program.

Exhibitor, Sponsor and Supporter Directory (at press time)

University Research Co., LLC

Booth 206

Contact: Hala Jassim AlMossawi, Senior Director of Technical Support

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Founded in 1965, University Research Co., LLC (URC) is a global company that aims to improve the quality of healthcare, social services, and health education around the world. With a not-for-profit affiliate, the Center for Human Services (CHS), URC manages projects in over 45 countries, including the US. Through various approaches, URC addresses technical areas including but not limited to: HIV/AIDS, Malaria, Tuberculosis, Water, Sanitation and Hygiene (WASH), Health Workforce Development, and Maternal, Newborn and Child Health (MNCH).

Vanderbilt Vaccine Center

Booth 418

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Twitter: @vumc_vaccines

Vanderbilt Vaccine Center aims to make human monoclonal antibodies against emerging infectious diseases to be used for prevention or therapy. We are seeking to collaborate with healthcare professionals working in areas affected by emerging infections who can identify individuals who have survived previous natural infections.

VULCAN

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Vulcan Inc. is a nimble private company founded by Paul G. Allen working to solve some of the biggest global issues using innovative approaches. Our programs, projects and initiatives work to discover and develop smart, data-driven solutions and create inspiring experiences that help us tackle some of the world's toughest challenges.



Vysnova Partners, Inc.

Booth 105

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Website: www.vysnova.com

Twitter: @vysnovapartners

Vysnova Partners develops and delivers successful operational solutions for federal agencies in the U.S. and overseas. Vysnova staff has worked in more than 30 countries to advance the health and well-being of communities worldwide. Whether it's Zika prevention research with the CDC in Peru, supporting the Navy's healthcare efforts in Southeast Asia, or supporting the Demographic Health Survey for USAID throughout Africa, Vysnova knows how to initiate and implement projects both domestically and internationally to keep our customers in compliance while advancing the project and the broader mission that it serves.

Walter Reed Army Institute of Research (WRAIR)

Booth 327

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Twitter: @wrair

The Walter Reed Army Institute of Research is the largest biomedical research laboratory in the DoD and is based in Maryland with facilities throughout the world. The Institute is committed to innovation and excellence with a military-specific focus to protect the health and readiness of the Warfighter. Through its extensive array of capabilities the Institute develops countermeasures to infectious disease threats and conducts research that promotes psychological resilience, enhances neurological functioning, and improves operational readiness among our service members.

Wellcome Trust

215 Euston Road

London, NW1 2BE

United Kingdom

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Email: a.dinsmore@wellcome.ac.uk

Twitter: @wellcometrust

Visit www.synapse.org/wellcomemalariaprize for details of how to enter the first Wellcome Data Re-use Prize, a partnership between the Wellcome Trust and the Malaria Atlas Project.



Saturday, October 27

ASTMH CTropMed® Exam Registration

Sheraton - Grand Ballroom Foyer (5th Floor)
Saturday, October 27, 6:30 a.m. - 7:30 a.m.

ASTMH CTropMed® Examination

Sheraton - Grand Ballroom A/B (5th Floor)
Saturday, October 27, 8 a.m. - Noon

Institute for Disease Modeling - Introduction to Agent-Based Modeling for Infectious Diseases Workshop (Session I)

Sheraton - Nottoway (4th Floor)
Saturday, October 27, 8 a.m. - Noon

Organized by Institute for Disease Modeling

Please note that attendance is limited to those who pre-registered for the event.

ASTMH and the Institute for Disease Modeling (IDM) are partnering to offer an introductory course on using agent-based models for modeling infectious diseases. Modeling is an essential component for understanding disease dynamics and creating effective control strategies, yet it remains inaccessible to many researchers in public health. IDM is comprised of global health researchers, as well as professional software engineers, and has created an agent-based model, the Epidemiological MODELing software (EMOD), that is freely available to the research community. Agent-based models (ABMs) simulate the simultaneous interactions of individual agents to recreate complex phenomena, and are especially useful for modeling transmission dynamics. ASTMH and IDM are offering this workshop on ABMs with the intention of making modeling more accessible to public health researchers, using EMOD as the modeling framework. In this workshop, attendees will first get an overview of the fundamentals of disease modeling, and then hands-on modeling experience using EMOD. Participants will have access to IDM's newly developed web-based graphical tool that was designed to facilitate the learning process for EMOD. Included in the course materials will be example exercises and tutorials that participants can explore using EMOD. By the end of the workshop, participants should have a working understanding of the fundamental concepts of disease modeling and be familiar with agent-based models, their utility and their limitations. Additionally, participants will become familiar with IDM's available software tools and how the tools can be used for their own research projects. Motivated participants will have the opportunity to download and install the EMOD software, run local simulations and be able to explore open questions and exercises that were proposed in the workshop. The target audience for this workshop includes researchers in public health and epidemiology at a professional level (e.g., possessing a

PhD, MD, Master's or related degree) or working toward a professional degree (graduate students are welcome). Prerequisite knowledge includes a basic understanding of compartmental modeling (e.g., SIR models), familiarity with general epidemiology, and an interest in learning how to use ABM's for public health research. Please note, all participants of this session will need a laptop computer with Wi-Fi capabilities. For those interested in installing the EMOD software, they will need administrative rights to the computer.

Clinical Pre-Meeting Course Registration

Sheraton - Armstrong Ballroom (8th Floor)
Saturday, October 27, 10:30 a.m. - Noon

ASTMH Council Meeting

Sheraton - Waterbury (2nd Floor)
Saturday, October 27, Noon - 6 p.m.

Clinical (ACCTMTH) Pre-Meeting Course: Tropical Dermatology

Sheraton - Armstrong Ballroom (8th Floor)
Saturday, October 27, Noon - 5 p.m.

Supported in part by Thermosurgery Inc.

This 1.5-day course offers an overview of Tropical Dermatology, an essential component of tropical medicine. The course is designed for clinicians who are already familiar with clinical tropical medicine, either from working in tropical environments or from seeing patients returning from the tropics. Saturday's session is devoted to cutaneous leishmaniasis (the latest in the rapidly changing epidemiology, diagnosis, management). Skin conditions will be reviewed from the standpoint of diagnosing and treating individual patients – and from managing skin diseases on a population basis. This course will use several didactic methods, including lectures, lively Jeopardy-style presentations, panel discussions, hands-on practice with methods to treat cutaneous leishmaniasis, and opportunities to view pathogens and skin diseases under microscopy. The target audience includes clinicians who want to develop a deeper understanding of cutaneous leishmaniasis and other skin diseases found in the tropics, and expand their knowledge and skills needed to provide optimal care for this population.

COURSE CO-CHAIRS

Naomi Aronson
Uniformed Services University of the Health Sciences, Bethesda, MD, United States

Scott Norton
Children's National Medical Center, Washington, DC, United States

Noon

INTRODUCTION - COURSE SCOPE AND GOALS

Naomi Aronson
Uniformed Services University of the Health Sciences, Bethesda, MD, United States

Scott Norton
Children's National Medical Center, Washington, DC, United States

12:15 p.m.
CHANGES IN THE EPIDEMIOLOGY OF CUTANEOUS LEISHMANIASIS

Peter Hotez
Baylor College of Medicine, National School of Tropical Medicine, Houston, TX, United States

12:45 p.m.
JEOPARDY I: LEISHMANIASIS AND ITS MIMICS

MODERATOR

Scott Norton
Children's National Medical Center, Washington, DC, United States

Naomi Aronson
Uniformed Services University of the Health Sciences, Bethesda, MD, United States

Andrea K. Boggild
Toronto General Hospital, Tropical Disease Unit, Toronto, ON, Canada

Michael Libman
Montreal General Hospital, McGill University, Montreal, QC, Canada

Karolyn Wanat
Medical College of Wisconsin, Milwaukee, WI, United States

1:30 p.m.
DIAGNOSIS OF CUTANEOUS LEISHMANIASIS

Andrea K. Boggild
Toronto General Hospital, Tropical Disease Unit, Toronto, ON, Canada

2 p.m.
MANAGEMENT OF OLD WORLD CUTANEOUS LEISHMANIASIS

Pierre Buffet
Universite Paris Descartes, UPMC-Service de Parasitologie Mycologie, Paris, France

2:45 p.m.
THERMOMED/CRYOTHERAPY DEMONSTRATION (EXTENDS INTO BREAK)

Naomi Aronson
Uniformed Services University of the Health Sciences, Bethesda, MD, United States

Pierre Buffet
Universite Paris Descartes, UPMC-Service de Parasitologie Mycologie, Paris, France

Scott Norton
Children's National Medical Center, Washington, DC, United States

3 p.m.
COFFEE BREAK

3:15 p.m.
MANAGEMENT OF NEW WORLD CUTANEOUS LEISHMANIASIS

Naomi Aronson
Uniformed Services University of the Health Sciences, Bethesda, MD, United States

3:45 p.m.
MUCOSAL LEISHMANIASIS: PATHOLOGY AND IMMUNOLOGY GUIDE MANAGEMENT

Edgar Carvalho
Serviço de Imunologia, Federal University of Bahia, Salvador, Brazil

4:15 p.m.
THE FUTURE OF GLOBAL TREATMENT OF CUTANEOUS LEISHMANIASIS

Byron Arana
Drugs for Neglected Diseases initiative, Geneva, Switzerland

4:45 p.m.
QUESTIONS AND PANEL DISCUSSION

5 p.m.
ATTENDEE RECEPTION

Institute for Disease Modeling - Introduction to Agent-Based Modeling for Infectious Diseases Workshop (Session II)

Sheraton - Nottoway (4th Floor)
Saturday, October 27, 1 p.m. - 5 p.m.

Sunday, October 28

Pre-Meeting Course Registration

Sunday, October 28, 7 a.m. - 9 a.m.
Pre-Meeting Course registration will be held outside the following rooms:

Medical Entomology (ACME) Pre-Meeting Course: Vector-Borne Disease Risk and Prevention for the Clinician

Sheraton - Rhythms I (2nd Floor)

Global Health (ACGH) Pre-Meeting Course: The Global Health Impact of Urbanization and Megacities - Trends, Risk Management and Research Needs

Sheraton - Grand Ballroom D (5th Floor)

Parasitology (ACMCIP) Pre-Meeting Course: Big Data and Genomics - A Practical Workshop on Sequence Analysis in Parasitology

Sheraton - Grand Ballroom E (5th Floor)

Pre-Meeting Course Registration: Clinical (ACCTMTH) Pre-Meeting Course: Tropical Dermatology

Sheraton - Armstrong Ballroom (8th Floor)

Parasitology (ACMCIP) Pre-Meeting Course: Big Data and Genomics - A Practical Workshop on Sequence Analysis in Parasitology

Sheraton - Grand Ballroom E (5th Floor)

Sunday, October 28, 7 a.m. - 5 p.m.

As the cost of genome sequencing has dropped, its applications to parasitology and tropical medicine have rapidly expanded. Identifying emerging pathogens

and tracking their spread, understanding the origins and impact of drug resistance, investigating parasite population structures and how they are affected by disease elimination campaigns, carrying out fundamental studies of parasite cellular biology, tracing the evolution of the immune response to parasites – these are all fields where genomics and associated big data disciplines are becoming increasingly important. However, while generating sequence data has become increasingly easy, the tools needed to analyze and interpret these data can appear intimidating and change rapidly, making it difficult to gain experience. This practical, hands-on workshop will introduce participants to publicly available sequence analysis tools. Using parasite genome and/or RNAseq data obtained from actual field or laboratory experiments, participants will learn analytical methods and workflows used to extract meaningful biological, evolutionary and/or epidemiological insights. Through live exercises led by experts in the field, participants will learn how to retrieve data from sequence repositories, run them through preconfigured or customized workflows, and visualize and explore the data using web-based tools. These exercises will be augmented with short, didactic presentations on the theory and application of sequencing tools to parasitology research. Overall, the workshop will be interactive, interdisciplinary and provide participants with relevant tools and expertise to apply in their own research. Given the strong emphasis on hands-on learning, and the need to access web-based tools, participants will need to bring their own laptops if at all possible; availability of computers for all participants cannot be guaranteed.

COURSE ORGANIZERS

Michael Ferdig

University of Notre Dame, Notre Dame, IN, United States

Omar Harb

University of Pennsylvania, Philadelphia, PA, United States

Jessica Kissinger

University of Georgia, Athens, GA, United States

Jacquie Niles

Massachusetts Institute of Technology, Cambridge, MA, United States

Julian Rayner

Wellcome Trust Sanger Institute, Cambridge, United Kingdom

7 a.m.

LIGHT CONTINENTAL BREAKFAST

8 a.m.

INTRODUCTORY LECTURE: THE NEXT-GENERATION SEQUENCING REVOLUTION

Julian Rayner

Wellcome Trust Sanger Institute, Cambridge, United Kingdom

8:30 a.m.

HANDS-ON EXERCISE: PREPARING AND RUNNING AN RNASEQ OR VARIANT CALLING ANALYSIS WORKFLOW

11 a.m.

COFFEE BREAK

11:15 a.m.

LECTURES: RNASEQ/VARIANT ANALYSIS - APPLICATIONS AND TOOLS

Michael Ferdig

University of Notre Dame, Notre Dame, IN, United States

Jessica Kissinger

University of Georgia, Athens, GA, United States

Noon

LUNCH (ON YOUR OWN)

1:15 p.m.

HANDS-ON EXERCISE: UNDERSTANDING OUTPUT FILES, ANALYZING AND VISUALIZING RESULTS (COFFEE PROVIDED)

4:15 p.m.

WRAP-UP AND DISCUSSION

5 p.m.

COURSE ADJOURNS

Clinical (ACCTMTH) Pre-Meeting Course: Tropical Dermatology

Sheraton - Armstrong Ballroom (8th Floor)

Sunday, October 28, 7 a.m. - 4 p.m.

Supported in part by Thermosurgery Inc.

This 1.5-day course offers an overview of Tropical Dermatology, an essential component of tropical medicine. The course is designed for clinicians who are already familiar with clinical tropical medicine, either from working in tropical environments or from seeing patients returning from the tropics. Saturday's session is devoted to cutaneous leishmaniasis (the latest in the rapidly changing epidemiology, diagnosis, management). Skin conditions will be reviewed from the standpoint of diagnosing and treating individual patients – and from managing skin diseases on a population basis. This course will use several didactic methods, including lectures, lively Jeopardy-style presentations, panel discussions, hands-on practice with methods to treat cutaneous leishmaniasis, and opportunities to view pathogens and skin diseases under microscopy. The target audience includes clinicians who want to develop a deeper understanding of cutaneous leishmaniasis and other skin diseases found in the tropics, and expand their knowledge and skills needed to provide optimal care for this population.

COURSE CO-CHAIRS

Naomi Aronson

Uniformed Services University of the Health Sciences, Bethesda, MD, United States

Scott Norton

Children's National Medical Center, Washington, DC, United States

7 a.m.

NETWORKING BREAKFAST

8 a.m.
INTRODUCTION TO TROPICAL DERMATOLOGY
Scott A. Norton
Children's National Medical Center, Washington, DC, United States

8:15 a.m.
SENTINEL PRESENTATIONS OF REPORTABLE DISEASES
Karolyn Wanat
Medical College of Wisconsin, Milwaukee, WI, United States

9 a.m.
SKIN CONDITIONS AMONG REFUGEES, MIGRANTS AND ADOPTEES
Alexia Knapp
HealthPartners Medical Group, University of Minnesota Global Health Pathway, St. Paul, MN, United States

9:30 a.m.
JEOPARDY II: DRUGS, BUGS, LUMPS AND BUMPS
Aileen Chang
University of California San Francisco, San Francisco, CA, United States
L. Claire Fuller
Chelsea and Westminster Hospital - NHS, London, United Kingdom
Wingfield Rehmus
University of British Columbia, Vancouver, BC, United States
Karolyn Wanat
Medical College of Wisconsin, Milwaukee, WI, United States

10:30 a.m.
COFFEE BREAK

10:45 a.m.
HIV DERMATOLOGY
Esther Freeman
Massachusetts General Hospital, Cambridge, MA, United States

11:15 a.m.
DERMATOLOGIC DISEASES ASSOCIATED WITH ENVIRONMENTAL CHANGES AND NATURAL DISASTERS
Justin Bandino
San Antonio Military Medical Center, San Antonio, TX, United States

11:45 a.m.
DERMATOLOGIC FORMULARY AND DIAGNOSTICS IN RESOURCE POOR SETTINGS
Scott Norton
Children's National Medical Center, Washington, DC, United States

12:15 p.m.
DEMONSTRATION OF DERMATOLOGIC DIAGNOSTIC AND THERAPEUTIC METHODS (EXTENDS INTO LUNCH)
Naomi Aronson
Uniformed Services University of the Health Sciences, Bethesda, MD, United States
Justin Bandino
San Antonio Military Medical Center, San Antonio, TX, United States
Alexia Knapp
HealthPartners Medical Group, University of Minnesota Global Health Pathway, St. Paul, MN, United States
Scott Norton
Children's National Medical Center, Washington, DC, United States

12:15 p.m.
LUNCH (ON YOUR OWN)

1:30 p.m.
DERMATOLOGIC NEGLECTED TROPICAL DISEASES: THE MOST N OF THE NTDS
Erin Amerson
University of California San Francisco, San Francisco, CA, United States
Aileen Chang
University of California San Francisco, San Francisco, CA, United States

2:15 p.m.
SKIN DISORDERS ASSOCIATED WITH ADVENTURE TRAVEL AND ECO-TOURISM
Wingfield Rehmus
University of British Columbia, Vancouver, BC, United States

2:45 p.m.
JEOPARDY III: PARASITES LOST (AND OTHER COMMUNICABLE CONDITIONS)
Erin Amerson
University of California San Francisco, San Francisco, CA, United States
Esther Freeman
Massachusetts General Hospital, Cambridge, MA, United States
Scott A. Norton
Children's National Medical Center, Washington, DC, United States
Karolyn Wanat
Medical College of Wisconsin, Milwaukee, WI, United States

3:45 p.m.
QUESTIONS AND PANEL DISCUSSION

4 p.m.
COURSE ADJOURNS

Global Health (ACGH) Pre-Meeting Course: The Global Health Impact of Urbanization and Megacities - Trends, Risk Management and Research Needs

Sheraton - Grand Ballroom D (5th Floor)
Sunday, October 28, 7:15 a.m. - 4 p.m.

This course will explore the changing worldwide landscape and global health risks with the exponential increase in urban population growth. More than half of the world's population lives in urban areas, and roughly one in three urban inhabitants now lives in slums or other type of informal settlements. By 2050, the world's urban population will nearly double to 6.3 billion. As urban growth continues, the impact on natural resources and public health risks will grow, compounded by climate change. Air pollution, lack of sanitation and clean water (or any water) will detrimentally impact urban populations. In addition, economic fragility and poor access to healthcare, lack of infrastructure and vulnerability to floods, earthquakes, droughts and other human-made and natural disasters increase health risks. Half of the global population lives in areas with *Aedes aegypti* mosquitoes, which are adapted to the urban landscape and is the vector for yellow fever, dengue, chikungunya and Zika viruses. Beyond vector-borne diseases, the lack of barriers between animals, vectors, the environment and water supply increases the risk of other diseases such as leptospirosis, Ebola and plague. We urgently need to be prepared for new microbial

transmission pathways in the urban environment that affect human health.

This course will bring together experts to discuss how to manage risks that the world will face as cities continue to grow and will attempt to answer the following questions:

- What are the drivers for urbanization that lead to increased risk of human exposure – and what are potentially successful mitigation methods?
- What is the current state of affairs in urban planning to mitigate health risks?
- How can the urban environment improve access to safe water and reduce exposure to air pollution?
- How can health assessments and health equity be improved in slums?
- How can accurate and timely data be captured that will describe urban disease transmission that will allow targeted interventions?
- What increases the risk of transmission of infectious diseases within, into and out of urban centers via animals and vectors, and what are the research gaps and successes for decreasing transmission?
- What global initiatives offer guidance and approaches to shape health-promoting urban settings to decrease infectious disease transmission?

COURSE ORGANIZERS

Daouda Niaye
Cheikh Anta Diop University, Hopital Aristide Le Dantec, Dakar, Senegal

Julie Pavlin
National Academies of Sciences, Engineering and Medicine, Washington, DC, United States

Christopher Perdue
U.S. Public Health Service, Washington, DC, United States

7:15 a.m.
LIGHT CONTINENTAL BREAKFAST

7:45 a.m.
INTRODUCTION OF TOPIC AND LOGISTICS

Urban Health Dynamics

8 a.m.
URBAN HEALTH: A GLOBAL PERSPECTIVE
Jo Ivey Boufford
New York University and President, International Society of Urban Health, New York, NY, United States

8:30 a.m.
URBAN HEALTH COMPLEXITIES AND INEQUITIES
Alayne Adams
Georgetown University, Washington, DC, United States

9 a.m.
CASE STUDY PART I

9:15 a.m.
COFFEE BREAK

Urban Planning - Water, Air and Sanitation

9:30 a.m.
HEALTH OPPORTUNITIES FROM CLEAN POWER AND ALTERNATIVE TRANSPORTATION IN CITIES

Jonathan Patz
University of Wisconsin Madison, Madison, WI, United States

10 a.m.
WATER, SANITATION AND HYGIENE INTERVENTIONS FIT FOR CONTEXT: SLUMS AND HUMANITARIAN RESPONSE

Daniele Lantagne
Tufts University, Medford, MA, United States

10:30 a.m.
THIRSTY CITIES IN THE 21ST CENTURY: THE NEED FOR NEW APPROACHES

Stephen Luby
Stanford University, Stanford, CA, United States

11 a.m.
PANEL DISCUSSION

11:15 a.m.
CASE STUDY PART 2

11:45 a.m.
LUNCH (ON YOUR OWN)

Health Impacts

1 p.m.
EMERGING INFECTIOUS DISEASE THREATS IN THE URBAN SLUM ENVIRONMENT

Albert Ko
Yale School of Public Health, New Haven, CT, United States

1:30 p.m.
EPIDEMIOLOGICAL SHIFT IN DEVELOPING COUNTRIES: IMPACT OF NON-COMMUNICABLE DISEASE AND NUTRITION IN URBAN CENTERS

Sohana Shafique
International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

2 p.m.
ASSESSING HEALTH SYSTEM PERFORMANCE IN GLOBAL CITIES

Michael Gusmano
Rutgers University, School of Public Health, New Brunswick, NJ, United States

Victor Rodwin
New York University, New York, NY, United States

2:30 p.m.
PANEL DISCUSSION

3 p.m.
COFFEE BREAK

3:15 p.m.
CASE STUDY PART 3

3:30 p.m.
CROSS-SECTIONAL COLLABORATION IN URBAN HEALTH IN LATIN AMERICA - THE OBSERVATORY FOR URBAN HEALTH IN BELO HORIZONTE CITY

Waleska Teixeira Caiaffa
Federal University of Minas Gerais, School of Medicine, Belo Horizonte, Brazil

4 p.m.
COURSE ADJOURNS

Medical Entomology (ACME) Pre-Meeting Course: Vector-Borne Disease Risk and Prevention for the Clinician

Sheraton - Rhythms I (2nd Floor)
Sunday, October 28, 7:30 a.m. - 4 p.m.

Blood-sucking insects and ticks transmit some of the most devastating, yet in many cases preventable, human diseases including malaria, dengue, chikungunya, Zika, Lyme disease, leishmaniasis and Chagas disease. This course will review the basic biology of major arthropod vectors; discuss the geographic and behavioral risks posed by vector-borne diseases; and present preventive options, including personal protection and environmental control methods. The course is designed to help medical professionals advise their patients about the risks and prevention measures against biting insects and ticks. A Q&A session on common client questions, how to address them and where to find resources will be provided.

COURSE CO-CHAIRS

Philip Armstrong
The Connecticut Agricultural Experiment Station, New Haven, CT, United States

Christopher Barker
University of California Davis, Davis, CA, United States

Laura Harrington
Cornell University, Ithaca, NY, United States

7:30 a.m.
LIGHT CONTINENTAL BREAKFAST

8 a.m.
OVERVIEW OF THE COURSE - INTRODUCTION TO VECTORS AND THEIR DISEASES

Laura Harrington
Cornell University, Ithaca, NY, United States

8:30 a.m.
TICK-BITE PREVENTION AND PROPHYLAXIS OF LYME DISEASE

Douglas MacQueen
Cayuga Medical Center, Ithaca, NY, United States

9:30 a.m.
MOSQUITOES AND MALARIA
Brian Foy
Colorado State University, Fort Collins, CO, United States

10:30 a.m.
COFFEE BREAK

10:45 a.m.
MOSQUITOES AND ARBOVIRAL DISEASES
Philip Armstrong
The Connecticut Agricultural Experiment Station, New Haven, CT, United States

11:45 a.m.
LUNCH (ON YOUR OWN)

1 p.m.
KISSING BUGS AND CHAGAS DISEASE
Sarah Hamer
Texas A&M University, College Station, TX, United States

2 p.m.
ENVIRONMENTAL RISK AND PREVENTION AGAINST SANDFLY VECTORS OF LEISHMANIASIS
Christine Petersen
University of Iowa, Iowa City, IA, United States

3 p.m.
QUESTION AND ANSWER SESSION

4 p.m.
COURSE ADJOURNS

Registration

Marriott - Preservation Hall (2nd Floor)
Sunday, October 28, 9 a.m. - 7:30 p.m.

Burroughs Wellcome Fund/ASTMH Fellowship Committee Meeting

Sheraton - Bacchus (8th Floor)
Sunday, October 28, 9 a.m. - 11 a.m.

Young Investigator Award Sessions

CHAIR
Edward Mitre
Uniformed Services University of the Health Sciences, Bethesda, MD, 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.

ASTMH gratefully accepts support for these awards in memory of William A. Petri, Sr. and Annie Liberati.

ASTMH appreciates support of these awards from:

Dr. Ann E. Petri and the late William A. Petri, Sr.

TECHLAB Inc.

The Petri Family

PLOS Neglected Tropical Diseases

Michael Gottlieb, PhD

Thomas C. Green, Jr.

Joel Moss, MD, PhD

Centre for Arbovirus and Hemorrhagic Fever Reference and Research,
Hamburg, Germany

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EFFECT OF THE ABO BLOOD GROUP ON SUSCEPTIBILITY TO SEVERE MALARIA AND RELATED OUTCOMES: A SYSTEMATIC REVIEW AND META-ANALYSIS

Abraham Degarege¹, Merhawi T. Gebrezgi¹, Gladys Ibanez¹, Mats Wahlgren², Purnima Madhivanan¹

¹Department of Epidemiology, Robert Stempel College of Public Health and Social Work, Miami, FL, United States, ²Department of Microbiology, Tumor and Cell Biology (MTC), Karolinska Institute, Stockholm, Sweden

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IMPACT OF MASS TREATMENT WITH DIHYDROARTEMISININ PIPERAQUINE ON MALARIA TRANSMISSION DYNAMICS IN THE GAMBIA: A PROSPECTIVE STUDY

Julia Mwesigwa¹, Jane Achan¹, Miriam Wathou¹, Nuredin Ibrahim Mohammed¹, Musa Jawara¹, Aurelia Prom¹, Fatoumatta Kanuteh¹, Jean-Pierre Geertruyden², Umberto D'Alessandro¹

¹Medical Research Council Unit The Gambia at London School of Hygiene & Tropical Medicine, Banjul, Gambia, ²University of Antwerp, Antwerp, Belgium

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U.S. TRAVELERS' CONCERN ABOUT ZIKA INFECTION AND WILLINGNESS TO RECEIVE A HYPOTHETICAL ZIKA VACCINE

Nadja A. Vielot¹, Lola Stamm², James Herrington³, Linda Squires⁴, Bridget Kelly⁴, Lauren McCormack⁴, Sylvia Becker-Dreps¹

¹Department of Family Medicine, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, ²Department of Epidemiology, University of North Carolina Gillings School of Global Public Health, Chapel Hill, NC, United States, ³Department of Health Behavior, University of North Carolina Gillings School of Global Public Health, Chapel Hill, NC, United States, ⁴RTI International, Research Triangle Park, NC, United States

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MICRONUTRIENT LEVELS IN A PEDIATRIC UGANDAN COHORT WITH SICKLE CELL ANEMIA

Thomas F. Siegert¹, Sarah E. Cusick², Russell E. Ware³, Robert O. Opoka⁴, Chandy C. John⁵

¹University of Washington School of Medicine, Seattle, WA, United States, ²Department of Pediatrics, University of Minnesota, Minneapolis, MN, United States, ³Division of Hematology, Department of Pediatrics, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, United States, ⁴Department of Paediatrics and Child Health, Makerere University, Kampala, Uganda, ⁵Ryan White Center for Infectious Diseases and Global Health, Department of Pediatrics, Indiana University, Indianapolis, IN, United States

509

PITFALLS OF PREDICTING LEPTOSPIROSIS BY COMMON CLINICAL AND BIOCHEMICAL MARKERS

Janith Warnasekara¹, Dinesha Jayasundara², Indika Senavirathna³, Sisira Siribaddana⁴, Kularathna Sam⁵, Joseph Vinetz⁶, Suneth Agampodi¹

¹Department of Community Medicine, Faculty of Medicine and Allied Sciences, Rajarata University of Sri Lanka, Anuradhapura, Sri Lanka, ²Department of Microbiology, Faculty of Medicine and Allied Sciences, Rajarata University of Sri Lanka, Anuradhapura, Sri Lanka, ³Department of Biochemistry, Faculty of Medicine and Allied Sciences, Rajarata University of Sri Lanka, Anuradhapura, Sri Lanka, ⁴Department of Medicine, Faculty of Medicine and Allied Sciences, Rajarata University of Sri Lanka, Anuradhapura, Sri Lanka, ⁵Department of Medicine, Faculty of Medicine, University of Peradeniya, Kandy, Sri Lanka, ⁶Division of Infectious diseases, School of Medicine, University of California, San Diego, Anuradhapura, Sri Lanka

Young Investigator Award Session A

Sheraton - Oak Alley (4th Floor)

Sunday, October 28, 10 a.m. - 3 p.m.

JUDGE

Peter Crompton

National Institutes of Health, Rockville, MD, United States

Matthew B. Laurens

Institute for Global Health, University of Maryland School of Medicine, Baltimore, MD, United States

Naomi W. Lucchi

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

Fernanda A. Pereira

Oswaldo Cruz Foundation, Salvador, Brazil

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THE BURDEN OF SKIN DISEASE AND EYE DISEASE DUE TO ONCHOCERCIASIS IN AFRICA FOR 2015 AND 2025

Natalie V. Vinkeles Melchers¹, Wilma A. Stolk¹, Jan H. Remme², Michele E. Murdoch³, Belén Pedrique⁴, Roel Bakker¹, Sake J. de Vlas¹, Luc E. Coffeng¹

¹Erasmus MC, University Medical Center Rotterdam, Rotterdam, Netherlands, ²120 rue des Campanules, Ornex, France, ³Department of Dermatology, Watford General Hospital, Watford, Hertfordshire, United Kingdom, ⁴Drugs for Neglected Diseases initiative (DNDI), Geneva, Switzerland

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EDUCATION, MENSTRUAL HYGIENE, AND FEMALE GENITAL MUTILATION: GENDER DISPARITY AMONG MAASAI YOUTH IN RURAL KENYA

Kristen Zozulin¹, Josephine L. Ndirias², David R. Hill¹

¹Frank H Netter MD School of Medicine at Quinnipiac University, North Haven, CT, United States, ²Mukogodo Girls Empowerment Program, Nanyuki, Kenya

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USE OF CAPILLARY BLOOD LEADS TO HIGHER PARASITEMIA ESTIMATES AND HIGHER DIAGNOSTIC SENSITIVITY OF MICROSCOPIC AND MOLECULAR DIAGNOSTICS OF MALARIA THAN VENOUS BLOOD SAMPLING

Johannes Mischlinger¹, Paul Pitzinger², Luzia Veletzky¹, Mirjam Groger¹, Rella Zoleko-Manego³, Ayola A. Adegniko³, Selidji T. Agnandji³, Bertrand Lell³, Peter G. Kremsner⁴, Egbert Tannich⁵, Ghyslain Mombo-Ngoma³, Benjamin Mordmüller⁴, Michael Ramharter¹

¹Department of Tropical Medicine, Bernhard Nocht Institute for Tropical Medicine and University Medical Center Hamburg-Eppendorf, Hamburg, Germany, ²Medical University of Vienna, Vienna, Austria, ³Centre de Recherches Médicales de Lambaréné, Lambaréné, Gabon, ⁴Institut für Tropenmedizin, Universität Tübingen, Tübingen, Germany, ⁵Bernhard Nocht Institute for Tropical Medicine, World Health Organization Collaborating

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LYMPHANGIOGENIC POTENTIAL OF WITHANIA SOMNIFERA, A NOVEL THERAPEUTIC AGENT TARGETS HOST-PARASITE INTERACTION IN FILARIAL INDUCED SECONDARY LYMPHEDEMA

Anand Setty Balakrishnan

Madurai Kamaraj University, Madurai, India

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THE ROLE OF HIGH RISK GROUPS IN MAINTAINING SCHISTOSOMA MANSONI TRANSMISSION DESPITE OVER A DECADE OF PRAZIQUANTEL TREATMENT

Christina L. Faust¹, Arinaitwe Moses², Andrina Nankasi², Fred Besigye², Atuhire Alon², Moses Adriko², Narcis Kabatereine², Edridah Tukahebwa², Poppy H. Lambertson¹

¹Institute of Biodiversity, Animal Health, and Comparative Medicine, University of Glasgow, Glasgow, United Kingdom, ²Vector Control Division, Ministry of Health, Kampala, Uganda

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EVALUATION OF THE CARESTART™ GLUCOSE-6-PHOSPHATE DEHYDROGENASE (G6PD) RAPID DIAGNOSTIC TEST AT COMMUNITY AND HEALTH CENTER LEVEL IN CAMBODIA

Bertha Wojnarski¹, Lon Chanthap¹, Darapiseth Sea¹, Threechada Boonchan¹, Sabaithip Sriwichai¹, Soklyda Chann², Sohei Hom¹, Worachet Kuntawunginn¹, Philip Smith¹, Michele Spring¹, Mitra Feldman¹, Sokna Ly², Nichapat Uthaimongkol¹, Panita Gosi¹, Mali Ittiverakul¹, Nillawan Buathong¹, Somethy Sok³, Samon Nou², Pheaktra Oung², Nareth Kong², Vannak Pheap², Khengheang Thay², Vy Dao², Huy Rekol⁴, Lek Dysoley⁴, Mariusz Wojnarski¹, Mark Fakuda¹

¹US Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ²US Armed Forces Research Institute of Medical Sciences, Phnom Penh, Cambodia, ³Ministry of National Defense, Department of Health, Phnom Penh, Cambodia, ⁴National Center for Parasitology, Entomology and Malaria Control, Phnom Penh, Cambodia

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SAFETY AND IMMUNOGENICITY OF AGS-V, A MOSQUITO SALIVA PEPTIDE VACCINE: A RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED PHASE 1 TRIAL

Jessica E. Manning¹, Fabiano Oliveira¹, Iliano V. Coutinho-Abreu¹, Samantha Herbert¹, Claudio Meneses¹, Shaden Kamhawi¹, Holly Ann Baus¹, Alison Han¹, Lindsay Czajkowski¹, Luz Angela Rosas¹, Adriana Cervantes-Medina¹, Rani Athota¹, Susan Reed¹, Ana Fernandez², Olga Pleguezuelos², Gregory Stoloff², Jesus G. Valenzuela¹, Matthew J. Memoli¹

¹National Institutes of Health, Bethesda, MD, United States, ²SEEK Pep Tcell Limited, London, United Kingdom

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DEFINING DIARRHEA: A POPULATION-BASED VALIDATION STUDY OF CAREGIVER-REPORTED STOOL CONSISTENCY IN THE AMHARA REGION OF ETHIOPIA

Kristen Aiemjoy¹, Solomon Aragie², Sintayehu Gebresilasie², Dionna Fry¹, Adane Dagne², Dagnachew Hailu², Meslew Chanyalew³, Zerihun Tadesse², Aisha Stewart⁴, Kelly Callahan⁴, Mathew Freeman⁵, John Neuhaus¹, Benjamin F. Arnold⁶, Jeremy D. Keenan¹

¹University of California San Francisco, San Francisco, CA, United States, ²The Carter Center, Addis Ababa, Ethiopia, ³Amhara Regional Health Bureau, Bahir Dar, Ethiopia, ⁴The Carter Center, Atlanta, GA, United States, ⁵Emory University, Atlanta, GA, United States, ⁶University of California Berkeley, Berkeley, CA, United States

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SAFETY AND FEASIBILITY OF APHERESIS TO HARVEST AND CONCENTRATE PARASITES IN SUBJECTS WITH INDUCED BLOOD STAGE PLASMODIUM VIVAX INFECTION

Anand Odedra¹, Rebecca Pawliw¹, Rebecca Watts¹, Kari Mudie², Glen Kennedy², David Lalloo³, James McCarthy¹

¹QIMR Berghofer, Brisbane, Australia, ²Royal Brisbane and Women's Hospital, Brisbane, Australia, ³Liverpool School Tropical Medicine, Liverpool, United Kingdom

Young Investigator Award Session B

Sheraton - Rhythms II (2nd Floor)

Sunday, October 28, 10 a.m. - 3 p.m.

JUDGE

Vitaliano A. Cama

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

Ann M. Moormann

University of Massachusetts, Worcester, MA, United States

V. Ann Stewart

Uniformed Services University of the Health Sciences, Bethesda, MD, United States

Tuan M. Tran

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

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INVESTIGATING THE FIRST OUTBREAK OF DENGUE HEMORRHAGIC FEVER IN THE GREATER DARFUR, WESTERN SUDAN

Ayman Ahmed¹, Yousif Ali², Babiker Elmagboul², Arwa Elaagip³, Tarig B. Higazi⁴

¹Institute of Endemic Diseases, University of Khartoum, Sudan, Khartoum, Sudan, ²General Directorate of Health Emergencies, Federal Ministry of Health, Sudan, Khartoum, Sudan, ³Faculty of Medical Laboratory Sciences, University of Khartoum, Sudan, Khartoum, Sudan, ⁴Ohio University Zanesville, Zanesville, OH, United States

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RE-EXPANSION OF CHLOROQUINE SENSITIVE HAPLOTYPES IN THE P. FALCIPARUM RESERVOIR OF INFECTION IN BONGO DISTRICT, GHANA

Charles A. Narh¹, Kathryn E. Tiedje¹, Michael F. Duffy¹, Anita Ghansah², Abraham R. Oduro³, Kwadwo A. Koram², Karen P. Day¹

¹School of Bioscience, Bio21 Institute/University of Melbourne, Melbourne, Australia, ²Noguchi Memorial Institute for Medical Research, University of Ghana, Legon, Accra, Ghana, ³Navrongo Health Research Centre, Navrongo, Ghana

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MODELLED PREDICTED PUBLIC HEALTH IMPACT AND COST-EFFECTIVENESS OF CHILDHOOD RTS,S/AS01E MALARIA VACCINE IN MALAWI, USING A MARKOV STATIC MODEL

Latif Ndeketa

Malawi-Liverpool-Wellcome Trust Clinical Research Programme, Blantyre, Malawi

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SPATIAL DISTRIBUTION OF YERSINIA PESTIS FOUND IN A SENTINEL SPECIES ACROSS THE UNITED STATES WHILE ACCOUNTING FOR SAMPLING UNCERTAINTY

Ian D. Buller¹, A. Townsend Peterson², Sarah T. Bevins³, Jeffrey C. Chandler³, Kenneth L. Gage⁴, Lance A. Waller¹

¹Emory University, Atlanta, GA, United States, ²University of Kansas,

Lawrence, KS, United States, ³US Department of Agriculture, National Wildlife Disease Program, Wildlife Services, Fort Collins, CO, United States, ⁴Centers for Disease Control and Prevention, National Center for Infectious Diseases, Division of Vector-Borne Infectious Diseases, Bacterial Zoonoses Branch, Fort Collins, CO, United States

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SEROLOGIC EVIDENCE OF BAT ORTHOREOVIRUS IN SINGAPORE

Anna Uehara, Chee Wah Tan, Danielle E. Anderson, Lin-Fa Wang
Duke-NUS Medical School, Singapore, Singapore

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MODEL-BASED ASSESSMENT OF PUBLIC HEALTH IMPACT AND COST-EFFECTIVENESS OF ROUTINE VACCINATION WITH DENGVAXIA® FOLLOWING SCREENING FOR PRIOR DENGUE VIRUS EXPOSURE

Guido España¹, Yutong Yao¹, Kathryn Anderson², Meagan Fitzpatrick³, David L. Smith⁴, Amy C. Morrison⁵, Thomas W. Scott⁵, Alex Perkins¹
¹University of Notre Dame, Notre Dame, IN, United States, ²University of Minnesota, Minneapolis, MN, United States, ³University of Maryland, College Park, MD, United States, ⁴University of Washington, Seattle, WA, United States, ⁵University of California Davis, Davis, CA, United States

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THE IMPACT OF HOUSEHOLD CLUSTERING ON ENTERIC PATHOGEN INFECTION IN RURAL LAOTIAN COMMUNITIES

Anna N. Chard¹, Howard H. Chang¹, Karen Levy¹, Kelly K. Baker², Matthew C. Freeman¹
¹Emory University, Atlanta, GA, United States, ²University of Iowa, Iowa City, IA, United States

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A QUALITATIVE STUDY TO UNDERSTAND POPULATION'S PERCEPTION ON PLAGUE AFTER 2017 EPIDEMIC, ANTANANARIVO, MADAGASCAR

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VALIDATING NOVEL SEROLOGICAL MARKERS OF MALARIA EXPOSURE: EVALUATING THE EFFECT OF MASS DRUG ADMINISTRATION (MDA) AND SEASONAL MALARIA CHEMOPREVENTION (SMC) ON TRANSMISSION IN RURAL GAMBIA BASED ON POPULATION-LEVEL ANTIBODY RESPONSES

Lindsey Wu, Muna Affara, Julia Mwesigwa, Simon Correa, Mamadou Bah, Tom Hall, Kevin Tetteh, Jane Achan, Davis Nwakanma, Umberto D'Alessandro, Chris Drakeley
London School of Hygiene & Tropical Medicine, London, United Kingdom

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IMPACT OF HOUSING COMPOSITION ON DOMESTIC TRIATOMINE EXPOSURE RISK: EPIDEMIOLOGIC INVESTIGATION IN WEST TEXAS REGION ALONG THE UNITED STATES - MEXICO BORDER

Rodion Gorchakov¹, Sarah M. Gunter¹, Kyndall Dye-Braumuller², Rebecca M. Berry¹, Raymond Skiles³, Kristy O. Murray¹, Melissa S. Nolan¹
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DTK-DENGUE: A NEW AGENT-BASED MODEL OF DENGUE VIRUS TRANSMISSION DYNAMICS

James Soda¹, Sean M. Moore¹, Guido España¹, Jonathan Bloedow², Benoît Raybaud², Benjamin M. Althouse², Michael A. Johansson³, Edward A. Wenger², Philip A. Welkhoff⁴, Alex Perkins¹, Quirine A. ten Bosch⁵
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USING ARCGIS AND SATSCAN SOFTWARE TO INVESTIGATE EPIDEMIOLOGY AND RISK FACTORS OF ENTERIC INFECTIONS IN MIRPUR, BANGLADESH USING DATA FROM THE PROVIDE STUDY

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A BURDEN OF DISEASE ASSESSMENT OF LOA LOA INFECTION IN GABON

Luzia Veletzky¹, Jennifer Hergeth², Daniel Stelzl², Rella Zoleko-Manego², Lia B. Mbinga², Ghyslain Mombo-Ngoma², Christine Budke³, Johannes Mischlinger¹, Ayòla A. Adegnikà², Wolfram Metzger⁴, Pierre B. Matsiegui⁵, Heimo Lagler⁶, Peter G. Kremsner⁴, Benjamin Mordmüller⁴, Michael Ramharter¹
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MODERNIZING OUTBREAK INVESTIGATION FOR EMERGING INFECTIONS: AN INTEGRATED PHYLOGENETIC AND EPIDEMIOLOGICAL APPROACH FROM THE WEST AFRICAN EBOLA OUTBREAK IN SIERRA LEONE DETECTS A POTENTIAL NOVEL MECHANISM OF TRANSMISSION AND VALIDATES THE BENEFIT OF INCORPORATING GENOMIC DATA

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Young Investigator Award Session C

Sheraton - Rhythms III (2nd Floor)

Sunday, October 28, 10 a.m. - 3 p.m.

JUDGE

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Prakash Srinivasan
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INTRODUCING *S. MANSONI* AMP-ACTIVATED PROTEIN KINASE (AMPK): DEVELOPMENTAL REGULATION, ACTIVITY, AND ROLE IN SCHISTOSOME ENERGY METABOLISM

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Hamma I. Maiga¹, Amadou Bamadio², Aliou Traore², Nouhoum Diallo², Modibo Diarra², Issaka Sagara², Samba Coumare², Soma Bahonan³, Boubou Sangare², Hamidou Niangaly², Aboubecrine Haidara², Yeyia Dicko², Aly Tembely², Francois Daou², Djibril Traore², Michel Vaillant⁴, Alassane Dicko², Estrela Lasry³, Ogobara K. Doumbo², Abdoulaye A. Djimde²
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WHOLE GENOME SEQUENCING TO MEASURE COMPLEXITY OF INFECTION AND GENETIC DIVERSITY IN *PLASMODIUM VIVAX* CLINICAL ISOLATES FROM THE CHINA-MYANMAR BORDER

Sonia Agrawal¹, Fang Huang², Biraj Shrestha¹, Matthew Adams¹, Sandra Ott³, Lisa Sadzewicz³, Hui Lui⁴, David Serre³, Shannon Takala-Harrison¹, Myaing Nyunt⁵, Joana Carneiro Da Silva³, Christopher Plowe⁵
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GENOME-WIDE ASSOCIATION STUDY IDENTIFIES GENES UNDERLYING DENGUE VIRUS SUSCEPTIBILITY IN WILD-TYPE *Aedes aegypti* FED ON VIREMIC HUMAN BLOOD

Laura B. Dickson¹, Albin Fontaine¹, Sarah H. Merkle¹, Benjamin R. Evans², Andrea Gloria-Soria², Mo Li², Xiaoqing Yu², Kuang-Yao Lee², Lauren B. Carrington³, Cameron P. Simmons⁴, Hongyu Zhao², Jeffrey R. Powell², Louis Lambrechts¹
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UPGRADE OF A PHYSICAL GENOME MAP FOR *Aedes aegypti*

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STRUCTURAL PROTEINS PRME DICTATE SEXUAL TRANSMISSION POTENTIAL OF ZIKV IN AN IMMUNOCOMPETENT MOUSE MODEL

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GENOME-WIDE DIFFERENCES IN *P. falciparum* PARASITES IN MALAWIAN CHILDREN AND ADULTS

Zalak Shah¹, Kara Moser¹, Matthew Adams¹, Andrea Buchwald¹, Karl Seydel², Don Mathanga³, David Serre¹, Miriam K. Laufer¹, Joana C. Silva¹, Shannon Takala-Harrison¹
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MINIMAL GENETIC DIVERSITY AND SPATIAL CLUSTERING OF CHOLERA CASES IN THE KATHMANDU VALLEY: IMPLICATIONS FOR A RING-VACCINATION STRATEGY

Mellisa Roskosky, Mohammad Ali, Jyoti Acharya, Amanda Debes, Colin Stine, David Sack
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2018

STUDY OF CHANGES IN THE TRANSCRIPTOME OF MOUSE BLADDER FOLLOWING BLADDER WALL INJECTION OF *Schistosoma haematobium* EGGS

Kenji Ishida, Evaristus Mbanefo, Loc Le, Michael Hsieh
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Shazia Ruybal-Pesántez¹, Kathryn E. Tiedje¹, Gerry Tonkin-Hill², Shai Pilosof³, Abraham R. Oduro⁴, Michael F. Duffy¹, Kwadwo A. Koram⁵, Mercedes Pascual², Karen P. Day¹
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Karthigayan Gunalan¹, Juliana M. Sa¹, Roberto R. de Moraes Barros¹, Kishore Kanakabandi², Sarah L. Anzick², Ramoncito L. Caleon¹, J. Patrick

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HOST-SPECIFIC THEILERIA PARVA POPULATIONS**

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Joana C. Silva¹
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Young Investigator Award Session D

Sheraton - Nottoway (4th Floor)
Sunday, October 28, 10 a.m. - 3 p.m.

JUDGE

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Roshanak T. Semnani
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Megan B. Vogt¹, Anismrita Lahon¹, Alexander R. Kneubehl¹, Azadeh Aryan²,
Ravi P. Arya¹, Jennifer L. Clinton¹, Brianne M. Hibi¹, Zach N. Adelman³, Silke
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**ZIKA VIRUS UPREGULATES INTERFERONS AND PRO-
INFLAMMATORY CYTOKINES IN HUMAN PROSTATE CELLS**

Jennifer L. Clinton, Linda L. Tran, Megan B. Vogt, David R. Rowley, Jason T.
Kimata, Rebecca R. Rico-Hesse
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**A SINGLE NUCLEOTIDE POLYMORPHISM IN A
PLASMODIUM BERGHEI APIAP2 TRANSCRIPTION
FACTOR ALTERS THE DEVELOPMENT OF HOST IMMUNE
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Munir Akkaya¹, Abhisheka Bansal¹, Patrick W. Sheehan¹, Mirna Y. Pena¹,
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**ANTIBODIES AGAINST ESSENTIAL MEROZOITE ANTIGENS
PFRH5, CYRPA AND MSP-1 POTENTLY NEUTRALIZE
ERYTHROCYTE INVASION BY PLASMODIUM FALCIPARUM
CLINICAL ISOLATES**

Syed Yusuf Mian¹, Hina Singh², Alok K. Pandey³, Kritika Chaddha¹, Sri
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Investigação em Saude de Manhiça, Mozambique, Mozambique

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**SELECTION AND CHARACTERIZATION OF A NOVEL
WHIPWORM VACCINE CANDIDATE THAT INDUCES TYPE 2
PROTECTIVE IMMUNITY**

Neima Briggs¹, Leroy Versteeg², Maria Elena Bottazzi², Bin Zhan², Jeroen
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**EOSINOPHIL-DOMINATED PULMONARY TYPE-2
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INHIBITS LARVAL DEVELOPMENT AND CONTROLS
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**IMPACT OF PREVIOUS MALARIA EXPOSURE ON HOST
RESPONSES TO PLACENTAL MALARIA**

Jennifer Howard¹, Robert Morrison¹, Omely Marte¹, Ankur Sharma², Lynn
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**A STRUCTURALLY DEFINED EPITOPE IN P. VIVAX PVDBP
THAT MAY MEDIATE ANTIBODY CROSS-REACTIVITY TO
SIMILAR EPITOPES IN VAR2CSA**

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PROFILING OF PHENOTYPIC CHARACTERISTICS OF IMMUNE CELLS FOLLOWING MALARIA TREATMENT BY MASS CYTOMETRY

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B CELL MEDIATED AUTOIMMUNE ANEMIA IN MALARIA PATIENTS

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PREDOMINANT LOSS OF LOW AVIDITY IGG ANTIMALARIAL ANTIBODIES ASSOCIATED WITH REDUCTION IN INFECTION AFTER INDOOR RESIDUAL SPRAYING IN NAGONGERA, UGANDA

Isaac Ssewanyana¹, John Rek¹, Isabel Rodriguez², Lindsey Wu³, Emmanuel Arinaitwe¹, Joaniter Nankabirwa¹, Harriet Mayanja-Kizza¹, Philip J. Rosenthal², Grant Dorsey², Moses Kamya¹, Chris Drakeley³, Bryan Greenhouse², Kevin Tetteh³

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EXTRACELLULAR VESICLES (EV) RELEASED FROM FILARIAL PARASITES ARE ENRICHED IN MTOR REGULATORY MICRORNAS

Sameha Tariq¹, Sasisekhar Bennuru¹, Abdel Elkahlon¹, Weiwei Wu¹, Sukhbir Kaur¹, Michael Kimber², Thomas B. Nutman¹, Roshanak Tolouei Semnani¹

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THE FIRST HUMAN MONOCLONAL ANTIBODY AGAINST THE SEXUAL STAGE PLASMODIUM FALCIPARUM ANTIGEN PFS230

Camila H. Coelho¹, Marty Burkhardt¹, Issaka Sagara², Ogobara K. Doumbo², Xiaohong Hou³, Miranda Byrne-Steele³, Wenjing Pan³, Brittany Brown³, Mollye Sanders³, Mary Eisenhower³, Jian Han³, Thiago Alves e Silva⁴, Justin Taylor⁴, Allison Schwartz⁴, Jacob D. Galson⁵, Johannes Trück⁵, David Narum¹, Sara Healy¹, Charles Anderson¹, Patrick E. Duffy¹

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HETEROLOGOUS ADENOVIRAL IMMUNIZATIONS PROVIDE STERILIZING PROTECTION AGAINST P. VIVAX IN A SURROGATE MURINE MODEL

Jessica N. McCaffery¹, Jairo A. Fonseca¹, Luis E. Muñoz¹, Elena Kashentseva², Balwan Singh³, Igor P. Dmitriev², David T. Curiel², Fidel P. Zavala⁴, Alberto Moreno¹

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TYPE I INTERFERONS SUPPRESSES ANTI-PARASITIC CD4+T CELL RESPONSES IN VISCERAL LEISHMANIASIS

Rajiv Kumar¹, Patrick Bunn², Fabian Rivera², Neetu Singh¹, Shyam Sundar¹, Christian Engwerda²

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Young Investigator Award Session E

Sheraton - Grand Couteau (5th Floor)

Sunday, October 28, 10 a.m. - 3 p.m.

JUDGE

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NEW INSIGHTS INTO ANOPHELES MATING BEHAVIOR: BOTH MALES AND FEMALES OF ANOPHELES COLUZZII AND ANOPHELES GAMBIAE USE VISUAL MARKERS TO SWARM ... BUT EACH IN ITS OWN WAY

Serge B. Poda¹, Abdoulaye Diabaté¹, Olivier Gnankiné², Roch K. Dabiré¹, Olivier Roux³

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TIMING IS EVERYTHING: Aedes Aegypti REPRODUCTIVE PHYSIOLOGY EXPLAINS BEHAVIOR

Ethan C. Degner¹, Jade M. Noble¹, Catalina Alfonso-Parra², Lena F. Kourkoutis¹, Frank W. Avila², Laura C. Harrington¹

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PHLEBOTOMUS PAPATASI SALIVARY GLAND GENE DIVERSITY IN DISTINCT ECOTOPES OF EGYPT AND JORDAN

Catherine M. Flanley¹, Marcelo Ramalho-Ortigao², Iliano V. Coutinho-Abreu³, Rami Mukbel⁴, Hanafi A. Hanafi⁴, Shabaan S. El-Hossary⁵, Emad El-Din Y. Fawaz⁵, David F. Hoel², Gwen Stayback¹, Douglas A. Shoue¹, Shaden Kamhawi³, David W. Severson¹, Akio Mori¹, Mary Ann McDowell¹

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THE FEEDING ECOLOGY OF Aedes albopictus ON LONG ISLAND, NEW YORK

Kara M. Fikrig, Laura C. Harrington
Cornell University, Ithaca, NY, United States

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QUANTIFICATION OF STAGE-SPECIFIC PLASMODIUM FALCIPARUM GAMETOCYTE RNA TRANSCRIPTS TO EVALUATE THE IMPACT OF HIV STATUS ON GAMETOCYTEMIA IN WESTERN KENYA

Deborah Stiffler¹, Janet Oyieko², Carolyn Kifude², David Rockabrand¹, Nathaniel Dizon¹, John Waitumbi², Shirley Luckhart³, V. Ann Stewart¹
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MOLECULAR XENOMONITORING AND ANTIGEN SURVEYS REVEAL STRONG SIGNALS FOR PERSISTENT WUCHERERIA BANCROFTI INFECTION IN NORTHERN HAITI AFTER 8 ROUNDS OF MASS DRUG ADMINISTRATION

Joseph R. Fauver¹, Bernard A. Okech², Anita D. Sircar³, Ramakrishna Rao¹, Madsen Beau de Rochars², Joshua Bogus¹, Abdel N. Direny⁴, Jean R. Ernest⁵, Carl R. Fayette⁶, Katuscia O'Brian¹, Daniel F. Sabin⁵, Gary J. Weil¹, Jean Frantz Frantz Lemoine⁶, Christine Dubray³
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VESICULAR SYSTEM OF ARTEMISININ RESISTANCE ENHANCES BOTH PARASITE SURVIVAL AND HOST CYTOADHERENCE

Niraja Suresh¹, Isabelle Coppens², Souvik Bhattacharjee³, Alassane Mbengue¹, Mehdi Ghorbal¹, Kasturi Haldar¹
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APPLICATION OF A NOVEL MULTIPLEX ASSAY TO ASSESS ANOPHELES MALARIA TRANSMISSION ECOLOGY IN THE CENTRAL HIGHLANDS OF MADAGASCAR

Riley E. Tedrow¹, Joclyn Ratovonjato², Arsene Ratsimbasa², Edward Walker³, Peter A. Zimmerman¹
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EFFECT OF LARVAL DIET, AGING, AND ZIKV INFECTION ON IMMUNE GENE REGULATION IN Aedes aegypti

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EFFECT OF REPEATED BED-NET DISTRIBUTIONS AND IMPROVED TREATMENT ON MALARIA INCIDENCE IN SEVEN SENTINEL SURVEILLANCE SITES IN PAPUA NEW GUINEA

Daniela Rodriguez Rodriguez¹, Yangta Ura², Anthony Tandarapah², Sharon Jamea-Maiasa², Peter Siba², Ivo Mueller³, Justin Pulford⁴, Manuel W. Hetzel¹
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EFFECT OF TEMPERATURE ON THE EXTRINSIC INCUBATION PERIOD OF ZIKA VIRUS IN Aedes aegypti

Olivia C. Winokur, Bradley J. Main, Jay Nicholson, Christopher M. Barker
University of California Davis, Davis, CA, United States

1772

REPEATED INDOOR RESIDUAL SPRAYING REDUCES P. FALCIPARUM EFFECTIVE POPULATION SIZE AND INCREASES INBREEDING IN A VERY HIGH TRANSMISSION AREA OF UGANDA

Sofonias K Tessema¹, John Rek², Anna Chen¹, Noam Teyssier¹, Yoon Lee¹, Emmanuel Arinaitwe², Joaniter I. Nankabirwa², Sarah G. Staedke³, Moses R. Kanya⁴, Grant Dorsey¹, Isabel Rodriguez-Barraquer¹, Bryan Greenhouse¹
¹Department of Medicine, San Francisco General Hospital, University of California, San Francisco, CA, United States, ²Infectious Diseases Research Collaboration, Kampala, Uganda, ³London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁴Department of Medicine, Makerere University College of Health Sciences, Kampala, Uganda

2050

A NOVEL METHOD FOR IDENTIFYING PREDOMINANTLY EXPRESSED VARS FROM WHOLE BLOOD CLINICAL SAMPLES

Emily Stucke¹, Antoine Dara¹, Ankit Dwivedi¹, Theresa Hodges¹, Drissa Coulibaly², Abdoulaye K. Koné², Karim Traoré², Bouréima Guindo², Bourama M. Tangara², Amadou Niangaly², Modibo Daou², Issa Diarra², Issa Diarra², Youssouf Tolo², Mody Sissoko², Matthew B. Laurens¹, Amed Ouattara¹, Bourema Kouriba², Ogobara K. Doumbo², Shannon Takala-Harrison¹, Mahamadou A. Thera², Mahamadou A. Thera², Mahamadou A. Thera², Christopher V. Plowe³, Mark A. Travassos¹, Joana C. Silva¹
¹University of Maryland School of Medicine, Baltimore, MD, United States, ²University of Sciences, Techniques and Technologies of Bamako, Bamako, Mali, ³Duke Global Health Institute, Duke University, Durham, NC, United States

ASTMH Communications Training Workshop

Sheraton - Grand Ballroom B (5th Floor)
Sunday, October 28, 10:30 a.m. - 2:30 p.m.

It is critical for researchers and clinicians to be able to clearly communicate about their work and explain the importance of tropical medicine/global health programs and advocate for research funding. To be effective advocates, to stand out from the crowd, you need important issues you need skills that help you to be persuasive and memorable. How can you prepare for an important presentation or manage challenging media interviews? How do you explain your research to people who might not know anything about your work, and get them invested in the outcome - with only minutes to make your case? This half-day course will teach you how to clearly and effectively communicate about your work. You will learn how to prepare and deliver messages, craft and tell persuasive stories, and stay in control of what you say in any meeting or interview. Time and again we see the power of these communications skills to change minds, build awareness and grab attention.

Sunday
October 28

This workshop is limited to those who pre-registered for the event; no onsite registration.

10:30 a.m.

OPENING AND INTRODUCTIONS

Karen A. Goraleski

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

ASTMH Executive Director Karen A. Goraleski will introduce the trainers and the agenda and goals for the day.

10:40 a.m.

BEING MEMORABLE AND THE IMPORTANCE OF MESSAGE

Participants will start with an exercise about being memorable and discuss the importance of message.

11:20 a.m.

CRAFTING POWERFUL AND PERSUASIVE MESSAGES

Participants will then learn how to craft messages to communicate with brevity, clarity and in a way that resonates with reporters and the general public.

11:35 a.m.

INTERACTIVE EXERCISE: DELIVERING AND REFINING YOUR MESSAGE

Participants will have a brief opportunity to refine their messages before testing them out with other participants.

12:05 p.m.

CONTROLLING THE INTERVIEW: BRIDGING

Participants will learn how to prepare for and stay in-control of the interview; specifically, how to “bridge” from difficult or off-topic questions back to their message.

12:30 p.m.

BOX LUNCH

1 p.m.

BREAKOUT GROUPS

Participants will break into smaller groups for mock interviews with feedback and critique from trainers, and other exercises.

2:25 p.m.

CLOSE AND FEEDBACK

American Committee on Arthropod-Borne Viruses (ACAV) SIE Subcommittee Meeting

Marriott - Preservation Hall Studio 2 (2nd Floor)

Sunday, October 28, 11 a.m. - Noon

Speaker Ready Room

Sheraton - Maurepas (3rd Floor)

Marriott - Mardi Gras ABC (3rd Floor)

Sunday, October 28, Noon - 6 p.m.

TropStop- Student/Trainee Lounge

Sheraton - Lagniappe (2nd Floor)

Sunday, October 28, Noon - 5 p.m.

Sponsored by Indiana University Ryan White Center for Pediatric Infectious Diseases & Global Health

This casual setting, designed with students, trainees and residents in mind (coffee, internet), is your place for a break from the fast-pace of the meeting and relax with colleagues and friends. Check out the “Career Chats,” held in the TropStop. This will be your opportunity to meet professionals in the fields of tropical medicine and global health, who will share their personal career paths and answer your questions about the various bumps and forks in the road.

Press Room

Marriott-Audobon (5th Floor)

Sunday, October 28, Noon - 5 p.m.

Get a Shot. Give a Shot.®

Marriott - Grand Ballroom Foyer (3rd Floor)

Sunday, October 28, 3 p.m. - 5 p.m.

Walgreens' Get a Shot. Give a Shot.® campaign has helped provide more than 20 million lifesaving vaccines to children in need around the world through the United Nations Foundation's Shot@Life campaign. Now, TropMed18 is giving attendees an opportunity to give back to the global health communities we serve. Receive your annual flu shot and provide lifesaving vaccines to families in developing countries. Immunizations are one of the world's biggest public health success stories, but not all communities have the same access to vaccines.

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) Mentor/Trainee Lunch Kick-Off Panel

Sheraton - Endymion/Mid-City (8th Floor)

Sunday, October 28, Noon - 1:30 p.m.

An introduction to the experts, their fields, and a quick discussion of suggested topics to get experts and trainees in the mentoring mindset for their one-on-two Mentor/Mentee lunch. By invitation only.

American Committee on Arthropod-Borne Viruses (ACAV) SIRACA Subcommittee Meeting

Marriott - Preservation Hall Studio 2 (2nd Floor)

Sunday, October 28, Noon - 2 p.m.

Elsevier Clinical Research Award

Sheraton - Orpheus (8th Floor)

Sunday, October 28, Noon - 3 p.m.

This award recognizes excellence in clinically-oriented research presented by students (within six months of completing, undergraduate or master's level training, including medical undergraduate degrees) or those in graduate medical training, of work submitted and presented (oral or poster) at the ASTMH Annual Meeting. Support these young scientists by attending their presentations during this session.

CHAIR

M. Patricia Joyce
Centers for Disease Control and Prevention, Atlanta, GA, United States

JUDGE

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

Carlos J. Chaccour
ISGlobal Barcelona Institute for Global Health, Barcelona, Spain

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

John W. Sanders
Wake Forest University School of Medicine, Winston-Salem, NC, United States

12:05 p.m.

492

WHO STAYS AND WHO GOES: PREDICTORS OF HOSPITAL ADMISSION AMONG PATIENTS PRESENTING WITH FEBRILE ILLNESS IN A RURAL UGANDAN HEALTH CENTER

Jonathan L. Chang¹, Raquel Reyes², Michael Matte³, Moses Ntaro³, Edgar Mulogo³, Matthew O. Wiens⁴, Steven R. Meshnick², Mark J. Siedner⁵, Ross M. Boyce²

¹Duke University School of Medicine, Durham, NC, United States, ²University of North Carolina, Chapel Hill, NC, United States, ³Mbarara University of Science & Technology, Mbarara, Uganda, ⁴The University of British Columbia, Vancouver, BC, Canada, ⁵Massachusetts General Hospital, Boston, MA, United States

12:20 p.m.

801

THE EBOLA DATA PLATFORM: A NOVEL COLLABORATION FOR TRAINING AND RESEARCH IN EMERGING INFECTIONS

Mahamoud S. Cherif, Elaine Craig, Samantha Strudwick, Alice Hawryszkiewycz, Laura Merson
Infectious Diseases Data Observatory, Oxford University, Oxford, United Kingdom

12:35 p.m.

1345

CYTOKINE PROFILE OF WEST NILE VIRUS CASES DEVELOPING CHRONIC KIDNEY DISEASE

Michael Hansen¹, Shannon E. Ronca¹, Melissa S. Nolan¹, Rodion Gorchakov¹, Rodrigo Hasbun², Kristy O. Murray¹
¹Baylor College of Medicine, Houston, TX, United States, ²University of Texas Health Science Center at Houston, Houston, TX, United States

12:50 p.m.

267

EX VIVO SUSCEPTIBILITY AND GENOTYPING OF PLASMODIUM FALCIPARUM ISOLATES FROM PIKINE, SENEGAL

Aminata Mbaye¹, Amy Gaye¹, Baba Dieye¹, Yaye Die Ndiaye¹, Amy K. Bei², Muna Affara³, Awa B. Deme¹, Mamadou S. Yade¹, Khadim Diongue¹, Ibrahim M. Ndiaye¹, Ngayo Sy¹, Ousmane Koita⁴, Donald J. Krogstad⁵, Sarah Volkman⁶, Davis Nwakanma³, Daouda Ndiaye²

¹Cheikh Anta Diop University, Dakar, Senegal, ²Cheikh Anta Diop University, Harvard University, Dakar, Senegal, ³Medical Research Council Unit the Gambia, Dakar, Senegal, ⁴University of Bamako, Dakar, Senegal, ⁵Tulane University, New Orleans, LA, USA, Dakar, Senegal, ⁶Department of Immunology and Infectious Diseases, Harvard School of Public Health, Dakar, Senegal

1:05 p.m.

BREAK

1:20 p.m.

514

RELATIONSHIP OF DEMOGRAPHIC VARIABLES AND CLASSIFICATION OF LEPROSY CASES IN GEORGIA SINCE THE EARLY 1900S

Carter McCormick¹, Jacqueline Lea², Barbara Stryjewska², Jessica Fairley¹
¹Emory University, Atlanta, GA, United States, ²National Hansen's Disease Programs, Baton Rouge, LA, United States

1:35 p.m.

1194

THE PREVALENCE, RISK FACTORS AND SEROTYPES DISTRIBUTION OF TRACHOMA IN LAIKIPIA, KENYA 2017

Stephen Mwatha
Neglected tropical medicine, Nairobi, Kenya

1:50 p.m.

1325

NUTRITION AND FASCIOLA HEPATICA INFECTION AMONG CHILDREN IN THE ANTA PROVINCE OF CUSCO, PERU

Camille Webb¹, Maria L. Morales², Martha Lopez², Miguel M. Cabada¹
¹University of Texas Medical Branch, Galveston, TX, United States, ²Universidad Peruana Cayetano Heredia-University of Texas Medical Branch Collaborative Research Center, Cusco, Peru

2:10 p.m.

670

SELECTION AND CHARACTERIZATION OF A NOVEL WHIPWORM VACCINE CANDIDATE THAT INDUCES TYPE 2 PROTECTIVE IMMUNITY

Neima Briggs¹, Leroy Versteeg², Maria Elena Bottazzi², Bin Zhan², Jeroen Pollet², Ashish Damania², Brian Keegan², Junfei Wei², Carol Gomez³, Kelly Hayes⁴, Richard Grecis⁴, Jagannadha Sastry¹, Peter Hotez²
¹University of Texas - Houston / M.D. Anderson, Houston, TX, United States, ²Baylor College of Medicine, Houston, TX, United States, ³Clinica de Santa Ana, Santa Ana, Honduras, ⁴University of Manchester, Manchester, United Kingdom

2:25 p.m.

504

MICRONUTRIENT LEVELS IN A PEDIATRIC UGANDAN COHORT WITH SICKLE CELL ANEMIA

Thomas F. Siegert¹, Sarah E. Cusick², Russell E. Ware³, Robert O. Opoka⁴, Chandy C. John⁵
¹University of Washington School of Medicine, Seattle, WA, United States, ²Department of Pediatrics, University of Minnesota, Minneapolis, MN, United States, ³Division of Hematology, Department of Pediatrics, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, United States, ⁴Department of Paediatrics and Child Health, Makerere University, Kampala, Uganda, ⁵Ryan White Center for Infectious Diseases and Global Health, Department of Pediatrics, Indiana University, Indianapolis, IN, United States

Public Library of Science - PLOS Writing Workshop

Sheraton - Rodrigue Gallery (1st Floor)
Sunday, October 28, Noon - 4:30 p.m.

PLOS Pathogens and *PLOS Neglected Tropical Diseases*, along with the *American Journal of Tropical Medicine and Hygiene* and *Vector-Borne and Zoonotic Diseases*, present a Writing Workshop intended to equip and support early career researchers and researchers from disease endemic regions in understanding the publication process and best practices for manuscript writing. Highlights of the sessions include: framing your research and choosing your journal, mapping out your paper, abstract writing, the mechanics of writing, and research and publication ethics.

Please note attendance is limited to those who pre-registered for the event.

American Committee on Arthropod-Borne Viruses (ACAV) SALS Subcommittee Meeting

Marriott - Preservation Hall Studio 2 (2nd Floor)
Sunday, October 28, 2 p.m. - 3:30 p.m.

Point of Entry: First-Time Attendee Orientation

Sheraton - Grand Ballroom A (5th Floor)
Sunday, October 28, 2:30 p.m. - 3:30 p.m.

Are you new to the ASTMH Annual Meeting and want to get the lay of the land? Don't miss our Point of Entry session. ASTMH Past President Stephen Higgs will orient new attendees to the schedule, session structure and highlights of the Annual Meeting. Meet others attending the conference for the first time and expand your professional network while learning the ins and outs of the meeting.

PRESENTER

Stephen Higgs
Biosecurity Research Institute, Kansas State University, Manhattan, KS, United States

Young Investigator Award Committee Meeting

Sheraton - Oak Alley (4th Floor)
Sunday, October 28, 3 p.m. - 4 p.m.

ASTMH Committee on Global Health (ACGH) Council Meeting

Marriott - Bonaparte (4th Floor)
Sunday, October 28, 3:30 p.m. - 5:30 p.m.

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) Council Meeting

Marriott - Preservation Hall Studio 1 (2nd Floor)
Sunday, October 28, 3:30 p.m. - 5:30 p.m.

Clinical Group Council Meeting (American Committee on Clinical Tropical Medicine and Travelers' Health- ACCTMTH)

Marriott - Galvez (5th Floor)
Sunday, October 28, 3:30 p.m. - 5:30 p.m.

American Committee of Medical Entomology (ACME) Council Meeting

Marriott - Iberville (4th Floor)
Sunday, October 28, 4 p.m. - 5:30 p.m.

American Committee on Arthropod-Borne Viruses (ACAV) Council Meeting

Marriott - Preservation Hall Studio 2 (2nd Floor)
Sunday, October 28, 4 p.m. - 5:30 p.m.

Student Reception

Sheraton - Waterbury (2nd Floor)
Sunday, October 28, 4 p.m. - 5 p.m.

The ASTMH Council invites students, postdoctoral fellows and residents to the student reception. This reception is an opportunity to meet fellow trainees, network with colleagues and mentors and engage in conversation with Society leaders.

Plenary Session 1

Plenary Session I: Keynote Address and Awards Program

Marriott - Grand Ballroom (3rd Floor)
Sunday, October 28, 5:30 p.m. - 7 p.m.

CHAIR

Regina Rabinovich
Harvard T.H. Chan School of Public Health, Boston, MA, United States
Daniel G. Bausch
UK Public Health Rapid Support Team, London, United Kingdom

5:30 p.m.

WELCOMING REMARKS

Daniel G. Bausch
UK Public Health Rapid Support Team, London, United Kingdom

5:45 p.m.

KEYNOTE ADDRESS:

REPOSITIONING THE ROLE OF WOMEN AS DRIVERS OF UNIVERSAL HEALTH COVERAGE IN AFRICA



Matshidiso R. Moeti, MBBS, MSc (CHDC), FLSHTM, DSc

*WHO Regional Director for Africa
Regional Office for Africa
Brazzaville, Congo*

Dr. Matshidiso Moeti is the first woman WHO Regional Director for Africa. She is leading health transformation in

the African Region through a transformation agenda that is building a responsive, effective and results-driven regional secretariat that is advancing efforts toward universal health coverage, accelerating progress toward global development goals, and tackling emerging threats. Strong partnerships will underpin every aspect of the Regional Office's work during her tenure. Dr. Moeti is a public health veteran, with more than 35 years of national and international experience. She joined the WHO Regional Office for Africa in 1999 and has held several senior positions in the organization, including Deputy Regional Director, Assistant Regional Director, Director of Noncommunicable Diseases, WHO Representative to Malawi, and Coordinator of the Inter-Country Support Team for Eastern and Southern Africa. At the height of the HIV/AIDS epidemic, Dr. Moeti led WHO's "3 by 5" Initiative in the African Region, an initiative that helped establish systems for the provision of antiretroviral therapy in countries and resulted in a significant increase in the number of HIV-positive individuals accessing antiretroviral drugs. Under her leadership as Regional Director, the Regional Committee for Africa in 2016 adopted the Framework for Implementing the Global Technical Strategy for Malaria 2016-2030 in the African Region. Prior to joining WHO, Dr. Moeti worked with UNAIDS as the Team Leader of the Africa and Middle East Desk in Geneva, with UNICEF as a Regional Advisor, and with Botswana's Ministry of Health in various capacities. Dr. Moeti qualified in medicine (MB, BS) and public health (MSc in Community Health for Developing Countries) at the Royal Free Hospital School of Medicine, University of London in 1978 and the London School of Hygiene & Tropical Medicine in 1987, respectively.

6:15 p.m.

AWARDS PROGRAM

Presiding Officer: Regina Rabinovich
Harvard T.H. Chan School of Public Health, Boston, MA, United States

- Recognition of ASTMH/BMGF Annual Meeting Travel Awards
- Recognition of Burroughs Wellcome Fund - ASTMH Postdoctoral Fellowship in Tropical Infectious Diseases
- Recognition of Young Investigator Awards
- Recognition of Elsevier Clinical Research Award

RECOGNITION OF FELLOWS OF ASTMH (FASTMH)

HONORARY INTERNATIONAL FELLOWS OF ASTMH

Nicholas Anstey
Menzius School of Health Research, Casuarina, Australia

Zulfiqar Bhutta
The Hospital for Sick Children, Toronto, ON, Canada

Pedro Fernando Da Costa Vasconcelos
Instituto Evandro Chagas, Ananindeua, Brazil

Rose McGready
Shoklo Malaria Research Unit, Mae Sot, Thailand

Feiko ter Kuile
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

ALAN J. MAGILL FELLOWSHIP

Abhilasha Karkey
Patan Hospital, Kathmandu, Nepal

HARRY HOOGSTRAAL MEDAL (ACME)

SCHERER/HARDY AWARD (ACAV)

RICHARD M. TAYLOR AWARD (ACAV)

WILLIAM TRAGER AWARD FOR BASIC PARASITOLOGY (ACMCIP)

COMMUNICATIONS AWARD

"Chasing a Killer"

Lena H. Sun and photos by Melina Mara
The Washington Post
 November 3, 2017

BAILEY K. ASHFORD MEDAL

Wendy Prudhomme O'Meara
Duke University, Durham, NC, United States

Tyler Sharp
Centers for Disease Control and Prevention, San Juan, PR, United States

JOSEPH AUGUSTIN LEPRINCE MEDAL

Miriam Laufer
University of Maryland, Baltimore, MD, United States

CLARA SOUTHMAYD LUDLOW MEDAL

Njeri Wamae
United States International University, Nairobi, Kenya

Opening Reception

Sheraton - Napoleon Ballroom (3rd Floor)

Sunday, October 28, 7 p.m. - 9:30 p.m.

Supported in part by Sanofi Pasteur

Exhibit Hall Open

Sheraton - Napoleon Ballroom (3rd Floor)

Sunday, October 28, 7 p.m. - 9:30 p.m.

Monday, October 29

Registration

Sheraton - Preservation Hall (2nd Floor)
Monday, October 29, 7 a.m. - 5 p.m.

Speaker Ready Room

Sheraton - Maurepas (3rd Floor)
Marriott - Mardi Gras ABC (3rd Floor)
Monday, October 29, 7 a.m. - 5 p.m.

TropStop- Student/Trainee Lounge

Sheraton - Lagniappe (2nd Floor)
Monday, October 29, 7 a.m. - 5 p.m.
Sponsored by Indiana University Ryan White Center for Pediatric Infectious Diseases & Global Health

This casual setting, designed with students, trainees and residents in mind (coffee, internet), is your place for a break from the fast-pace of the meeting and relax with colleagues and friends. Check out the "Career Chats," held in the TropStop. This will be your opportunity to meet professionals in the fields of tropical medicine and global health, who will share their personal career paths and answer your questions about the various bumps and forks in the road.

Meeting Sign-Up Room

Sheraton - Mid-City and Muses (8th Floor)
Monday, October 29, 7 a.m. - 10 p.m.

ASTMH Diploma Course Directors Meeting

Sheraton - Orpheus (8th Floor)
Monday, October 29, 7 a.m. - 8 a.m.

ASTMH Travel Awards Meeting

Sheraton - Armstrong Ballroom (8th Floor)
Monday, October 29, 7 a.m. - 8 a.m.

Clinical Standards and Treatment Guidelines Committee Meeting

Sheraton - Zulu (8th Floor)
Monday, October 29, 7 a.m. - 8 a.m.

Clinical Tropical and Travel Medicine Education Program Committee Meeting

Sheraton - Proteus (8th Floor)
Monday, October 29, 7 a.m. - 8 a.m.

Press Room

Marriott - Audobon (5th Floor)
Monday, October 29, 7:45 a.m. - 5 p.m.

Scientific Session 2

Filariasis: Epidemiology and Control I

Sheraton - Waterbury (2nd Floor)
Monday, October 29, 8 a.m. - 9:45 a.m.

CHAIR

Christine Dubray
Centers for Disease Control and Prevention, Atlanta, GA, United States
Colleen Lau
Australian National University, Brisbane, Queensland, Australia

8 a.m.

1

SAFETY AND EFFICACY OF CO-ADMINISTERED DIETHYLCARBAMZINE, ALBENDAZOLE AND IVERMECTIN DURING MASS DRUG ADMINISTRATION FOR LYMPHATIC FILARIASIS IN HAITI

Christine Dubray¹, Anita D. Sircar¹, Madsen Beau de Rochars², Joshua Bogus³, Abdel N. Direny⁴, Jean R. Ernest⁵, Carl R. Fayette⁵, Katuscia O'Brian⁶, Guy E. Pavilus⁵, Daniel F. Sabin⁵, Ryan E. Wiegand¹, Gary J. Weil⁷, Jean F. Lemoine⁸
¹*Centers for Disease Control and Prevention, Atlanta, GA, United States,* ²*University of Florida, Gainesville, FL, United States,* ³*Washington University in St. Louis, St. Louis, MO, United States,* ⁴*RTI International, Washington, DC, United States,* ⁵*IMA World Health, Port-au-Prince, Haiti,* ⁶*Washington University in St. Louis, St. Louis, MO, United States,* ⁷*Washington University in St. Louis, St. Louis, MO, United States,* ⁸*Ministry of Public Health and Population, Port-au-Prince, Haiti*

8:15 a.m.

2

THE FIRST COHORT STUDY TO INVESTIGATE THE ASSOCIATION BETWEEN ONCHOCERCIASIS AND EPILEPSY PROVIDES STRONG EVIDENCE FOR A CAUSAL RELATIONSHIP

Cédric B. Chesnais¹, Hugues C. Nana-Djeunga², Alfred K. Njamnshi³, Anne-Cécile Zoung-Kanyi Bissek⁴, Joseph Kamgno⁵, Robert Colebunders⁶, Michel Boussinesq¹
¹*UMI 233 IRD – U1175 INSERM - Université de Montpellier, Montpellier, France,* ²*Centre for Research on Filariasis and other Tropical Diseases, Yaoundé, Cameroon,* ³*Neurology Department, Central Hospital/Faculty of Medicine and Biomedical Sciences, The University of Yaoundé I, FMBS-UYI, Yaoundé, Cameroon;* *Brain Research Africa Initiative, BRAIN, Yaoundé, Cameroon,* ⁴*Dermatology Department, Chantal Biya Mother-Child Center/Ministry of Public Health/FMBS-UYI, Yaoundé, Cameroon,* ⁵*Centre for Research on Filariasis and other Tropical Diseases; Public Health Department, Faculty of Medicine and Biomedical Sciences, University of Yaoundé I, Yaoundé, Cameroon,* ⁶*Global Health Institute, University of Antwerp, Antwerp, Belgium*

8:30 a.m.

3

THE BURDEN OF SKIN DISEASE AND EYE DISEASE DUE TO ONCHOCERCIASIS IN AFRICA FOR 2015 AND 2025

Natalie V. Vinkes Melchers¹, Wilma A. Stolk¹, Jan H. Remme², Michele E. Murdoch³, Belén Pedrique⁴, Roel Bakker¹, Sake J. de Vlas¹, Luc E. Coffeng¹
¹*Erasmus MC, University Medical Center Rotterdam, Rotterdam, Netherlands,* ²*120 rue des Campanules, Ornex, France,* ³*Department of Dermatology, Watford General Hospital, Watford, Hertfordshire, United Kingdom,* ⁴*Drugs for Neglected Diseases initiative (DNDi), Geneva, Switzerland*

8:45 a.m.

4

LYMPHATIC FILARIASIS ELIMINATION IN AMERICAN SAMOA - HOUSEHOLD CLUSTERING OF SEROPOSITIVE PERSONS AND IMPLICATIONS FOR SURVEILLANCE STRATEGIES

Colleen L. Lau¹, Meru Sheel¹, Sarah Sheridan¹, Katherine Gass², Kimberly Y. Won³, Saipale Fuimaono⁴, Patricia M. Graves⁵

¹Research School of Population Health, The Australian National University, Canberra, Australia, ²Neglected Tropical Diseases Support Center, The Task Force for Global Health, Decatur, GA, United States, ³Centers for Disease Control and Prevention, Division of Parasitic Diseases and Malaria, Atlanta, GA, United States, ⁴American Samoa Department of Health, Pago Pago, American Samoa, ⁵College of Public Health, Medical and Veterinary Sciences, James Cook University, Cairns, Australia

9 a.m.

5

RIVER BLINDNESS IN TOGO: PERFORMANCE OF THE OV-16 RAPID DIAGNOSTIC TEST AND THE ELISA IN PREVIOUSLY HYPERENDEMIC FOCI

Eugene W. Liu¹, Paul Cantey¹, Koffi Padjoudoum², Telou Gado², Joseph Rubagumya¹, Rachel Bronzan³, Michel G. Datagni⁴, Nicholas Ayebazibwe⁵, Danaya Betha¹, Guilhaume Ogawa¹, Vitaliano Cama¹

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Togo Onchocerciasis Control Program (PNLO), Kara, Togo, ³Health and Development International, Newburyport, MA, United States, ⁴Health and Development International, Lome, Togo, ⁵African Field Epidemiology Network, Kampala, Uganda

9:15 a.m.

6

DETECTION OF LYMPHATIC FILARIASIS ELIMINATION THRESHOLDS IN PAPUA NEW GUINEA

Daniel J. Tisch¹, Brooke Mancuso¹, Estee Cramer¹, Nellie Sunuku², Samson Satofan², Philip Lus², Kazura W. James¹, Christopher L. King¹, Peter A. Zimmerman¹

¹Case Western Reserve University, Cleveland, OH, United States, ²PNG Institute for Medical Research, Maprik, Papua New Guinea

9:30 a.m.

7

TIME FOR DIAGNOSTIC TOOLS THAT ACCURATELY DETECT ONCHOCERCA VOLVULUS IN ONCHOCERCIASIS ELIMINATION PROGRAMS IS NOW

Moses Katabarwa¹, Peace Habomugisha², Annet Khainza², Edson Byamukama², David Oguttu², Christine Nahabwe², Monica Ngabirano², Paul Akampurira², Christopher Katongole², Edridah Tukahebwa², Lauri Hudson-Davis³, Thomas Unnasch⁴, Frank Richards¹

¹The Carter Center, Atlanta, GA, United States, ²The Carter Center, Kampala, Uganda, ³The Carter Center, Atlanta, Uganda, ⁴Department of Global Health, College of Public Health, University of South Florida, Tampa, FL, United States

(ACMCIP Abstract)

Symposium 3

American Committee on Arthropod-Borne Viruses (ACAV) Symposium I: Annual Business Meeting, Awards and Research Presentations by Previous Awardees

Sheraton - Grand Ballroom A/B (5th Floor)

Monday, October 29, 8 a.m. - 9:45 a.m.

The American Committee on Arthropod-Borne Viruses (ACAV) provides a forum for exchange of information among people interested in arbovirus research. This

session will include the ACAV business meeting, award presentations and research presentations by ACAV award recipients. These presenters will describe their research on arbovirology and emerging diseases. The session will end with an informal reception designed to encourage new members of our community to interact with fellow arbovirologists and become involved in the ACAV subgroup.

CHAIR

A. Desiree LaBeaud
Stanford University, Stanford, CA, United States

Lark Coffey
University of California Davis, Davis, CA, United States

8 a.m.

ACAV ANNUAL BUSINESS MEETING AND AWARDS PRESENTATION

A. Desiree LaBeaud
Stanford University, Stanford, CA, United States

8:30 a.m.

OUTBREAK REPORTS

Moderator: A. Desiree LaBeaud
Stanford University, Stanford, CA, United States

8:45 a.m.

THE EFFECT OF LAND USE ON THE TRANSMISSION OF ARBOVIRUSES

Adrian Diaz
Instituto de Virología "Dr. J.M. Vanella", Córdoba, Argentina

8:55 a.m.

MINIATURIZED AUTOMATED WHOLE BLOOD CELLULAR ANALYSIS SYSTEM TO ASSESS IMMUNITY TO ARBOVIRUSES IN MSAMBWENI, KENYA

Amy R. Krystosik
Stanford University, Stanford, CA, United States

9:05 a.m.

ACAV STUDENT TRAVEL AWARD RECIPIENT LIGHTNING TALKS

9:30 a.m.

NETWORKING AND SOCIAL TIME, NOLA STYLE!

Symposium 4

Clinical Group Symposium I (American Committee on Clinical Tropical Medicine and Travelers' Health – ACCTMTH): The Vincenzo Marcolongo Lecture and Panel Discussion

Sheraton - Grand Ballroom C (5th Floor)

Monday, October 29, 8 a.m. – 9:45 a.m.

Supported with funding from the International Association for Medical Assistance to Travellers (IAMAT)

The Marcolongo Lecture recognizes contemporary issues in the health of travelers as well as those they encounter in their search for the human. As Dr. Vicenzo Marcolongo, the lecture's namesake, said, "Distinguished physicians and respected medical institutions, with a sense of solidarity which makes them like one family,

Monday
October 29

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'." This year, Professor David Christiani of Harvard University will discuss the evolving understanding of environmental hazards contribution to health risk in the tropics. He will be joined by a discussant panel addressing water and airborne hazards, as well as inter-plays with infectious diseases.

CHAIR

David Brett-Major
Uniformed Services University, Bethesda, MD, United States



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. 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, to coordinate medical services for travelers and to prepare them for their journey. Dr. Marcolongo understood that travelers need comprehensive advice about the health risks and tropical diseases they encounter on trips to increasingly remote and distant destinations. Of particular interest to him was malaria and preventing the unnecessary morbidity and mortality it causes among travelers. Through IAMAT and numerous publications, 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.

8 a.m.

**VINCENZO MARCOLONGO MEMORIAL LECTURE:
 ENVIRONMENTAL DISEASE IN TROPICAL REGIONS**



David C. Christiani, MD, MPH, MS

Elkan Blout Professor of Environmental Genetics, Harvard T. H. Chan School of Public Health

Professor of Medicine, Harvard Medical School

Physician, Pulmonary and Critical Care Division, Department of Medicine, Massachusetts General Hospital

David Christiani is a Professor of Medicine at Harvard Medical School; Physician, Pulmonary and Critical Care Unit of Massachusetts General Hospital; and the Elkan Blout Professor of Environmental Genetics at the Harvard School of Public Health. He earned his MD in 1976 from Tufts University, and an MS and MPH from the Harvard School of Public Health. He did his post-graduate medical training at Boston City Hospital and the Massachusetts General Hospital in Boston. His major research interest lies in the interaction between human genes and the environment. Using the tools of molecular epidemiology, he studies the impact of humans' exposure to pollutants on health, as well as how genetic and acquired susceptibility to these diseases (along with environmental exposures) can lead to acute and chronic pulmonary and cardiovascular disease, and cancer. He has been active for over 35 years in conducting epidemiologic studies in international settings. In East and Southwest Asia, Dr. Christiani and his network of collaborators are studying the health effects of exposure to vegetable dust and respiratory disease in China; lung cancer genetics and prognosis in China; and arsenic exposure and respiratory disease in Bangladesh, among other sites and studies. At Massachusetts General Hospital, Dr. Christiani leads the Molecular Epidemiology Research Group that conducts research on environmental conditions of the lung, including acute lung injury, lung cancer and respiratory responses to environmental toxicants. He has authored or co-authored over 700 peer-reviewed publications and has served on the editorial board of several journals. In 2012, he was appointed by President Barack Obama to the National Cancer Advisory Board.

8:40 a.m.

PANELIST REMARKS

Mohammed Omar Sharif Ibne Hasan
Dhaka Community Medical College & Hospital, Dhaka, Bangladesh

8:55 a.m.

PANELIST REMARKS

Crystal North
Massachusetts General Hospital, Boston, MA, United States

9:20 a.m.

ACCTMTH ANNUAL BUSINESS MEETING

David Brett-Major
Uniformed Services University, Bethesda, MD, United States

9:45 a.m.
NETWORKING AND SOCIAL TIME

Scientific Session 5

Bacteriology: Cholera

Sheraton - Grand Ballroom D/E (5th Floor)
Monday, October 29, 8 a.m. - 9:45 a.m.

CHAIR

Louise Ivers
Massachusetts General Hospital, Boston, MA, United States

Elizabeth Lee
Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States

8 a.m. **8**

SPECIFIC GUT MICROBIAL PROFILES ARE ASSOCIATED WITH ROBUST IMMUNE RESPONSES TO KILLED, WHOLE-CELL CHOLERA VACCINE

Ana A. Weil¹, Taufiq R. Bhuiyan², Meti D. Debela¹, Fahima Chowdhury², Ashraf Khan², Edward T. Ryan¹, Regina C. LaRocque¹, Jason B. Harris¹, Firdausi Qadri²
¹Massachusetts General Hospital, Boston, MA, United States, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

8:15 a.m. **9**

LONG-TERM EFFECTIVENESS OF KILLED BIVALENT WHOLE CELL ORAL CHOLERA VACCINE IN HAITI - FOUR YEAR DATA

Molly Franke¹, Ralph Ternier², J Gregory Jerome², Wilfredo Matias³, Jason B. Harris⁴, Louise C. Ivers⁴
¹Harvard Medical School, Boston, MA, United States, ²Zanmi Lasante, Port-au-Prince, Haiti, ³Brigham and Women's Hospital, Boston, MA, United States, ⁴Massachusetts General Hospital, Boston, MA, United States

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

PROJECTING THE HEALTH IMPACT AND COST-EFFECTIVENESS OF ORAL CHOLERA VACCINE INTRODUCTION IN AFRICA

Elizabeth C. Lee¹, Andrew S. Azman¹, Joshua Kaminsky¹, Sean M. Moore², Heather McKay¹, Justin Lessler¹
¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²University of Notre Dame, Notre Dame, IN, United States

8:45 a.m. **11**

IMPACT OF CD4 T CELL RESPONSES ON CLINICAL OUTCOME IN A HUMAN CHALLENGE MODEL OF VIBRIO CHOLERAEE

Monica A. McArthur, Mark E. Rudolph, Wilbur H. Chen, Marcelo B. Szein
University of Maryland-Baltimore, Baltimore, MD, United States

9 a.m. **12**

HUMANS RECOVERING FROM CHOLERA IN BANGLADESH DEVELOP ANTIBODIES AGAINST THE O-SPECIFIC POLYSACCHARIDE (OSP) OF VIBRIO CHOLERAEE O1 THAT INHIBIT V. CHOLERAEE MOTILITY: A POSSIBLE MECHANISM OF PROTECTION AGAINST CHOLERA

RC Charles¹, M. Kelly¹, JM Tam¹, A. Akter², M. Hossain², K. Islam², F. Chowdhury², Ai Khan², DT Leung³, A. Weil¹, RC LaRocque¹, Tr Bhuiyan², A. Rahman², LM Mayo-Smith¹, J. Vyas¹, M. Waldor⁴, P. Kovak⁵, P. Xu⁵, SB

Calderwood¹, RC Kauffman⁶, J. Wrammert⁶, F. Qadri², JB Harris¹, Edward T. Ryan¹
¹Massachusetts General Hospital - Harvard University, Boston, MA, United States, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ³University of Utah, Salt Lake City, UT, United States, ⁴Harvard Medical School, Boston, MA, United States, ⁵NIDDK, LBC, National Institutes of Health, Bethesda, MD, United States, ⁶Emory Vaccine Center, Emory University School of Medicine, Atlanta, GA, United States

9:15 a.m. **13**

EPIDEMIOLOGY OF CHOLERA IN ZANZIBAR: IMPLICATIONS FOR THE ZANZIBAR CHOLERA CONTROL AND ELIMINATION PLAN

Qifang Bi¹, Fadhil M. Abdalla², Salma Masauni², Rita Reyburn³, Marko Msambazi⁴, Carole Deglise⁵, Lorenz von Seidlein⁶, Jacqueline Deen⁷, Mohamed Saleh Jiddawi², David Olson⁸, Justin Lessler¹, Grace Saguti⁹, Iriya Nemes⁹, Jamala Adam Taib², Ghirmay Redae Andemichael¹⁰, Andrew S. Azman¹
¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Zanzibar Ministry of Health, Zanzibar, United Republic of Tanzania, ³Pneumococcal Research, Murdoch Children's Research Institute, Melbourne, Australia, ⁴UNICEF, Zanzibar, United Republic of Tanzania, ⁵Médecins Sans Frontières, Geneva, Switzerland, ⁶Mahidol-Oxford Tropical Medicine Research Unit, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand, ⁷Institute of Child Health and Human Development, National Institutes of Health, University of the Philippines, Manila, Philippines, ⁸World Health Organization, Geneva, Switzerland, ⁹World Health Organization, Dar es Salaam, United Republic of Tanzania, ¹⁰World Health Organization, Zanzibar, United Republic of Tanzania

9:30 a.m. **14**

BIOMARKERS OF ENVIRONMENTAL ENTEROPATHY ASSOCIATE WITH IMMUNOGENICITY OF THE BIVALENT ORAL CHOLERA VACCINE IN HAITIAN CHILDREN

Brie W. Falkard¹, Kerling Israel², Richelle Charles¹, Molly Franke³, Jason Harris¹, Louise Ivers¹
¹Massachusetts General Hospital, Boston, MA, United States, ²Zanmi Lasante, Hôpital St Nicholas, St Marc, Haiti, ³Harvard Medical School, Boston, MA, United States

Scientific Session 6

Schistosomiasis - Trematodes: Immunology, Pathology, Cellular, Molecular

Marriott - La Galerie 1/2 (2nd Floor)
Monday, October 29, 8 a.m. - 9:45 a.m.

CHAIR

Olumide Ajibola
Federal University Birnin Kebbi, Kebbi, Nigeria

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

8 a.m. **15**

ENDOTOXIN AT THE MATERNAL-FETAL INTERFACE IS ASSOCIATED WITH ELEVATED EXPRESSION OF TISSUE INHIBITOR OF METALLOPROTEINASES

Emily A. McDonald¹, Zorimel Vargas¹, Palmera I. Baltazar², Remigio Olveda², Luz P. Acosta², Veronica Tallo², Jonathan D. Kurtis³, Jennifer F. Friedman¹
¹Rhode Island Hospital, Providence, RI, United States, ²Research Institute of Tropical Medicine and Hygiene, Manila, Philippines, ³Brown University, Providence, RI, United States

8:15 a.m.

16

INTRODUCING S. MANSONI/ AMP-ACTIVATED PROTEIN KINASE (AMPK): DEVELOPMENTAL REGULATION, ACTIVITY, AND ROLE IN SCHISTOSOME ENERGY METABOLISM

Kassandra S. Hunter

Uniformed Services University, North Bethesda, MD, United States

(ACMCIP Abstract)

8:30 a.m.

17

TARGETING THE REDOX NETWORK FOR DRUG DISCOVERY FOR SCHISTOSOMIASIS

David L. Williams

Rush University Medical Center, Chicago, IL, United States

8:45 a.m.

18

USING A GLYCAN MICROARRAY TO IDENTIFY DOMINANT ANTI GLYCAN IGE RESPONSES IN GHANAIAN SCHOOL-CHILDREN LIVING IN A HELMINTH-ENDEMIC AREA

Abena S. Amoah¹, Elias K. Asuming-Brempong², Benedicta B. Obeng¹, Serge A. Versteeg³, Irene A. Larbi², Yvonne Aryeetey², Thomas A. Platts-Mills⁴, Adriano Mari⁵, Katarzyna Brzezicka⁶, Ben Gyan², Mohamed Mutocheluh⁷, Daniel A. Boakye², Niels-Christian Reichardt⁶, Ronald van Ree³, Cornelis H. Hokke¹, Angela van Diepen¹, Maria Yazdanbakhsh¹

¹Leiden University Medical Center, Leiden, Netherlands, ²Noguchi Memorial Institute for Medical Research, Accra, Ghana, ³Academic Medical Center, Amsterdam, Netherlands, ⁴University of Virginia, Charlottesville, VA, United States, ⁵Associated Centers for Molecular Allergology, Rome, Italy, ⁶CIC biomaGUNE, San Sebastián, Spain, ⁷Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

(ACMCIP Abstract)

9 a.m.

19

UROGENITAL SCHISTOSOMIASIS IS ASSOCIATED WITH WIDESPREAD IMPACTS ON THE ADOLESCENT INTESTINAL MICROBIOME

Olumide Ajibola¹, Aislinn D. Rowan², Clement O. Ogedengbe³, Mari B. Mshelia¹, Damien J. Cabral², Anthonius A. Eze³, Peter Belenky²

¹Federal University Birnin Kebbi, Kebbi, Nigeria, ²Brown University, Providence, RI, United States, ³University of Nigeria Enugu Campus, Enugu, Nigeria

(ACMCIP Abstract)

9:15 a.m.

20

BETA GLUCAN, IRI-1677, MODULATES TH2 INDUCED PATHOLOGY, INFLAMMATION AND FIBROSIS IN A MURINE MODEL OF SCHISTOSOMIASIS

Robert W. Thompson¹, Erik Karme¹, Richard L. Gieseck III¹, Myra Patchen², Steve Smith², Sandra Oland¹, Alessandra Ricciardi¹, Pedro Gazzinelli-Guimaraes¹, Kevin Hart¹, Thomas A. Wynn¹, Thomas B. Nutman¹

¹National Institutes of Health/National Institute of Allergy and Infectious Diseases/LPD, Bethesda, MD, United States, ²ImmunoResearch, Eagan, MN, United States

(ACMCIP Abstract)

9:30 a.m.

21

THE INTERLEUKIN-4 INDUCING PRINCIPLE FROM SCHISTOSOMA MANSONI EGGS (IPSE) EXACERBATES UTI-INDUCED PAIN AND SUPPRESSES ANTI-MICROBIAL PEPTIDE PRODUCTION

Evaristus C. Mbanefo¹, Luke Pennington², Kristina Lapira³, Theodore

Jardetzky², Franco Falcone⁴, Michael Hsieh¹

¹Biomedical Research Institute, Rockville, MD, United States, ²Department of Structural Biology, Stanford University School of Medicine, Stanford, CA, United States, ³University of California, San Diego, CA, United States, ⁴Division of Molecular Therapeutics and Formulation, School of Pharmacy, University of Nottingham, Nottingham, United Kingdom

(ACMCIP Abstract)

Scientific Session 7

Cestodes: Cysticercosis and Echinococcosis

Marriott - La Galerie 3 (2nd Floor)

Monday, October 29, 8 a.m. - 9:45 a.m.

CHAIR

Theodore E. Nash

National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

John Openshaw

Stanford University, Stanford, CA, United States

8 a.m.

22

Presentation by Burroughs Wellcome Fund-ASTMH Fellowship Recipient

EVIDENCE CONSISTENT WITH SCHOOL BASED TRANSMISSION OF TAENIA SOLIUM CYSTICERCOSIS IN PRIMARY SCHOOLS, SOUTHWEST CHINA

John Openshaw¹, Carole Chedid², Alexis Medina¹, Stephen A. Felt¹, Tiaoying Li³, Zhou Huan⁴, Scott Rozelle¹, Stephen P. Luby¹

¹Stanford University, Stanford, CA, United States, ²Ecole Normale Supérieure de Lyon, Lyon, France, ³Sichuan Centers for Disease Control and Prevention, Chengdu, China, ⁴West China School of Public Health, Chengdu, China

8:15 a.m.

23

INTRODUCING CYSTIAGENT: AN AGENT-BASED MODEL TO SIMULATE TAENIA SOLIUM TRANSMISSION IN PERU

Ian W. Pray¹, Wayne Wakeland², William Pan³, William E. Lambert¹, Robert H. Gilman⁴, Armando E. Gonzalez⁵, Cesar M. Gavidia⁵, Hector H. Garcia⁶, Seth E. O'Neal¹, for the Cysticercosis Working Group in Peru⁶

¹School of Public Health, Oregon Health and Science University and Portland State University, Portland, OR, United States, ²Systems Science Program, Portland State University, Portland, OR, United States, ³Global Health Institute, Duke University, Durham, NC, United States, ⁴Department of International Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ⁵School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru, ⁶Department of Microbiology, Universidad Peruana Cayetano Heredia, Lima, Peru

8:30 a.m.

24

EVALUATING POTENTIAL FOR AN UNADDRESSED URBAN RESERVOIR OF TAENIA SOLIUM TAENIASIS IN PERU

Lauralee J. Fernandez¹, Ricardo Gamboa², Percy Vilchez², Ian Pray³, Michelle Beam³, Brian Garvey³, Angela Spencer¹, Claudio Muro², Luz Maria Moyano², Hector H. Garcia², Seth E. O'Neal¹, for the Cysticercosis Working Group in Peru²

¹Oregon Health & Science University and Portland State University School of Public Health, Portland, OR, United States, ²Center for Global Health Tumbes, Universidad Peruana Cayetano Heredia, Tumbes, Peru, ³Oregon Health & Science University, Portland, OR, United States

8:45 a.m.

25

RELATIONSHIP BETWEEN PLASMA LEVELS OF ALBENDAZOLE SULFOXIDE AND ANTIPARASITIC EFFICACY IN THE TREATMENT OF NEUROCYSTICERCOSIS

Gianfranco Arroyo¹, Andres G. Lescano¹, Javier A. Bustos¹, Isidro Gonzales², Herbert Saavedra², Javier E. Pretell³, Armando E. Gonzalez⁴, Robert H. Gilman⁵, Hector H. Garcia¹

¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²Instituto Nacional de Ciencias Neurológicas, Lima, Peru, ³Hospital Alberto Sabogal, Callao, Peru, ⁴Universidad Nacional Mayor de San Marcos, Lima, Peru, ⁵Johns Hopkins University, Baltimore, MD, United States

9 a.m.

26

DESIGN AND VALIDATION OF A SENSITIVE LOOP-MEDIATED ISOTHERMAL AMPLIFICATION, LAMP ASSAY, TARGETED *T. SOLIUM COX 1* GENE TO IMPROVE THE DIAGNOSTIC OF NEUROCYSTICERCOSIS USING CEREBROSPINAL FLUID

Anjanirina Rahantamalala¹, Julien Razafimahefa², Oria Davidson¹, Prisca Ramandanirainy¹, Siddharta Mahanty³, Mahenina Rakotonrazaka¹, Rado Lalaina Rakotoarison¹, Nônô Randrianasolo¹, Francesca Bisio⁴, Frédérique Randrianirina⁵, Alain Djacoba Tehindrazanarivelo², Ronan Jambou⁶, Inès Vigan-Womas¹

¹Immunology of Infectious Diseases Unit, Institut Pasteur de Madagascar, Antananarivo, Madagascar, ²Neurology Department of Befelatanana Hospital, Antananarivo, Madagascar, ³Laboratory of Parasitic Diseases, National Institutes of Health, Bethesda, MD, United States, ⁴Centre Hospitalier de Référence Régionale Monja Jaona, Ambovombe Androy, Madagascar, ⁵Centre of Clinical Biology, Institut Pasteur de Madagascar, Antananarivo, Madagascar, ⁶Institut Pasteur de Cote d'Ivoire, Abidjan, Côte D'Ivoire

(ACMCIP Abstract)

9:15 a.m.

27

ALVEOLAR ECHINOCOCCOSIS IN GERMANY, 1992-2017: PREVALENCE, SURVEILLANCE AND SPATIAL AUTOCORRELATION

Julian Schmidberger, Beate Grüner, Wolfgang Kratzer, Tilmann Gräter
University Hospital Ulm, Ulm, Germany

9:30 a.m.

28

PERFORMANCE OF A POINT-OF-CARE RAPID DIAGNOSTIC TEST FOR THE SERODIAGNOSIS OF CYSTIC ECHINOCOCCOSIS IN AN ENDEMIC SETTING: A FIELD STUDY IN PERU

Tommaso Manciuilli¹, Raffaella Lissandrin¹, Raul Enriquez Laurente², Ambra Vola³, Francesca Tamarozzi⁴, Annalisa De Silvestri⁵, Carmine Tinelli⁵, Saul Santivanez², Enrico Brunetti¹, Mara Mariconti¹

¹Department of Clinical, Surgical, Diagnostic and Pediatric Sciences, Pavia, Italy, ²Instituto Peruano de Parasitología Clínica y Experimental, Lima, Peru, ³Unit of Infectious and Tropical Diseases, IRCCS San Matteo Hospital Foundation, Pavia, Italy, ⁴Center for Tropical diseases, Sacro Cuore-Don Calabria Hospital, Negrar, Italy, ⁵Unit of Clinical Epidemiology and Biometry, IRCCS San Matteo Hospital Foundation, Pavia, Italy

Scientific Session 8

Alternative Tools for Malaria Diagnosis

Marriott - La Galerie 4/5/6 (2nd Floor)

Monday, October 29, 8 a.m. - 9:45 a.m.

CHAIR

Susanta K. Ghosh

National Institute of Malaria Research, Bangalore, India

Sandra Incardona

FIND, Geneva, Switzerland

8 a.m.

29

PHOSPHOETHANOLAMINE-N-METHYLTRANSFERASE IS A POTENTIAL BIOMARKER FOR THE DIAGNOSIS OF *P. KNOWLESI*, *P. FALCIPARUM* AND *P. VIVAX* MALARIA

Robert G. Krause, Dean J. Goldring

University of KwaZulu-Natal Pietermaritzburg, Pietermaritzburg, South Africa

(ACMCIP Abstract)

8:15 a.m.

30

A NOVEL QUANTITATIVE SUSPENSION ARRAY TOOL FOR HIGH SENSITIVE QUANTIFICATION OF HRP2 AND PLDH IN BLOOD FROM *P. FALCIPARUM* AND *P. VIVAX*-INFECTED PATIENTS IN PERU AND NIGERIA

Sandra Incardona¹, Xavier Martiáñez Vendrell², Stefano Ongarello¹, Aurélien Macé¹, Freddy Alava³, Dionicia Gamboa³, Uche Igbasi⁴, Alfons Jimenez², Oladosu Oladipo⁴, Wellington Oyibo⁴, Katherine Torres³, Ifeoma Udenze⁴, Iveth J. Gonzalez¹, Cassandra Kelly¹, Bill Rodriguez¹, Alfredo Mayor²

¹FIND, Geneva, Switzerland, ²Barcelona Institute for Global Health (ISGlobal), Barcelona Centre for International Health Research (CRESIB), Hospital Clinic - Universitat de Barcelona, Barcelona, Spain, ³Laboratorios de Investigación y Desarrollo, Facultad de Ciencias y Filosofía, Universidad Peruana Cayetano Heredia, Lima, Peru, ⁴ANDI Centre of Excellence for Malaria Diagnosis, College of Medicine, University of Lagos, Lagos, Nigeria

8:30 a.m.

31

SCREENING FOR *PFHRP2/3*-DELETED *PLASMODIUM FALCIPARUM*, NON-*FALCIPARUM*, AND LOW-DENSITY MALARIA INFECTIONS USING A MULTIPLEX ANTIGEN ASSAY

Eric Rogier¹, Camelia Herman¹, Sophie Allen¹, Rafael Dimbu², Filomeno Fortes², Dragan Ljolje¹, Naomi Lucchi¹, Sean C. Murphy³, Nahum T. Smith³, Kurtis R. Cruz³, Annette M. Seillie³, Eric S. Halsey¹, Mateusz M. Plucinski¹, Venkatachalam Udhayakumar¹, Michael Aidoo¹

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²National Malaria Control Program, Ministry of Health, Luanda, Angola, ³Department of Laboratory Medicine, University of Washington, Seattle, WA, United States

8:45 a.m.

32

CAN MEDICAL-DETECTION DOGS IDENTIFY PEOPLE WITH MALARIA PARASITES?

Steve W. Lindsay¹, Margaret Pinder¹, Chelci Squires², Mark Doggett³, Benjamin J. Kasstan¹, Kate Hampshire¹, Balla Kandeh⁴, Sarah Dewhurst², James G. Logan⁵, Umberto D'Alessandro⁶, Claire Guest³

¹Durham University, Durham City, United Kingdom, ²ARCTEC, London School of Hygiene & Tropical Medicine, United Kingdom, ³Medical Detection Dogs, Milton Keynes, United Kingdom, ⁴National Malaria Control Programme, Banjul, Gambia, ⁵Department of Disease Control, London School of Hygiene & Tropical Medicine, United Kingdom, ⁶MRC Unit The Gambia at London School of Hygiene & Tropical Medicine, Fajara, Gambia

9 a.m.

33

CELL FREE DNA AS A MARKER OF CEREBRAL MALARIA

Iset M. Vera¹, Anne Kessler², McKenzie Moss³, Li-Min Ting¹, Visopo Harawa⁴, Wilson Mandala⁵, Stephen Rogerson⁶, Karl Seydel⁷, Kami Kim¹

¹University of South Florida, Tampa, FL, United States, ²Albert Einstein College of Medicine, Bronx, NY, United States, ³Xavier University, New Orleans, LA, United States, ⁴Malawi Liverpool Wellcome Trust, Blantyre, Malawi, ⁵Malawi University of Science and Technology, Thylo, Malawi, ⁶University of Melbourne, Melbourne, Australia, ⁷Michigan State University, Lansing, MI, United States

9:15 a.m.

34

AI SCOPE - OPEN SOURCE AUTOMATED MICROSCOPY USING MACHINE LEARNING FOR MALARIA DIAGNOSIS

Eduardo Peire Paredes¹, Laura Moro¹, Ramón Perez Tanoira², Jakub Cieslik³, Wiebe Wagemans¹, Raminderpal Singh⁴, Ernesto Salazar Sanchez⁵, Maria J. Pons⁶, Antonio M. Quispe⁷

¹Ai Scope, Barcelona, Spain, ²Servicio de Enfermedades Infecciosas, IIS-Fundacion Jiménez Díaz, Madrid, Spain, ³Wroclaw University of Science and Technology, Wroclaw, Poland, ⁴Department of Electrical Engineering, Newcastle University, Newcastle, United Kingdom, ⁵Facultad de medicina de la Universidad Nacional de la Amazonia Peruana, Loreto, Peru, ⁶Universidad Científica del Sur, Lima, Peru, ⁷Johns Hopkins Bloomberg School of Public Health, Lima, Peru

9:30 a.m.

35

ASSESSMENT OF ULTRASENSITIVE DIAGNOSTICS FOR ASYMPTOMATIC MALARIA IN A HIGH TRANSMISSION AREA OF ETHIOPIA

Seble G. Demissie¹, Sindew Mekasha Feleke², Adugna Abera², Abu Naser Mohon³, Lemu Golassa¹, Dylan R. Pillaj³

¹Addis Ababa University, Addis Ababa, Ethiopia, ²Ethiopian Public Health Institute, Addis Ababa, Ethiopia, ³University of Calgary, Calgary, AB, Canada

Scientific Session 9

Mosquitoes: Insecticide Resistance and Control I

Marriott - Mardi Gras D (3rd Floor)

Monday, October 29, 8 a.m. - 9:45 a.m.

CHAIR

Geraldine Foster

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Alistair Miles

University of Oxford, Oxford, United Kingdom

8 a.m.

36

META-ANALYSIS OF ANOPHELES GAMBIAE POPULATIONS FROM ACROSS AFRICA IDENTIFIES POTENT NEW PYRETHROID RESISTANT MECHANISMS

Victoria A. Ingham, Simon Wagstaff, Hilary Ranson

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

8:15 a.m.

37

SEXUAL SELECTION AS A POSSIBLE DRIVER OF CUTICULAR INSECTICIDE RESISTANCE IN ANOPHELES GAMBIAE POPULATIONS FROM WEST AFRICA

Kelsey L. Adams¹, William R. Shaw¹, Abdoulaye Niang², Simon Sawadogo², Jennifer Wang³, Adam South¹, Maurice Itoe¹, Kristine Werling¹, Hilary Ranson⁴, Abdoulaye Diabaté², Flaminia Catteruccia¹

¹Harvard University, Boston, MA, United States, ²Institut de Recherche en Sciences de la Santé, Bobodioulasso, Burkina Faso, ³Harvard University, Cambridge, MA, United States, ⁴Liverpool School of Tropical Medicine, Liverpool, United Kingdom

8:30 a.m.

38

THE MALARIAGEN VECTOR OBSERVATORY: A NETWORK FOR THE GENOMIC SURVEILLANCE OF MALARIA VECTORS IN AFRICA AND SOUTHEAST ASIA

Alistair Miles¹, Dominic Kwiatkowski², Mara Lawniczak², Martin Donnelly³, Bernard Abong'o⁴, Jean Akiana⁵, El Hadji Amadou Niang⁶, Lucas Amenga-Etego⁷, Cristina Ariani², Victor Asoala⁷, Diego Ayala⁸, Nora Besansky⁹, Philip Bejon¹⁰, Austin Burt¹¹, Beniamino Caputo¹², Edi Constant¹³, Mamadou Coulibaly¹⁴, Samuel Dadzie¹⁵, Adama Dao¹⁴, Alessandra Della Torre¹², Dzedzom de Souza¹⁵, Abdoulaye Diabaté¹⁶, Luc Djogbenou¹⁷, Alexander Egyir Yawson¹⁸, John Essandoh³, Ousmane Faye¹⁹, Michael Fontaine²⁰, Maite Guardiola²¹, Jeremy Herren²², Jeffrey Hii²³, Helen Irving³, Bilali Kabula²⁴, Jonathan Kayondo²⁵, Brigid Kemei²⁶, Lassana Konaté⁶, Tovi Lehmann²⁷, Neil Longo Pendy²⁸, Eric Lucas³, Janet Midega¹⁰, Sandrine Nsango²⁹, Eric Ochomo³⁰, Fredros Okumu³¹, Samantha O'Loughlin¹¹, Krijn Paaijmans³², Christophe Paupy⁸, Badara Samb⁸, Claire Sangba-Kembi³³, Brandy St Laurent³⁴, Charles Wondji³, Alpha Yaro³⁵

¹University of Oxford, Oxford, United Kingdom, ²Wellcome Sanger Institute, Hinxton, United Kingdom, ³Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ⁴Maseno University, Maseno, Kenya, ⁵National Public Health Laboratory of Brazzaville, Brazzaville, Republic of the Congo, ⁶Cheikh Anta Diop University, Dakar, Senegal, ⁷Navrongo Health Research Center, Navrongo, Ghana, ⁸Institute of Research for Development, Montpellier, France, ⁹University of Notre Dame, South Bend, IN, United States, ¹⁰KEMRI Wellcome Trust Research Programme, Kilifi, Kenya, ¹¹Imperial College, London, United Kingdom, ¹²University La Sapienza, Rome, Italy, ¹³CSRS, Abidjan, Côte D'Ivoire, ¹⁴University of Bamako, Bamako, Mali, ¹⁵Noguchi Memorial Institute for Medical Research, Accra, Ghana, ¹⁶Institut de Recherche en Science de la Santé, Bobo-Dioulasso, Burkina Faso, ¹⁷University of Abomey-Calavi, Cotonou, Benin, ¹⁸University of Cape Coast, Cape Coast, Ghana, ¹⁹Institute Pasteur in Dakar, Dakar, Senegal, ²⁰University of Groningen, Groningen, Netherlands, ²¹Medecins Sans Frontieres, Nairobi, Kenya, ²²International Centre of Insect Physiology and Ecology, Nairobi, Kenya, ²³Malaria Consortium, London, United Kingdom, ²⁴National Institute for Medical Research, Dar es Salaam, United Republic of Tanzania, ²⁵Uganda Virus Research Institute, Entebbe, Uganda, ²⁶KEMRI, Kisumu, Kenya, ²⁷National Institute of Allergy and Infectious Diseases, Rockville, MD, United States, ²⁸CIRMF, Franceville, Gabon, ²⁹Laboratoire de Recherche sur le Paludisme, Yaounde, Cameroon, ³⁰KEMRI, Nairobi, Kenya, ³¹Ifakara Health Institute, Ifakara, United Republic of Tanzania, ³²Barcelona Institute for Global Health, Barcelona, Spain, ³³Institute Pasteur de Bangui, Bangui, Central African Republic, ³⁴National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, ³⁵NIAID, Bamako, Mali

8:45 a.m.

39

NOVEL SCREENING ASSAYS TO ACCELERATE THE PATH TO DELIVERY OF NEXT GENERATION VECTOR CONTROL TOOLS

Geraldine M. Foster¹, Amy Guy¹, Jay Hutchison¹, Annabel Murphy¹, Mischa Emery¹, Giorgio Pralins¹, Vitaly Voloshin², Christian Kröner², Agnes Matope¹, Jim Maas¹, David Towers², Hilary Ranson¹, Philip J. McCall¹

¹Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²University of Warwick, Coventry, United Kingdom

9 a.m.

40

COPY NUMBER VARIATION AND INSECTICIDE RESISTANCE IN ANOPHELES GAMBIAE

Eric R. Lucas¹, Emily J. Rippon¹, Alistair Miles², Nicholas J. Harding², Mara K. Lawniczak³, Dominic P. Kwiatkowski³, David Weetman¹, Martin J. Donnelly¹, Ag1000G Consortium³

¹Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²Big Data Institute, Oxford, United Kingdom, ³Wellcome Trust Sanger Institute, Hinxton, United Kingdom

9:15 a.m.

41

MUSCARINIC ACETYLCHOLINE RECEPTORS AS A TARGET FOR RESISTANCE-BREAKING INSECTICIDE DEVELOPMENT

Aaron D. Gross¹, Paul R. Carlier¹, Jeffrey R. Bloomquist²
¹Virginia Polytechnic Institute and State University, Blacksburg, VA, United States, ²University of Florida, Gainesville, FL, United States

9:30 a.m.

42

NOVEL MICROBIAL CANDIDATE MARKERS OF PYRETHROID RESISTANCE IN *ANOPHELES ALBIMANUS*, A MAJOR LATIN AMERICAN MALARIA VECTOR

Nsa Dada¹, Juan C. Lol², Ana C. Benedict², Francisco López², Mili Sheth¹, Norma Padilla², Audrey Lenhart¹
¹United States Centers for Diseases Control and Prevention, Atlanta, GA, United States, ²Centro de Estudios en Salud, Universidad del Valle de Guatemala, Guatemala City, Guatemala

Symposium 10

Building a Combination Platform for New Antimalarial Combination Therapies

Marriott - Mardi Gras EFGH (3rd Floor)

Monday, October 29, 8 a.m. - 9:45 a.m.

Thanks to the increased efforts of academia and industry, phenotypic screening of compound libraries and the identification of novel molecular targets there are now more antimalarial drug candidates in early clinical development than ever before. New antimalarial treatments have to be combinations of at least two different compounds to ensure complete cure and delay development of resistance. It is important to identify the best combinations of all these compounds and to evaluate a wide choice evaluated before making a final selection. In order to select optimal combinations, this process should include all molecules that are in development between different organizations and companies. This symposium will present an experimental and analytical framework that allows early identification of promising combinations and testing these in preclinical and clinical experiments. The experimental process will be accompanied by pharmacometric analysis that supports Model Based Drug Development leading to an integrated Development Plan that for licensure of new combinations to replenish the antimalarial treatment options. The process includes a computational model that scores the combination of molecules on a range of criteria from antimalarial potency, observed safety signals *in vitro*, in preclinical and clinical development to physicochemical properties. Promising combinations will be further studied in NOD SCID mice infected with *P. falciparum* to investigate their antimalarial activities such as parasite reduction rate, Minimal Inhibitory Concentration in monotherapy and combination and time to recrudescence. Based on these studies, combinations will then be characterized in Controlled Human Malaria Infection studies in subjects inoculated with *P. falciparum*. Pharmacometric methods will be used throughout the sequence of experiments to model and simulate activities

of these combinations and guide dose selection for late stage development. The application of these methods will result in new development strategies that have the potential to deliver more efficiently new antimalarial combinations from a rationale, data-driven selection process.

CHAIR

Joerg J. Moehrle
Medicines for Malaria Venture, Geneva, Switzerland

James McCarthy
QIMR Berghofer, Brisbane, Australia

8 a.m.

DEVELOPING A COMBINATORIAL TOOL FOR IN SILICO ASSESSMENT OF ANTI-MALARIAL DRUG PARTNERING

Nicole Andenmatten
Medicines for Malaria Venture, Geneva, Switzerland

8:20 a.m.

COMBINATION STUDIES IN *P. FALCIPARUM* INFECTED, HUMANIZED SCID MICE

Inigo Angulo-Barturen
The Art of Discovery, Bilbao, Spain

8:40 a.m.

CHARACTERIZATION OF NEW ANTIMALARIAL COMBINATIONS IN INDUCED BLOOD STAGE MALARIA STUDIES

James McCarthy
QIMR Berghofer, Brisbane, Australia

9 a.m.

MODEL INFORMED DRUG DEVELOPMENT FOR ANTIMALARIAL COMBINATION THERAPIES

Ping Zhao
Bill & Melinda Gates Foundation, Seattle, WA, United States

Exhibit Hall Open

Sheraton - Napoleon Ballroom (3rd Floor)

Monday, October 29, 9:30 a.m. - 10:30 a.m.

Poster Session A Set-Up

Marriott - Grand Ballroom (3rd Floor)

Monday, October 29, 9:45 a.m. - 10:15 a.m.

Coffee Break

Sheraton - Napoleon Ballroom (3rd Floor) and Marriott - Grand Ballroom Foyer (3rd Floor)

Monday, October 29, 9:45 a.m. - 10:15 a.m.

Get a Shot. Give a Shot.[®]

Marriott - Grand Ballroom Foyer (3rd Floor)
Monday, October 29, 10 a.m. - 5 p.m.

Walgreens' Get a Shot. Give a Shot.[®] campaign has helped provide more than 20 million lifesaving vaccines to children in need around the world through the United Nations Foundation's Shot@Life campaign. Now, TropMed18 is giving attendees an opportunity to give back to the global health communities we serve. Receive your annual flu shot and provide lifesaving vaccines to families in developing countries. Immunizations are one of the world's biggest public health success stories, but not all communities have the same access to vaccines.

Poster Session A Viewing

Marriott - Grand Ballroom (3rd Floor)
Monday, October 29, 10:15 a.m. - Noon

Scientific Session 11

Malaria: Epidemiology - Recent Progress in Advancing Surveillance, Measurement and Modeling for Program Success

Sheraton - Rodrigue Gallery (1st Floor)
Monday, October 29, 10:15 a.m. - Noon

CHAIR

S. Patrick Kachur
Columbia University Medical Center, New York, NY, United States
Ipsita Sinha
Mahidol Oxford Tropical Research Unit, Bangkok, Thailand

10:15 a.m.

43

SPATIOTEMPORAL MODELLING OF PREVALENCE OF *PLASMODIUM FALCIPARUM* DRUG RESISTANCE MUTATIONS IN THE *DHPS* GENE ACROSS AFRICA, 1990 - 2015

Georgina S. Humphreys¹, Jennifer Flegg², Annemieke van Eijk³
¹WorldWide Antimalarial Resistance Network, Centre for Tropical Medicine and Global Health, Nuffield Department of Medicine, University of Oxford, UK, Oxford, United Kingdom, ²School of Mathematics and Statistics, University of Melbourne, Melbourne, Australia, ³Liverpool School of Tropical Medicine, Liverpool, United Kingdom

10:30 a.m.

44

TRAVEL PATTERNS OF PATIENTS WITH MALARIA IN THE GREATER MEKONG SUBREGION AND NEIGHBORING COUNTRIES IN SOUTH ASIA

Ipsita Sinha¹, Olivo Miotto¹, Rob van der Pluijm¹, Lorenz Von Seidlein¹, Dominic Kwiatkowski², Arjen M. Dondorp¹, Nicholas PJ Day¹, Md. Amir Hossain³, M. Abdul Faiz⁴, Pasathorn Sirithiranont¹, Tracking Resistance to Artemisinin Collaboration Group¹, SpotMalaria GenRe-Mekong Project¹, Caroline Buckee⁵, Richard J. Maude¹
¹Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand, ²Wellcome Trust Sanger Institute, Hinxton, United Kingdom, ³Chittagong Medical College, Chittagong, Bangladesh, ⁴Dev Care Foundation, Dhaka, Bangladesh, ⁵Harvard TH Chan School of Public Health, Harvard University, Boston, MA, United States

10:45 a.m.

45

CLUSTERING OF SUBPATENT *PLASMODIUM FALCIPARUM* AND *PLASMODIUM VIVAX* INFECTIONS AROUND PATIENTS IN A LOW-ENDEMIC SETTING AIMING FOR ELIMINATION: BATU DEGAGA KEBELLE, ADAMA WOREDA, OROMIA, ETHIOPIA

Fitsum G. Tadesse
Armauer Hansen Research Institute, Addis Ababa, Ethiopia

(ACMCIP Abstract)

11 a.m.

46

BIAS IN ROUTINELY COLLECTED MALARIA SURVEILLANCE DATA DUE TO ASYMPTOMATIC INFECTIONS ACCORDING TO TRANSMISSION INTENSITY (A PROXY FOR PROTECTIVE IMMUNITY): A POOLED ANALYSIS OF PAIRED HEALTH SYSTEM AND COMMUNITY CROSS-SECTIONAL SURVEY DATA

Gillian H. Stresman¹, Kimberly Fornace¹, Jordi Landier², Andre Siqueira³, Jacklin Moshia⁴, Fitsum Tadesse⁵, Shunmay Yeung¹, Umberto D'Alessandro⁶, Effie Espino⁷, Chris Drakeley¹
¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²Shoklo Malaria Research Unit, Mae Sot, Thailand, ³Fundação Oswaldo Cruz, Rio De Janeiro, Brazil, ⁴National Institute for Medical Research (NIMR), Mwanza Medical Research Centre, Mwanza, United Republic of Tanzania, ⁵Radboud University Medical Centre, Nijmegen, Netherlands, ⁶Medical Research Council - Gambia Unit, Fajara, Gambia, ⁷The Research Institute for Tropical Medicine, Manila, Philippines

11:15 a.m.

47

ANTENATAL CLINIC SURVEILLANCE FOR MALARIA ACCURATELY REFLECTS COMMUNITY MALARIA INFECTION PREVALENCE IN A HIGH TRANSMISSION SETTING IN WESTERN KENYA

Aaron M. Samuels¹, Titus K. Kwambai², Brian Seda³, Oliver Towett³, Allen Hightower⁴, Phelix Jangu³, Isabella Nyang'au⁵, Oscar Odunga⁵, Samwel Onditi⁵, Abdi Mohamed⁶, Duncan Earle⁷, Laurence Slutsker⁷, Richard Steketee⁷, Simon Kariuki³, Meghna Desai¹, Feiko ter Kuile⁸
¹Centers for Disease Control and Prevention-Kenya, Atlanta, GA, United States, ²Kenya Ministry of Health, Liverpool School of Tropical Medicine, Kisumu, Kenya, ³Kenya Medical Research Institute, Kisumu, Kenya, ⁴Contractor, Bangkok, Thailand, ⁵PATH, Kisumu, Kenya, ⁶PATH, Lusaka, Zambia, ⁷PATH, Seattle, WA, United States, ⁸Liverpool School of Tropical Medicine, Liverpool, United Kingdom

11:30 a.m.

48

WHAT PROPORTION OF MALARIA CASES IN AFRICAN CHILDREN RECEIVE EFFECTIVE TREATMENT?

Ursula Dalrymple, Ewan Cameron, Peter W. Gething
University of Oxford, Oxford, United Kingdom

11:45 a.m.

49

ETHIOPIA: ASSESSMENT OF MALARIA TRANSMISSION DYNAMICS USING MULTIPLEX SEROLOGICAL ASSAY

Ashenafi Assefa¹, Ahmed Ali², Wakgari Deressa², Heven Sime¹, Amha Kebede³, Moges Kassa¹, Hiwot Tekla⁴, Hiwot Solomon⁵, Jackie Cook⁶, Lorenz Von Seidlein⁷, Joseph Malone⁸, Brian Wakeman⁹, Ya Ping Shi⁹, Chris Drakeley⁶, Eric Rogier⁹, Jimmie Hwang⁸
¹Ethiopian Public Health Institute, Addis Ababa, Ethiopia, ²Addis Ababa University, Addis Ababa, Ethiopia, ³African Society for Laboratory Medicine, Addis Ababa, Ethiopia, ⁴U.S. President's Malaria Initiative, United States Agency for International Development, Addis Ababa, Ethiopia, ⁵Federal Ministry of Health, Addis Ababa, Ethiopia, ⁶London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁷MORU, Mahidol University, Bangkok, Thailand, ⁸U.S. President's Malaria Initiative, Malaria Branch, Division of Parasitic Diseases and Malaria, Centers for Disease Control and

Prevention, Atlanta, GA, United States. ⁹Malaria Branch, Division of Parasitic Diseases and Malaria, Centers for Disease Control and Prevention, Atlanta, GA, United States

Scientific Session 12

Filariasis: Epidemiology and Control II

Sheraton - Waterbury (2nd Floor)

Monday, October 29, 10:15 a.m. - Noon

CHAIR

Cédric Chesnais
Institut de Recherche pour le Développement, UMI233, Montpellier, France
Louise A. Kelly-Hope
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

10:15 a.m.

50

EVALUATING THE IMPACT OF ANTHELMINTIC-BASED INTERVENTION STRATEGIES FOR CONTROLLING LOA LOA: A MATHEMATICAL MODELLING STUDY USING EPILOA

Charles Whittaker¹, Martin Walker², Sébastien Pion³, Cédric Chesnais³, Michel Boussinesq³, María-Gloria Basáñez¹
¹London Centre for Neglected Tropical Disease Research and Department of Infectious Disease Epidemiology, School of Public Health, Faculty of Medicine, Imperial College London, London, United Kingdom, ²London Centre for Neglected Tropical Disease Research and Department of Pathobiology and Population Sciences, Royal Veterinary College, London, United Kingdom, ³UM I 233 IRD – U 117 5 INSERM - Université de Montpellier, Montpellier, France

10:30 a.m.

51

COMMUNITY TEST AND NOT TREAT (TANT), A COST-EFFECTIVE STRATEGY FOR THE ELIMINATION OF ONCHOCERCIASIS IN CENTRAL AFRICA

Joseph Kamgno¹, Hugues Nana-Djeunga², Sebastien Pion³, Cédric Chesnais³, Guy-Roger Njitchoang², Philippe Nwane², André Domche², Edgard Ndjomo-Andjembe², Wilma Stolk⁴, Daniel Fletcher⁵, Charles Mackenzie⁶, Amy Klion⁷, Thomas Nutman⁷, Michel Boussinesq³
¹Filariasis Research Center and Faculty of Medicine and Biomedical Sciences University of Yaounde I, Yaounde, Cameroon, ²Centre for Research on Filariasis and other Tropical Diseases, Yaounde, Cameroon, ³IRD UMI 233-INSERM U1175-Montpellier University, Montpellier, France, ⁴Department of Public Health, Erasmus MC, University Medical Center, Rotterdam, Netherlands, ⁵Department of Bioengineering, University of California, Berkeley, CA, United States, ⁶NTDs Support Center, Task Force for Global Health, Atlanta, GA, United States, ⁷Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

10:45 a.m.

52

ASSESSING HYPOENDEMIC ONCHOCERCIASIS IN LOA LOA ENDEMIC AREAS OF SOUTHEAST NIGERIA

Lindsay Rakers¹, Emmanuel Emukah², Barminas Kahansim³, Bertram E. Nwoke⁴, Emmanuel S. Miri³, Emily Griswold¹, Emmanuel Davies⁵, Cephas Ityonzughu³, Frank O. Richards¹
¹The Carter Center, Atlanta, GA, United States, ²The Carter Center, Owerri, Nigeria, ³The Carter Center, Jos, Nigeria, ⁴Imo State University, Owerri, Nigeria, ⁵Federal Ministry of Health, Abuja, Nigeria

11 a.m.

53

ENVIRONMENTAL FACTORS ASSOCIATED WITH LOIASIS HOTSPOTS IN CAMEROON

Xavier Badia¹, Hannah Betts¹, David Molyneux¹, Samuel Wanji², Mark Taylor¹, Louise A. Kelly-Hope¹
¹Department of Parasitology, Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²Department of Microbiology and Parasitology, Faculty of Science, University of Buea, Buea, Cameroon

11:15 a.m.

54

VALIDATION OF THE LOA ANTIBODY RAPID TEST (LART), A NOVEL RAPID DIAGNOSTIC TEST (RDT) TO REFINE LOIASIS MAPPING

Narcisse Nzue Toche¹, Hugues Nana Djeunga¹, Marco Biamonte², Yannick Niamsi Emalio¹, Kisito Ogoussan³, Maria Rebollo⁴, Joseph Kamgno¹
¹Centre for Research on Filariasis and other Tropical Diseases (CRFiMT), Yaoundé, Cameroon, ²Drugs & Diagnostics for Tropical Diseases (DDTD), San Diego, CA, United States, ³NTDs Support Center, Task Force for Global Health, Atlanta, GA, United States, ⁴Expanded Special Project for Elimination of Neglected Tropical Diseases (ESPEN), WHO-AFRO, Brazzaville, Republic of the Congo

11:30 a.m.

55

IMPACT OF REPEATED ANNUAL IVERMECTIN MASS DRUG ADMINISTRATION ON LOIASIS PARASITOLOGICAL INDICATORS IN CAMEROON: IMPLICATIONS FOR ONCHOCERCIASIS AND LYMPHATIC FILARIASIS ELIMINATION IN AREAS CO-ENDEMIC WITH LOA LOA IN AFRICA

Wanji Samuel¹, Winston Patrick Ndongmo¹, Fanny Fri Fombad¹, Abdel Jelil Njouendou¹, Benjamin Koudou², Moses Bockarie², Grace Fobi³, Jean Baptiste Rongou³
¹University of Buea, Buea, Cameroon, ²Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ³African Program for Onchocerciasis Control (APOC), Ouagadougou, Burkina Faso

11:45 a.m.

56

INVESTIGATION OF RISK FACTORS FOR TRANSMISSION OF GUINEA WORM DISEASE IN DOGS— CHAD, 2018

Anita Sircar¹, Eugene W. Liu¹, Kolio Matchanga², Mbang Mahamat Ada³, Neloumta Ngarhor³, Ryan Wiegand¹, Philip Tchindebet Ouakou³, Honoré Djimrassengar², Dieudonné Sankara⁴, Hubert Zirimwabagabo⁵, Ernesto Ruiz-Tiben⁶, Sharon L. Roy¹
¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²World Health Organization, N'Djamena, Chad, ³Chad Ministry of Public Health, N'Djamena, Chad, ⁴World Health Organization, Geneva, Switzerland, ⁵The Carter Center, N'Djamena, Chad, ⁶The Carter Center, Atlanta, GA, United States

Symposium 13

Innovations for Mitigating Response to Outbreak-Prone Diseases: A Challenge to ASTMH Attendees to Pitch Their Innovations for Reducing Risk, Improving Prediction and Delivering Better Healthcare Tools

Sheraton - Rhythms (2nd Floor)

Monday, October 29, 10:15 a.m. - Noon

Supported with funding from Vulcan Inc. and ASTMH

This lively, fun and interactive session will feature creative solutions to predict, prevent, or respond to an outbreak. Attend this symposium showcasing some of the most inspiring ideas of the ASTMH community: a wide range of ideas, from early stage thinking to field-tested prototypes, that address problems spanning outbreak prediction, prevention and response. Finalists have been selected to pitch their ideas during this session. Topics for innovation include mitigating risk through social communication, improving predictive capabilities, delivering better tools (surveillance, diagnostics, data-sharing, vector control, as examples), and other novel innovations to prevent, detect and respond to outbreaks of international concern. The finalists have received coaching and guidance from a team of advisors, including experts at the Center for Innovation and Impact, Bureau of Global Health, USAID, Vulcan Inc., and the Colorado School of Public Health. A judging panel, in tandem with the audience, will score the finalists during the symposium and the innovative idea with the highest score will be announced as winner. The winner will be awarded \$1,000 and access to marketing advice through the Center for Accelerating Innovation and Impact, Bureau of Global Health, United States Agency for International Development.

CHAIR

May C. Chu

Colorado School of Public Health, Aurora, CO, United States

Vikas Meka

United States Agency for International Development, Crystal City, MD, United States

JUDGING PANEL

Daniel G. Bausch

UK Public Health Rapid Support Team, London, United Kingdom

Jennifer Fluder

United States Agency for International Development, Washington, DC, United States

Sumi Parapanje

Vulcan, Inc., Seattle, WA, United States

Beth Gaddis

United States Agency for International Development, Washington, DC, United States

Symposium 14

American Committee on Arthropod-Borne Viruses (ACAV) Symposium II: History of Arbovirology: How the Past Informs the Present

Sheraton - Grand Ballroom A/B (5th Floor)

Monday, October 29, 10:15 a.m. - Noon

Over the last 20 years a generational gap has developed between the giants of arbovirus research and discovery, and the new generation, resulting in an unfortunate loss of historical knowledge. This apparent gap developed due to an ebb in training and loss of investment in passing the scepter to the next generation, leading to a lack of continuity among the generations. This deficiency in communication threatens to derail passage of knowledge of the rich history of virus discovery, field epidemiology and understanding of the abundance of diversity that surrounds us. This lack of continuity may have immediate and disastrous consequences for human public health as vector-borne viruses expand their range to naive environments and yet to be discovered arboviruses emerge. The purpose of this symposium is to bridge this gap and provide continuity between the generations. The symposium will provide a narrative of the adventures and field experiences of earlier generations and how these experiences inform our scientific approaches today.

CHAIR

Laura D. Kramer

Wadsworth Center, New York State Department of Health and State University of New York at Albany School of Public Health, Albany, NY, United States

Nikolaos Vasilakis

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

10:15 a.m.

YELLOW FEVER- ROADS NOT TAKEN

Thomas P. Monath

Crozet BioPharma LLC, Devens, MA, United States

10:35 a.m.

MAGNIFICENT OBSESSION: SEEKING THE LAIR OF SYLVATIC ARBOVIRUSES

Kathryn A. Hanley

New Mexico State University, Las Cruces, NM, United States

10:55 a.m.

FROM BWAMBA TO THE PRESENT, THE CHANGING FOREST OF ARBOVIROLOGY

Andrew D. Haddow

United States Army Medical Research Institute of Infectious Diseases, Frederick, MD, United States

11:15 a.m.

BREAKING BARRIERS: THE HISTORY OF WOMEN IN ARBOVIROLOGY

Laura D. Kramer

Wadsworth Center, New York State Department of Health and State University of New York at Albany, School of Public Health, Albany, NY, United States

Symposium 15

Clinical Group Symposium II (American Committee on Clinical Tropical Medicine and Travelers' Health – ACCTMTH): Assess Your Knowledge of Clinical Tropical Medicine

Sheraton - Grand Ballroom C (5th Floor)
Monday, October 29, 10:15 a.m. - Noon

The three speakers in this session bring unique backgrounds to this year's clinical symposium: Dr. Pritt runs a pathology laboratory, Dr. White is a clinician, and Dr. Sethi is a dermatologist. Their different perspectives will challenge clinician attendees to think outside of their specialties. Each speaker will present tropical medicine-related cases. Audience members will have the opportunity to answer questions using a cell phone-based audience response system. The presenters will discuss the chief complaint, history of present illness, approach, diagnosis and management of each case. Following the case, each speaker will give a brief summary of the disease.

CHAIR

Kimberly Breglio
Pennsylvania State University College of Medicine, Hershey, PA, United States

J. Daniel Ballew
University of Washington, Seattle, WA, United States

10:15 a.m. A PARASITOLOGY VIEW

Bobbi Pritt
Mayo Clinic, Rochester, MN, United States

10:45 a.m. A DERMATOLOGY VIEW

Aisha Sethi
Yale School of Medicine, New Haven, CT, United States

11:15 a.m. AN INTERNIST'S VIEW

A. Clinton White
University of Texas Medical Branch, Galveston, TX, United States

Symposium 16

The Importance of Social Science Research in Tackling Antimicrobial Resistance in Low and Middle-Income Countries

Sheraton - Grand Ballroom D/E (5th Floor)
Monday, October 29, 10:15 a.m. - Noon

Antibiotic resistance makes global dedication to facilitate the appropriate use of antibiotics an imperative. Recent reports on antibiotic resistance illustrate the importance of conducting studies in low- and middle-income countries (LMICs) where local data are scarce and the problem is significant. Improving the appropriate use of antibiotics necessitates understanding their supply, as well as the social and cultural factors that create demand in the community. As different LMIC settings show distinct rates of over-the-counter antibiotic dispensing, it is clear

that the social, cultural and policy-related determinants of antibiotic practices are context-specific. In this symposium experiences from large qualitative studies will be presented, followed by an interactive discussion with leaders and scientists in this field.

CHAIR

Heiman F. Wertheim
Radboud University Medical Center, Nijmegen, Netherlands

Marco Haenssger
University of Oxford, Bangkok, Thailand

10:15 a.m. AN OVERVIEW ON SOCIAL SCIENCE RESEARCH IN AMR IN LMICS

Heiman Wertheim
Radboudumc, Nijmegen, Netherlands

10:30 a.m. COMMUNITY-LEVEL ANTIBIOTIC ACCESS AND USE (ABACUS) IN LOW- AND MIDDLE-INCOME COUNTRIES: FINDING TARGETS FOR SOCIAL INTERVENTIONS TO IMPROVE APPROPRIATE ANTIMICROBIAL USE - AN OBSERVATIONAL MULTI-CENTER STUDY

Margaret Gyapong
University of Health and Allied Sciences, Ho, Ghana

10:50 a.m. HOW TO IMPLEMENT APPROPRIATE ANTIBIOTIC USE IN BOTH HIGH AND LOW AND MIDDLE-INCOME COUNTRIES

Marlies Hulscher
IQ Healthcare, Nijmegen, Netherlands

11:10 a.m. ANTIBIOTICS AND ACTIVITY SPACES: AN EXPLORATORY STUDY OF BEHAVIOR, MARGINALIZATION, AND KNOWLEDGE DIFFUSION

Marco Haenssger
MORU, Bangkok, Thailand

Scientific Session 17

Schistosomiasis - Trematodes: Epidemiology and Control

Marriott - La Galerie 1/2 (2nd Floor)
Monday, October 29, 10:15 a.m. - Noon

CHAIR

Christina Faust
Institute of Biodiversity, Animal Health, and Comparative Medicine, Glasgow, United Kingdom

Donald McManus
QIMR Berghofer Medical Research Institute, Brisbane, Australia

10:15 a.m.

57

POPULATION GENETICS OF SCHISTOSOME PARASITES IN SCHOOL AGED CHILDREN BEFORE AND AFTER PRAZIQUANTEL TREATMENT

Christina Faust¹, Marco Crotti¹, Elizabeth Adekanale¹, David Oguttu², Aidah Wamboko³, Moses Adriko³, Andrina Nankasi³, Arinaitwe Moses³, Fred Besigye³, Candia Rowel³, Diana Ajambo³, Atuhire Alon³, Edridah Tukahebwa³, Alice Norton⁴, Joanne Webster⁵, Poppy H. Lamberton¹
¹Institute of Biodiversity, Animal Health, and Comparative Medicine, University of Glasgow, Glasgow, United Kingdom, ²Vector Control Division, Ministry of Health, Uganda, ³Vector Control Division, Kampala, Uganda, ⁴Schistosomiasis Control Initiative, London, United Kingdom, ⁵Royal Veterinary College, London, United Kingdom

10:30 a.m.

58

OÙ SONT LES ESCARGOTS - WHERE ARE THE SNAILS? USING REMOTE SENSING METHODS TO COMBAT SCHISTOSOMIASIS IN NORTHERN SENEGAL

Caitlin M. Wolfe¹, Christopher Haggerty¹, Isabel Jones², Andrew Chamberlin², Nicolas Jouanard³, Simon Senghor³, Chelsea Wood⁴, Susanne Sokolow², Gilles Riveau³, Guilio De Leo², Jason Rohr¹
¹University of South Florida, Tampa, FL, United States, ²Stanford University, Palo Alto, CA, United States, ³Espoir Pour la Santé, Saint-Louis, Senegal, ⁴University of Washington, Seattle, WA, United States

10:45 a.m.

59

ANTHELMINTIC TREATMENT UPTAKE AND PREDICTORS IN LAKE VICTORIA FISHING COMMUNITIES, UGANDA: INTERVENTION COVERAGE RESULTS FROM THE LAVIISWA CLUSTER RANDOMIZED TRIAL

Hellen Akurut¹, Emily Webb², Richard Sanya¹, Lawrence Lubyayi¹, Margaret Nampijja¹, Moses Kizza¹, Robert Kizindo¹, Moses Ssewankambo¹, Denis Nsubuga¹, James Kaweesa³, Edridah Tukahebwa³, Alison Elliott¹
¹Medical Research Council/Uganda Virus Research Institute and London School of Hygiene & Tropical Medicine, Entebbe, Uganda, ²London School of Hygiene & Tropical Medicine, London, United Kingdom, ³Ministry of Health, Uganda, Kampala, Uganda

11 a.m.

60

RESEARCH CHALLENGES AND NEEDS FOR CONTROL AND ELIMINATION OF SCHISTOSOMIASIS: NEW DIAGNOSTICS

Donald McManus¹, Catherine Gordon¹, Kosala Weerakoon¹, Pengfei Cai¹, Remi Olveda², Darren Gray³, Allen Ross⁴, Yueheng Li¹, Gail Williams⁵
¹QIMR Berghofer Medical Research Institute, Brisbane, Australia, ²Research Institute for Tropical Medicine, Manila, Philippines, ³Australian National University, Canberra, Australia, ⁴Griffith University, Brisbane, Australia, ⁵University of Queensland, Brisbane, Australia

11:15 a.m.

61

PRECISION MAPPING IS THE WAY FORWARD TO SHRINK THE MAP AND ACCELERATE THE ELIMINATION OF SCHISTOSOMIASIS

Louis-Albert Tchuem Tchuente
Centre for Schistosomiasis and Parasitology, University of Yaoundé I, Yaoundé, Cameroon

11:30 a.m.

62

SCHISTOSOMIASIS MONITORING AND EVALUATION PROGRAMS: THE IMPORTANCE OF COLLECTING ADULT DATA TO INFORM TREATMENT STRATEGIES FOR SCHISTOSOMA MANSONI

Jaspreet Toor¹, Hugo C. Turner², James E. Truscott¹, Marleen Werkman¹, Anna E. Phillips¹, Ramzi Alsallaq³, Graham F. Medley⁴, Charles H. King³, Roy M. Anderson¹
¹Imperial College London, London, United Kingdom, ²Oxford University Clinical Research Unit, Ho Chi Minh City, Vietnam, ³Case Western Reserve University, Cleveland, OH, United States, ⁴London School of Hygiene & Tropical Medicine, London, United Kingdom

11:45 a.m.

63

COUPLING DYNAMIC ENERGY BUDGET (DEB) THEORY WITH A MESOCOSM EXPERIMENT TO PREDICT AND VALIDATE THE EFFECTS OF TEMPERATURE ON A HOST-PARASITE SYSTEM

Karena Nguyen¹, David J. Civitello², Jason R. Rohr¹
¹University of South Florida, Tampa, FL, United States, ²Emory University, Atlanta, GA, United States

Scientific Session 18

Mosquitoes: Vector Biology - Epidemiology I

Marriott - La Galerie 4/5/6 (2nd Floor)
Monday, October 29, 10:15 a.m. - Noon

CHAIR

Ethan Degner
Cornell University, Ithaca, NY, United States

Gregory P. Murray
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

10:15 a.m.

64

EVIDENCE OF PERENNIAL MALARIA TRANSMISSION UNDER ARID CONDITIONS AND DRY SEASON REFUGIA FOR ANOPHELINE LARVAE: A CASE STUDY AT KANDI IN NORTHEASTERN BENIN, WEST AFRICA

Renaud I. Govoetchan, Martin Akogbeto
Centre de Recherche Entomologique de Cotonou, Cotonou, Benin

10:30 a.m.

65

FROM INSIGHT TO INNOVATION: HOW VIDEO-TRACKED AN. GAMBIAE BEHAVIOR LED TO THE 'BARRIER BEDNET' TARGETING INSECTICIDE RESISTANT VECTORS

Gregory P. Murray¹, Natalie Lissenden¹, Hyacinthe K. Toé², Vitaly Voloshin³, Jeff Jones¹, Natalia C. Angarita-Jaimes³, Josephine E. Parker¹, Christian Kroner³, Catherine E. Towers³, N'Fale Sagnon², Hilary Ranson¹, David Towers³, Philip J. McCall¹
¹Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²Centre National de Recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso, ³University of Warwick, Coventry, United Kingdom

10:45 a.m.

66

IDENTIFICATION OF CANDIDATE GENES UNDERLYING HUMAN HOST PREFERENCE IN THE MALARIA MOSQUITO ANOPHELES COLUZZII

Giridhar Athrey¹, Zachary Popkin-Hall¹, Willem Takken², **Michel A. Slotman**¹
¹Texas A&M University, College Station, TX, United States, ²Wageningen University and Research, Wageningen, Netherlands

11 a.m.

67

NEW INSIGHTS INTO ANOPHELES MATING BEHAVIOR: BOTH MALES AND FEMALES OF ANOPHELES COLUZZII AND ANOPHELES GAMBIAE USE VISUAL MARKERS TO SWARM ... BUT EACH IN ITS OWN WAY

Serge B. Poda¹, Abdoulaye Diabaté¹, Olivier Gnankiné², Roch K. Dabiré¹, Olivier Roux³

¹Institut de Recherche en Sciences de la Santé (IRSS)/Centre Muraz, Bobo-Dioulasso, Burkina Faso, ²Université Ouaga 1 Pr Joseph Ki-Zerbo, Ouagadougou, Burkina Faso, ³Institut de Recherche pour le Développement (IRD), Montpellier, France

11:15 a.m.

68

TIMING IS EVERYTHING: Aedes Aegypti REPRODUCTIVE PHYSIOLOGY EXPLAINS BEHAVIOR

Ethan C. Degner¹, Jade M. Noble¹, Catalina Alfonso-Parra², Lena F. Kourkoutis¹, Frank W. Avila², Laura C. Harrington¹

¹Cornell University, Ithaca, NY, United States, ²Max Planck Tandem Group in Mosquito Reproductive Biology, Universidad de Antioquia, Medellín, Colombia

11:30 a.m.

69

TEMPERATURE DRIVES ZIKA VIRUS TRANSMISSION: EVIDENCE FROM EMPIRICAL AND MATHEMATICAL MODELS

Blanka Tesla¹, Leah Demakovsky¹, Erin Mordecai², Sadie Ryan³, Matthew Bonds⁴, Calistus Ngonghala³, Melinda Brindley¹, **Courtney Murdock**¹

¹University of Georgia, Athens, GA, United States, ²Stanford University, Stanford, CA, United States, ³University of Florida, Gainesville, FL, United States, ⁴Harvard University, Cambridge, MA, United States

11:45 a.m.

70

HIGH-ACCURACY DETECTION OF MALARIA VECTOR HABITATS USING DRONE-BASED MULTISPECTRAL IMAGERY

Gabriel Carrasco-Escobar¹, Edgar Manrique¹, Jorge Ruiz-Cabrejos¹, Marlon Saavedra¹, Freddy Alava², Sara Bickersmith³, Catharine Prussing⁴, Joseph Vinetz⁵, Jan E. Conn³, Marta Moreno⁵, Dionicia Gamboa¹

¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²Ministry of Health, Iquitos, Peru, ³Wadsworth Center, New York State Department of Health, Albany, NY, United States, ⁴Department of Biomedical Sciences, School of Public Health, State University of New York, Albany, NY, United States, ⁵Division of Infectious Diseases, Department of Medicine, University of California San Diego, La Jolla, CA, United States

Symposium 19

Transmission Blocking Immunity: From Biology to Interventions

Marriott - Mardi Gras D (3rd Floor)

Monday, October 29, 10:15 a.m. - Noon

The recent decline in global malaria burden has stimulated increased efforts towards *Plasmodium falciparum* elimination, including a major focus on malaria transmission and transmission-blocking interventions. The highly efficient transmission of *P. falciparum* is considered one of the key challenges for elimination efforts. Infection with *Plasmodium* can elicit antibody responses that inhibit parasite survival in the human host or in the mosquito, where they are ingested in an infectious blood

meal. Natural or induced antibody responses can have transmission reducing activity (TRA) and hence reduce or completely block transmission to mosquitoes. Historically, studies on TRA have been restricted to a small selection of gamete antigens that are expressed during parasite development in mosquitoes and interfere with parasite fertilization or later development in mosquitoes. The most advanced vaccine candidate with TRA, post-fertilization antigen Pfs25, was recently tested in an endemic setting with sobering results. This highlights the need for a more comprehensive search for candidate antigens involved in TRA and the exploration of novel strategies to reduce transmission. Recently, the portfolio of 'traditional TRA antigens' (i.e. antigens involved in parasite fertilization or further development in mosquitoes) has been expanded by a large-scale screening of immune profiles of individuals with naturally acquired TRA. The first results of pre-clinical evaluation of newly identified antigens have very recently become available and highlight the potential of some hits. In addition, the first evidence has been generated for a potent naturally acquired response that may interfere with gametocyte maturation or circulation prior to ingestion by mosquitoes. Antigens have been identified and associated with gametocyte phagocytosis. Lastly, the interaction between gametocyte/gamete antigens and mosquito immunity is an area of increasing interest and emerging insights. Specifically, it was recently uncovered that the gametocyte/gamete Pfs47 protein is involved in parasite strategies to escape mosquito innate immunity that can interfere with parasite development in mosquitoes. This symposium presents recently published and unpublished data on all these aspects of human and mosquito immunity that interferes with transmission. The symposium content will range from biological characterization of antigens and mechanisms of TRA to early results of immunization experiments and the future use scenarios of interventions that aim to elicit TRA.

CHAIR

Matthias Marti
University of Glasgow, Glasgow, United Kingdom

Teun Bousema
Radboudumc, Nijmegen, Netherlands

10:15 a.m.

NATURAL AND VACCINE-INDUCED IMMUNITY AGAINST NOVEL P. FALCIPARUM GAMETE TARGETS

Teun Bousema
Radboudumc, Nijmegen, Netherlands

10:30 a.m.

FUNCTIONAL CHARACTERIZATION OF TARGETS OF NATURALLY ACQUIRED IMMUNITY AGAINST CIRCULATING GAMETOCYTES

Matthias Marti
University of Glasgow, Glasgow, United Kingdom

Monday
October 29

10:45 a.m.
UNDERSTANDING AND DISRUPTING PLASMODIUM FALCIPARUM MALARIA TRANSMISSION BY TARGETING PFS47

Carolina Barrillas-Muri
National Institutes of Health, Bethesda, MD, United States

11 a.m.
FUNCTIONAL CHARACTERIZATION AND ASSESSMENT OF PLASMODIUM FALCIPARUM PROTEINS AS NOVEL TARGETS OF TRANSMISSION BLOCKING ANTIBODIES

Sumi Biswas
Jenner Institute, Oxford University, Oxford, United Kingdom

11:15 a.m.
TRANSMISSION BLOCKING VACCINES - AN MVI PERSPECTIVE

Ashley Birkett
Malaria Vaccine Initiative, Seattle, WA, United States

Scientific Session 20

Malaria: Chemotherapy and Drug Resistance

Marriott - Mardi Gras EFGH (3rd Floor)
Monday, October 29, 10:15 a.m. - Noon

CHAIR

Lise Musset
Institut Pasteur de la Guyane, Cayenne cedex, French Guiana

Mahamadou Diakite
MRTC-USTTB, Bamako, Mali

10:15 a.m. **71**

ARTEMISININ RESISTANCE AND THE PFK13 C580Y MUTATION IN GUYANA: A CONFIRMED LINK AND EMERGENCE

Luana Mathieu¹, Horace Cox², Angela M. Early³, Maria-Paz Ade⁴, Yasmine Lazrek¹, Quacy Grant², Naomi W. Lucchi⁵, Venkatachalam Udhayakumar⁵, Alexandre J. Seme Fils⁶, David A. Fidock⁷, Daniel E. Neafsey³, Pascal Ringwald⁸, Lise Musset¹

¹*Intitut Pasteur de la Guyane, Cayenne, French Guiana*, ²*Ministry of Public Health, Georgetown, Guyana*, ³*Broad Institute of Massachusetts Institute of Technology and Harvard, Boston, MA, United States*, ⁴*Panamerican Health Organization, Washington, DC, United States*, ⁵*Centers for Disease Control and Prevention, Atlanta, GA, United States*, ⁶*Panamerican Health Organization, Georgetown, Guyana*, ⁷*Columbia University College of Physicians and Surgeons, New York, NY, United States*, ⁸*World Health Organization, Geneva, Switzerland*

(ACMCIP Abstract)

10:30 a.m. **72**

MUTATIONS IN PFCORONIN CONFER RESISTANCE TO ARTEMISININ IN WEST AFRICAN PLASMODIUM FALCIPARUM ISOLATES

Aabha Sharma¹, Allison R. Demas¹, Wesley Wong¹, Angela Early², Seth Redmond², Selina Bopp¹, Daniel E. Neafsey¹, Sarah K. Volkman¹, Daniel L. Hartl³, Dyann F. Wirth¹

¹*Harvard T. H. Chan School of Public Health, Boston, MA, United States*, ²*The Broad Institute, Cambridge, MA, United States*, ³*Harvard University, Cambridge, MA, United States*

10:45 a.m. **73**

THE EMERGENCE OF MULTIDRUG RESISTANT MALARIA PARASITES IN SOUTHEAST ASIA AND IMPLICATIONS ON FUTURE MALARIA TREATMENT

Mariusz Wojnarski¹, Jessica Lin², Panita Gosi¹, Michele Spring¹, Pattaraporn Vanachayangkul¹, Nonlawat Boonyalai¹, Worachet Kuntawunginn¹, Chaiyaporn Chaisatit¹, Kirakarn Kirativanich¹, Piyaporn Saingam¹, Sorayut Chattrakarn¹, Chatchadaporn Thamnurak¹, Kin Soveasna³, Nicholas Martin¹, Huy Rekol⁴, Lek Dysoley⁴, Krisada Jongsakul¹, Somethy Sok³, Prom Satharath³, Kong Saly³, Shannon Takala-Harrison⁵, David Saunders¹, Mark Fukuda¹, Philip Smith¹, Chanthap Lon¹
¹*US Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand*, ²*University of North Carolina, Chapel Hill, NC, United States*, ³*Ministry of National Defense, Department of Health, Phnom Penh, Cambodia*, ⁴*National Center for Parasitology, Entomology and Malaria Control, Phnom Penh, Cambodia*, ⁵*University of Maryland, Baltimore, MD, United States*

11 a.m. **74**

IMPACT OF CYP2C8*2 ON ARTESUNATE-AMODIAQUINE METABOLISM IN MALI

Mahamadou D. Camara¹, Mamadou Tekete¹, Souleymane Dama¹, Dinkorma I. Ouologuem¹, Aminatou Kone¹, Amadou Bamadio¹, Nouhoum Diallo¹, Hamidou Niangaly¹, Bakary Fofana¹, Ogobara K. Doumbo¹, Steffen Borrmann², Jose P. Gil³, Abdoulaye Djimde¹
¹*Malaria Research and Training Center, Department of Epidemiology of Parasitic Diseases, School of de Medicine and dentistry, University of Sciences, techniques and technologies of Bamako, Bamako, Mali*, ²*Tubingen University, Tübingen, Germany*, ³*Karolinska Institute, Stockholm City, Sweden*

11:15 a.m. **75**

PHARMACOKINETIC AND PHARMACODYNAMIC PROPERTIES OF DIHYDROARTEMISININ-PIPERAQUINE IN SEASONAL MALARIA CHEMOPREVENTION IN YOUNG CHILDREN

Joel Tarning¹, Palang Chotsiri¹, Issaka Zongo², Paul Milligan³, Daniel Compaore², Fabrice Somé², Daniel Chandramohan², Waranee Hanpithakpong¹, Francois Nosten¹, Brian Greenwood², Philip Rosenthal⁴, Nicholas White¹, Jean-Bosco Ouédraogo²
¹*Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand*, ²*Institut de Recherche en Sciences de la Santé, Bobo-Dioulasso, Burkina Faso*, ³*London School of Hygiene & Tropical Medicine, London, United Kingdom*, ⁴*University of California, San Francisco, CA, United States*

11:30 a.m. **76**

SAFETY, TOLERABILITY, EFFICACY AND PHARMACOKINETICS OF HIGH DOSE, SHORT COURSE PRIMAQUINE REGIMENS IN PAPUA NEW GUINEAN CHILDREN

Brioni R. Moore¹, Roselyn Tobe², Moses Laman², John Benjamin², Sam Salman³, Ivo Mueller⁴, Inoni Betuela², Timothy M. Davis³
¹*School of Pharmacy and Biomedical Sciences, Curtin University, Perth, Australia*, ²*Vector Borne Disease Unit, Papua New Guinea Institute of Medical Research, Madang, Papua New Guinea*, ³*UWA Medical School, University of Western Australia, Perth, Australia*, ⁴*Walter and Eliza Hall Institute of Medical Research, Parkville, Australia*

11:45 a.m.

77

RISK OF ANEMIA AND TIME TO HAEMATOLOGICAL RECOVERY FOLLOWING ARTEMISININ-BASED COMBINATION THERAPIES AMONG HIV INFECTED INDIVIDUALS STABILIZED ON ANTIRETROVIRAL THERAPY WITH OR WITHOUT MALARIA CO-INFECTION IN SUB-SAHARAN AFRICA: POOLED ANALYSIS OF INDIVIDUAL PATIENT DATA

Clifford G. Banda on behalf of the WWARN-IMPACT Study Group
WorldWide Antimalarial Resistance Network, Cape Town, South Africa

Scientific Session 21

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Malaria-Host-Parasite Interactions and Host Responses

Marriott - Balcony IJK (3rd Floor)

Monday, October 29, 10:15 a.m. - Noon

Supported with funding from the Burroughs Wellcome Fund

CHAIR

Kimberley Prior
University of Edinburgh, Edinburgh, United Kingdom

Estela Shabani
Harvard T.H. Chan School of Public Health, Boston, MA, United States

10:15 a.m.

2115

INVITED SPEAKER FROM THE WOODS HOLE MOLECULAR PARASITOLOGY MEETING HELD IN SEPTEMBER 2018. SEE THE MEETING APP FOR SPEAKER INFORMATION.

10:30 a.m.

2116

INVITED SPEAKER FROM THE WOODS HOLE MOLECULAR PARASITOLOGY MEETING HELD IN SEPTEMBER 2018. SEE THE MEETING APP FOR SPEAKER INFORMATION.

10:45 a.m.

78

ETHNICITY-RELATED MALARIAL SPLENOMEGALY: THE HYPER-REACTIVE RED CELL FILTRATION TRAIL

Benoît Henry¹, Hilaire Akpovi², Camille Roussele³, Papa Alioune Ndour⁴, Aurélie Fricot³, Mathilde Garré⁵, Julien Solinc³, Geoffroy Volle³, Charlotte Chambriou³, Nadine Fievet⁶, Jérôme Clain⁵, David Courtin⁵, André Garcia⁶, Audrey Sabbagh⁵, Pierre A. Buffet⁴

¹Institut National de la Transfusion Sanguine, UMR1134, and Centre d'Infectiologie Necker-Pasteur, Paris, France, ²Centre d'Etude et de Recherches sur le Paludisme Associé à la Grossesse et à l'Enfance, Cotonou, Benin, ³Institut National de la Transfusion Sanguine, UMR1134, Paris, France, ⁴Institut National de la Transfusion Sanguine, UMR1134, and Université Paris Descartes, Paris, France, ⁵Institut de Recherche pour le Développement, UMR216, Mère et Enfant face aux Infections Tropicales, Université Paris Descartes, Faculté des Sciences Pharmaceutiques et Biologiques, Paris, France, ⁶Institut de Recherche pour le Développement, UMR216, Mère et Enfant face aux Infections Tropicales, Université Paris Descartes, Faculté des Sciences Pharmaceutiques et Biologiques, and CERPAGE, Paris, France

11 a.m.

79

IMPACT OF MALARIA-PROTECTIVE GLYCOPHORIN POLYMORPHISM ON *PLASMODIUM FALCIPARUM* INVASION

Silvia Kariuki¹, Alejandro Marin-Menendez², Ellen Leffler², Gavin Band³, Kirk Rockett³, Alex Macharia¹, Johnstone Makale¹, Wilfred Nyamu¹, Francis Ndung'u¹, Dominic Kwiatkowski³, Thomas Williams¹, Julian C. Rayner²
¹KEMRI-Wellcome Trust Research Programme, Kilifi, Kenya, ²Wellcome Trust Sanger Institute, Cambridge, United Kingdom, ³Wellcome Trust Centre for Human Genetics, Oxford, United Kingdom

11:15 a.m.

80

GENERATION OF AN IMMORTALIZED ERYTHROID CELL LINE FROM HUMAN PERIPHERAL BLOOD FOR THE FUNCTIONAL ANALYSIS OF INVASION IN *PLASMODIUM SPECIES*

Estela Shabani¹, Erik J. Scully¹, Gabriel W. Rangel¹, Martha A. Clark¹, Mudit Chaand¹, Christof Grüning¹, Usheer Kanjee¹, Ryo Kurita², Yukio Nakamura³, Manoj T. Duraisingh¹
¹Harvard School of Public Health, Boston, MA, United States, ²Department of Research and Development, Central Blood Institute, Japanese Red Cross Society, Tokyo, Japan, ³Cell Engineering Division, RIKEN BioResource Center, Tsukuba, Ibaraki, Japan

11:30 a.m.

81

COMBINING RNA-SEQUENCING AND MATHEMATICAL MODELLING TO IDENTIFY MECHANISTIC CORRELATES OF PROTECTION IN MALARIA

Athina Georgiadou¹, Michael T. Bretscher², Hyun Jae Lee³, Michael Walther⁴, Anna E. van Beek⁵, Fadlila Fitriani¹, Diana Wouters⁵, Taco W. Kuijpers⁶, Davis Nwakanma⁴, Eleanor M. Riley⁷, Michael Levin¹, Lachlan J. Coin³, Azra Ghani², David J. Conway⁸, Aubrey J. Cunningham¹
¹Section of Pediatrics, Imperial College London, London, United Kingdom, ²Medical Research Council Centre for Outbreak Analysis and Modelling, Imperial College, London, United Kingdom, ³Institute for Molecular Bioscience, University of Queensland, Brisbane, Australia, ⁴Medical Research Council Unit, Fajara, Fajara, Gambia, ⁵Department of Immunopathology, Sanquin Research and Landsteiner Laboratory of the Academic Medical Centre, University of Amsterdam, Amsterdam, Netherlands, ⁶Department of Pediatric Hematology, Immunology and Infectious Diseases, Emma Children's Hospital, Academic Medical Centre, Amsterdam, Netherlands, ⁷The Roslin Institute, University of Edinburgh, Edinburgh, United Kingdom, ⁸Department of Pathogen Molecular Biology, London School of Hygiene & Tropical Medicine, London, United Kingdom

11:45 a.m.

82

TIMING OF HOST FEEDING DRIVES RHYTHMS IN PARASITE REPLICATION

Kimberley F. Prior, Aidan J. O'Donnell, Sarah E. Reece
University of Edinburgh, Edinburgh, United Kingdom

Monday
October 29

American Committee on Arthropod-Borne Viruses (ACAV) and American Committee of Medical Entomology (ACME) Trainee Networking Lunch Event

Marriott - Preservation Hall Studio 1/2 (2nd Floor)
Monday, October 29, Noon - 1 p.m.

These lunch table meetings, organized by the ACAV and ACME subgroups of ASTMH, aim to provide students and postdoctoral fellows an opportunity to interact with established arbovirologists and medical entomologists to discuss job opportunities, related scientific work and receive valuable career guidance and direction.

Exhibit Hall Open and Light Lunch

Sheraton - Napoleon Ballroom (3rd Floor)
Monday, October 29, Noon - 1:45 p.m.

Poster Session 22

Poster Session A: Presentations and Light Lunch

Marriott - Grand Ballroom (Third Floor)
Monday, October 29, Noon - 1:45 p.m.

Poster Session A Directory

Global Health: #83 - 110
Arthropods/Entomology – Other: #111 – 125
Mosquitoes – Insecticide Resistance and Control: #126 – 141
Mosquitoes – Vector Biology – Epidemiology: #142 – 164
Alphaviruses (Includes Chikungunya): #165 - 175
Flaviviridae – Dengue: #176 – 203
Flaviviridae – Other: #204 – 231
Viruses – Other: #232 – 249
Malaria – Biology and Pathogenesis: #250 – 263
Malaria – Chemotherapy and Drug Resistance: #264 – 280
Malaria – Diagnosis: #281 – 295
Malaria – Drug Development – Pre-Clinical Studies: #296 – 312
Malaria – Epidemiology: #313 – 340
Malaria – Genetics/Genomics: #341 – 352
Malaria – Immunology: #353 – 365
Malaria – Other: #366 – 382
Malaria – Prevention: #383 – 396
Malaria – Strategies for Elimination: #397 - 420
Malaria – Vaccines: #421 – 437
Malaria – Vector Control: #438 – 453
Bacteriology – Enteric Infections: #454 – 465
Bacteriology – Systemic Infections: #466 – 474
Cestodes - Echinococcosis/Hydatid Disease: #475 – 479
Cestodes – Taeniasis and Cysticercosis: #480 – 488
Clinical Tropical Medicine: #489 – 526

Helminths – Nematodes – Filariasis (Cellular and Molecular Biology): #527 – 532
Helminths – Nematodes – Filariasis (Other): #533 – 542
Integrated Control Measures for Neglected Tropical Diseases (NTDs): #543 – 556
Kinetoplastida – Cellular and Molecular Biology (Including *Leishmania* and Trypanosomes): #557 – 564
Kinetoplastida – Diagnosis and Treatment (Including *Leishmania* and Trypanosomes): #565 – 574
One Health: Interface of Human Health/Animal Diseases: #575 - 584
Pneumonia, Respiratory Infections and Tuberculosis: #585 – 594
Protozoa – Ameba/*Giardia*: #595 – 602
Protozoa – Other Protozoa: #603 – 609
Schistosomiasis and Other Trematodes – Epidemiology and Control: #610 – 620
Water, Sanitation, Hygiene and Environmental Health: #621 – 633

Global Health

83

SURVIVAL RIGHTS SURVEILLANCE OF CHILDREN PRESENTING TO A LARGE REFERRAL HOSPITAL IN MALAWI

Takondwa C. Chimowa¹, Medson Matchaya², Edith Kumwenda³, Patricia Khomani³, Bernadette O'Hare¹

¹University of Malawi, College of Medicine, Department of Paediatrics and Child Health, Blantyre, Malawi, ²Ministry of Health, Blantyre District Health Office, Blantyre, Malawi, ³Baobab Health Trust, Blantyre, Malawi

84

MORTALITY TRENDS FOR THE POLITICALLY VOICELESS AND THE OUTBREAK OF “PEACE”- POST-CIVIL WAR MATERNAL AND CHILD HEALTH BY PEACE TYPE, 1990-2015

Riley G. Jones¹, Rachel C. Jones², Joel M. Lanceta³, Jenevieve S. Kincaid⁴, Karoline E. Skogo-Brathen⁵

¹University of Florida, Gainesville, FL, United States, ²University of Edinburgh, Edinburgh, United Kingdom, ³University of Louisville, Louisville, KY, United States, ⁴Wilderness Medical Society, Lake Tahoe, NV, United States, ⁵King's College London, London, United Kingdom

85

PATTERN OF MEDICATION PRESCRIPTION IN PRIMARY HEALTH CARE CENTERS IN NIGERIA: IMPLICATIONS FOR SDG3 AND IN ANTI-MICROBIAL RESISTANCE

Ibanga J. Inyang

University of Uyo Teaching Hospital, Uyo, Nigeria

86

THE NEXUS OF CONFLICT, MIGRATION, AND DISEASE: A CASE STUDY OF THE CURRENT AND IMPENDING HEALTH CRISIS OF THE ROHINGYA REFUGEES IN BANGLADESH

Megan Vitek, Elliot Tenpenny

Samaritan's Purse International, Boone, NC, United States

87

LESSONS LEARNED FROM COMMUNITY ENGAGEMENT AND OUTREACH PRIOR TO INITIATION OF COMMUNITY-WIDE AUTOPSY PROGRAMS TO IMPROVE MORTALITY SURVEILLANCE, KISUMU, WESTERN KENYA

Peter N. Onyango

Kenya Medical Research Institute- Center for Global Health Research (KEMRI-CGHR), Kisumu, Kenya

88

STRENGTHENING COMMUNITY HEALTH SERVICE DELIVERY THROUGH COMPLETE HOUSEHOLD MAPPING AND CENSUS DATA, IN A CASE OF MANYATTA URBAN HDSS

Thomas Misore, Maurice Ombok, David Obor, Stephen Liech, Leonard Oyuga, Janet Agaya

Kenya Medical Research Institute (KEMRI), Kisumu, Kenya

89

DEVELOPMENT OF RUMOR SURVEILLANCE IN SUPPORT OF MINIMALLY INVASIVE TISSUE SAMPLING FOR DIAGNOSING CAUSE OF CHILD DEATH IN BANGLADESH

Md. Saiful Islam¹, Abdullah-Al Masud¹, Muhammad Faruq Hussain¹, John Blevins², Emily D. Lemon², Shams El Arifeen¹, Elizabeth A. O'Mara², Khatia Munguambe³, Emily S. Gurley⁴

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DECLINING RESPONSIVENESS OF CHILDHOOD *PLASMODIUM FALCIPARUM* INFECTIONS TO ARTEMISININ-BASED COMBINATION TREATMENTS TEN YEARS FOLLOWING DEPLOYMENT AS FIRST-LINE ANTIMALARIALS IN NIGERIA

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RE-EXPANSION OF CHLOROQUINE SENSITIVE HAPLOTYPES IN THE *P. FALCIPARUM* RESERVOIR OF INFECTION IN BONGO DISTRICT, GHANA

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PLASMODIUM FALCIPARUM TRIPLE MUTANT IN CAMBODIA: PHENOTYPIC CHARACTERIZATION OF RESISTANCE

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DURATION OF MALARIA RAPID DIAGNOSTIC TEST (RDT) POSITIVITY FOLLOWING DEFINITIVE ANTIMALARIAL TREATMENT AMONG CHILDREN IN WESTERN KENYA

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ANTIMALARIAL AND ANTISCHISTOSOMAL EFFICACY OF PYRIDOLBENZIMIDAZOLE DERIVATIVES

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IN SILICO STUDY OF PLASMODIUM 1-DEOXY-DXYLULOSE 5-PHOSPHATE REDUCTOISOMERASE (DXR) FOR IDENTIFICATION OF NOVEL INHIBITORS FROM SANADB

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DECIPHERING THE TARGETS OF RETROVIRAL PROTEASE INHIBITORS IN PLASMODIUM BERGHEI

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METABOLIC DEPENDENCY OF CHORISMATE IN PLASMODIUM FALCIPARUM

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IN SILICO CHARACTERIZATION OF PLASMODIAL TRANSKETOLASES AS POTENTIAL MALARIA DRUG TARGETS

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MANAGEMENT OF MALARIA IN NIGERIA WITH NATURAL COMPOUNDS IN RATIONAL DRUG DESIGN

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ANTIMALARIAL PANTOTHENAMIDE METABOLITES TARGET ACETYL-COA SYNTHESIS IN PLASMODIUM FALCIPARUM

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PLASMODIUM VIVAX SPOOROZOITE PLATFORM IN INDIA

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LONG-ACTING INJECTABLE ATOVAQUONE NANOMEDICINES FOR MALARIA PROPHYLAXIS

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CHARACTERIZATION OF THE MECHANISM OF RESISTANCE OF THE AMINOMETHYLPHENOL, JPC-3210 (MMV892646)

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THE AMINOMETHYLPHENOL (JPC-3210; MMV892646) IS HIGHLY EFFECTIVE IN CURING HUMAN MALARIA IN AOTUS MONKEYS FOLLOWING SINGLE ORAL DOSE ADMINISTRATION

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MALARIA PREVENTION: DEVELOPMENT OF IMPLANTABLE MALARIA CHEMOPROPHYLAXIS

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DISCOVERY OF GSK701, A NOVEL ORALLY EFFECTIVE PRECLINICAL DRUG CANDIDATE FOR THE TREATMENT OF MALARIA

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CHARACTERIZING THE RESISTANCE TO CLINICALLY-RELEVANT PLASMODIUM FALCIPARUM DIHYDROOROTATE DEHYDROGENASE INHIBITORS IN IN VITRO AND IN VIVO CONTEXTS

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INCORPORATING AN INNOVATIVE IN VITRO PLASMODIUM CYNOMOLGI ASSAY INTO THE EXPERIMENTAL THERAPEUTICS' DRUG SCREENING PARADIGM FOR THE DISCOVERY OF NOVEL COMPOUNDS AGAINST PLASMODIUM HYPNOZOITES

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Emily Caton, Elizabeth Nenortas, Rahul P. Bakshi, Theresa A. Shapiro
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EVALUATION OF ACTION OF ANTIMALARIAL DRUGS USING MICROCAPILLARY CYTOMETRY

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COMPARISON OF PROTEIN ENERGY MALNUTRITION AND P. FALCIPARUM MALARIA LEVELS IN COMMUNITY BASED EDUCATION AND SERVICE IN TWO CATEGORIES OF CENTERS IN WESTERN KENYA

Arthur V. Kwena
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THE EFFECT OF PREGNANCY-ASSOCIATED MALARIA ON INFANT GROWTH AND NEUROCOGNITIVE DEVELOPMENT

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PREVALENCE OF PLASMODIUM FALCIPARUM INFECTION AND ANTIMALARIAL RESISTANCE AMONG PREGNANT WOMEN ATTENDING ANTENATAL CARE IN MONROVIA, LIBERIA

Guillermo Martínez Pérez¹, Raquel González¹, Christine K.Tarr Attia², Azucena Bardaji¹, Adelaida Sarukhan¹, Dawoh Peter Lansana², Himanshu Gupta¹, Ana Meyer García-Sípido³, Quique Bassat¹, Alfredo Mayor Aparicio¹
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SPATIO-TEMPORAL HETEROGENEITY OF MALARIA MORBIDITY IN GHANA: ANALYSIS OF ROUTINE HEALTH FACILITY DATA

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THE USE OF GPS DATA LOGGERS TO DESCRIBE SPATIO-TEMPORAL MOVEMENT PATTERNS AND THE IMPLICATIONS FOR MALARIA CONTROL IN THREE EPIDEMIOLOGIC SETTINGS IN SOUTHERN AFRICA

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EPIDEMIOLOGY OF *PLASMODIUM VIVAX* MALARIA INFECTION IN NEPAL

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MALARIA IN THE FIRST TRIMESTER, BUT NOT IN THE 2ND AND 3RD TRIMESTER OF PREGNANCY, IS ASSOCIATED WITH MATERNAL ANEMIA: A PRE-CONCEPTIONAL COHORT STUDY IN BENIN

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HETEROGENEITY OF HUMAN EXPOSURE TO MALARIA VECTOR IN URBAN SETTING BY USING IMMUNO-EPIDEMIOLOGICAL SALIVARY BIOMARKER

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EFFECT OF THE ABO BLOOD GROUP ON SUSCEPTIBILITY TO SEVERE MALARIA AND RELATED OUTCOMES: A SYSTEMATIC REVIEW AND META-ANALYSIS

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REACTIVE CASE DETECTION AND EPIDEMIOLOGY OF *PLASMODIUM FALCIPARUM* MALARIA IN THE WESTERN KENYA HIGHLANDS

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EPIDEMIOLOGY OF MALARIA TRANSMISSION IN TWO NEIGHBORING VILLAGES IN THE RURAL COMMUNE OF ANDRIBA, MADAGASCAR

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PREVALENCE OF *PLASMODIUM FALCIPARUM* INFECTION IN MOZAMBICAN PREGNANT WOMEN

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ECONOMIC BURDEN OF MALARIA: A CASE STUDY OF WORKERS ABSENTEEISM IN A BANANA PLANTATION IN ZIMBABWE

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FALCIPARUM PREDOMINANT MALARIA OUTBREAK IN HUNKUND TALUK, BAGALKOTE DISTRICT, KARNATAKA, INDIA, 2015 TO 2016

Sree Kalpana Mohan Kumar¹, Balakrishnan Natarajan², Sunandha P.³, Nazneen N³, Harshavardhan M³, Srinivas Venkatesh⁴, Agarwal C.S⁴
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CHANGING MALARIA EPIDEMIOLOGY IN KWAZULU-NATAL, A PROVINCE IN SOUTH AFRICA TARGETING ELIMINATION BY 2020

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GAMETOCYTEMIA IN FEBRILE PATIENTS FROM DIVERSE ECO-REGIONS OF KENYA

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QUANTIFICATION OF STAGE-SPECIFIC *PLASMODIUM FALCIPARUM* GAMETOCYTE RNA TRANSCRIPTS TO EVALUATE THE IMPACT OF HIV STATUS ON GAMETOCYTEMIA IN WESTERN KENYA

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ADHERENCE TO ANTIMALARIAL TREATMENT IN THE CONTEXT OF REACTIVE CASE DETECTION IN ZANZIBAR

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PLACENTAL MALARIA AND INCIDENCE OF ANEMIA IN INFANCY

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IMPLEMENTATION OF PROACTIVE CASE DETECTION AND COMMUNITY CASE MANAGEMENT IN MODERATE MALARIA TRANSMISSION DISTRICTS IN SENEGAL, 2017

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UNDERSTANDING SUSTAINED FOCAL MALARIA TRANSMISSION IN THE PRESENCE OF REACTIVE CASE DETECTION IN RURAL SOUTHERN ZAMBIA SUSTAINED FOCAL MALARIA TRANSMISSION IN THE PRESENCE OF REACTIVE CASE DETECTION IN RURAL SOUTHERN ZAMBIA

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A COMMUNITY-RANDOMIZED TRIAL ASSESSING THE EFFECTIVENESS OF TARGETED ACTIVE MALARIA CASE DETECTION AMONG HIGH-RISK POPULATIONS IN SOUTHERN LAO PDR: STUDY DESIGN AND BASELINE SURVEY RESULTS

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UNDERSTANDING THE EPIDEMIOLOGY OF IMPORTED MALARIA CASES IN VIETNAM AMONG INTERNATIONAL LABORERS

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HEALTH CARE PROVIDERS ANTIMALARIAL PRESCRIPTION PRACTICES DURING MALARIA IN PREGNANCY IN LIBERIA

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DETERMINING THE MEAN TIME INTERVAL BETWEEN TWO SUCCESSIVE EPISODES OF MALARIA AMONGST PREGNANT WOMEN

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EVALUATION OF SEROLOGIC MARKERS OF RECENT EXPOSURE TO *PLASMODIUM VIVAX* IN A MODERATE TRANSMISSION REGION OF THE PERUVIAN AMAZONIAN

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RISK FACTORS ASSOCIATED WITH MALARIA IN-HOSPITAL DEATHS IN THREE REFERRAL HOSPITALS FROM A HIGH-BURDEN MALARIA REGION IN NORTHERN MOZAMBIQUE

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TRANSFORMING SURVEILLANCE INTO A CORE INTERVENTION; THE PATH TO BUILDING A STRONG MALARIA SURVEILLANCE SYSTEM IN UGANDA

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RTS,S/AS01 MALARIA VACCINE MISMATCH OBSERVED AMONG *P. FALCIPARUM* ISOLATES FROM SOUTHERN AND CENTRAL AFRICA AND GLOBALLY

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ANALYSIS OF WITHIN-HOST EVOLUTION OF *PLASMODIUM FALCIPARUM* DURING TREATMENT

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GENETIC CHARACTERISTICS OF *PLASMODIUM VIVAX* ISOLATED FROM NORTHERN MALI

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PARTIAL GENOME DRAFT OF *PLASMODIUM SIMIUM*, A VIVAX-LIKE PARASITE OF NEW WORLD MONKEYS

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HUMAN MIGRATION AND THE SPREAD OF MALARIA PARASITES TO THE NEW WORLD

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GENETIC VARIABILITY IN THE *PLASMODIUM VIVAX* VACCINE CANDIDATE ANTIGENS FROM CENTRAL INDIA

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COMPARING AND VALIDATING GENE CO-EXPRESSION NETWORKS IN *PLASMODIUM FALCIPARUM* PARASITE

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HUMAN MOBILITY RELATED TRANSMISSION OF NEW PARASITE GENETIC CLUSTERS IN MAZAN BASIN IN THE PERUVIAN AMAZON

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PLASMODIUM FALCIPARUM INFECTION INDUCES MEASURABLE IGA RESPONSES ON PROTEIN MICROARRAYS

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A SINGLE NUCLEOTIDE POLYMORPHISM IN A *PLASMODIUM BERGHEI* APIAP2 TRANSCRIPTION FACTOR ALTERS THE DEVELOPMENT OF HOST IMMUNE RESPONSE

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EFFECT OF ALLELIC POLYMORPHISM ON MALARIA PARASITE SPECIFIC EX VIVO IFN- γ RESPONSES TO APICAL MEMBRANE ANTIGEN 1 IN A MALARIA EXPOSED POPULATION

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CLINICAL FEATURES AND OUTCOME OF MALARIA IN CHILDREN SUFFERING FROM SICKLE CELL DISEASE: A RETROSPECTIVE DESCRIPTION OF 35 CASES

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QUALITY CONTROL AND QUALITY ASSURANCE: RECOMBINANT HUMAN G6PD PLUS HEMOGLOBIN AS A RESOURCE FOR ROBUST G6PD TESTING IN PLASMODIUM VIVAX RADICAL CURE

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MALARIA ELIMINATION IN NORTHERN AND CENTRAL LAO PDR: ASSESSING TECHNICAL, OPERATIONAL, AND FINANCIAL FEASIBILITY

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PLASMODIUM BERGHEI SERINE/THREONINE PROTEIN PHOSPHATASE PP5 IS ESSENTIAL FOR GAMETOGENESIS

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DEVELOPMENT OF METHODS CHARACTERIZING THE AMA1-RON2 COMPLEX

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CHARACTERIZATION OF FUNCTIONAL HUMAN MONOCLONAL ANTIBODIES TO *PLASMODIUM VIVAX* RETICULOCYTE BINDING PROTEIN 2B (PVRBP2B) ISOLATED FROM NATURALLY EXPOSED INDIVIDUALS

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IMMUNOGENICITY AND EFFICACY OF MALARIAL CELTOS AND CSP VACCINE ANTIGENS ADMINISTERED WITH GEL-DEPOT ADJUVANT

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A ROBUST NONHUMAN PRIMATE MODEL WITH INDUCED STERILE IMMUNITY AGAINST *PLASMODIUM VIVAX* AS A PLATFORM FOR DEVELOPING VACCINE CANDIDATES

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STRATEGIES FOR IMPROVING THE THROUGHPUT AND SENSITIVITY OF TESTING MALARIA T-CELL VACCINE ANTIGENS IN MICE

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MALARIA TRANSMISSION IN THE COMMUNITY AS MEASURED BY DIRECT SKIN FEEDS AND BY COLLECTION OF WILD MOSQUITOES DURING A VACCINE TRIAL IN BANCOUMANA, MALI

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QUALITY CONTROL OF INSECTARY REARED MOSQUITOES FOR LARGE-SCALE PRODUCTION TO SUPPORT THE ASSESSMENT OF TRANSMISSION BLOCKING VACCINES USING ARTIFICIAL FEEDS

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HEMATOLOGICAL NORMAL RANGES IN HEALTHY CHILDREN AND ADULTS FROM BANCOUMANA, MALI, A MALARIA VACCINE TESTING SITE

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NUMEROUS AUTO-DISSEMINATION STATIONS ARE REQUIRED FOR THE USE OF *ANOPHELES GAMBIAE* *SENSU LATO* IN THE TRANSFER OF LARVICIDES TO LARVAL BREEDING HABITATS

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ENTOMOLOGICAL IMPACT OF INDOOR RESIDUAL SPRAYING WITH PIRIMIPHOS-METHYL. A PILOT STUDY IN AN AREA OF LOW MALARIA TRANSMISSION IN SENEGAL

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MODELLING ALLEE EFFECTS IN A TRANSGENIC MOSQUITO POPULATION DURING RANGE EXPANSION

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THE IMPLEMENTATION AND THE IMPACT OF ADAPTING TECHNOLOGIES TO SUPPORT RESIDUAL MALARIA TRANSMISSION: A CASE STUDY IN UNGUJA, ZANZIBAR

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OXIDATIVE STRESS-INDUCED DIFFERENTIAL PACKAGING OF PROTEINS IN ENTEROTOXIGENIC ESCHERICHIA COLI OUTER MEMBRANE VESICLES AND ITS IMPACT ON HOST-PATHOGEN INTERACTIONS

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“CHOLERA CONFERENCE”: OUTBREAK DURING AN INTERNATIONAL SCIENTIFIC CONFERENCE, KENYA, 2017

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SUSCEPTIBILITY TO SYMPTOMATIC ENTEROTOXIGENIC *ESCHERICHIA COLI* INFECTIONS IN NON-SECRETOR NICARAGUAN CHILDREN

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PREVALENCE AND PHENOTYPES OF ANTIBIOTIC RESISTANCE IN *E. COLI* ISOLATED FROM THE MAL-ED BIRTH COHORT STUDY IN RURAL TANZANIA

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AR-12 AND SILDENAFIL COMBINATION THERAPY FOR THE TREATMENT OF INTRACELLULAR *S. TYPHIMURIUM* INFECTIONS

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EXTENDED SPECTRUM BETA-LACTAMASE PRODUCING *KLEBSIELLA PNEUMONIAE* BACTERAEMIA AND REDUCED SUSCEPTIBILITY TO CARBAPENEM IN LAGOS, NIGERIA

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ESTABLISHING NEONATAL AND PEDIATRIC INTENSIVE CARE UNITS, OUTREACH EDUCATION TO LOCAL HEALTH FACILITIES, AND IMPLEMENTATION OF NEONATAL RESUSCITATION PROGRAM: IMPACT ON NEONATAL AND CHILD MORTALITY AND MORBIDITY: MENDEFERA REGIONAL REFERRAL HOSPITAL, SOUTHERN REGION, ERITREA, A 6 YEARS EXPERIENCE

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THE THERAPEUTIC POTENTIAL OF ANTIBIOTICS AND VITAMIN A IN TREATING MULTIDRUG RESISTANT INVASIVE NON-TYPHOIDAL *SALMONELLA* INFECTION

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PASTEURELLA MULTOCIDA INFECTIONS IN DOG OWNERS WITH OPEN WOUNDS

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INCREASING ELECTIVE *HAEMOPHILUS INFLUENZA* TYPE B VACCINE COVERAGE IN THAILAND

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WITHIN-HOST MODELING OF *SALMONELLA* TYPHIMURIUM GROWTH DYNAMICS USING TIMER DATA

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PROGRESS TOWARD GLOBAL ADOPTION OF THE WORLD HEALTH ORGANIZATION STANDARDIZED ULTRASOUND CLASSIFICATION OF CYSTIC ECHINOCOCCOSIS

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HEALTH-RELATED QUALITY OF LIFE IN PATIENTS WITH ALVEOLAR ECHINOCOCCOSIS - A CROSS-SECTIONAL STUDY

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CHARACTERIZATION OF THE HU DENSITY OF CYSTOID LESIONS OR CYSTOID AREAS WITHIN LESIONS DUE TO HEPATIC ALVEOLAR ECHINOCOCCOSIS USING THE EMUC-CT CLASSIFICATION

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EVALUATION OF THE INTERRATER RELIABILITY IN USING THE EMUC-CT CLASSIFICATION IN A GREAT COLLECTIVE OF PATIENTS WITH HEPATIC ALVEOLAR ECHINOCOCCOSIS

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CYSTIC AND ALVEOLAR ECHINOCOCCOSIS A ZONOTIC INFECTIONS WITH DIFFERENT EPIDEMIOLOGY AND CLINICAL COURSE

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CELL-FREE DNA (CFDNA) IN URINE AS A NOVEL DIAGNOSIS FOR HUMAN NEUROCYSTICERCOSIS

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TOWARDS THE DESIGN AND OPTIMIZATION OF INTERVENTION STRATEGIES AGAINST TAENIA SOLIUM TAENIOSIS/CYSTICERCOSIS BY MULTI-MODEL COMPARISON

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ASSOCIATION BETWEEN CLINICAL-RADIOLOGICAL CHARACTERISTICS AND SUICIDAL IDEATION IN PATIENTS WITH CALCIFIED NCC AND DEPRESSION

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INVESTIGATION OF DROUGHT ASSOCIATED SCABIES OUTBREAK IN ETHIOPIA

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CERVICAL CANCER SCREENING AND TREATMENT ON THE DOMINICAN REPUBLIC/HAITIAN BORDER

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SYSTEMATIC REVIEW AND META-ANALYSIS OF THE DIAGNOSTIC ACCURACY OF LEPTOSPIROSIS LATERAL FLOW IGM POINT-OF-CARE TESTS

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USE OF ELECTRONIC HEALTH RECORDS TO IMPROVE PATIENT OUTCOMES IN RESOURCE CONSTRAINED SETTINGS

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FIVE YEAR MORTALITY AMONG CHILDREN AGED 0 TO 14 YEARS IN UNIVERSITY COLLEGE HOSPITAL, SOUTHWEST NIGERIA

Temidayo A. Fawole

University College Hospital, Ibadan, Nigeria

COST-EFFECTIVENESS OF PODOCONIOSIS LYMPHOEDEMA TREATMENT IN NORTHERN ETHIOPIA: RESULTS FROM THE GOLBET TRIAL

Annabelle Clarke¹, Natalia Hounsou¹, Meseret Molla², Henok Negussie¹, Moses Ngari³, James A. Berkley³, Esther Kivaya³, Tsige Amberbir⁴, Fikre Enquoselassie⁵, Gail Davey¹

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GUINEA-WORM DISEASE. A SYSTEMATIC REVIEW OF CASE REPORTS ABOUT THE FIRST NEGLECTED TROPICAL DISEASE TO BE ERADICATED

Diego Abelardo Álvarez Hernández¹, Rodolfo García Díaz Arana², Alberto Manuel González Chávez³, Alejandro Acuña Macouzet², Rosalino Vázquez López², Ana María Fernández Presas⁴

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SURGICAL SITE INFECTION BY MYCOBACTERIUM ABSCESSUS: LESSONS LEARNED FROM AN OUTBREAK INVESTIGATION IN BANGALORE, INDIA

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HIGHLIGHTING THE NEED FOR APPROPRIATE CASE-MANAGEMENT OF UNDER-FIVE DIARRHEA AND PNEUMONIA IN PUBLIC HEALTH FACILITIES OF UTTAR PRADESH AND BIHAR, INDIA

Ashutosh Mishra¹, Punit Mishra¹, Prince Bhandari¹, Lopamudra Ray Saraswati¹, Animesh Rai¹, Ambrish Kumar Chandan¹, Clara Burgert², Amanda Honeycutt³, Katie Moran³, Margaret Baker²

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MICRONUTRIENT LEVELS IN A PEDIATRIC UGANDAN COHORT WITH SICKLE CELL ANEMIA

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PEDIATRIC DISCHARGE FROM HOSPITAL: KENYAN HEALTHCARE WORKERS' PERCEPTIONS AND REPORTED PRACTICES

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THE IMPACT OF POLYPARASITISM ASSOCIATED WITH PREGNANCY IN LAMBARÉNI AND SURROUNDINGS AREAS IN GABON

Yabo J. Honkpehedji¹, Eliane Nguone Feugap¹, Esther Askani², Wiebke Woolfman², Rela Manego Zoleko¹, Jeannot F. Zinsou¹, Jean-Claude Dejon-Agobé¹, Yoanne D. Mouwenda¹, Madeleine E. Betouke-Ongwe¹, Fabrice L. Mouengni¹, Ghyslaine Mombo-Ngoma¹, Bertrand Lell¹, Peter G. Kremsner², Maria Yazdanbaksh³, Meral Esen², Ayöla A. Adegnikia¹

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MALNUTRITION AMONG RESIDENTS OF THE VELLORE DEMOGRAPHIC SURVEILLANCE SYSTEM, SOUTH INDIA

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PITFALLS OF PREDICTING LEPTOSPIROSIS BY COMMON CLINICAL AND BIOCHEMICAL MARKERS

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THE EFFECT OF OBSTETRIC ULTRASOUND DURING THE FIRST STAGE OF LABOR ON TIME TO DECISION MAKING ON DEFINITIVE MODE OF DELIVERY AT MBARARA REGIONAL REFERRAL HOSPITAL IN WESTERN UGANDA

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FEMALES OF HBAS GENOTYPE HAVE REDUCED CONCENTRATION OF THE MALARIA PROTECTIVE DEOXYHEMOGLOBIN S THAN MALES

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CLINICAL IMPACT OF MERCURY TOXICITY AMONG INDIGENOUS PEOPLES OF THE PERUVIAN AMAZON

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NATURAL HISTORY OF SAPOVIRUS INFECTION IN A NICARAGUAN BIRTH COHORT: THE SAPOVIRUS-ASSOCIATED GASTROENTERITIS [SAGE] STUDY

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RELATIONSHIP OF DEMOGRAPHIC VARIABLES AND CLASSIFICATION OF LEPROSY CASES IN GEORGIA SINCE THE EARLY 1900S

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ARBOVIRUS AND MALARIA CO-INFECTIONS AMONG FEBRILE KENYAN CHILDREN

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THE INTRODUCTION OF INFANT FORMULA AMONG CHILDREN FROM PERI-URBAN SHANTYTOWNS OF LIMA, PERU (1995 - 2016)

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ETIOLOGIES OF GASTRO-INTESTINAL PERFORATIONS IN KILIMANJARO, TANZANIA. PROSPECTIVE HOSPITAL-BASED SENTINEL SURVEILLANCE

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UNPRECEDENTED HUMAN INFECTION WITH RICKETTSIA PARKERI STRAIN ATLANTIC RAINFOREST IN NORTHWESTERN COLOMBIA: CASE REPORT

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CHIKUNGUNYA VIRUS OUTBREAK AND MALARIA CO-INFECTION: IMPACT ON CLINICAL MANIFESTATIONS AND DISEASE SEVERITY IN THE SOUTHERN COAST OF KENYA

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GROUP B STREPTOCOCCUS IN PREGNANCY AND NEONATAL COLONIZATION AT PRIMARY HEALTH CARE INSTITUTION NIGERIA

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NOTES ON THE WEST INDIES: GEORGE PINCKARD AND LATE 18TH CENTURY TROPICAL MEDICINE

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NO EVIDENCE OF PARASITIC INFECTION IN A SURVEY OF SCHOOL CHILDREN FROM THE MISSISSIPPI DELTA

Richard Bradbury¹, Meredith Lane¹, Irene Arguello², Gretchen Cooley¹, Sukwan Handali¹, Silvia Dimitrova¹, Sam Jameson², Kathryn Hellmann², Michelle Tharp³, Sheryl Hand⁴, Paul Byers⁴, Susan P. Montgomery¹, Lisa Haynie³, Alfio Rausa⁵, Brian Kirmse², Charlotte V. Hobbs²

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INFLUENZA-LIKE ILLNESS AND DIARRHEA RATES IN 4 CAMBODIAN VILLAGES: 5-YEAR REVIEW

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DESCRIBING THE ETIOLOGY AND EPIDEMIOLOGY OF ACUTE FEBRILE ILLNESSES IN TWO PROVINCES IN SOUTHERN CHINA

Shuyu Wu¹, Yuzhi Zhang¹, Changwen Ke², Zhonghua Yang³, Xiaofang Guo³, Lina Yi⁴, Songwang Wang⁵, Xiaopeng Qi⁵, Nicolas D. Schaad⁶, Jie Liu⁷, Barry Fields⁶, Jeanette J. Rainey¹

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UTILITY OF POINT OF CARE ULTRASOUND BY INTERNAL MEDICINE TRAINEES IN A RESOURCE-LIMITED SETTING

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ENDING MASS TREATMENT FOR LYMPHATIC FILARIASIS IN 87 HEALTH DISTRICTS IN CAMEROON

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Helminths – Nematodes – Filariasis (Cellular and Molecular Biology)**LYMPHANGIOGENIC POTENTIAL OF WITHANIA SOMNIFERA, A NOVEL THERAPEUTIC AGENT TARGETS HOST-PARASITE INTERACTION IN FILARIAL INDUCED SECONDARY LYMPHEDEMA**

Anand Setty Balakrishnan

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(ACMCIP Abstract)

EXPRESSION CLONING AND ANALYSIS OF A PUTATIVE BRUGIA MALAYI POU-HOMEODOMAIN TRANSCRIPTION FACTOR

Nicole Frumento, Steven A. Williams

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BRUGIA MALAYI C-JUN-N-TERMINAL KINASE (BMJNK) AND ITS ROLE IN PARASITIC ANTI-STRESS RESPONSES

Anna Morales, Agnieszka Chojnowski, Tamara Kreiss, Ulrich Gubler, John J. Siekierka

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(ACMCIP Abstract)

LECTINS COMPLEXED WITH CIRCULATING FILARIAL ANTIGENS IN HUMAN SERA: A SOURCE OF POTENTIAL DIAGNOSTIC TOOLS

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DEVELOPMENT OF REPEAT-BASED PCR ASSAYS FOR HIGHER SENSITIVITY DETECTION OF PLASMODIUM FALCIPARUM AND WUCHERERIA BANCROFTI

Michael F. Zulch, Nils Pilotte, Jessica R. Grant, Steven A. Williams

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THE STAGE-SPECIFIC TRANSCRIPTOME OF BRUGIA MALAYI, AEDES AEGYPTI, AND ITS WOLBACHIA ENDOSYMBIONT WBM THROUGH 16 POINTS IN THE NEMATODE LIFECYCLE

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Helminths – Nematodes – Filariasis (Other)**ONCHOCERCIAISIS: DISCOVERY OF NOVEL THERAPEUTIC AGENTS FROM SELECTED MEDICINAL PLANTS TO SUPPORT CONTROL AND ELIMINATION EFFORTS**

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A SINGLE-CENTER, FIRST-IN-HUMAN, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, PARALLEL-GROUP STUDY TO INVESTIGATE THE SAFETY, TOLERABILITY AND PHARMACOKINETICS OF ESCALATING SINGLE DOSES OF EMODEPSIDE (BAY44-4400) IN HEALTHY MALE SUBJECTS

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EXPERIMENTS TO IDENTIFY THE INTENDED USE TO DETECT ACTIVE INFECTIONS FOR THE *ONCHOCERCA VOLVULUS* URINARY BIOMARKER *N-ACETYLTYRAMINE-O,Å-GLUCURONIDE (NATOG)*

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UPDATE ON THE BIOLOGY AND ECOLOGY OF *CULICOIDES* SPECIES OF THE SOUTH-WEST REGION OF CAMEROON WITH IMPLICATIONS ON THE TRANSMISSION OF *MANSONELLA PERSTANS*

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EVALUATION OF URINARY NATOG AS BIOMARKER FOR *ONCHOCERCA* INFECTION AND/OR *ONCHOCERCA* ASSOCIATED EPILEPSY

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ELEVATED PLASMA INOSINE AND HYPOXANTHINE CONCENTRATIONS, AND URINE *C*/SCINNAMOYL GLYCINE CONCENTRATIONS AS BIOMARKERS FOR ACTIVE *ONCHOCERCA VOLVULUS* INFECTIONS

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A LONG-TERM *BRUGIA MALAYI* LYMPHATIC ENDOTHELIAL CO-CULTURE SYSTEM AND ITS VALIDATION AS AN ANTI-*WOLBACHIA* DRUG ASSESSMENT MODEL

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IMPROVING COMMUNITY VOLUNTEER ENGAGEMENT AND IMPLEMENTATION OF MASS DRUG ADMINISTRATION FOR LYMPHATIC FILARIASIS THROUGH MICROPLANNING: A CASE STUDY OF PORT-AU-PRINCE, HAITI

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COMPARISON OF LYMPHATIC FILARIASIS MASS DRUG ADMINISTRATION COVERAGE IN COASTAL REGION OF KENYA, 2016 - 2017

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ACCEPTABILITY OF A TRIPLE DRUG REGIMEN FOR ELIMINATION OF LYMPHATIC FILARIASIS: RESULTS OF A MULTICENTER COMMUNITY BASED STUDY

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Integrated Control Measures for Neglected Tropical Disease (NTDs)

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SENSUS DIAGNOSTIC CRITERIA FOR SCABIES ALLOW INTEGRATED MAPPING AND SURVEILLANCE OF NEGLECTED TROPICAL DISEASES

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DEVELOPING THE FIRST NATIONAL DATABASE AND MAP OF LYMPHATIC FILARIASIS CLINICAL CASES IN NEPAL

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AN ASSESSMENT OF MOSQUITO COLLECTION TECHNIQUES FOR XENOMONITORING OF ANOPHELINE-TRANSMITTED LYMPHATIC FILARIASIS IN GHANA

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CHALLENGES SURROUNDING THE CONTROL OF SOIL-TRANSMITTED HELMINTH INFECTIONS AND SCHISTOSOMIASIS IN THE PHILIPPINES: PERSPECTIVES OF HEALTH OFFICIALS, HEALTH WORKERS AND COMMUNITY MEMBERS IN TWO RURAL PROVINCES

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IMPACT OF PRE MDA TRAINING ON SCALING UP COVERAGE FOR MASS DRUG ADMINISTRATION- MDA FOR THE FIVE KEY NTDS IN TANZANIA

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SUCCESSFUL INTEGRATION OF A TRANSMISSION ASSESSMENT SURVEY FOR ONCHOCERCIASIS AND LYMPHATIC FILARIASIS IN FOUR DISTRICTS IN NIGERIA

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SHADOW PUPPETS AND NEGLECTED DISEASES: EVALUATING A HEALTH PROMOTION PERFORMANCE

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THE ROLE OF SOCIAL SIGNALING IN COMMUNITY DEWORMING: EVIDENCE FROM A FIELD EXPERIMENT IN KENYA

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TESTING A COMMUNITY BASED VECTOR CONTROL APPROACH FOR HUMAN AFRICAN TRYPANOSOMIASIS IN DRC

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A COMMUNITY STUDY OF THE IMPACT OF SEMIANNUAL ALBENDAZOLE ON LYMPHATIC FILARIASIS AND SOIL-TRANSMITTED HELMINTH INFECTIONS IN THE DEMOCRATIC REPUBLIC OF THE CONGO

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TARGETING THREE NEGLECTED TROPICAL DISEASES WITH ONE TRIPLE THERAPY MASS DRUG ADMINISTRATION IN FIJI IS SAFE

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STATISTICAL MODELLING OF THE RELATIONSHIP BETWEEN MICROFILARIAE AND ANTIGENAEMIA PREVALENCE OF LYMPHATIC FILARIASIS INFECTIONS

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SUSTAINABILITY ASSESSMENT OF NEGLECTED TOPICAL DISEASE PROGRAM IN ETHIOPIA

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WHO 2016 COVERAGE SURVEY GUIDELINES: A FIRST IMPLEMENTATION AND RESULTS IN TWO HEALTH DISTRICTS IN THE NORTHWEST CAMEROON

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Kinetoplastida – Cellular and Molecular Biology (Including *Leishmania* and Trypanosomes)

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COMPOSITION OF THE MICROBIOME OF CHAGAS DISEASE VECTORS AND ITS INTERACTION WITH THE PARASITE *TRYPANOSOMA CRUZI* FOR THE DEVELOPMENT OF INNOVATIVE VECTOR CONTROL STRATEGIES

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THE TRYPANOCIDAL EFFECT OF BENZNIDAZOLE IS INCREASED BY PROBENECID, A BLOCKER OF CHANNEL BASED IN PANNEXIN AND INNEXIN

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ENDOGENOUS GENE TAGGING OF PFR2 AND PFR5 IN TRYPANOSOMA CRUZI USING CRISPR/CAS9

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DEEP SEQUENCING REVEALS MULTICLONALITY AND NEW DISCRETE TYPING UNITS OF TRYPANOSOMA CRUZI IN RODENTS FROM SOUTHERN USA

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EVIDENCE FOR ASSOCIATION OF THE INTEGRATED ENDOPLASMIC RETICULUM STRESS RESPONSE WITH L. DONOVANI -INDUCED CUTANEOUS LEISHMANIASIS IN SRI LANKA

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(ACMCIP Abstract)

STUDY OF A NEWLY DISCOVERED ONCOGENIC DOMAIN OF YINP FROM LEISHMANIA SP.

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COMPARISON OF WHOLE-GENOME SEQUENCING, SANGER SEQUENCING, AND RESTRICTION FRAGMENT LENGTH POLYMORPHISM ANALYSIS FOR LEISHMANIA VIANNIA MIXED AND HYBRID INFECTION SPECIES IDENTIFICATION

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THE GP63 GENE CLUSTER IS HIGHLY POLYMORPHIC IN NATURAL LEISHMANIA (VIANNIA) BRAZILIENSIS POPULATIONS, BUT FUNCTIONAL SITES ARE CONSERVED

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Kinetoplastida – Diagnosis and Treatment (Including Leishmania and Trypanosomes)

EVALUATION OF REAL TIME PCR FOR DIAGNOSIS OF POST-KALA-AZAR DERMAL LEISHMANIASIS (PKDL) IN AN ENDEMIC FOCI OF BANGLADESH

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NOVEL TETRACYCLIC IRIDOID COMPOUNDS ISOLATED FROM MORINDA LUCIDA BENTH INDUCES CELL CYCLE ARREST, PHENOTYPIC CHANGES AND APOPTOSIS IN LEISHMANIA DONOVANI

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CAPACITY BUILDING PLATFORM FOR CLINICAL AND OPERATIONAL RESEARCH ON HUMAN AFRICAN TRYPANOSOMIASIS

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EVALUATION OF TWO NOVEL POINT OF CARE DIAGNOSTICS FOR CUTANEOUS LEISHMANIASIS

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CONGENITAL CHAGAS DISEASE: LONG TERM FOLLOW UP OF TREATED CHILDREN, PRELIMINARY REPORT

Jaime Altcheh, Samanta Moroni, Hector Freilij, Nicolas Gonzalez, Andres Bochoeyer, Alejandro Goldsman, Maria Grippo, Griselda Ballering, Guillermo Moscatelli
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NEW APTAMER-BASED BIOSENSORS FOR THE DETECTION OF CHAGAS DISEASE

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DISCOVERY OF NOVEL SMALL SYNTHETIC MOLECULES WITH ANTI-PROTOZOAN ACTIVITIES

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DIAGNOSTIC PERFORMANCE OF A RAPID DIAGNOSTIC TEST CL-DETECT FOR CUTANEOUS LEISHMANIASIS CAUSED BY *L. VIANNIA* SPECIES IN COLOMBIA

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THE CHAGAS DISEASE STUDY LANDSCAPE: PRELIMINARY ANALYSIS OF A SYSTEMATIC REVIEW OF CLINICAL TRIALS AND OBSERVATIONAL STUDIES TO ASSESS THE FEASIBILITY OF ESTABLISHING AN INDIVIDUAL PARTICIPANT-LEVEL DATA (IPD) PLATFORM

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EVALUATION OF POINT-OF-CARE TESTS FOR CUTANEOUS LEISHMANIASIS DIAGNOSIS IN AFGHANISTAN

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One Health: Interface of Human Health/Animal Diseases

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NEOTROPICAL BATS THAT CO-HABIT WITH HUMANS FUNCTION AS DEAD-END HOSTS FOR DENGUE VIRUS

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TRANSLATING PREDICTIONS OF EMERGING ZOOONOTIC VIRUSES FOR POLICYMAKERS: PERSPECTIVES FROM CAMEROON

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SPATIAL DISTRIBUTION OF *YERSINIA PESTIS* FOUND IN A SENTINEL SPECIES ACROSS THE UNITED STATES WHILE ACCOUNTING FOR SAMPLING UNCERTAINTY

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POULTRY FARMING PRACTICES IN BANGLADESH: A POTENTIAL CONTRIBUTOR TO THE EMERGENCE AND TRANSMISSION OF ANTIMICROBIAL RESISTANCE IN THE COMMUNITY

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SEROLOGIC EVIDENCE OF BAT ORTHOREOVIRUS IN SINGAPORE

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DIVERSITY AND PREVALENCE OF ARENAVIRUSES IN SMALL MAMMAL SPECIES IN SINGAPORE AND CAMBODIA

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BIOSECURITY PRACTICES IN BACKYARD POULTRY IN RURAL BANGLADESH: A MAJOR CONTRIBUTING FACTOR TO THE INCURSION OF NOVEL SUBTYPE OF AVIAN INFLUENZA AND ITS HUMAN SPILL OVER IN THE COMMUNITY

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NATIONWIDE SEROPREVALENCE AND GEOGRAPHIC DISTRIBUTION OF MURINE TYPHUS IN THAILAND

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Armed Forces Research Institute of Medical Sciences (AFRIMS), Bangkok, Thailand

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RETROSPECTIVE CASE HISTORY AND ANALYSIS OF KYASANUR FOREST DISEASE (KFD) IN INDIA

Sulagna Chakraborty, Marilyn O'Hara-Ruiz, Flavia Andrade
University of Illinois, Urbana Champaign, Champaign, IL, United States

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CHARACTERIZATION OF VIRUSES IN BATS COMMONLY HARVESTED BY HUMANS IN NAGALAND, NORTHEAST INDIA

Dolyce H.W Low¹, Pilot Dovih², Uma Ramakrishnan², Ian H. Mendenhall³
¹*National University of Singapore, Singapore, Singapore,* ²*National Centre for Biological Sciences, Bangalore, India,* ³*Duke-NUS Medical School, Singapore, Singapore*

Pneumonia, Respiratory Infections and Tuberculosis

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GREEN SYNTHESIS OF ISONIAZID-LOADED SILVER-STARCH NANOCOMPOSITE FOR THE TREATMENT OF TUBERCULOSIS

Martins Emeje
National Institute for Pharmaceutical Research and Development (NIPRD), Abuja, Nigeria

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IMPACT OF THE INTRODUCTION OF PCV7/13 ON ANTIMICROBIAL RESISTANCE IN INVASIVE PNEUMOCOCCAL DISEASE IN THE GAMBIA

Ebrima Mr secka, Rsheed Mr Slaudeen, Momodou Mr Drammeh, Momodou Mr Drammeh
Medical Research Council, Banjul, Gambia

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DIMINISHED CIRCULATING PLASMA AND ELEVATED LYMPH NODE CULTURE SUPERNATANT LEVELS OF IL-10 FAMILY CYTOKINES IN TUBERCULOUS LYMPHADENITIS

Gokul Raj Kathamuthu¹, Kadar Moideen¹, Dhanaraj Baskaran², Subash Babu¹
¹*NIH-ICER-NIRT, Chennai, India,* ²*NIRT, Chennai, India*

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EVALUATION OF THE EPIDEMIOLOGY, AETIOLOGY AND CLINICAL PRESENTATION OF ACUTE LOWER RESPIRATORY INFECTIONS AMONG CHILDREN UNDER FIVE YEARS OF AGE ADMITTED TO THE JIGME DORJI WANGCHUCK NATIONAL REFERRAL HOSPITAL IN THIMPHU, BHUTAN

Quique Bassat¹, Sophie Jullien¹, Ragunath Sharma², Kinley Tshering³, Carmen Muñoz⁴
¹*ISGlobal, Barcelona, Spain,* ²*JDWNRH, Thimphu, Bhutan,* ³*Lungtephu, Thimphu, Bhutan,* ⁴*Hospital Sant Joan de Deu, Barcelona, Spain*

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ISONIAZID AND RIFAMPICIN RESISTANCE AND PATIENT TREATMENT RESPONSE IN A TUBERCULOSIS AND HIV-1 CO-ENDEMIC POPULATION IN WESTERN KENYA

Clement Likhovole¹, Prof. Collins Ouma¹, Jeremiah Khayumbi², Wilfred Murithi², Albert Okumu², Susan Musau³
¹*Maseno University, Kisumu, Kenya,* ²*Kenya Medical Research Institute, Kisumu, Kenya,* ³*Maryland Global Initiatives Corporation, Nairobi, Kenya*

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INOCULUM DOSE DEPENDENCY OF INFLUENZA OUTCOME

Annaliese Wiens
University of Notre Dame, South Bend, IN, United States

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ACUTE RESPIRATORY INFECTIONS IN TRAVELERS RETURNING FROM AVIAN INFLUENZA AFFECTED AREAS

Kayur Mehta¹, Romy Olsha², Erik Kristjanson², Adriana Peci², Anne-Louise Winter², Jonathan B. Gubbay²
¹*The Hospital for Sick Children, Toronto, ON, Canada,* ²*Public Health Ontario, Toronto, ON, Canada*

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PREVALENCE AND RISK FACTORS FOR DEPRESSION AMONG PATIENTS WITH DRUG-RESISTANT TUBERCULOSIS IN NEPAL

Sailesh K. Shrestha
National Tuberculosis Center, Bhaktapur, Nepal

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INADVERTENT INTRAVESICAL BCG ADMINISTRATION IN NEWBORNS AT A TERTIARY CARE HOSPITAL, KARACHI

Sonia Qureshi, Rabia Hassan, Farah Naz Qamar
Aga Khan University Hospital, Karachi, Pakistan

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PREVALENCE, ASSOCIATED FACTORS AND OUTCOMES OF VENTILATOR ASSOCIATED PNEUMONIA AMONG PATIENTS IN INTENSIVE CARE UNITS AT KILIMANJARO CHRISTIAN MEDICAL CENTER

Florida J. Muro¹, George Nyamboto²
¹*KCMC, Moshi, United Republic of Tanzania,* ²*KCMUCo, Moshi, United Republic of Tanzania*

Protozoa – Ameba/Giardia

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COMPARISON AND DIAGNOSIS OF *ENTAMOEBAS* *HYSTOLYTICA*, *E. DISPAR* AND *E. MOSHKOVSKII* IN STOOL SAMPLE FROM RURAL COMMUNITY OF NEPAL

Sandeep Thapa¹, Ajaya Jang Kunwar¹, Nilam Thakur¹, Govardhan Joshi¹, Sony Shrestha¹, Rajesh Das²

¹Kathmandu Center for Genomics and Research Laboratory, Gwarko, Nepal, ²Kathmandu College of Science and Technology, Kathmandu, Nepal

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MOLECULAR CHARACTERIZATION OF *GIARDIA LAMBLIA* IN CHILDREN UNDER 5 YEARS FROM THE MANHIÇA DISTRICT, SOUTHERN MOZAMBIQUE

Augusto Messa Junior¹, Marcelino Garrine¹, Delfino Vubil¹, Sozinho Acácio¹, Tacilita Nhampossa¹, Pedro Alonso², Inácio Mandomando¹

¹Centro de Investigação em Saúde de Manhiça - CISM, Manhiça, Mozambique, ²ISGlobal, Hospital Clínic – Universitat de Barcelona, Barcelona, Spain

(ACMCIP Abstract)

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MOLECULAR DIAGNOSIS AND GENOTYPE ANALYSIS OF *CRYPTOSPORIDIUM* SP., *GIARDIA LAMBLIA* AND *ENTAMOEBAS* SP. IN DIARRHEAL STOOL FROM CHILDREN AGED LESS THAN 12 YEARS IN GHANA

Georgina I. Djameh

Noguchi Memorial Institute for Medical Research, Accra, Ghana

(ACMCIP Abstract)

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THE “BRAIN-EATING” AMOEBA: A QUANTITATIVE ASSESSMENT OF SEASONAL VARIATIONS IN *NAEGLERIA FOWLERI* AND FECAL INDICATOR BACTERIA IN LAKE PONTCHARTRAIN OF LOUISIANA

Frederica G. Lamar¹, Jia Xue¹, Bowen Zhang², Siyu Lin¹, Jennifer G. Lamori¹, Samendra P. Sherchan¹

¹Tulane University School of Public Health and Tropical Medicine, New Orleans, LA, United States, ²International Center for Climate and Global Change Research, Auburn, AL, United States

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GIARDIA/*CRYPTOSPORIDIUM* QUIK CHEK ASSAY FOR THE DETECTION OF *CRYPTOSPORIDIUM* DIARRHEA IN CHILDREN IN BANGLADESH

Mamun Kabir¹, Emtiaz Ahmed¹, Biplob Hossain¹, Masud Alam¹, Shah Nawaz Ahmed¹, Mami Taniuchi², Carol A. Gilchrist², Eric R. Houpt², A.s.g. Faruque¹, William A. Petri², Rashidul Haque¹

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IS *ENTAMOEBAS DISPAR* PATHOGENIC?

Kimberly Mergen, Noel Espina, Susan Madison-Antenucci

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IMPACT OF *GIARDIA* ON INTESTINAL MICROBIOTA AND VITAMIN B12 BIOSYNTHESIS IN PRESCHOOL CHILDREN

Rojelio Mejia¹, Ashish Damania², Philip Cooper³, Barton Slatko⁴

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VALIDATION OF A MULTIPLEX REAL-TIME PCR GASTROINTESTINAL PARASITE PANEL

Jason Kwan¹, Rachel Lau², Filip Ralevski², Andrea K. Boggild³

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Protozoa – Other Protozoa

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GENETIC DIVERSITY OF *T. VAGINALIS* ISOLATES IN WESTERN AUSTRALIA, THE NORTHERN TERRITORY OF AUSTRALIA AND SOUTHERN GHANA

Daniel S. Squire, Alan J. Lymbery, Andrea Papparini, Frances Brigg, Rca Andrew Thompson

Murdoch University, Western Australia, Australia

(ACMCIP Abstract)

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PEDIATRIC CRYPTOSPORIDIOSIS IN SUB-SAHARAN AFRICA: GAPS IN ACTIONABLE GUIDANCE FOR CLINICAL MANAGEMENT AT THE BEDSIDE

Ingrid Chen¹, Ujjini Manjunatha², Roly Gosling¹, Thierry Diagana², Jonathan Spector², Paul Kelly³

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³University of Zambia School of Medicine, Lusaka, Zambia

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GENETIC DIVERSITY OF *CRYPTOSPORIDIUM* IN A BANGLADESHI COMMUNITY

Carol A. Gilchrist¹, James A. Cotton², Cecelia Burkey¹, Tuhinur Arju³, Allissia Gilmartin¹, Ye Lin¹, Emtiaz Ahmed³, Kevin Steiner¹, Masud Alam³, Shah Nawaz Ahmed³, Sultan Uz Zaman³, Guy Robinson⁴, Mamun Kabir³, Mandy Sanders², Tahmeed Ahmed³, Rachel M. Chalmers⁴, Jennie Z. Ma¹, Rashidul Haque³, A.s.g Faruque³, Matthew Berriman², William A. Petri¹

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Singleton Hospital, Swansea, United Kingdom

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THE *THEILERIA PARVA* GENE CATALOG

Olukemi O. Ifeonu¹, Nicholas Palmateer¹, Kyle Tretina¹, Donald P. Knowles², Vish Nene³, Claudia Daubenberger⁴, Richard Bishop², Joana C. Silva¹

¹Institute for Genome Sciences, University of Maryland School of Medicine,

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and Pathology, Washington State University, Pullman, WA, United States,

³Vaccine Biosciences, International Livestock Research Institute, Nairobi,

Kenya, ⁴Swiss Tropical and Public Health Institute, University of Basel,

Basel, Switzerland

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DETECTION OF *URBANORUM* SPP. EMERGING MICROORGANISM BY AUTOFLUORESCENCE IN WET MOUNT COMPARED TO EXAMINATION WITH SALINE SOLUTION AND LUGOL IN HUMAN FECAL SAMPLES. NATIONAL INSTITUTE OF CHILD HEALTH, LIMA- PERU; APRIL TO OCTOBER 2017

Rito Zerpa¹, Jenny Alvarado², Rosario Esquivel², Nora Reyes¹

¹Instituto de Medicina Tropical, Lima, Peru, ²Instituto Nacional de Salud del Niño, Lima, Peru

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URBANORUM SPP. MICROORGANISM EMERGING IN HUMAN FECAL SAMPLES FROM THREE PERUVIAN HEALTH INSTITUTIONS, FROM OCTOBER 2017 TO MARCH 2018

Rito Zerpa¹, José María Guevara G², Flor de María Charca³, Elsa Oré³, Carmen Quispe³, Javier Soto⁴, Ana Huamán¹, Andreas Mühlbach⁵, Luis Allcahuamán⁶, Miguel Kuyoshi⁷, Juan Castro⁸

¹Instituto de Medicina Tropical, Lima, Peru, ²Hospital Nacional Daniel A. Carrión, Callao, Peru, ³Instituto Nacional de Salud del Niño, Lima, Peru, ⁴Instituto Materno Infantil San Bartolomé, Lima, Peru, ⁵Centro de Investigaciones Tecnológicas, Biomedicas y Medioambientales, Callao, Peru, ⁶Universidad Peruana Cayetano Heredia, Lima, Peru, ⁷Faculty of Medicine, San Marcos University, Lima, Peru, ⁸Universidad Científica del Sur, Lima, Peru

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INVESTIGATION OF NEURORETINAL INFILTRATION BY TOXOPLASMA GONDII IN A MOUSE MODEL OF OCULAR TOXOPLASMOSIS

Dong-Hee Kim, Hyun Beom Song
Department of Parasitology and Tropical Medicine, Seoul National University College of Medicine, Seoul, Republic of Korea

(ACMCIP Abstract)

Schistosomiasis and Other Trematodes – Epidemiology and Control

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SCHISTOSOMIASIS CONTROL IN EGGUA: COMBINING HEALTH EDUCATION, DRUG TREATMENT AND ALTERNATIVE WATER SOURCE

Chiaka Anumudu¹, Henrietta Awobode¹, Adewale Adebayo¹, Olugbenga Onile², Promise Ajide¹, John Osundiran¹, Precious Olayinka¹, Adebanke Ogunyinka¹, Raphael Isokpehi³
¹University of Ibadan, Ibadan, Nigeria, ²Elizade University, Ilara-Mokin, Nigeria, ³Bethune Cookman University, Daytona Beach, FL, United States

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ADAPTIVE STRATEGIES FOR SCHISTOSOMIASIS CONTROL AND ELIMINATION IN HETEROGENEOUS ENVIRONMENTS: A MODEL-BASED ANALYSIS OF PUBLIC HEALTH GUIDELINES

David Gurarie¹, Charles H. King¹, Nathan C. Lo², Emily Li¹
¹Case Western Reserve University, Cleveland, OH, United States, ²Stanford University, Stanford, CA, United States

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SCHISTOSOMA MANSONI INFECTION IS DYNAMIC AND INCOMPLETELY TREATED WITH SINGLE-DOSE PRAZIQUANTEL IN ADULT WOMEN

Pallavi Mishra¹, Soledad Colombe¹, Ndalloh Paul², Jane Mlingi², Inobena Tosiri², Philibert Kashangaki³, Honest Nagai³, Claudia J. de Dood⁴, Paul L. Corstjens⁴, Pytsje Hoekstra⁴, Joanna Gao¹, Julius Mngara³, Govert J. van Dam⁴, Jennifer A. Downs¹
¹Weill Cornell Medicine, New York, NY, United States, ²Bugando Medical Centre, Mwanza, United Republic of Tanzania, ³National Institute for Medical Research, Mwanza, United Republic of Tanzania, ⁴Leiden University Medical Center, Leiden, Netherlands

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PROTEASE-BASED BIOREPORTERS FOR THE DETECTION OF SCHISTOSOMA CERCARIAE

Alexander J. Webb¹, Fiona Allan², Richard Kelwick¹, Kirsten Jensen¹, Michael Templeton¹, Paul Freemont¹
¹Imperial College London, London, United Kingdom, ²Natural History Museum, London, United Kingdom

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EPIDEMIOLOGY OF FASCIOLA HEPATICA INFECTION AMONG CHILDREN IN THE ANTA PROVINCE OF CUSCO, PERU

Camille M. Webb¹, Maria L. Morales², Martha Lopez², Miguel M. Cabada¹
¹University of Texas Medical Branch, Galveston, TX, United States, ²Universidad Peruana Cayetano Heredia-University of Texas Medical Branch Collaborative Research Center, Cusco, Peru

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THE BURDEN OF SCHISTOSOMA MANSONI AND SAFETY OF PRAZIQUANTEL TREATMENT IN PRESCHOOL AGE CHILDREN FROM WESTERN KENYA

Fredrick O. Rawago, Philip Leakey, Musa Autta, Kennedy Andiego, Isaiah Omondi, Maurice Odieri, Pauline Mwinzi
Kenya Medical Research Institute, Kisumu, Kenya

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IDENTIFYING INDIVIDUAL RISK BEHAVIORS AND COMMUNITY-LEVEL CONTRIBUTIONS TO REINFECTION WITH SCHISTOSOMA MANSONI IN SCHOOL-AGED CHILDREN IN RURAL UGANDA

Suzan C. Trienekens¹, Christina L. Faust¹, Lucy Pickering², Fred Beysige³, Lazaro Mujumbusi⁴, Edith Nalwadda⁴, Candia Rowel³, Poppy H. Lamberton¹
¹Institute of Biodiversity, Animal Health, and Comparative Medicine, University of Glasgow, Glasgow, United Kingdom, ²Institute of Health and Wellbeing, College of Social Sciences, University of Glasgow, Glasgow, United Kingdom, ³Vector Control Division, Ministry of Health, Kampala, Uganda, ⁴Medical Research Council, Uganda Virus Research Institute, Entebbe, Uganda

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THE ROLE OF HIGH RISK GROUPS IN MAINTAINING SCHISTOSOMA MANSONI TRANSMISSION DESPITE OVER A DECADE OF PRAZIQUANTEL TREATMENT

Christina L. Faust¹, Arinaitwe Moses², Andrina Nankasi², Fred Besigye², Atuhire Alon², Moses Adriko², Narcis Kabatereine², Edridah Tukahebwa², Poppy H. Lamberton¹
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COMPARISON OF STOOL KATO-KATZ AND URINE POINT-OF-CARE ANTIGEN TEST TO DIAGNOSE SCHISTOSOMIASIS INFECTION IN A LOW PREVALENCE ENDEMIC AREA OF KENYA

Rebecca J. Chancey¹, Emmy K. Awino², Ryan E. Wiegand¹, Alex Mwaki², Alie Eleveld², W. Evan Secor¹, Maurice R. Odieri²
¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Safe Water and AIDS Project, Kisumu, Kenya

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NOVEL SCHISTOSOMIASIS EDUCATION PROGRAM DEVELOPED FOR CHILDREN IN THE MAROLAMBO DISTRICT, MADAGASCAR

James M. Penney¹, Jemima Henstridge-Blows², Kate Hyde², Sheena Cruikshank², Cortland Linder³, Hannah Russell⁴, Russell Stothard⁵, Stephen Spencer⁶

¹NHS, Glasgow, United Kingdom, ²The University of Manchester, Manchester, United Kingdom, ³NHS, London, United Kingdom, ⁴NHS, Reading, United Kingdom, ⁵The Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ⁶NHS, Bristol, United Kingdom

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THE PREVALENCE OF SCHISTOSOMA MANSONI INFECTION IN SNAILS IN SALVADOR, BAHIA, BRAZIL

Vanessa S. Zanardi¹, Lúcio M. Barbosa², Ronald E. Blanton³, Fabiano Simões⁴, Luciano K. Silva¹, Mitermayer G. Reis¹

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Water, Sanitation, Hygiene and Environmental Health

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QUANTITATIVE RISK ASSESSMENT OF NOROVIRUS AND ADENOVIRUS FOR THE USE OF RECLAIMED WATER TO IRRIGATE LETTUCE IN CATALONIA

Eloy Gonzales-Gustavson¹, Marta Rusiñol², Gertjan Medema³, Miquel Calvo², Rosina Girones²

¹San Marcos University, Jauja, Peru, ²University of Barcelona, Barcelona, Spain, ³KWR Watercycle Research Institute, Nieuwegein, Netherlands

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IDENTIFICATION OF EXPOSURES TO PATHOGENS CAUSING GASTROINTESTINAL DISEASE USING A ONE HEALTH APPROACH IN THE GALAPAGOS ISLANDS

Leigh E. Preston¹, Shelby Cummings¹, Gerald Parker¹, Enrique Terán²

¹Texas A&M University, College Station, TX, United States, ²Universidad San Francisco de Quito, Quito, Ecuador

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IN VITRO EVALUATION OF ANTI-SNAKE VENOM PROPERTIES OF THE ETHANOLIC EXTRACTS FROM ANNONA SENEGALENSIS (PERS) AND CINNAMOMUM ZEYLANICUM (BLUME)

Sylvester Kaminta¹, Daniel Boamah¹, Oksana Debrah¹, Abraham Quarcoo², Mark Ofosuhen³, Irene Ayi³, Heroin Blagooee¹, Nana O. Boakye³, Salomey Acheampong¹, Borge Leth Frempong¹, Dominic A. Edoh¹, Abraham K. Annan³

¹Center for Plants Medicine Research, Mampong, Ghana, Mampong, Ghana, ²Accra Technical University, Accra, Ghana, ³Noguchi Memorial Institute for Medical Research, University of Ghana, Legon, Accra, Ghana

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OUTBREAK INVESTIGATION OF FOOD POISONING AMONG PARTICIPANTS IN A WORKSHOP AT A HOTEL IN KOUDOUGOU, BURKINA FASO, NOVEMBER 2017

Hamadou P. Seogo¹, Cheick S. Compaoré¹, Brice W. Bicaba¹, Hyacinthe E. Sow¹, Denis Yelbeogo², Issaka Yameogo¹, Sonia Ouedraogo¹, Sidzabda C. Kompaoré¹, Yacouba Savadogo¹, Isaie Medah², Bernard Sawadogo³

¹Directorate of Diseases Control of Burkina Faso, Ouagadougou, Burkina Faso, ²Ministry of Health Burkina Faso, Ouagadougou, Burkina Faso, ³West Africa Field Epidemiology Training Program, Ouagadougou, Burkina Faso

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FEASIBILITY AND ACCEPTABILITY OF AN INTERVENTION WITH HAND SANITIZER USE AND RESPIRATORY HYGIENE EDUCATION IN BANGLADESHI PRIMARY SCHOOLS

Debashish Biswas¹, Katherine Roguski², Makhdam Ahmed³, Fahmida Chowdhury¹, Shahana Parveen¹, A. Danielle Iuliano²

¹International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ²The Centers for Disease Control and Prevention, Atlanta, GA, United States, ³University of Texas MD Anderson Cancer Center, Houston, TX, United States

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DETECTION OF S.T YPHI AND S. PARATYPHI A IN DRINKING WATER AT HYDERABAD, PAKISTAN: AN OUTBREAK AREA OF CEFTRIAXONE RESISTANT TYPHOID FEVER

Furqan Kabir, Fatima Aziz, Adil Kalam, Muhammad Buksh, Shahida Qureshi, Tahir Yousafzai, Sultan Karim, Farah Qamar Aga Khan University, Hospital, Karachi, Pakistan

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WHO IS SAFE; RICH OR POOR? A SANIPATH MICROBIAL ENVIRONMENTAL EXPOSURE PATHWAY ASSESSMENT IN DHAKA CITY

Nuhu Amin¹, Suraja Raj², Jamie Green², Mahbubur Rahman¹, Shahjahan Ali¹, Yuke Wang², Mohammad Aminul Islam¹, Shimul Das¹, Momenul Haque Mondol¹, Leanne Unicomb¹, Christine L. Moe²

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MEASURING IMPACT OF MENSTRUAL HYGIENE MANAGEMENT INTERVENTIONS (MHM) ON SCHOOLS ATTENDANCE AND WOMEN'S EDUCATION IN BANGLADESH

Farhana Sultana¹, Sarah Sharmin¹, Shifat Khan¹, Md Nuruzzaman¹, Farhana Akand¹, Rezwana Hossain¹, Md Rafiquzzaman¹, Mahbub Sayeed¹, Md. Hafizur Rahman¹, Md. Mesbaul Azam¹, Md. Mahbubur Rahman¹, Leanne Unicomb¹, Peter J. Winch², Stephen P. Luby³

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SIMPLE SOLUTIONS TO LARGE PROBLEMS: CLEAN WATER AND HANDWASHING LOWER DISEASE BURDEN

Daphne Pariser

Humans for Education, Rochester, NY, United States

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OCCURRENCE OF CRYPTOSPORIDIUM IN DOMESTIC WATER IN THE SOUTHERN CARIBBEAN

Akilah T. Stewart¹, Adesh Ramsubhag¹, Dave Duman Chadee¹, Adrian Cashman², Renee Ali¹

¹The University of the West Indies, St. Augustine, Trinidad and Tobago, ²Centre for Resource Management and Environmental Studies, The University of the West Indies, Cavehill, Barbados

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SILICATE PNEUMOCONIOSIS IN DOMESTIC AND WILD ANIMALS FROM THE CARIBBEAN ISLAND OF ST. KITTS

Randall T. Walker, Oscar Illanes, Pompei Bolfa

Ross University School of Veterinary Medicine, Basseterre, Virgin Islands, British

LESSONS FROM A COMMUNITY-LEVEL WATER INTERVENTION STUDY IN KARNATAKA, INDIA

Sarah L. McGuinness¹, Joanne O'Toole¹, Kavita Patil², Fraddry D'Souza², Chetan A. Gaonkar², Asha Giriyan², Andrew B. Forbes¹, Thomas B. Bovington³, Karin Leder¹

¹Monash University, Melbourne, Australia, ²The Energy and Resources Institute (TERI), Western Regional Centre, Goa, India, ³University of Rhode Island, Kingston, RI, United States

OCCUPATIONAL EXPOSURE OF HEALTH CARE WORKERS IN KINSHASA, DEMOCRATIC REPUBLIC OF THE CONGO

Kamy K. Musene¹, Nicole A. Hoff², D'Andre Spencer², Patrick Mukadi³, Joseph Wasiswa¹, Adva Gadoth², Russell Williams¹, Camille Dzogang¹, Rachel Mutombe³, Merly Tambo³, Mathais Massoko⁴, Beniot Kebela-Ilunga⁴, Emile Okitolonda-Wemakoy¹, Jean-Jacques Muyembe-Tamfum³, Anne Rimoin²

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Courses Committee Meeting

Marriott - Riverview I (41st Floor)

Monday, October 29, 12:15 p.m. - 1:30 p.m.

Kean Fellowship Committee Meeting

Marriott - Preservation Hall Studio 5 (2nd Floor)

Monday, October 29, 12:15 p.m. - 1:30 p.m.

Late-Breaker Abstract Session 23

Late-Breakers in Clinical and Applied Sciences

Marriott - Mardi Gras D (3rd Floor)

Monday, October 29, 12:15 p.m. - 1:30 p.m.

This session is specifically designed for brief presentations of new data obtained after the closing date for abstract submission. See the Late-Breaker Abstract Schedule booklet in your registration packet for the presentation schedule.

CHAIR

Barbara L. Herwaldt
Centers for Disease Control and Prevention, Atlanta, GA, United States

Noreen A. Hynes
Johns Hopkins University School of Medicine, Baltimore, MD, United States

Jason D. Maguire
Pfizer, White Plains, NY, United States

Symposium 24

Fireside Chats with Global Health Greats: The Importance of Learning From Failure

Marriott - Balcony IJK (3rd Floor)

Monday, October 29, 12:15 p.m. - 1:30 p.m.

This symposium provides a diverse group of respected leaders in global health a platform for unfiltered reflection on the importance of learning from failure. Leading figures

from the NIH, industry, and academia will share stories of failure from their own careers and reflect on the impact of their response to challenges. Rather than focusing on their achievements, they will reflect on how failed experiments have led to scientific discovery, unexpected results stimulated policy, and funding challenges illuminated new areas of research. Dr. Glass will reflect on his career at the NIH, with a focus on the challenges faced during large studies of rotavirus vaccine. Dr. Cassell will share stories from a career dedicated to TB drug development and delivery, including reflection on her experiences at the intersection of academia and industry. Dr. Meshnick will discuss how failure as a lab scientist led to a successful career as an epidemiologist. A physician trained in basic molecular and cellular biology, Dr. Agre successfully pursued the elusive Rh antigen only to find his purified Rh contaminated by an unknown polypeptide. Through persistence, good luck, and due to the wisdom of friends, failure turned into a long-sought success. The session will conclude with a moderated Q&A session that includes all four speakers.

CHAIR

Jonathan B. Parr
University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

Jessica Manning
National Institutes of Health, Bethesda, MD, United States

12:15 p.m.

LESSONS FROM ROTAVIRUS VACCINE TRIALS

Roger I. Glass
National Institutes of Health, Bethesda, MD, United States

12:30 p.m.

OVERCOMING ADVERSITY AT THE ACADEMIC-INDUSTRY INTERFACE

Gail Cassell
Harvard Medical School, Boston, MA, United States

12:45 p.m.

ROLLING WITH THE PUNCHES IN ACADEMIA: THERE'S NO SUCCESS LIKE FAILURE

Steven R. Meshnick
University of North Carolina Gillings School of Global Public Health, Chapel Hill, NC, United States

1 p.m.

EXPECT THE UNEXPECTED

Peter Agre
Johns Hopkins University, Bloomberg School of Public Health, Baltimore, MD, United States

Meet the Professors 25

Meet the Professors A: Engigmatic and Teaching Cases

Marriott - Balcony LMN (3rd Floor)

Monday, October 29, 12:15 p.m. - 1:30 p.m.

Students and trainees are especially encouraged to attend these interactive sessions, which are open to all meeting attendees. The speakers will present a clinical case of a tropical disease specific to a particular region that they

have found a challenge to manage or diagnose. The Professors will discuss how their career has developed as examples for students and trainees.

CHAIR

David Boulware
University of Minnesota, Minneapolis, MN, United States

PRESENTER

Patrick W. Hickey
Uniformed Services University, Bethesda, MD, United States

Poster Session A Viewing

Marriott - Grand Ballroom (3rd Floor)
Monday, October 29, 1:45 p.m. - 4 p.m.

Scientific Session 26

Bacteriology: Other

Sheraton - Rodrigue Gallery (1st Floor)
Monday, October 29, 1:45 p.m. - 3:30 p.m.

CHAIR

Shrish Budree
University of Cape Town, Cape Town, South Africa

Eric R. Houpt
University of Virginia, Charlottesville, VA, United States

1:45 p.m.

634

NEONATAL INFECTIONS IN LOW INCOME COUNTRIES: INCIDENCE, ETIOLOGY, RISK FACTORS AND OUTCOMES - EVIDENCE FROM A MULTICENTRIC COMMUNITY-BASED COHORT STUDY IN MADAGASCAR, SENEGAL AND CAMBODIA

Bich-Tram Huynh¹, Agathe de Lauzanne², Perlinot Herindrainy³, Laurence Borand², Elsa Kermorvant-Duchemin⁴, Muriel Vray⁵, Abdoulaye Seck⁵, Awa Ndir⁵, Michael Padget¹, Arnaud Tarantola², Sok Touch⁶, Patrice Piola², Alexandra Kerléguer², Frederique Randrianirina³, Jean-Marc Collard³, Didier Guillemot¹, Elisabeth Delarocque-Astagneau¹
¹Institut Pasteur, Paris, France, ²Institut Pasteur, Phnom Penh, Cambodia, ³Institut Pasteur, Antananarivo, Madagascar, ⁴Hôpital Universitaire Necker-Enfants malades-Université Paris Descartes, Paris, France, ⁵Institut Pasteur, Dakar, Senegal, ⁶CDC Department at Ministry of Health, Phnom Penh, Cambodia

2 p.m.

635

GUT BARRIER AND SYSTEMIC INFLAMMATION IN A MODEL OF MODERATE ACUTE MALNUTRITION

Grace Thaxton¹, Yaneth Osorio¹, Nadim Ajami², Peter Melby¹
¹University of Texas Medical Branch, Galveston, TX, United States, ²Baylor College of Medicine, Houston, TX, United States

2:15 p.m.

636

EVALUATING THE GUT MICROBIOME IN CHILDREN WITH STUNTING: FINDINGS FROM A SOUTH AFRICAN BIRTH COHORT

Shrish Budree¹, Majdi Osman², Polite Nduru¹, Mamadou Kaba¹, Caroline Zellmer², Shantelle Claasens¹, Heather Zar¹
¹University of Cape Town, Cape Town, South Africa, ²OpenBiome, Somerville, MA, United States

2:30 p.m.

637

SPATIOTEMPORAL CLUSTERS OF YAWS ON LIHIR ISLAND, PAPUA NEW GUINEA ENCOMPASS MULTIPLE VILLAGES

Eric Q. Mooring¹, Oriol Mitjà², Megan B. Murray³
¹Harvard T.H. Chan School of Public Health, Boston, MA, United States, ²Barcelona Institute for Global Health, Hospital Clinic-University of Barcelona, Barcelona, Spain, ³Harvard Medical School, Boston, MA, United States

2:45 p.m.

638

IDENTIFICATION AND CHARACTERIZATION OF A NOVEL ADHERING RECEPTOR FOR SPOTTED FEVER GROUP RHICKETTSIAE

Bin Gong
University of Texas Medical Branch, Galveston, TX, United States

3 p.m.

639

HIGH-THROUGHPUT MULTI-PARALLEL NL-QPCR CHIP FOR THE DETECTION OF 17 ENTERIC PATHOGENS

Jessica A. Grembi, Koshlan Mayer-Blackwell, Stephen P. Luby, Alfred M. Spormann
Stanford University, Stanford, CA, United States

3:15 p.m.

640

IMPACT OF ENTEROPATHOGEN INFECTION ON LINEAR GROWTH USING QUANTITATIVE MOLECULAR DIAGNOSTICS: RESULTS FROM THE MAL-ED STUDY

Elizabeth T. Rogawski McQuade¹, James A. Platts-Mills¹, Jie Liu¹, Aldo A. Lima², Gagandeep Kang³, Amidou Samie⁴, Rashidul Haque⁵, Estomih R. Mduma⁶, Margaret N. Kosek⁷, Jose Paulo Leite⁸, Ladaporn Bodhidatta⁹, Najeeha Iqbal¹⁰, Nicola Page¹¹, Ireen Kiwelu¹², Zulfiqar Bhutta¹⁰, Eric R. Houpt¹
¹University of Virginia, Charlottesville, VA, United States, ²Federal University of Ceara, Fortaleza, Brazil, ³Christian Medical College, Vellore, India, ⁴University of Venda, Thohoyandou, South Africa, ⁵International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ⁶Haydom Global Health Institute, Haydom, United Republic of Tanzania, ⁷Johns Hopkins University, Baltimore, MD, United States, ⁸Fundação Oswaldo Cruz (Fiocruz), Rio de Janeiro, Brazil, ⁹Armed Forces Research Institute of Medical Sciences (AFRIMS), Bangkok, Thailand, ¹⁰Aga Khan University, Karachi, Pakistan, ¹¹National Institute for Communicable Diseases, Johannesburg, South Africa, ¹²Kilimanjaro Clinical Research Institute, Moshi, United Republic of Tanzania

Symposium 27

Test-And-Not-Treat Strategy for Onchocerciasis Elimination in Loiasis Co-Endemic Areas: Empirical Evidence for Safe, Effective and Efficient Up-Scaling of a Promising Strategy

Sheraton - Waterbury (2nd Floor)
Monday, October 29, 1:45 p.m. - 3:30 p.m.

Mass drug administration (MDA) of ivermectin is the main strategy towards onchocerciasis elimination in Africa. However, in a large part of central Africa, this strategy cannot effectively be applied due to *Loa loa* (African eye worm) co-endemicity, because ivermectin can lead to potentially fatal, serious adverse events (SAEs) in individuals with high loiasis mf counts. MDA has been implemented with extra precautionary measures

in co-endemic areas where onchocerciasis is a major public health problem, as the benefits were considered to outweigh the risk. Yet, the uptake may have been suboptimal due to fear of side reactions. The many co-endemic areas with low onchocerciasis prevalence remain untreated until present. Alternative strategies are urgently needed to eliminate onchocerciasis in these areas. A “Test and not Treat” (TaNT) approach has been proposed as an alternative strategy, wherein the novel LoaScope (smartphone-based microscope technology) is used for the point-of-care quantification of *L. loa* microfilariae in a fingerprick blood, in order to identify individuals with >20,000 *L. loa* mf/mL of blood (at-risk for SAEs) and exclude them from ivermectin treatment. A pilot study in Okola district in Cameroon showed that TaNT is safe and feasible (Kamgno et al., *N Engl J Med* 2017; 377:2044-2052). In this study, 16,259 individuals were tested out of a target population of ~22,800, and 15,522 (95.5%) received ivermectin; 2.1% of tested individuals were excluded from ivermectin treatment because of high loiasis mf counts. No SAEs were observed. The promising findings in Okola spurred further studies to address remaining challenges in wide-scale implementation of this intervention. Innovative implementation approaches are needed for safe, effective and cost-effective up-scaling. In this symposium, leading experts present and discuss the latest research evidence. The following key topics will be addressed: 1) Lessons learned from TaNT studies in Okola and Soa district, Cameroon; 2) the cost of implementing a round of TaNT at health district level; 3) the potential use of model-based algorithms to inform where standard MDA might be used safely for oncho elimination in *Loa loa* co-endemic areas; and 4) and the potential value of biometric identification to optimize the Test and Treat process. The talks will be followed by a panel and plenary discussion. The symposium promotes a multidisciplinary dialogue between experts on the key challenges and potential solutions, thereby advancing an urgently-needed strategy for onchocerciasis elimination in loiasis co-endemic areas.

CHAIR

Wilma A. Stolk
Erasmus MC, University Medical Center Rotterdam, Rotterdam, Netherlands

Amy D. Klion
National Institutes of Health, Bethesda, MD, United States

1:45 p.m.

LESSONS LEARNED FROM TNT STUDIES IN OKOLA AND SOA DISTRICT, CAMEROON

Joseph Kamgno
Centre for Research on Filariasis and other Tropical Diseases, Yaoundé, Cameroon

2:05 p.m.

COSTS OF A TEST-AND-NOT-TREAT ROUND USING NEW TECHNOLOGY IN SOA REGION, CAMEROON

Edeltraud J. Lenk
Erasmus School of Health Policy and Management, Erasmus University Rotterdam, Rotterdam, Netherlands

2:25 p.m.

MODEL-BASED ALGORITHMS TO INFORM WHERE STANDARD MDA MIGHT BE USED SAFELY FOR ONCHO ELIMINATION IN *LOA LOA* CO-ENDEMIC AREAS

Peter J. Diggle
Lancaster Medical School, Lancaster, United Kingdom

2:45 p.m.

BIOMETRIC IDENTIFICATION TO OPTIMIZE THE TEST AND TREAT PROCESS

Sebastien Pion
Institut de Recherche pour le Développement, Montpellier, France

Scientific Session 28

Clinical Tropical Medicine I

Sheraton - Rhythms (2nd Floor)

Monday, October 29, 1:45 p.m. - 3:30 p.m.

CHAIR

Janine Danko
Walter Reed Military Medical Center, Bethesda, MD, United States

Joseph Kubofcik
National Institutes of Health, Bethesda, MD, United States

1:45 p.m.

641

CLINICAL AND LABORATORY FEATURES ASSOCIATED WITH PROGRESSION TO SEVERE DENGUE AMONG POTENTIALLY HIGH-RISK DENGUE PATIENTS HOSPITALIZED IN SOUTHERN SRI LANKA

W M D Gaya B Wijayaratne¹, C. Lakmal Fonseka¹, Ajith de S Nagahawatte¹, Champica K Bodinayake¹, Nayani P Weerasinghe¹, M Ruvini P Kurukulasooriya¹, K V Thamali Anuradha¹, Niroshan J Dahanayake¹, Vasantha Devasiri¹, Harshani A Ubeysekara², A Dharshan De Silva³, Bradley Nicholson⁴, Truls Ostbye⁵, Christopher W Woods⁵, L Gayani Tillekeratne⁵
¹University of Ruhuna, Galle, Sri Lanka, ²Provincial Director of Health Office, Galle, Sri Lanka, ³General Sir John Kothalawala Defense University, Rathmalana, Sri Lanka, ⁴Durham Veterans Affairs Medical Center, Durham, NC, United States, ⁵Duke University School of Medicine, Durham, NC, United States

2 p.m.

642

EVALUATION OF THE CARESTART™ GLUCOSE-6-PHOSPHATE DEHYDROGENASE (G6PD) RAPID DIAGNOSTIC TEST AT COMMUNITY AND HEALTH CENTER LEVEL IN CAMBODIA

Bertha Wojnarski¹, Lon Chanthap¹, Darapiseth Sea¹, Threechada Boonchan¹, Sabaitip Sriwichai¹, Soklyda Chann², Sohei Hom¹, Worachet Kuntawunginn¹, Philip Smith¹, Michele Spring¹, Mitra Feldman¹, Sokna Ly², Nichapat Uthaimongkol¹, Panita Gosi¹, Mali Ittiverakul¹, Nillawan Buathong¹, Somethy Sok³, Samon Nou², Pheaktra Oung², Nareth Kong², Vannak Pheap², Khengheang Thay², Vy Dao², Huy Rekol⁴, Lek Dysoley⁴, Mariusz Wojnarski¹, Mark Fakuda¹
¹US Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ²US Armed Forces Research Institute of Medical Sciences, Phnom Penh, Cambodia, ³Ministry of National Defense, Department of Health, Phnom Penh, Cambodia, ⁴National Center for Parasitology, Entomology and Malaria Control, Phnom Penh, Cambodia

2:15 p.m.

643

MULTIBEAD BASED ASSAY PROVIDES ONE-STEP SPECIES-SPECIFICITY FOR THE DIAGNOSIS OF FILARIAL INFECTIONS AND *STRONGYLOIDES STERCORALIS* IN TRAVELERS AND IMMIGRANTS

Joseph Kubofcik, Thomas B. Nutman
National Institutes of Health, Bethesda, MD, United States

2:30 p.m.

644

COMPARISON OF LUMINEX METHODS FOR ANALYSIS OF ANTIBODY RESPONSES AGAINST MARKERS OF VACCINE PROTECTION AND PARASITIC, WATER-BORNE AND NEGLECTED TROPICAL DISEASES

Gretchen Cooley¹, Sarah Gwyn¹, Jeffrey Priest¹, Heather Scobie¹, Eric Rogier¹, Nana Biritwum², Vitaliano Cama¹, Luis M. Camargo³, Oscar Debrah², Guilherme Maerschner Oogawa¹, Delynn Moss¹, Harran Mkocha⁴, Tallita Zamarchi³, Ryan Wiegand¹, Diana Martin¹
¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Ghana Health Services, Accra, Ghana, ³Sao Paulo University, Sao Paulo, Brazil, ⁴Kongwa Trachoma Project, Kongwa, United Republic of Tanzania

2:45 p.m.

645

IS MELIOIDOSIS A SIGNIFICANT CAUSE OF ACUTE FEBRILE ILLNESS IN BANGLADESH?

Fazle R. Chowdhury¹, Lovely Barai², Tanjila Rahman², Mili R. Saha², Md. Robed Amin³, Kaniz Fatema⁴, Bikash C. Das³, Md. Rokibul Hasan², K. M. Shahidul Islam², M. Abul Faiz⁵, Nicholas P. Day¹, Direk Limmathurotsakul⁶, David A. Dance⁷, Susanna J. Dunachie¹
¹Centre for Tropical Medicine and Global Health, Nuffield Department of Medicine, University of Oxford, Oxford, United Kingdom, ²Department of Microbiology, BIRDEM General Hospital, Dhaka, Bangladesh, ³Department of Medicine, Dhaka Medical College, Dhaka, Bangladesh, ⁴Department of Critical Care Medicine, BIRDEM General Hospital, Dhaka, Bangladesh, ⁵Dever Care Foundation, Dhaka, Bangladesh, ⁶Mahidol Oxford Tropical Medicine Research Unit, Mahidol University, Bangkok, Thailand, ⁷Lao-Oxford-Mahosot Hospital Welcome Trust Research Unit, Vientiane, Lao People's Democratic Republic

3 p.m.

646

NOVEL 3-DIMENSIONAL OPTICAL SCANNING IN THE ASSESSMENT OF PATIENTS WITH MYCETOMA

Eiman Siddig¹, Niels Liberton², Maureen van Eijnatten², Sjoerde Slaa³, Amir Farooq¹, Ahmed H. Fahal¹, Jan Wolff⁴, Eduard E. Zijlstra⁴
¹Mycetoma Research Center, Soba University Hospital, Khartoum, Sudan, ²Department of Oral and Maxillofacial Surgery, 3D Innovation Lab, VU University Medical Center, Amsterdam, Netherlands, ³Department of Oral and Maxillofacial Surgery, 3D Innovation Lab, VU University Medical Center, Amsterdam, Netherlands, ⁴DNDi, Geneva, Switzerland

3:15 p.m.

647

BRUCellosis AMONG PATIENTS WITH PERSISTENT FEVER IN A RURAL HOSPITAL IN EASTERN SUDAN

Sayda El Safi¹, Enaam El Sanousi², Hussam Elshikh¹, Nagwa El Amin¹, Alfarazdag Mohammed¹, Manar Abdel-Rahman³, Mohamed Mohamed¹, Salah Mohammed², Awad Malik¹, Abdallah Ahmed¹, Ahmed Farah⁴, Barbara Barbé⁵, Kristien Verdonck⁵, Marleen Boelaert⁵, Jan Jacobs⁶, François Chappuis⁷
¹Faculty of Medicine, University of Khartoum, Khartoum, Sudan, ²Brucella Department, Veterinary Research Institute, Khartoum, Sudan, ³Faculty of Mathematical Sciences, University of Khartoum, Sudan and College of Health Sciences, Qatar University, Qatar, Khartoum and Qatar, Sudan, ⁴Suba University Hospital, Khartoum, Khartoum, Sudan, ⁵Institute of Tropical Medicine, Antwerp, Belgium, ⁶Institute of Tropical Medicine and Department of Microbiology and Immunology, KU Leuven, Antwerp and Leuven, Belgium, ⁷Division of Tropical and Humanitarian Medicine, Geneva University Hospitals, Geneva, Switzerland

Scientific Session 29

Chikungunya and Other Alphaviruses

Sheraton - Grand Ballroom A/B (5th Floor)
Monday, October 29, 1:45 p.m. - 3:30 p.m.

CHAIR

Angela Bosco-Lauth
Colorado State University, Fort Collins, CO, United States

Randall Waechter
St. George's University, St. George's, Grenada

1:45 p.m.

648

PHASE 2 CLINICAL RESULTS - CHIKUNGUNYA VACCINE BASED ON MEASLES VECTOR (MV-CHIK) INDUCES HUMORAL AND CELLULAR RESPONSES IN THE PRESENCE OF PRE-EXISTING ANTI MEASLES IMMUNITY

Katrin Ramsauer¹, Emil Reisinger², Christa Firbas³, Ursula Wiedermann-Schmidt⁴, Eckehard Beubler⁵, Judith Aberle⁶, Matthias Müllner¹, Andrea Pfeiffer¹, Raimund Vielnascher¹, Erich Tauber¹
¹Themis Bioscience GmbH, Vienna, Austria, ²Universitätsmedizin - Klinik und Poliklinik der Universität Rostock, Rostock, Germany, ³Medical University of Vienna - Department of Clinical Pharmacology, Vienna, Austria, ⁴Medical University of Vienna - Institute of Specific Prophylaxis and Tropical Medicine Research, Vienna, Austria, ⁵Medizinische Universität Graz - Institut für Experimentelle und Klinische Pharmakologie, Vienna, Austria, ⁶Medical University of Vienna - Department of Virology, Vienna, Austria

2 p.m.

649

AUTOCIDAL GRAVID OVI TRAPS LIMIT INTRA-COMMUNITY TRANSMISSION OF CHIKUNGUNYA VIRUS

Tyler M. Sharp¹, Olga Lorenzi¹, Brenda Torres-Velasquez¹, Veronica Acevedo¹, Janice Perez-Padilla¹, Aidsa Rivera¹, Gabriela Paz-Bailey¹, Brad J. Biggerstaff², Jorge Munoz-Jordan¹, Steve H. Waterman¹, Roberto Barrera¹
¹Centers for Disease Control and Prevention, San Juan, PR, United States, ²Centers for Disease Control and Prevention, Fort Collins, CO, United States

2:15 p.m.

650

TRANSMISSION OF CHIKUNGUNYA VIRUS USING TERRAFORMA ARTIFICIAL ECOSYSTEMS

Angela Bosco-Lauth, Airn Hartwig, Paul Gordy, Richard Bowen
Colorado State University, Fort Collins, CO, United States

2:30 p.m.

651

IMPAIRED EXPRESSIVE LANGUAGE IN 24-MONTH-OLD INFANTS EXPOSED TO THE CHIKUNGUNYA VIRUS IN EARLY CHILDHOOD

Randall Waechter¹, Nikita Cudjoe², Trevor Noël¹, Amy Krystosik³, Ashlee Watts², Bianca Punch², Hayley Crandell², Rashida Isaac², Toni Murray², Elbernezer Andrew², Veronica Mapp-Alexander², Shadona Baptiste², Priyanka Suresh³, George Mitchell⁴, Barbara Landon¹, Michelle Fernandes⁵, Patrick Gerardin⁶, Calum Macpherson¹, A. Desiree LaBeaud³
¹St. George's University, St. George's, Grenada, ²Windward Islands Research and Education Foundation, St. George's, Grenada, ³Stanford University, Stanford, CA, United States, ⁴Grenada Ministry of Health, St. George's, Grenada, ⁵John Radcliffe Hospital, University of Oxford, Oxford, United Kingdom, ⁶Centre Hospitalier Universitaire de la Réunion, Saint-Paul, Réunion

2:45 p.m.

652

A BRIEF HISTORY OF TIME AND ORIGIN OF CHIKUNGUNYA VIRUS SPREAD IN THAILAND AND PHILIPPINES

Irina Majjkovic Berry¹, Chonticha Klungthong², Wiriya Rutvisuttinunt¹, Piyawan Chinnawirotpisan², Damon W. Ellison², Butsaya Thaisomboonsuk², Prapapun Ong-ajchaowler², Maria Theresa Alera², Anon Srikiatkachorn³, Sarunyou Chusri⁴, In-Kyu Yoon⁵, Richard G. Jarman¹, Louis R. Macareo²
¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ³University of Rhode Island, Providence, RI, United States, ⁴Prince of Songkla University, Songkla, Thailand, ⁵International Vaccine Institute, Seoul, Republic of Korea

3 p.m.

653

SOCIAL AND ENTOMOLOGICAL DRIVERS INTERCONNECT IN DRIVING SPATIAL PROPAGATION OF CHIKUNGUNYA VIRUS IN BANGLADESH

Quirine Astrid ten Bosch¹, Henrik Salje¹, Kishor K. Paul², Abu Mohd Naser², Mahmudur Rahman³, James D. Heffelfinger⁴, Shafiul Alam², H.m. Al-Amin², Ziaur Rahman², Sayma Afroj², Derek Cummings⁵, Repon C. Paul², Stephen P. Luby⁶, Emily S. Gurley⁷, Simon Cauchemez¹
¹Institut Pasteur - Paris, Paris, France, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ³Institute for Epidemiology, Disease Control and Research, Dhaka, Bangladesh, ⁴US Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁵University of Florida, Gainesville, FL, United States, ⁶Stanford University, Stanford, CA, United States, ⁷Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

3:15 p.m.

654

IDENTIFICATION OF POSSIBLE MAYARO VIRUS VECTORS

Marco Brustolin, Sujit Pujhari, Cory Henderson, Jason L. Rasgon
The Pennsylvania State University, University Park, PA, United States

Symposium 30

A Roadmap for Ivermectin as a Complementary Vector Control Tool for Malaria

Sheraton Grand Ballroom C (5th Floor)
Monday, October 29, 1:45 p.m. - 3:30 p.m.

Ivermectin is a licensed drug with an excellent safety profile that has been broadly used against human onchocerciasis, lymphatic filariasis and other Neglected Tropical Diseases (NTDs) through intermittent, single dose, Mass Drug Administration (MDA) Campaigns, as well as treatment of helminths in cattle. The recognition that mosquitos that feed on humans and other mammals treated with ivermectin suffer both direct (death) and indirect (changes in behavior) effects has led to increased interest in the potential use of ivermectin as an adjunct vector control tool for malaria, particularly in the context of residual transmission. A Preferred Product Characteristics document (PPC) was published by WHO, and Ivermectin is now included in the range of priority TPPs for Medicines for Malaria Venture as TCP6. However, the malaria community still lacks clarity on critical issues related to the development pathway, particularly the dose and drug regimen, as well as the specific studies, guiding regulatory processes and policy pathway that

would lead to licensure and effective use of ivermectin as a complementary vector control tool to reduce malaria transmission. There are a small number of ongoing trials with varying designs, regimens, endpoints, and sources of funding. Should it meet all milestones, the pathway to financing ivermectin needs to be established for the malaria indication, since it is currently donated for NTDs MDAs. In addition, clarification of clinical and regulatory pathway could facilitate development of novel candidates that could offer superior performance (longer half-life, for example) in the longer term. ISGlobal is currently leading a process to bring the community together to develop the Ivermectin Roadmap as a novel tool for malaria. The Roadmap reflects the work of 35 experts in their fields, covering clinical trials, entomology, drug development, vector tool development, malaria and veterinary medicine, ethics, industry, social scientists, program implementers, past NMCP directors, NTD specialists, and modelers. This symposium will present the results of this process including: (a) the proposed roadmap (b) key issues to be resolved (c) proposed go/no-go criteria.

CHAIR

Regina Rabinovich
Harvard T.H. Chan School of Public Health, Boston, MA, United States
Fred Binka
University of Health and Allied Sciences, Hohoe, Ghana

1:45 p.m.

IVERMECTIN ROADMAP: EFFICACY AND SAFETY WORKSTREAMS IMPLICATIONS FOR THE REGULATORY PATHWAY

Carlos Chaccour
ISGlobal Barcelona Institute for Global Health, Barcelona, Spain

2:05 p.m.

IVERMECTIN ROADMAP: ENHANCING IMPACT FROM ONE HEALTH STRATEGIES

Cassidy L. Rist
Virginia-Maryland College of Veterinary Medicine at Virginia Tech, Blacksburg, VA, United States

2:25 p.m.

IVERMECTIN ROADMAP: ALIGNING WITH NTDs

Frank O. Richards
The Carter Center, Atlanta, GA, United States

2:45 p.m.

IVERMECTIN ROADMAP: SUPPLY, POLICY AND FINANCING OPPORTUNITIES

Jessica M. Rockwood
International Public Health Advisors, Kensington, MD, United States

Monday
October 29

Symposium 31

ASTMH Committee on Global Health (ACGH) Symposium I: The Local-Global Phenomenon of mHealth: How and Why Global Health Starts at Home

Sheraton - Grand Ballroom D/E (5th Floor)
Monday, October 29, 1:45 p.m. - 3:30 p.m.

The term “global health” is colloquially associated with the health of those living in developing countries, implying that international travel is necessary to carry out the duties of global health career. However, the true definition applies to improving health and achieving health equity in people worldwide, including the United States. Despite being a wealthy country, the public health infrastructure of the United States has suffered from systematic cuts in funding in recent years. These cuts in funding have been reflected in some U.S. communities by higher rates of infectious disease such as HIV in inner cities and TB in rural southwestern U.S. communities; and lower level of preparedness for natural emergencies. These populations are vulnerable to a patchwork system of for-profit access, co-payments, and government-funded safety nets in order to meet their basic health requirements. Using innovative technology and communications platforms, the role that global health practitioners can play at home – via tele-mentoring or mhealth applications – is essential to strengthening domestic health systems. This symposium addresses trainee opportunities in global health in the U.S. by creating a setting in which participants can hear about disruptive technologies being applied in domestic and international health inequity settings. The overarching goal is to teach participants how to identify global health inequity in the U.S. and to appreciate novel technologies to address these problems.

CHAIR

Jessica Manning
National Institutes of Health, Bethesda, MD, United States

Katherine Taylor
University of Notre Dame, Notre Dame, IN, United States

Ramin Asgary
George Washington University School of Public Health and Weill Cornell Medical College, New York, NY, United States

1:45 p.m.
**FROM BOTSWANA TO BALTIMORE: LEVERAGING
GLOBAL DIGITAL HEALTH INNOVATIONS TO OVERCOME
DOMESTIC HEALTH SYSTEM CHALLENGES**

Alain B. Labrique
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

2:05 p.m.
**THE ECHO TELEHEALTH MODEL: BRIDGING THE GAP
IN HEALTH EQUITY FOR RURAL AND UNDERSERVED
COMMUNITIES IN THE U.S. AND GLOBALLY**

Bruce Baird Struminger
University of New Mexico Health Sciences Center, Albuquerque, NM, United States

2:25 p.m.
**UTILIZATION OF MHEALTH IN GLOBAL HEALTH SECURITY
AND CONSIDERATIONS ON HOW TO APPLY TO U.S.
DOMESTIC PROBLEMS**

Wuleta Lemma
Tulane University, New Orleans, LA, United States

2:45 p.m.
ACGH ANNUAL BUSINESS MEETING

Ramin Asgary
George Washington University School of Public Health and Weill Cornell Medical College, New York, NY, United States

3:15 p.m.
NETWORKING AND SOCIAL TIME

Symposium 32

Integration for Impact: Preventing Typhoid through Policy, Vaccines and WASH

Marriott - La Galerie 1/2 (2nd Floor)
Monday, October 29, 1:45 p.m. - 3:30 p.m.

A centuries-old disease, typhoid still results in nearly 12 million cases and more than 128,000 deaths globally each year, mostly among children and young adults in Asia and sub-Saharan Africa. The threat of the disease is not diminishing, but growing. A convergence of new factors is elevating the urgency for better prevention and control of typhoid, including increasing drug resistance, urbanization, and climate change. Over the last year, researchers, healthcare workers, advocates and decision-makers have answered the call for new tools to prevent typhoid. One new tool is the typhoid conjugate vaccine (TCV). These vaccines have the advantages of providing longer-lasting protection, requiring fewer doses, and being suitable for children younger than two years of age, unlike currently licensed typhoid vaccines. Recent global policy decisions have started to layout a framework for typhoid prevention using new TCVs. The first TCV, Typbar-TCV, achieved WHO prequalification in December, 2018 and Gavi, the Vaccine Alliance, has committed \$85M to support its introduction in low-income countries. Additionally, the WHO recommended TCV to control endemic and epidemic disease in a revised position paper on typhoid vaccines in March, 2018. The policies are in place paving the way for TCVs to be accessible and available in low-income countries where the burden of typhoid is greatest. But TCVs can't do it alone. Typhoid prevention and control requires safe water, sanitation, and hygiene (WASH) interventions. Integrating TCVs with WASH can maximize impact, reduce costs, and increase efficiency of resources and programming to take on typhoid. This symposium will share the impact of new and integrated prevention and control methods on addressing typhoid alongside the policy decisions to make these tools accessible to all that need them. The objectives of the symposium are to provide insight into typhoid prevention methods integrating vaccines and WASH, share the first results from TCV campaigns in India and Pakistan, and highlight next steps for countries to utilize global policy to access TCVs.

CHAIR

Denise Garrett
Sabin Vaccine Institute, Washington, DC, United States

Adwoa Bentsi-Enchill
World Health Organization, Geneva, Switzerland

1:45 p.m.

FIRST PUBLIC SECTOR INTRODUCTION OF THE NEW TYPHOID CONJUGATE VACCINE IN NAVI MUMBAI, INDIA

Kashmira Date
U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States

2 p.m.

SAFETY OF TCV USED AS AN OUTBREAK RESPONSE IN CEFTRIAXONE RESISTANT TYPHOID IN HYDERABAD

Farah Qamar
Aga Khan University, Karachi, Pakistan

2:15 p.m.

TYPHOID PREVENTION AND CONTROL: WHAT'S WASH GOT TO DO WITH IT

Eric Mintz
US Centers for Disease Control and Prevention, Atlanta, GA, United States

2:30 p.m.

DECISION-MAKING ON TYPHOID VACCINES AT THE COUNTRY LEVEL: EVIDENCE, ACTION AND SUSTAINABILITY

Kathleen Neuzil
University of Maryland School of Medicine, Baltimore, MD, United States

2:45 p.m.

THE PROCESS AND POLICY IMPACT OF INTRODUCING TYPHOID CONJUGATE VACCINES IN ENDEMIC COUNTRIES

Sarah Lindsay
Sabin Vaccine Institute, Washington, DC, United States

Scientific Session 33

Case Detection for Malaria Elimination

Marriott - La Galerie 3 (2nd Floor)

Monday, October 29, 1:45 p.m. - 3:30 p.m.

CHAIR

Ingrid Felger
Swiss Tropical and Public Health Institute, Basel, Switzerland

Julia Mwesigwa
MRC Unit The Gambia at London School of Hygiene & Tropical Medicine, Banjul, Gambia

1:45 p.m.

655

REACTIVE CASE DETECTION FOR THE ELIMINATION OF MALARIA IN CAMBODIAN FOREST GOERS: RESULTS FROM THE PACES TRIAL

Shunmay Yeung¹, Po Ly², Nicola James¹, Huy Rekol², Siv Sovannaroeth², David Bath¹, Thavrin Bounkheng³, Benoit Witkowski⁴, Soy Ti⁵
¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²Cambodia National Center for Malaria, Parasitology and Entomology, Phnom Penh, Cambodia, ³Cambodia National Center for Malaria, Parasitology and Entomology School of Hygiene and Tropical Medicine, Phnom Penh, Cambodia, ⁴Institut Pasteur Cambodia, Phnom Penh, Cambodia, ⁵Centre for Health and Social Development, Phnom Penh, Cambodia

2 p.m.

656

THE COST OF ACTIVE CASE DETECTION FOR MALARIA ELIMINATION: FINDINGS FROM THE PACES CLUSTER-RANDOMIZED TRIAL IN CAMBODIA

Blandine Binachon¹, David Bath¹, Po Ly², Siv Sovannaroeth², Soy Ti³, Shunmay Yeung¹
¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²Cambodia National Center for Malaria, Parasitology and Entomology, Phnom Penh, Cambodia, ³Center for Health and Social Development, Phnom Penh, Cambodia

2:15 p.m.

657

RESULTS FROM THE CORE TRIAL IN SOUTHERN PROVINCE, ZAMBIA, COMPARING TWO REACTIVE RESPONSES IN A QUEST TO ACCELERATE ELIMINATION OF MALARIA

Daniel J. Bridges¹, John M. Miller¹, Victor Chalwe², Hawela Moonga³, Busiku Hamainza³, Richard W. Steketee⁴, Brenda Mambwe¹, Conceptor Mulube¹, Chris Drakeley⁵, Sandra Chishimba¹, Mulenga Mwenda-Chimfwembe¹, Kafula Silumbe¹, Jenala Nyangu¹, David A. Larsen⁶
¹PATH Malaria Control and Elimination Partnership in Africa (MACEPA), Lusaka, Zambia, ²Zambia Ministry of Health, Provincial Medical Office, Mansa, Zambia, ³National Malaria Elimination Centre, Zambia Ministry of Health, Lusaka, Zambia, ⁴PATH Malaria Control and Elimination Partnership in Africa (MACEPA), Seattle, WA, United States, ⁵London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁶Syracuse University Department of Public Health, Food Studies and Nutrition, Syracuse, NY, United States

2:30 p.m.

658

REACTIVE CASE DETECTION FOR MALARIA ELIMINATION IN ZANZIBAR - SYSTEM EFFECTIVENESS AND COST

Logan Stuck¹, Fakh Bakar², Abdul-Wahid Al-Mafazy³, Abdullah Ali³, Manuel Hetzel⁴, Joshua Yukich¹
¹Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States, ²Ifakara Health Institute, Dar es Salaam, United Republic of Tanzania, ³Zanzibar Malaria Elimination Programme, Zanzibar, United Republic of Tanzania, ⁴Swiss Tropical and Public Health Institute, Basel, Switzerland

2:45 p.m.

659

PRO-ACTIVE CASE DETECTION IN AN AREA OF ARTEMISININ RESISTANCE: IDENTIFYING ASYMPTOMATIC CARRIERS AND ACCELERATING ELIMINATION EFFORTS

Neil J. Saad¹, Caroline De Cramer¹, Sokha Thoang¹, Vuthea Van¹, Lieven Vernaeve¹, William Etienne², Rekol Huy³, Chea Nguon³, Nimol Khim⁴, Benoit Witkowski⁴, Jean-Marie Kindermans⁵, Martin De Smet⁵
¹Médecins Sans Frontières, Preah Vihear, Cambodia, ²Médecins Sans Frontières, Phnom Penh, Cambodia, ³Centre for Parasitology, Entomology and Malaria Control, Phnom Penh, Cambodia, ⁴Institut Pasteur du Cambodge, Phnom Penh, Cambodia, ⁵Médecins Sans Frontières, Brussels, Belgium

3 p.m.

660

EVALUATION OF A NEW HIGHLY-SENSITIVE RAPID DIAGNOSTIC TEST FOR REACTIVE CASE DETECTION IN RAKHINE STATE, MYANMAR

San K. Khine¹, Kyaw M. Tun², Kay T. Han³, Zay Y. Han³, Thant K. Oo⁴, Aung Thi⁵, Aye Nyein⁵, Nay Y. Lin⁵, Zaw M. Tun⁵, Saw Lwin⁶, Khin T. Win², Feliciano Monti⁷, Jimee Hwang⁸, Nelli Westercamp⁸, Daniel J. Martinez⁹, Zaw W. Thein⁹, Thura Htay⁹, Poe P. Aung⁹, Christopher V. Plowe⁹, **Myaing M. Nyunt**⁹
¹Vector Borne Disease Control, Rakhine State, Myanmar Ministry of Health and Sports, Sittwe, Myanmar, ²University Research Corporation, Yangon, Myanmar, ³Department of Medical Research, Myanmar Ministry of Health and Sports, Yangon, Myanmar, ⁴University Research Corporation, Washington, DC, United States, ⁵National Malaria Control Program, Myanmar Ministry of Health and Sports, Nay Pyi Taw, Myanmar, ⁶University Research Corporation, Washington, DC, United States, ⁷President's Malaria Initiative, United States Agency for International Development, Yangon, Myanmar, ⁸U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁹Duke Global Health Institute, Durham, NC, United States

3:15 p.m.

661

HOW RELEVANT IS ULTRA-SENSITIVE MALARIA DIAGNOSTICS FOR MALARIA ELIMINATION?

Natalie E. Hofmann¹, Maria Gruenberg¹, Elma Nate², Alice Ura², Daniela Rodriguez-Rodriguez¹, Ivo Mueller³, Thomas A. Smith¹, Moses Laman², Leanne J. Robinson⁴, Ingrid Felger¹
¹Swiss Tropical and Public Health Institute, Basel, Switzerland, ²Papua New Guinea Institute for Medical Research, Madang, Papua New Guinea, ³Institut Pasteur, Paris, France, ⁴Burnet Institute, Melbourne, Australia

Symposium 34

The 16th Annual American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) Symposium: Parasite Reservoirs: Extent, Utility and Relevance to Disease Eradication

Marriott - La Galerie 4/5/6 (2nd Floor)
Monday, October 29, 1:45 p.m. - 3:30 p.m.

Supported with funding from the Burroughs Wellcome Fund

An increasing number of parasite diseases are being targeted for elimination. However, modeling has established that in many areas approaching elimination goals set by the World Health Organization, either asymptomatic patients or animal reservoirs provide sufficient parasites to maintain disease transmission. Better understanding of infection incidence within reservoirs and to what extent they contribute to human disease will be critical in achieving elimination/eradication goals. Parasitic infection of reservoirs can be used to measure the effects of public health interventions. For example, in situations where the number of cases and/or ethical concerns dictate that a human clinical trial is not feasible, use of data from an animal disease model or reservoir used under the Food and Drug Administration "animal rule" can aid in bringing a product forward to licensing. This session will explore the role and utility of parasite reservoirs in elimination science. The symposium will highlight instances where use of a reservoir host provides critical tools for intervention and where robust parasite burdens in reservoirs are directly affecting,

and in some instances hindering, disease elimination. The topics will span the full breadth of fundamental parasitology covered by ACMCIP; the surprise appearance of a reservoir host for Guinea worm and how genomics can be used to track human-reservoir infection cycles; the cellular and molecular mechanisms behind how different mammalian species have developed serum resistance to Trypanosomatid species; Genetic similarities and differences between classical and novel species of zoonotic malaria and their impact on human disease control; and use of canine reservoir interventions to test new immunomodulatory approaches for controlling visceral leishmaniasis.

CHAIR

Christine Petersen
University of Iowa, Iowa City, IA, United States
Michael Ferdig
University of Notre Dame, South Bend, United States

1:45 p.m.

POPULATION GENOMICS OF GUINEA WORM ERADICATION

James Cotton
Sanger Institute, Cambridge, United Kingdom

2:05 p.m.

THE ARMS RACE BETWEEN HOST AND PARASITE: SERUM RESISTANCE IN ZOONOTIC TRYPANOSOMES

Jayne Raper
Hunter College, NYC, United States

2:25 p.m.

USE OF POPULATION GENETIC STUDIES TO UNDERSTAND ZOONOTIC MALARIA

David Conway
London School of Hygiene & Tropical Medicine, London, United Kingdom

2:45 p.m.

RESERVOIR VACCINATION TO CHANGE THE COURSE OF LEISHMANIA INFANTUM INFECTION

Christy Petersen
University of Iowa, Iowa City, IA, United States

3:05 p.m.

ACMCIP ANNUAL BUSINESS MEETING

Christine Petersen
University of Iowa, Iowa City, IA, United States

Symposium 35

Pathophysiology and Treatment of Severe Malaria

Marriott - Mardi Gras D (3rd Floor)
Monday, October 29, 1:45 p.m. - 3:30 p.m.

Despite global efforts to push back malaria, severe malaria mortality remains high. In 2016, close to half a million deaths were attributed to malaria infection. As parenteral artesunate is now established as the best drug to treat severe falciparum malaria, further gains in reducing case fatality may be made by the development of adjunctive therapies. Recent studies on the mechanism

of disease of severe malaria support the identification of new therapeutic targets. Understanding parasite biology within the human host is pivotal for the development of adjunctive treatments. Clinical manifestations of severe malaria start to occur following rapid expansion of the *Plasmodium falciparum* biomass inside the bloodstream. Sequestration of infected red cells in the microcirculation of vital tissues precipitates organ failure. The spleen, with its complex architecture and physiology, plays an essential role in mechanically clearing parasites from the bloodstream and limiting the burden of infection. This symposium will highlight recent advances in the study of the spleen and its role in the development of disease, and explain how a fine understanding of parasite clearance mechanisms during severe malaria enables a better management post-treatment hemolysis that occurs in a proportion of travelers treated with artesunate. As the asexual stages of the parasite mature, the majority of infected red cells disappear from the circulation and adhere to the endothelium of the microvasculature. Recent insights into measuring and modelling this hidden sequestered biomass and determining its relation to severity of disease are presented. The microvascular network of the intestines is a preferential site for parasite sequestration. Here, gut translocation can occur leading to concomitant bacteraemia and metabolic acidosis. Changes in the gut microbiome may predispose to these systemic complications. Recent findings from profiling the 16S rRNA composition of the gut microbiota from patients with severe malaria will be presented. Upon schizogony and rupture of the infected red cell, merozoites re-enter the bloodstream and continue the malaria life cycle. Ongoing intravascular haemolysis is a major source of oxidative stress and endothelial activation and particularly harmful for the kidneys. Paracetamol may prevent the pathogenic effects of both processes and has been studied as an adjunctive therapy in severe malaria. The session will present new insights into hemolysis and the pathophysiology of severe knowlesi and falciparum malaria, and the clinical trials that have addressed this.

CHAIR

Arjen M. Dondorp
Mahidol-Oxford Tropical Medicine Research Unit, Bangkok, Thailand
Katherine Plewes
Mahidol-Oxford Tropical Medicine Research Unit, Bangkok, Thailand

1:45 p.m.

NOVEL INSIGHTS INTO SPLEEN PHYSIOLOGY IN FALCIPARUM MALARIA

Benoît Henry
National Institute of Blood Transfusion, France; Necker Hospital, Paris, France

2:05 p.m.

MEASURING THE HIDDEN SEQUESTERED PARASITE BIOMASS

Hugh W. Kingston
Mahidol-Oxford Tropical Medicine Research Unit, Bangkok, Thailand

2:25 p.m.

THE ROLE OF THE HUMAN GUT MICROBIOTA IN SEVERE MALARIA ACIDOSIS

Stije J. Leopold
Mahidol-Oxford Tropical Medicine Research Unit, Bangkok, Thailand

2:45 p.m.

NEW INSIGHTS INTO THE CONSEQUENCES OF HAEMOLYSIS IN SEVERE KNOWLESI MALARIA: IMPLICATIONS FOR TREATMENT

Bridget Barber
Menzies School of Health Research, Darwin, Australia

Symposium 36

Infectious Disease Research in Vulnerable Populations: Evaluating the Role of Novel Diagnostics

Marrott-Mardi Gras EFGH (3rd Floor)

Monday, October 29, 1:45 p.m. - 3:30 p.m.

Conducting research on infectious diseases affecting vulnerable populations in resource-constrained settings presents special challenges for scientists. Vulnerable populations comprise refugees and displaced people, migrants, prisoners, indigenous peoples, individuals who suffer from stigmatism or ostracization due to particular diseases, or people living in extremely remote geographic areas---each of these groups are difficult to work amongst for various reasons, yet they often represent stakeholders with the greatest potential benefit from public health interventions. The common ground of most vulnerabilities is extreme poverty, social inequities, and poor access to adequate healthcare. The epidemiology and dynamics of infectious diseases within vulnerable populations often displays marked features of special interest, such as the complex interplays between co-morbidities, behavioral and environmental risk factors, and important differences in risk perceptions that can influence disease control interventions. The objective of this symposium is to share experiences of conducting infectious disease research among marginalized and vulnerable populations, with a particular focus on the role of novel diagnostic 'point-of-care' (POC) technologies or devices within larger research programs. The session will present case-studies from four diverse contexts involving laboratory-based etiological studies, transmission studies, and/or intervention evaluations. The pros and cons of adopting novel POCs will be addressed, as well as operational and ethical issues, and the challenges of public engagement.

CHAIR

Juliet E. Bryant
Fondation Merieux, Lyon, France
Graciela Russomando
National University of Asunción, San Lorenzo, Paraguay

1:45 p.m.

LOVE IN A TIME OF CHOLERA: REFLECTIONS ON VACCINATION CAMPAIGNS, CASE FINDING TECHNIQUES, AND RESEARCH CONDUCTED IN HAITIAN SLUMS

Vanessa Rouzier
Centre GHESKIO, Port-au-Prince, Haiti

2:05 p.m.

PULMONARY TUBERCULOSIS IN DHAKA CENTRAL JAIL, THE LARGEST PRISON IN BANGLADESH: SPECIAL CHALLENGES OF WORKING IN A SENSITIVE SETTING

Sayera Banu
International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

2:25 p.m.

DISEASE BURDEN OF LEPROSY IN MADAGASCAR: REACHING THE HARDEST TO REACH

Luc Samison
Centre Infectiologie Charles Mérieux, Antananarivo, Madagascar

2:45 p.m.

PNEUMONIA ETIOLOGIES AMONG SYRIAN REFUGEES: WHAT WE KNOW, WHAT WE DON'T KNOW, AND WHERE WE NEED TO GO

Thomas Kesteman
Laboratoire Rodolphe Mérieux, Beirut, Lebanon

Scientific Session 37

Mosquitoes: Vector Biology - Epidemiology II

Marriott - Balcony IJK (3rd Floor)

Monday, October 29, 1:45 p.m. - 3:30 p.m.

CHAIR

Benjamin J. Krajacich
National Institute of Allergy and Infectious Diseases, Rockville, MD, United States

Emily McDermott
Walter Reed Army Institute of Research, Silver Spring, MD, United States

1:45 p.m.

662

MOLECULAR XENOMONITORING AND ANTIGEN SURVEYS REVEAL STRONG SIGNALS FOR PERSISTENT WUCHERERIA BANCROFTI INFECTION IN NORTHERN HAITI AFTER 8 ROUNDS OF MASS DRUG ADMINISTRATION

Joseph R. Fauver¹, Bernard A. Okech², Anita D. Sircar³, Ramakrishna Rao¹, Madsen Beau de Rochars², Joshua Bogus¹, Abdel N. Direny⁴, Jean R. Ernest⁵, Carl R. Fayette⁵, Katuscia O'Brian¹, Daniel F. Sabin⁵, Gary J. Weil¹, Jean Frantz Frantz Lemoine⁶, Christine Dubray³
¹Washington University in St. Louis, St. Louis, MO, United States, ²University of Florida, Gainesville, FL, United States, ³Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴RTI International, Research Triangle Park, NC, United States, ⁵IMA World Health, Port-au-Prince, Haiti, ⁶Ministère de la Santé et de la Population, Port-au-Prince, Haiti

2 p.m.

663

PAST AND FUTURE SPREAD OF THE ARBOVIRUS VECTORS Aedes aegypti and Aedes albopictus

Moritz U. Kraemer¹, Robert C. Reiner Jr², Oliver J. Brady³, Jane P. Messina¹, Marius Gilbert⁴, Simon I. Hay², Nick Golding⁵
¹University of Oxford, Oxford, United Kingdom, ²University of Washington, Seattle, WA, United States, ³London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁴Université Libre de Bruxelles, Brussels, Belgium, ⁵University of Melbourne, Melbourne, Australia

2:15 p.m.

664

EXTENSION OF LIFESPAN IN ANOPHELES COLUZZII MOSQUITOES BY CLIMATIC MODULATION

Benjamin J. Krajacich, Lea Graber, Roy Faiman, Tovi Lehmann
National Institute of Allergy and Infectious Diseases, Rockville, MD, United States

2:30 p.m.

665

FUNCTIONAL DISSECTION OF A NATURAL RESISTANCE PHENOTYPE AGAINST DENGUE-1 VIRUS INFECTION IN Aedes aegypti MOSQUITOES

Sarah H. Merklings¹, Isabelle Moltini-Conclois¹, Odile Sismeiro¹, Hugo Varet¹, Rachel Legendre¹, Davy Jiolle¹, Christophe Paupy², Louis Lambrechts¹
¹Institut Pasteur, Paris, France, ²Maladies Infectieuses et Vecteurs : Ecologie, Génétique, Evolution et Contrôle (MIGEVEC), Montpellier, France
(ACMCIP Abstract)

2:45 p.m.

666

SUPERINFECTION EXCLUSION BETWEEN DENGUE AND ZIKA VIRUSES IN Aedes MOSQUITOES

Emily G. McDermott, H. Tara Olowolayemo, Lindsey S. Garver
Walter Reed Army Institute of Research, Silver Spring, MD, United States

3 p.m.

667

WOLBACHIA EFFECTS ON ARBOVIRUS INFECTION IN MOSQUITOES ARE VARIABLE AND DEPEND ON THE WOLBACHIA STRAIN, THE MOSQUITO SPECIES, AND THE PATHOGEN

Jason Rasgon¹, Brittany Dodson¹, Elizabeth Andrews², Michael Turell³, Laura Kramer⁴
¹Pennsylvania State University, University Park, PA, United States, ²CA Department of Public Health, Sacramento, CA, United States, ³VectorID LLC, Frederick, MD, United States, ⁴Wadsworth Center, Albany, NY, United States

(ACMCIP Abstract)

3:15 p.m.

668

THE COMPOSITION OF THE Aedes aegypti MICROBIOME IS ALTERED BY WOLBACHIA, BUT IS NOT CRITICAL TO WOLBACHIA BLOCKING OF DENGUE VIRUS

Michelle D. Audsley¹, Andrei Seleznev², D. Albert Joubert³, Yixin H. Ye², Megan Woolfit³, Elizabeth A. McGraw⁴
¹Biomedicine Discovery Institute, Monash University, Victoria, Australia, ²School of Biological Sciences, Monash University, Victoria, Australia, ³Institute of Vector-Borne Disease, Monash University, Victoria, Australia, ⁴The Center for Infectious Disease Dynamics, The Pennsylvania State University, Pennsylvania, PA, United States

TropStop Career Chats

Sheraton - Lagniappe (2nd Floor)

Monday, October 29, 3 p.m. - 4 p.m.

The TropStop schedule features a daily one-hour afternoon session to meet professionals in the fields of tropical medicine and global health who will share their career stories and discuss topics and strategies to help you along your career path.

STRATEGIES FOR LAUNCHING YOUR CAREER AND HOW TO PLAN FOR THAT FIRST GRANT APPLICATION

Michael McCracken

Walter Reed Army Institute of Research, Silver Spring, MD, United States

Rebecca Christofferson

Louisiana State University, Baton Rouge, LA, United States

Exhibit Hall Open

Sheraton - Napoleon Ballroom (3rd Floor)

Monday, October 29, 3:15 p.m. - 4:15 p.m.

Coffee Break

Sheraton - Napoleon Ballroom (3rd Floor) and Marriott - Grand Ballroom Foyer (3rd Floor)

Monday, October 29, 3:30 p.m. - 4 p.m.

Poster Session A Dismantle

Marriott - Grand Ballroom (3rd Floor)

Monday, October 29, 4 p.m. - 6:15 p.m.

Scientific Session 38

Intestinal and Tissue Helminths: Soil-Transmitted Helminths - Biology and Immunology

Sheraton - Rodrigue Gallery (1st Floor)

Monday, October 29, 4 p.m. - 5:45 p.m.

CHAIR

Makedonka Mitreva

Washington University School of Medicine, St. Louis, MO, United States

Jill Weatherhead

Baylor College of Medicine, Houston, TX, United States

4 p.m.

669

A REVERSE VACCINOLOGY APPROACH FOR IDENTIFYING STH VACCINE CANDIDATES

Makedonka Mitreva¹, Bruce Rosa¹, Dolores Hill², Valsin Fournet², Jozelyn Pablo³, Andy Teng³, Amit Oberai³, Krista Trappi-Kimmons³, Dante Zarlenga², Joseph Urban⁴

¹Washington University School of Medicine, St. Louis, MO, United States,

²U.S. Department of Agriculture, Agricultural Research Service, Beltsville Agricultural Research Center, Animal Parasitic Diseases Laboratory, Beltsville, MD, United States, ³Antigen Discovery Inc, Irvine, CA, United States, ⁴U.S. Department of Agriculture, Agricultural Research Service, Beltsville Human Nutrition Research Center Diet, Genomics, and Immunology Laboratory, Beltsville, MD, United States

4:15 p.m.

670

SELECTION AND CHARACTERIZATION OF A NOVEL WHIPWORM VACCINE CANDIDATE THAT INDUCES TYPE 2 PROTECTIVE IMMUNITY

Neima Briggs¹, Leroy Versteeg², Maria Elena Bottazzi², Bin Zhan², Jeroen Pollet², Ashish Damania², Brian Keegan², Junfei Wei², Carol Gomez³, Kelly Hayes⁴, Richard Grencis⁴, Jagannadha Sastry¹, Peter Hotez²

¹University of Texas - Houston / M.D. Anderson, Houston, TX, United States,

²Baylor College of Medicine, Houston, TX, United States, ³Clínica de Santa Ana, Santa Ana, Honduras, ⁴University of Manchester, Manchester, United Kingdom

(ACMCIP Abstract)

4:30 p.m.

671

EOSINOPHIL-DOMINATED PULMONARY TYPE-2 RESPONSE DRIVEN BY ALLERGIC SENSITIZATION INHIBITS LARVAL DEVELOPMENT AND CONTROLS HELMINTH PARASITE BURDEN IN THE LUNGS

Pedro H. Gazzinelli-Guimaraes¹, Rafael Q. Prado¹, Alessandra Ricciardi¹, Sandra Bonne-Année¹, Joshua Sciurba¹, Ricardo Fujiwara², Thomas Nutman¹

¹National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ²UFMG, Belo Horizonte, Brazil

(ACMCIP Abstract)

4:45 p.m.

672

ASCARIS LARVAL MIGRATION CAUSES LONG-TERM CHANGES IN LUNG STRUCTURE AND FUNCTION

Jill Weatherhead, Evan Li, John Morgan Knight, Bin Zhan, Brian Keegan, Maria Elena Bottazzi, David Corry, Peter Hotez

Baylor College of Medicine, Houston, TX, United States

(ACMCIP Abstract)

5 p.m.

673

THE STRUCTURE AND FUNCTION OF EXTRACELLULAR VESICLES SECRETED BY THE GASTROINTESTINAL NEMATODE PARASITE, ASCARIS SUUM

Wang Yuan¹, Hannah Lohgry¹, Mostafa Zamanian², Michael Kimber¹

¹Department of Biomedical Sciences, College of Veterinary Medicine, Iowa State University, Ames, IA, United States, ²Department of Pathobiological Sciences, University of Wisconsin-Madison, Madison, WI, United States

(ACMCIP Abstract)

5:15 p.m.

674

A REFERENCE ASCARIS LUMBRICOIDES GENOME ALLOWS INSIGHTS INTO POPULATION-BASED GENOMIC CHANGES IN SPACE AND TIME

Alice V. Easton¹, Scott P. Lawton², Shenghan Gao³, Eric Dahlstrom⁴, Steve Porcella⁴, Rita G. Oliveira⁵, Stella Kepha⁶, Joanne P. Webster⁷, Charles S. Mwandawiro⁸, Sammy M. Njenga⁸, Roy M. Anderson⁹, Richard E. Davis¹⁰, Jianbin Wang¹⁰, Thomas B. Nutman¹

¹Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ²Kingston University London, London, United Kingdom, ³Beijing Institute of Genomics, Chinese Academy of Sciences, Beijing, China, ⁴Research Technologies Section, Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Hamilton, MT, United States, ⁵Children's Investment Fund Foundation, London, United Kingdom, ⁶London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁷Royal Veterinary College, Hatfield, United Kingdom, ⁸Kenya Medical Research Institute, Nairobi, Kenya, ⁹Imperial College London, London, United Kingdom, ¹⁰University of Colorado School of Medicine, Denver, CO, United States

(ACMCIP Abstract)

5:30 p.m.

675

IMPROVED MOLECULAR DETECTION OF ASCARIS LUMBRICOIDES UTILIZING EMBRYONIC SEQUENCE FOR ASSAY DESIGN

Nils Pilotte¹, Alice V. Easton², Jessica R. Grant¹, Eric Dahlstrom³, Thomas B. Nutman², Steven A. Williams¹

¹Smith College, Northampton, MA, United States, ²National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, ³National Institute of Allergy and Infectious Diseases, Hamilton, MT, United States

Symposium 39

100,000 Papers Later: Reviewing and Mapping the Etiology of Non-Malarial Febrile Illnesses Globally

Sheraton - Waterbury (2nd Floor)

Monday, October 29, 4 p.m. - 5:45 p.m.

Febrile illness is among the most common drivers of healthcare visits globally, with an estimated 182 million cases of fever in under 5s presenting to health facilities each year in sub-Saharan Africa (SSA) alone. In endemic countries, malaria was historically assumed to be the cause of fever. However, the advent of rapid diagnostic tests for malaria, combined with intensified malaria control activities over the last decade, has substantially reduced malaria incidence rates in many endemic areas. Non-malarial fevers are a major cause of morbidity and mortality, but clinical diagnoses lack specificity and relevance, and microbiological laboratory capacities in low-resource settings are seldom in rural areas where differential diagnosis of malaria is most needed. In these circumstances, patients who test negative for malaria are currently often treated with antibiotics in the absence of a confirmed diagnosis. The result is often the inappropriate treatment of serious illness and, in some cases, a contribution to the global growth in antimicrobial resistance. New diagnostic capacities that are appropriate for low-resource settings are urgently needed, both to reduce empiric treatment with antibiotics and to improve patient outcomes. Information is limited on the primary causative pathogens of non-malarial fever due to the limitations of diagnostic facilities and the scarcity of comprehensive surveillance networks in low-resource settings. However, available data show that the most common causes vary substantially across different geographies and age groups. In order to map the most prevalent causes of fever in all malaria-endemic regions, a consortium of researchers have conducted unprecedented massive systematic reviews of the published literature for all malaria-endemic regions, screening more than 100,000 articles to provide the most comprehensive assessment of the aetiology of non-malarial fevers that has been made available to date. The project brought together partners from across the world who worked together to develop a common approach to data extraction. The results of these comprehensive literature reviews have been incorporated into an open access, online database that supports an interactive map that can filter data by country,

microorganism type, patient age, sample type, pathogen family, genus and species, study year and clinical disorder (www.iddo.org/surveyor/NMFI/). The symposium will explore the results of the most differential diagnoses for the four geographical regions (China, South and Southeast Asia, South America and sub-Saharan Africa), as well as the potential implications of the findings for diagnostic development, clinical decision-making, and resource allocation for non-malarial fevers.

CHAIR

Philippe J. Guerin

Infectious Diseases Data Observatory, Oxford, United Kingdom

Paul Newton

Mahosot Hospital, Vientiane, Lao People's Democratic Republic

4 p.m.

NON-MALARIA FEVER REVEALED – INSIGHTS FROM CHINA

Dennis Ip

School of Public Health, University of Hong Kong, Pokfulam, Hong Kong

4:30 p.m.

NON-MALARIA FEVER REVEALED – INSIGHTS FROM AFRICA

Heidi Hopkins

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

4:45 p.m.

NON-MALARIA FEVER REVEALED – INSIGHTS FROM LATIN AMERICA

Andre M. Siqueira

Instituto Nacional de Infectologia Evandro Chagas – Oswaldo Cruz Foundation, Rio de Janeiro, Brazil

5 p.m.

NON-MALARIA FEVER REVEALED - INSIGHTS FROM SOUTH AND SOUTHEAST ASIA

Poojan Shrestha

Infectious Diseases Data Observatory, Oxford, United Kingdom

5:15 p.m.

MASSIVE DATA-COLLECTION AND MAPPING EFFORT – IMPORTANT IMPLICATIONS

Sabine Dittrich

FINN, Geneva, Switzerland

Scientific Session 40

Clinical Tropical Medicine II

Sheraton - Rhythms (2nd Floor)

Monday, October 29, 4 p.m. - 5:45 p.m.

CHAIR

Andrea K. Boggild

University of Toronto, Toronto, ON, Canada

Henry Wu

The Emory Clinic, Emory University, Atlanta, GA, United States

4 p.m.

676

ALGORITHMS BASED ON HOST BIOMARKERS TO IDENTIFY FEBRILE PATIENTS AT RISK OF LIFE-THREATENING INFECTIONS IN LOW RESOURCE SETTINGS

Melissa Richard-Greenblatt¹, Aleksandra Leligdowicz¹, Andrea L. Conroy², Noémie Boillat-Blanco³, Michael Hawkes⁴, Valérie D'Acremont⁵, Kathleen Zhong¹, Kevin C. Kain¹

¹University Health Network/ University of Toronto, Toronto, ON, Canada, ²University of Indiana, Indianapolis, IN, United States, ³Lausanne University Hospital, Lausanne, Switzerland, ⁴University of Alberta, Edmonton, AB, Canada, ⁵Swiss Tropical and Public Health Institute, Basel, Switzerland

4:15 p.m.

677

CUTANEOUS LARVA MIGRANS IN RETURNED CANADIAN TRAVELERS TO THE CARIBBEAN: SURVEILLANCE REPORT FROM CANTRAVNET, JANUARY 2009 – MARCH 2018

Andrea K. Boggild¹, Jennifer Geduld², Michael D. Libman³, Cedric P. Yansouni³, Anne E. McCarthy⁴, Jan Hajek⁵, Wayne Ghesquiere⁵, Yazdan Mirzanejad⁶, Katherine Plewes⁵, Jean Vincelette⁶, Susan Kuhn⁷, Pierre J. Plourde⁸, Christina Greenaway³, Sumontra Chakrabarti¹, Kevin L. Schwartz¹, Kevin C. Kain¹

¹University of Toronto, Toronto, ON, Canada, ²Public Health Agency of Canada, Ottawa, ON, Canada, ³McGill University, Montreal, QC, Canada, ⁴University of Ottawa, Ottawa, ON, Canada, ⁵University of British Columbia, Vancouver, BC, Canada, ⁶University of Montreal, Montreal, QC, Canada, ⁷University of Calgary, Calgary, AB, Canada, ⁸University of Manitoba, Winnipeg, MB, Canada

4:30 p.m.

678

ANTIBIOTIC MANAGEMENT OF MODERATE-TO-SEVERE DIARRHEA MAY REDUCE RISK OF LINEAR GROWTH FALTERING IN CHILDREN: A SECONDARY ANALYSIS OF GEMS CASES

Rebecca Brander¹, Judd Walson¹, Patricia Pavlinac¹, Grace John-Stewart¹, Abu Faruque², Anita Zaidi³, Dipika Sur⁴, Samba Sow⁵, M Johangir Hossain⁶, Pedro Alonso⁷, Robert Breiman⁸, Dilruba Nasrin⁹, James Nataro¹⁰, Myron Levine⁹, Karen Kotloff⁹

¹University of Washington, Seattle, WA, United States, ²International Centre for Diarrhoeal Disease Research, Dhaka, Bangladesh, ³Aga Khan University, Karachi, Pakistan, ⁴National Institute of Cholera and Enteric Diseases, Kolkata, India, ⁵Centre pour le Développement des Vaccines, Bamako, Mali, ⁶Medical Research Council Unit, Fajara, Gambia, ⁷Centro de Investigacao em Saude da Manhica, Maputo, Mozambique, ⁸Centers for Disease Control and Prevention, Nairobi, Kenya, ⁹University of Maryland, Baltimore, MD, United States, ¹⁰University of Virginia, Charlottesville, VA, United States

4:45 p.m.

679

CLINICAL FEATURES AND OUTCOME OF NEONATAL DENGUE AT THE CHILDREN'S HOSPITAL 1, HO CHI MINH, VIETNAM

Tuan M. Nguyen
Children's Hospital 1, Ho Chi Minh, Vietnam

5 p.m.

680

SAFETY AND IMMUNOGENICITY OF AGS-V, A MOSQUITO SALIVA PEPTIDE VACCINE: A RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED PHASE 1 TRIAL

Jessica E. Manning¹, Fabiano Oliveira¹, Iliano V. Coutinho-Abreu¹, Samantha Herbert¹, Claudio Meneses¹, Shaden Kamhawi¹, Holly Ann Baus¹, Alison Han¹, Lindsay Czajkowski¹, Luz Angela Rosas¹, Adriana Cervantes-Medina¹, Rani Athota¹, Susan Reed¹, Ana Fernandez², Olga Pleguezuelos², Gregory Stoloff², Jesus G. Valenzuela¹, Matthew J. Memoli¹

¹National Institutes of Health, Bethesda, MD, United States, ²SEEEK Pep Tcell Limited, London, United Kingdom

5:15 p.m.

681

ACUTE KIDNEY INJURY IN SEVERE MALARIA: NEURODEVELOPMENTAL EFFECTS IN UGANDAN CHILDREN

Meredith R. Hickson¹, Andrea Conroy², Paul Bangirana³, Robert O. Opoka³, John S. Ssensuku⁴, Chandy C. John²

¹University of Michigan Medical School, Ann Arbor, MI, United States, ²Indiana University, Indianapolis, IN, United States, ³Makerere University College of Health Sciences, Kampala, Uganda, ⁴University of Minnesota, Minneapolis, MN, United States

5:30 p.m.

682

MAPPING DIPHtheria-PERTUSSIS-TETANUS VACCINE COVERAGE IN AFRICA, 2000-2016

Jonathan Mosser, Puja C. Rao, Aaron Osgood-Zimmerman, Nancy Fullman, Nicholas Graetz, Roy Burstein, Rachel L. Updike, Sarah E. Ray, Lucas Earl, Aniruddha Deshpande, Laura Dwyer-Lindgren, Stephen S. Lim, Robert C. Reiner, Simon I. Hay
Institute for Health Metrics and Evaluation, Seattle, WA, United States

Scientific Session 41

Viral Hemorrhagic Fevers

Sheraton - Grand Ballroom A/B (5th Floor)
Monday, October 29, 4 p.m. - 5:45 p.m.

CHAIR

John Schieffelin
Tulane University, New Orleans, LA, United States

Katherine Siddle
Harvard University, Cambridge, MA, United States

4 p.m.

683

CLINICAL TRIAL EXPERIENCE WITH THE MERCK RVSVΔG-ZEBOV-GP EBOLA VACCINE: UPDATED SAFETY, IMMUNOGENICITY, AND EFFICACY

Jakub K. Simon¹, Scott A. Halperin², Rituparna Das¹, Matthew T. Onorato¹, Kenneth Liu¹, Jason Martin¹, Rebecca J. Grant-Klein¹, Rick Nichols³, Frans A. Helmond¹, Beth-Ann Collier¹

¹Merck & Co., Inc., Kenilworth, NJ, United States, ²Canadian Center for Vaccinology, Dalhousie University, IWK Health Centre, and Nova Scotia Health Authority, Halifax, NS, Canada, ³NewLink Genetics, Inc.; BioProtection Systems, Ames, IA, United States

4:15 p.m.

684

NEUROLOGICAL, COGNITIVE, AND PSYCHOLOGICAL FINDINGS AMONG SURVIVORS OF EBOLA VIRUS DISEASE FROM THE 1995 KIKWIT OUTBREAK IN DEMOCRATIC REPUBLIC OF CONGO: A CROSS-SECTIONAL STUDY

John D. Kelly¹, Nicole Hoff², D'Andre Spencer², Matt Bramble³, David McIlwain⁴, Kamy Musene², Ernesto Okitolonda⁵, Travis Porco¹, George Rutherford¹, Maria Glymour¹, Patrick Mukadi⁶, Anne Rimoin²

¹University of California San Francisco, San Francisco, CA, United States, ²University of California Los Angeles, Los Angeles, CA, United States, ³Children's National Medical Center, Washington, DC, United States, ⁴Stanford, Stanford, CA, United States, ⁵Kinshasa School of Public Health, Kinshasa, Democratic Republic of the Congo, ⁶Institut National de Recherche Biomedicale, Kinshasa, Democratic Republic of the Congo

4:30 p.m.

685

DURABILITY OF IMMUNE RESPONSES INDUCED BY THREE LEADING CANDIDATE EBOLA VACCINE REGIMES; RVSZ ZEBOV, CHAD3 EBO Z-MVA BN-FILO AND ADHU26. ZEBOV-MVA BN FILO

Katie J. Ewer¹, Catherine Smith², Esha Sarkar², Georgina Bowyer¹, Thomas Rampling¹, Catherine Mair¹, Duncan Bellamy¹, Suleman Sabir³, Christopher Davies³, Navin Venkatraman¹, Rebecca Conway-Jones¹, Danielle Campbell², Charlotte Boyer², Adrian V. Hill¹, Emma Thomson³, Matthew D. Snape²
¹The Jenner Institute, University of Oxford, Oxford, United Kingdom, ²Oxford Vaccine Group, University of Oxford, Oxford, United Kingdom, ³MRC-University of Glasgow Centre for Virus Research, Glasgow, United Kingdom

4:45 p.m.

686

IMMUNOLOGICAL INSIGHTS BASED ON ANTIBODY BINDING EPITOPES ON THE EBOLA VIRUS GLYCOPROTEIN

Tabb Sullivan¹, Aubrey Bryan¹, Edgar Davidson¹, Andrew Flyak², Katie Howell³, Javad Aman⁴, James Crowe Jr², Benjamin J. Doranz¹
¹Integral Molecular, Inc., Philadelphia, PA, United States, ²Vanderbilt University, Nashville, TN, United States, ³Integrated BioTherapeutics, Inc., Rockville, MD, United States, ⁴Integrated BioTherapeutics, Inc, Rockville, MD, United States

5 p.m.

687

POST-EXPOSURE PROTECTION AGAINST CONTEMPORARY NIGERIAN ISOLATES OF LASSA FEVER VIRUS IN CYNOMOLOGOUS MACAQUES WITH HUMAN MONOCLONAL ANTIBODIES

Robert W. Cross¹, Luis M. Branco², Chad E. Mire¹, Krystle N. Agans¹, Victorya Borisevich¹, Joan B. Geisbert¹, Daniel J. Deer¹, Karla A. Fenton¹, Robert F. Garry³, Thomas W. Geisbert¹
¹University of Texas Medical Branch, Galveston, TX, United States, ²Zalgen Laboratories, Germantown, MD, United States, ³Tulane University School of Medicine, New Orleans, LA, United States

5:15 p.m.

688

GENOMIC EPIDEMIOLOGY OF LASSA VIRUS IN NIGERIA DURING A SEASON OF UNUSUALLY HIGH INCIDENCE

Katherine J. Siddle¹, Philomena E. Eromon², Judith U. Oguzie², Samar Mehta³, Ikponmwon Odi⁴, Kayla G. Barnes³, Sarah M. Winnicki³, James Qu³, Eghosa Uyigwe², Paul Oluniyi², Onikepe A. Folarin², Robert F. Garry⁵, Kristian G. Andersen⁶, Daniel J. Park³, Nathan L. Yozwiak³, Bronwyn L. MacInnis³, Peter Okokhere⁷, Pardis C. Sabeti¹, Christian T. Happi²
¹Harvard University, Cambridge, MA, United States, ²Redeemer's University, Ede, Nigeria, ³Broad Institute, Cambridge, MA, United States, ⁴Irrua Specialist Teaching Hospital, Irrua, Nigeria, ⁵Tulane University, New Orleans, LA, United States, ⁶Scripps Research Institute, La Jolla, CA, United States, ⁷Irrua Specialist Teaching Hospital, Irru, Nigeria

5:30 p.m.

689

DEVELOPMENT OF A TICK-TRANSMISSION MODEL FOR HEARTLAND VIRUS PATHOGENESIS

Erin S. Reynolds, Meghan E. Hermance, Saravanan Thangamani
University of Texas Medical Branch, Galveston, TX, United States

Symposium 42

Alan J. Magill Malaria Eradication Symposium

Sheraton - Grand Ballroom C (5th Floor)

Monday, October 29, 4 p.m. - 5:45 p.m.



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 will bring 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 surveillance, a key pillar of the WHO Global Strategy for Malaria 2016-30, for surveillance generates the data for how we measure progress, understand patterns of transmission, identify risk areas for focused response, provides the evidence for elimination, and serves as the basis for planning the response needed to ensure that global goals are attained. The session will include an overview of the data and methods that underlie the WHO global malaria burden and trends; the role of modeling to support the targeting and combination of interventions; measurement in communities to target response; and use of molecular tools for surveillance to understand resistance. These talks will be followed by a panel discussion of challenges of bringing innovation to improve malaria surveillance as well as response to the emerging data on where malaria progress is advancing or stalling. Diverse viewpoints will be solicited from the panelists and audience.

Supported with funding from the Bill & Melinda Gates Foundation

CHAIR

Regina Rabinovich
Harvard T.H. Chan School of Public Health, Boston, MA, United States

Philip Welkhoff
Bill & Melinda Gates Foundation, Seattle, WA, United States

4 p.m.

UNDERSTANDING THE WHO GLOBAL MALARIA BURDEN AND TRENDS - DATA, METHODS AND CHALLENGES

Abdisalan Noor
World Health Organization, Geneva, Switzerland

4:20 p.m.

THE ROLE OF MODELING TO SUPPORT TARGETING AND COMBINATIONS OF INTERVENTIONS

Jaline Gerardin
Institute for Disease Modeling, Seattle, WA, United States

4:40 p.m.
**MOLECULAR SURVEILLANCE TOOLS TO ADVANCE
PROGRESS AGAINST MALARIA**

Dyann Wirth
The Broad Institute, Cambridge, MA, United States

5 p.m.
**SURVEILLANCE TO DIRECT INTERVENTIONS:
CHALLENGES TO MEASUREMENT IN THE FIELD**

Pedro Aide, ASTMH Magill Fellow
Manhica Health Research Center (CISM), Maputo, Mozambique

5:20 p.m.
**INTERPRETING DATA FOR ACTION: THE APPLICATION OF
GEOSTATISTICAL MODELS OF MALARIA METRICS**

Peter Gething
Malaria Atlas Project, University of Oxford, Oxford, United Kingdom

Symposium 43

ASTMH Committee on Global Health (ACGH) Symposium II: Building a Successful Career in Global Health: An Interactive Session with Global Health Experts

Sheraton - Grand Ballroom D/E (5th Floor)

Monday, October 29, 4 p.m. - 5:45 p.m.

Beginning a career in global health is both exciting and challenging. Finding one's niche, collaborating with others, finding a job and promoting one's skills, and sharing one's findings with the broader scientific community are all areas that can pose obstacles at the beginning and throughout one's global health career. How does one translate the skills learned in the classroom into a fulfilling vocation? This symposium, organized by the ASTMH Committee on Global Health (ACGH), aims to address some of these challenges by delivering participants practical tools and skills essential to global health career development. In this exciting interactive session, international global health experts, as well as others, will meet with attendees in small groups to share practical experience and skills. Topics will include finding and maintaining appropriate mentorship, presentations and scientific writing and other career building skills. By structuring the symposium in breakout sessions, participants will have a unique opportunity to focus on individual skills in interactive small group sessions led by global health experts from the U.S. and overseas. The attendees will break into groups to discuss: 1) Skills and strategies to succeed in global health in low and middle-income countries; 2) Skills and strategies to succeed in global health in the United States; 3) Skills and strategies to succeed in writing, presenting and publishing global health related research at scientific forums and in medical/public health journals. By giving early career individuals the tools to develop their careers, the ASTMH Committee on Global Health aims to foster the growth of the global health field with the ultimate intent of benefitting the most vulnerable populations in resource-limited areas. Lastly, global health is full of ambitious, caring, intelligent individuals. By imparting practical wisdom in this unique

setting, we hope to continue to foster the enthusiasm and drive that brought them to global health in the first place.

CHAIR

Ramin Asgary
*George Washington University School of Public Health and Weill Cornell
Medical College, New York, NY, United States*

4 p.m.
INTRODUCTION

Ramin Asgary
*George Washington University School of Public Health and Weill Cornell
Medical College, New York, NY, United States*

4:10 p.m.
**BREAKOUT SESSION: SKILLS AND STRATEGIES TO
SUCCEED IN WRITING, PRESENTING AND PUBLISHING
GLOBAL HEALTH-RELATED RESEARCH AT SCIENTIFIC
FORUMS AND IN MEDICAL/PUBLIC HEALTH JOURNALS**

Ramin Asgary
*George Washington University School of Public Health and Weill Cornell
Medical College, New York, NY, United States*

**BREAKOUT SESSION: SKILLS AND STRATEGIES TO
SUCCEED IN GLOBAL HEALTH IN LOW AND MIDDLE-
INCOME COUNTRIES**

Abiola Fasina
Henry Jackson Foundation, Bethesda, MD, United States

**BREAKOUT SESSION: SKILLS AND STRATEGIES TO
SUCCEED IN GLOBAL HEALTH IN THE UNITED STATES**

Katherine Taylor
*University of Notre Dame, Eck Institute for Global Health, Notre Dame, IN,
United States*

5:35 p.m.
GLOBAL HEALTH SKILLS-BUILDING

Ramin Asgary
*George Washington University School of Public Health and Weill Cornell
Medical College, New York, NY, United States*

Scientific Session 44

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Malaria and Protozoans - Molecular and Cellular Biology

Marriott - La Galerie 1/2 (2nd Floor)

Monday, October 29, 4 p.m. - 5:45 p.m.

**Supported with funding from the Burroughs Wellcome
Fund**

CHAIR

Rays H.Y. Jiang
University of South Florida, Tampa, FL, United States
Niraja Suresh
University of Notre Dame, Notre Dame, IN, United States

4 p.m.

2117

INVITED SPEAKER FROM THE WOODS HOLE MOLECULAR PARASITOLOGY MEETING HELD IN SEPTEMBER 2018. SEE THE MEETING APP FOR SPEAKER INFORMATION.

4:15 p.m.

2118

INVITED SPEAKER FROM THE WOODS HOLE MOLECULAR PARASITOLOGY MEETING HELD IN SEPTEMBER 2018. SEE THE MEETING APP FOR SPEAKER INFORMATION.

4:30 p.m.

690

VESICULAR SYSTEM OF ARTEMISININ RESISTANCE ENHANCES BOTH PARASITE SURVIVAL AND HOST CYTOADHERENCE

Niraja Suresh¹, Isabelle Coppens², Souvik Bhattacharjee³, Alassane Mbengue¹, Mehdi Ghorbal¹, Kasturi Haldar¹

¹University of Notre Dame, Notre Dame, IN, United States, ²Johns Hopkins University, Baltimore, MD, United States, ³Jawaharlal Nehru University, New Delhi, India

(ACMCIP Abstract)

4:45 p.m.

691

ARTEMISININ RESISTANCE GENE K13 IS LINKED TO DNA REPLICATION AND REPAIR

Justin Gibbons¹, Katie Button-Simons², Swamy R. Adapa³, Suzanne Li³, Maxwell Pietsch⁴, Min Zhang³, John H. Adams³, Michael T. Ferdig², Rays H. Jiang³

¹Morsani College of Medicine, University of South Florida, Tampa, FL, United States, ²Eck Institute for Global Health, Department of Biological Sciences, University of Notre Dame, South Bend, IN, United States, ³Department of Global Health, College of Public Health, University of South Florida, Tampa, FL, United States, ⁴Department of Computer Science and Engineering, University of South Florida, Tampa, FL, United States

5 p.m.

692

A NOVEL IMMORTALIZED HEPATOCYTE-LIKE CELL LINE (IMHC) SUPPORTS *IN VITRO* LIVER STAGE DEVELOPMENT OF THE HUMAN MALARIAL PARASITE *PLASMODIUM VIVAX*

Rapatbhorn Patrapuvich¹, Yongyut Pewkliang², Siriwan Rungin³, Kaewta Lerdpanyangam³, Apisak Duangmanee³, Phongthon Kanjanasirirat², Phichaya Suthivanich², Khanit Sa-ngiamsuntorn⁴, Suparerak Borwornpinyo², Jetsumon Sattabongkot³, Suradej Hongeng⁵

¹Drug Research Unit for Malaria, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand, ²Excellent Center for Drug Discovery (ECDD), Faculty of Science, Mahidol University, Bangkok, Thailand, ³Mahidol Vivax Research Unit, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand, ⁴Department of Biochemistry, Faculty of Pharmacy, Mahidol University, Bangkok, Thailand, ⁵Department of Pediatrics, Faculty of Medicine Ramathibodi Hospital, Mahidol University, Bangkok, Thailand

5:15 p.m.

693

IT TAKES TWO TO TANGO: THE P52/P36 HEPATOCYTE INVASION COMPLEX

Silvia A. Arredondo¹, Kristian E. Swearingen², Thomas Martinson¹, Ryan Steel¹, Dorender Dankwa¹, Anke Harupa¹, Nelly Camargo¹, Vladimir Vigdorovich¹, Brian G. Oliver¹, Tomoko Ishino³, Noah Sather¹, Sebastian Mikołajczak¹, Ashley M. Vaughan¹, Motomi Torii³, Robert L. Moritz², Stefan H. Kappe¹

¹Center for Infectious Disease Research, Seattle, WA, United States, ²Institute for Systems Biology, Seattle, WA, United States, ³Ehime University, Ehime, Japan

5:30 p.m.

694

ROLE OF APICAL SUSHI PROTEIN IN SPOROZOITE INVASION OF SALIVARY GLANDS

Kazuhiro Matsuoka¹, Amporn Thongkukiatkul², Takafumi Tsuboi³, Motomi Torii¹, **Tomoko Ishino**¹

¹Ehime University, Toon, Japan, ²Burapha University, Chonburi, Thailand, ³Ehime University, Matsuyama, Japan

(ACMCIP Abstract)

Symposium 45

Snakebite Envenoming

Marriott - La Galerie 4/5/6 (2nd Floor)

Monday, October 29, 4 p.m. - 5:45 p.m.

In 2017 snakebite envenoming was added to the WHO list of neglected tropical diseases. Between 81,000-138,000 snakebite deaths occur annually and as many as 3-5 times more people are left permanently disabled. WHO has established a Working Group to develop a road map for the reduction and control of snakebite envenoming. This plan seeks to prioritize key aspects of the problem as they relate to communities; health systems; the need for safe, effective and affordable antivenoms; and other aspects of clinical treatment and recovery. In January 2018 the WHO Executive Board unanimously approved a draft resolution on snakebite envenoming for consideration by the 71st World Health Assembly in May 2018. As the momentum for action to control the burden of suffering caused by snakebite grows, this symposium will delve into unique perspectives on the problem from front-line experts working on solutions from different directions, and will provide an opportunity for discussion of key challenges and roadblocks to effective treatment and recovery.

CHAIR

David J. Williams

University of Melbourne, Parkville, Australia

Bernadette Abela-Ridder

World Health Organization, Geneva, Switzerland

4 p.m.

RISKS AND REWARDS: THE CHALLENGES AND BENEFITS OF TREATING SNAKEBITE IN AFRICA - A PHYSICIAN'S PERSPECTIVE

Abdulrazaq G. Habib

Bayero University Kano, Kano, Nigeria

4:15 p.m.

PUBLIC HEALTH POLICIES TO IMPROVE SNAKEBITE REPORTING AND SURVEILLANCE

Hui Wen Fan

Instituto Butantan, Sao Paulo, Brazil

4:30 p.m.

THE IMPORTANCE OF COMMUNITY ENGAGEMENT TO IMPROVE SNAKEBITE OUTCOMES: A CIVIL SOCIETY PERSPECTIVE

Priyanka Kadam

Snakebite Healing & Education Society, Mumbai, India

4:45 p.m.

TRANSLATIONAL VENOMIC MEDICINE AND ITS INTEREST IN THE FIELD OF ANTIVENOM PRODUCTION

Naoual Oukkache

Institut Pasteur, Casablanca, Morocco

5 p.m.

HOW RESEARCH INVESTMENT CAN LEAD TO PRACTICAL SOLUTIONS TO REAL-WORLD PROBLEMS

Robert A. Harrison

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Scientific Session 46

Mosquitoes: Insecticide Resistance and Control II

Marriott - Mardi Gras D (3rd Floor)

Monday, October 29, 4 p.m. - 5:45 p.m.

CHAIR

Melissa D. Conrad

University of California San Francisco, San Francisco, CA, United States

Penelope Hancock

University of Oxford, Oxford, United Kingdom

4 p.m.

695

THE IMPACT OF LONG-LASTING INSECTICIDAL (LLIN) NET EXPOSURE ON POST-EXPOSURE LONGEVITY OF PYRETHROID RESISTANT *ANOPHELES COLUZZII* MOSQUITOES IN BURKINA FASO

Natalie Lissenden¹, Gregory P. Murray¹, Kobié H. Toé², N'Fale Sagnon², Moussa Guelbeogo², Philip J. McCall¹, Hilary Ranson¹

¹Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²Centre National de Recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso

4:15 p.m.

696

MAPPING SPATIO-TEMPORAL PATTERNS IN INSECTICIDE RESISTANCE PHENOTYPES IN MALARIA VECTORS ACROSS AFRICA

Penelope Hancock¹, Antoinette Wiebe¹, Katherine Gleave², Samir Bhatt³, Ewan Cameron¹, Anna Trett², David Weetman², David Smith⁴, Michael Coleman², Peter Gething¹, Catherine Moyes¹

¹University of Oxford, Oxford, United Kingdom, ²Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ³Imperial College London, London, United Kingdom, ⁴University of Washington, Seattle, WA, United States

4:30 p.m.

697

JUST BREATHE: USING SIMPLE RESPIROMETRY TO CHARACTERIZE METABOLIC RESISTANCE TO INSECTICIDES IN MOSQUITO VECTORS

Gordana Rasic¹, Igor Filipovic¹, Lisa Rigby², Pablo Manrique-Saide³, Gregor Devine¹

¹QIMR Berghofer Medical Research Institute, Brisbane, Australia,

²Australian Defence Force Malaria and Infectious Disease Institute, Enoggera, Australia, ³Universidad Autónoma de Yucatán, Unidad Colaborativa de Bioensayos Entomológicos, Merida, Mexico

4:45 p.m.

698

INSECTICIDE RESISTANCE IS NOT ASSOCIATED WITH *PLASMODIUM FALCIPARUM* INFECTION IN *ANOPHELES GAMBIAE* S.L. (DIPTERA: CULICIDAE) IN GUINEA

Emma Collins¹, Natasha Vaselli¹, Moussa Sylla², Abdoul Beavogui², James Orsborne¹, Seth Irish³, Thomas Walker¹, Louisa A. Messenger⁴

¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²Centre National de Formation et de Recherche en Santé Rurale de Maferinyah, Maferinyah, Guinea, ³President's Malaria Initiative, Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴Centers for Disease Control and Prevention, Atlanta, GA, United States

5 p.m.

699

INSECTICIDE RESISTANCE MONITORING IN AFRICAN MALARIA MOSQUITOES USING HIGH-THROUGHPUT DIAGNOSTIC MARKERS

Arjen Van 't Hof, Eric R. Lucas, Amy Lynd, Dimitra Pipini, Emily Rippon, Martin Donnelly, David Weetman

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

5:15 p.m.

700

INCREASED SUSCEPTIBILITY OF *ANOPHELES GAMBIAE* TO *PLASMODIUM FALCIPARUM* IS NOT ASSOCIATED WITH MARKERS OF INSECTICIDE RESISTANCE IN TORORO, UGANDA

Melissa D. Conrad¹, Ambrose Aruni², Alison Isaacs², Emily Rippon², Alex Musiime³, Maxwell Kilama³, Moses Kamya⁴, Grant Dorsey¹, Martin Donnelly², Philip J. Rosenthal¹

¹University of California San Francisco, San Francisco, CA, United States,

²Liverpool School of Tropical Medicine, Liverpool, United Kingdom,

³Infectious Disease Research Collaboration, Kampala, Uganda, ⁴Makerere University, Kampala, Uganda

5:30 p.m.

701

EFFECT OF PASSIVE METOFLUTHRIN EMANATORS ON LANDING AND MORTALITY OF PYRETHROID-RESISTANT *Aedes aegypti*

Mike W. Dunbar¹, Gregor J. Devine², Pablo Manrique-Saide³, José Manuel Vadillo-Sánchez³, Evaristo Morales-Ríos³, Wilbert Bibiano-Marín³, Anuar Medina-Barreiro³, Gonzalo M. Vazquez-Prokopec¹

¹Emory University, Atlanta, GA, United States, ²QIMR Berghofer, Herston, Australia, ³Universidad Autónoma de Yucatán, Merida, Mexico

Symposium 47

CRISPR/Cas9 Approaches for Understanding Apicomplexan Biology

Marriott - Mardi Gras EFGH (3rd Floor)

Monday, October 29, 4 p.m. - 5:45 p.m.

The advent of CRISPR/Cas9 methods that permit precise DNA cleavage events has been transformative in empowering biological research. This symposium will highlight genome-editing technologies in *Cryptosporidium parvum*, *Plasmodium falciparum* and *Toxoplasma gondii*. The presentations will discuss how CRISPR is being used to probe Apicomplexan biology, gene function and essentiality, therapeutic targets, and mechanisms of drug resistance. The protozoan parasite *Cryptosporidium parvum* is a leading cause of severe, potential fatal diarrhea in young children. Using CRISPR, the Striepen lab has established a powerful

infection model that is genetically tractable. This symposium will present new CRISPR-based insights into *Cryptosporidium* biology and advances in drug and vaccine development. The emergence and spread of *Plasmodium falciparum* resistance to first-line artemisinin-based combination therapies has significantly compromised malaria treatment in Southeast Asia, and creates an important global threat. This session will present work underway in the Fidock lab that is leveraging gene editing to define determinants of *P. falciparum* resistance to artemisinins and their partner drugs. The emergence of artemisinin resistance has prompted a global effort to identify new drug targets. The Lee lab is developing CRISPR-derived approaches to enable drug target validation in a scalable manner. In addition to providing examples of CRISPR-mediated editing to validate drug targets and resistance markers, this session will review new approaches including CRISPR-based gene regulation. CRISPR-based genome-wide screens in *Toxoplasma* provide a broad-based analysis of gene function. Such approaches have helped the Lourido lab uncover conserved aspects of Apicomplexan biology, including divergent metabolic pathways and novel mediators of parasite invasion of host cells. This symposium will present these and related screening technologies, emphasizing potential and future applications.

CHAIR

David A. Fidock
Columbia University Medical Center, New York, NY, United States
Marcus C. Lee
Wellcome Sanger Institute, Hinxton, United Kingdom

4 p.m.

USING CRISPR TO DRIVE GENETICS FOR CRYPTOSPORIDIUM

Boris Striepen
University of Pennsylvania, Philadelphia, PA, United States

4:25 p.m.

LEVERAGING GENE EDITING TO GAIN INSIGHTS INTO MECHANISMS OF PLASMODIUM FALCIPARUM RESISTANCE TO ARTEMISININ-BASED COMBINATION THERAPIES

Barbara Stokes
Columbia University Medical Center, New York, NY, United States

4:50 p.m.

CRISPR APPROACHES FOR GENOME TARGETING AND GENE REGULATION IN P. FALCIPARUM

Sophie Adjalley
Wellcome Sanger Institute, Hinxton, United Kingdom

5:15 p.m.

USING CRISPR-BASED SCREENS TO DECODE APICOMPLEXAN GENOMES

Sebastian Lourido
Whitehead Institute for Biomedical Research, Cambridge, MA, United States

Scientific Session 48

One Health: Interface of Human Health/Animal Diseases

Marriott - Balcony IJK (3rd Floor)

Monday, October 29, 4 p.m. - 5:45 p.m.

CHAIR

David Morens
National Institutes of Health, Bethesda, MD, United States
Anne W. Rimoin
University of California Los Angeles, Los Angeles, CA, United States

4 p.m.

702

MOLECULAR DIAGNOSTICS OF POTENTIAL PATHOGENS IN THE WILDLIFE TRADE IN LAO PDR

Matthew T. Robinson¹, Prukha Nawtaisong¹, Malavanh Vongsouvath¹, Khongsy Khammavong², Phonesavanh Milavong³, Audrey Rachlin¹, Sabine Dittrich¹, Audrey Audrey Dubot-Pérés⁴, Mathieu Pruvot³, Paul N. Newton¹
¹LOMWRU, Vientiane, Lao People's Democratic Republic, ²WCS Lao Programme, Vientiane, Lao People's Democratic Republic, ³WCS Lao Programme, Vientiane, Lao People's Democratic Republic, ⁴Unite des Virus Emergents (UVE: Aix-Marseille University - IRD 190 - Inserm 1207 - IHU Mediterranee Infection), Marseille, France

4:15 p.m.

703

INDEX-CLUSTER STUDY OF INTERSPECIES DISEASE TRANSMISSION AT LOLA YA BONOBO SANCTUARY, DEMOCRATIC REPUBLIC OF CONGO

Bradly P. Nicholson¹, Raphaël Belais², Aleah Bowie³, Chelsea McMullen⁴, Patrick Mukadi⁵, Nicole A. Hoff⁶, Reena H. Doshi⁶, Fanny Minesi², Claudine André², Brian Hare³, Emile Okitolonda Wemakoy⁷, Jean-Jacques Muyembe-Tamfum⁵, Anne W. Rimoin⁸, Christopher W. Woods⁸
¹Institute for Medical Research, Durham Veterans Affairs Medical Center, Durham, NC, United States, ²Lola ya Bonobo, Kinshasa, Democratic Republic of the Congo, ³Duke University, Department of Evolutionary Anthropology, Durham, NC, United States, ⁴Duke University, Global Health Institute, Durham, NC, United States, ⁵Institut National de Recherche Biomedicale, Kinshasa, Democratic Republic of the Congo, ⁶University of California Los Angeles, Department of Epidemiology, Jonathan and Karin Fielding School of Public Health, Los Angeles, CA, United States, ⁷Kinshasa School of Public Health, Kinshasa, Democratic Republic of the Congo, ⁸Duke University Medical Center, Division of Infectious Diseases, Durham, NC, United States

4:30 p.m.

704

EVIDENCE FOR ASYMPTOMATIC CIRCULATION OF ORTHOPOXVIRUS IN MFOU DISTRICT, CAMEROON

Sarah Anne Guagliardo¹, Ben Monroe¹, Christian Moundjoa², Ateba Athanase³, Gordon Okpu⁴, Omer Pasi⁴, Jillybeth Burgado¹, Michael B. Townsend¹, Panayampalli Satheshkumar¹, Scott Epperson⁵, Jeffrey Doty¹, Mary G. Reynolds¹, Elisabeth Dibongue³, Andrea M. McCollum¹
¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Ministry of Livestock, Fisheries, and Animal Industries, Yaounde, Cameroon, ³National Zoonoses Program, Ministry of Health, Yaounde, Cameroon, ⁴Centers for Disease Control and Prevention, Yaounde, Cameroon, ⁵University of Georgia, Athens, GA, United States

4:45 p.m.

705

A MARKOV CHAIN MODEL TO EVALUATE THE HUMAN SAFETY OF ORAL ANIMAL VACCINES FOR WILDLIFE OR NON-ACCESSIBLE ANIMALS: A CASE STUDY OF AN ORAL RABIES VACCINE

Jennifer R. Head¹, Jesse D. Blanton², Julie Cleaton², Adrian Vos³, Thomas Thomas Müller⁴, Richard Chipman⁵, Emily Pieracci², Ryan Wallace²

¹Public Health Institute/Division of Global Health Protection, Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Division of High-Consequence Pathogens and Pathology, National Center for Emerging and Zoonotic Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States, ³IDT Biologika GmbH, Dessau-Tornau, Germany, ⁴Institute of Molecular Virology and Cell Biology, Friedrich-Loeffler-Institut, Federal Research Institute for Animal Health, World Health Organization Collaborating Centre for Rabies Surveillance and Research, Greifswald-Insel Riems, Germany, ⁵Wildlife Services Rabies Management, Animal Plant and Health Inspection Service, United States Department of Agriculture, Concord, NH, United States

5 p.m.

706

ELEVATED PREVALENCE AND NOVEL HOST INFECTION OF WEST NILE VIRUS AT THE NASHVILLE ZOO, TN

Thomas C. Moore¹, Kenna Graham¹, Heather Robertson², Margarita Woc Colburn², Rita McManamon³, Jay Dihonov², Alessandra Rodriguez¹, John Dunn¹, Abelardo C. Moncayo¹

¹Tennessee Department of Health, Nashville, TN, United States, ²Nashville Zoo at Grassmere, Nashville, TN, United States, ³University of Georgia, Athens, GA, United States

5:15 p.m.

707

ZOONOTIC AND ENVIRONMENTAL DETERMINANTS OF TUNGIASIS IN A RURAL AREA ADJACENT TO A WILDLIFE RESERVE IN KWALE, KENYA

Peter S. Larson¹, Masanobu Ono², Morris Ndemwa³, Juma Changoma⁴, Noboru Minakawa², Kensuke Goto⁵

¹University of Michigan, Ann Arbor, MI, United States, ²Nagasaki University Institute of Tropical Medicine, Nagasaki, Japan, ³Nagasaki University Institute of Tropical Medicine, Nairobi, Kenya, ⁴Chemi Chemi, Kwale, Kenya, ⁵Osaka Educational University National Mental Support Center for School Crisis, Osaka, Japan

5:30 p.m.

708

SURVEILLANCE AT THE HUMAN-ANIMAL INTERFACE DURING ZIKA VIRUS TRANSMISSION - PERU

María Claudia Guezala¹, Tatiana P. Quevedo², Christian B. Albuja¹, J. Catherine Dupont T.¹, Helvio Astete¹, Nicholas Komar³, Stephanie J. Salyer⁴, Joel M. Montgomery⁴, Christopher M. Mores¹

¹Naval Medical Research Unit 6, Lima, Peru, ²Vysnova Partners Inc., Lima, Peru, ³Arbovirus Diseases Branch, Division of Vector-Borne Diseases, Centers for Disease Control and Prevention, Fort Collins, CO, United States, ⁴EISL Branch, Division of Global Health Protection, Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States

Ben Kean Fellowship Reception - By Invitation Only

Sheraton - Nottoway (4th Floor)

Monday, October 29, 5:45 p.m. - 7:15 p.m.

Special Session 49

Ponder to Probe: A Cosmopolitan Debate and Peer-Networking Session

Sheraton - Grand Couteau (5th Floor)

Monday, October 29, 5:45 p.m. - 6:45 p.m.

The ASTMH Committee on Global Health (ACGH) invites you to come “speak your mind” on contemporary global health issues! Peer networking is an essential skill to establish your global health and tropical medicine career track, and is needed at every stage of your career. The connections you establish with peers today can be the

foundation of future employment, career advancement, key collaborations, successful grants and major scientific advances. This peer-to-peer networking event will center around an informal debate on current global health topics of interest to the tropical medicine community, including current infectious disease threats, career challenges and other hot topics pertaining to those pursuing a global health and tropical medicine career. The session will allow participants to present their views on 2-3 pre-determined topics elicited from ACGH members based on current events, field research, scientific discovery, career challenges and general inquiry. Participants will ponder over these issues, probe alternative views, and share ideas in a relaxed setting, while getting to know their peers. Topics discussed can become conversation starters for further networking after the session and throughout the remainder of the annual meeting. This session is recommended for students, early career professionals and experts so topics can be discussed from a range of various perspectives.

CHAIR

Koya Allen

U.S. European Command HQ, Stuttgart, Germany

Plenary Session 50

Plenary Session II: Charles Franklin Craig Lecture

Sheraton - Rhythms (2nd Floor)

Monday, October 29, 6:15 p.m. - 7 p.m.



The Charles Franklin Craig Lecture is an honor bestowed on a distinguished worker in the field of tropical medicine. Charles Franklin Craig (1872-1950) received his MD from Yale University and entered the Army Medical Corps in 1898, as a pathologist and bacteriologist. After holding a variety of far-flung assignments early in his career, in 1909 he began a long association with the Army Medical School in Washington DC, rising to become Professor and Commandant of the School. He wrote ten books on malaria, parasitology and infectious diseases, and he discovered and described *Plasmodium ovale*. In 1931 he retired from the Army to become Professor of Tropical Medicine and head of the Department at Tulane School of Medicine. He was President of the American Society of Tropical Medicine (1915), Editor-in-Chief of the *American Journal of Tropical Medicine* (1927-1946) and Editor of the *Journal of the National Malaria Society* (1942-1944).

CHAIR

Robert Tesh

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

6:15 p.m.

INTRODUCTION

William A. Petri

University of Virginia, Charlottesville, VA, United States

6:30 p.m.

**CHARLES FRANKLIN CRAIG LECTURE:
CONTROLLED HUMAN INFECTION MODELS: SAFETY AND
GENERALIZABILITY FOR GLOBAL HEALTH**



Beth Kirkpatrick, MD, FASTMH, FIDSA
*Professor and Chair, Department of
Microbiology
Molecular Genetics Director, Vaccine
Testing Center
University of Vermont Robert Larner, MD
College of Medicine
Burlington, VT, United States*

Dr. Kirkpatrick is the Chair of the Department of Microbiology and Molecular Genetics at the UVM College of Medicine. She founded the UVM Vaccine Testing Center (VTC) in 2002 and leads a committed team of faculty and staff researchers studying human immunology and vaccines with the goal of understanding and preventing infectious diseases around the globe. Dr. Kirkpatrick and her team perform U.S.-based and international clinical research, which includes clinical trials and human experimental infection models, as well as translational research. In addition to developing and evaluating candidate vaccines, the team strives to characterize the human host's immunological response to clinically important infectious agents and vaccines, with a particular interest in enteric infections and flaviviruses. Dr. Kirkpatrick obtained her Doctor of Medicine from Albany Medical College. She performed residency in Internal Medicine at the University of Rochester and completed her Infectious Disease Fellowship at Johns Hopkins School of Medicine.

Sponsored Symposium

From R&D to Access for Sleeping Sickness Elimination: Innovative Public-Private Partnerships for New Tools

Sheraton - Waterbury (2nd Floor)

Monday, October 29, 7:15 p.m. - 9:15 p.m.

**Sponsored by Sanofi and Drugs for Neglected
Diseases initiative**

See page 43 for information.

Tuesday, October 30

Registration

Marriott - Preservation Hall (2nd Floor)

Tuesday, October 30, 7 a.m. - 5 p.m.

Speaker Ready Room

Sheraton - Maurepas (3rd Floor)

Marriott - Mardi Gras ABC (3rd Floor)

Tuesday, October 30, 7 a.m. - 5 p.m.

TropStop- Student/Trainee Lounge

Sheraton - Lagniappe (2nd Floor)

Tuesday, October 30, 7 a.m. - 5 p.m.

**Sponsored by Indiana University Ryan White Center for
Pediatric Infectious Diseases & Global Health**

This casual setting, designed with students, trainees and residents in mind (coffee, internet), is your place for a break from the fast-pace of the meeting and relax with colleagues and friends. Check out the "Career Chats," held in the TropStop. This will be your opportunity to meet up-and-coming professionals in the fields of tropical medicine, global health, science and industry who will share their personal career paths and answer your questions about the various bumps and forks in the road.

Meeting Sign-Up Room

Sheraton - Mid-City and Muses (8th Floor)

Tuesday, October 30, 7 a.m. - 7 p.m.

AJTMH Editorial Board Meeting

Sheraton - Grand Couteau (5th Floor)

Tuesday, October 30, 7 a.m. - 8 a.m.

Clinical Group (ACCTMTH) Past Presidents Meeting

Sheraton - Proteus (8th Floor)

Tuesday, October 30, 7 a.m. - 8 a.m.

Shope Fellowship Committee Meeting

Sheraton - Crescent (4th Floor)

Tuesday, October 30, 7 a.m. - 8 a.m.

Press Room

Marriott-Audobon (5th Floor)

Tuesday, October 30, 7:45 a.m. - 5 p.m.

Scientific Session 51

HIV and Tropical Co-Infections

Sheraton - Rodrigue Gallery (1st Floor)
Tuesday, October 30, 8 a.m. - 9:45 a.m.

CHAIR

Arlene E. Dent
Case Western Reserve University, Cleveland, OH, United States

Martin P. Grobusch
Academic Medical Center, Amsterdam, Netherlands

8 a.m.

709

INTESTINAL PARASITOSIS IN RELATION TO CD4+T CELLS LEVELS AND ANEMIA AMONG HAART INITIATED AND HAART NAÏVE PEDIATRIC HIV PATIENTS IN MODEL ART CENTER, ADDIS ABABA, ETHIOPIA

Hylemariam Mihiretie Mengist
Debre Markos University, Debre Markos, Ethiopia

8:15 a.m.

710

PERFORMANCE CHARACTERISTICS OF POINT OF CARE LYNX TEST IN EARLY INFANT DIAGNOSIS OF HIV

Nkumbula Moyo¹, Sylvia Maunga¹, Jane Mutanga², Simon Mutembo³, Philip Thuma¹, William Moss⁴, Catherine Sutcliffe⁴
¹Macha Research Trust, Lusaka, Zambia, ²Livingstone Central Hospital, Livingstone, Zambia, ³Southern Province Medical Office, Choma, Zambia, ⁴Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

8:30 a.m.

711

HIV+ PREGNANT WOMEN HAVE DIMINISHED TRANSPLACENTAL TRANSFER OF NATURALLY ACQUIRED ANTIMALARIAL ANTIBODIES COMPARED TO HIV-PREGNANT WOMEN IN KENYA

Jessica Ray¹, David Midem², Fredrick Opinya², Maxwel Omenda², Sidney Ogolla², Edwin Odhiambo², Peter Sumba², Katherine Dobbs¹, Amy Nowacki³, Rosemary Rochford⁴, Arlene E. Dent¹
¹Case Western Reserve University, Cleveland, OH, United States, ²Kenya Medical Research Institute, Kisumu, Kenya, ³Cleveland Clinic Foundation, Cleveland, OH, United States, ⁴University of Colorado, Denver, CO, United States

8:45 a.m.

712

HIV MULTI-CLASS RESISTANCE IN PATIENTS FAILING TO FIRST AND SECOND ART IN RESOURCES LIMITED SETTING, MALI

Almoustapha Issiaka Maiga¹, Oumar Dolo¹, Fatoumata Tata Traore¹, Josue Togo¹, Cathia Soulie², Zoumana Diarra³, Arkiétou Maiga¹, Mamadou Cisse³, Mariam Sylla⁴, Susan Orsega⁵, Seydou Doumbia¹, Vincent Calvez², Anne-Genevieve Marcelin², Souleymane Diallo¹, Robert Murphy⁶
¹UCRC/SERFEO, FMOS, USTTB, Bamako, Mali, ²Virology Laboratory, Pitie-Salpetriere Hospital, Paris, France, ³CESAC, ARCAD SIDA, Bamako, Mali, ⁴Pediatric Department, CHU Gabriel Toure, Bamako, Mali, ⁵National Institute of Allergy and Infectious Diseases (NIAID), Bethesda, MD, United States, ⁶Infectious Disease Department, Northwestern University, Chicago, IL, United States

9 a.m.

713

COMPARISON BETWEEN HUMAN IMMUNODEFICIENCY VIRUS (HIV) POSITIVE AND NEGATIVE PATIENTS ADMITTED WITH RESPIRATORY ILLNESSES IN SIAYA COUNTY REFERRAL HOSPITAL (SCRH), WESTERN KENYA, 2014-2016

Diba Dulacha¹, Bryan Nyawanda²
¹Kenya Field Epidemiology and Laboratory Training Program, Nairobi, Kenya, ²Kenya Medical Research Institute, Nairobi, Kenya

9:15 a.m.

714

GLOBAL HEALTH ENGAGEMENT VIA THE AFRICAN COHORT STUDY: QUANTIFYING THE PREVALENCE AND INCIDENCE OF HIV-ASSOCIATED CO-INFECTIONS IN SUB-SAHARAN AFRICA

Christina S. Polyak¹, Trevor A. Crowell¹, Allahna L. Esber¹, Domonique M. Reed¹, Ajay P. Parikh¹, Francis Kiweewa², Jonah Maswai³, John Owuoth⁴, Lucas Maganga⁵, Emmanuel Bahemana⁵, Yakubu Adamu⁶, Leigh Anne Eller¹, Patrick W. Hickey⁷, Merlin L. Robb¹, Nelson L. Michael⁷, Julie A. Ake⁷
¹US Military HIV Research Program, Walter Reed Army Institute of Research; Henry M. Jackson Foundation for the Advancement of Military Medicine, Bethesda, MD, United States, ²Makerere University-Walter Reed Project, Kampala, Uganda, ³Henry M. Jackson Foundation Medical Research International, Kericho, Kenya, ⁴Henry M. Jackson Foundation Medical Research International, Kisumu, Kenya, ⁵Mbeya Medical Research Centre, Mbeya, United Republic of Tanzania, ⁶US Military HIV Research Program, Walter Reed Army Institute of Research, Abuja, Nigeria, ⁷US Military HIV Research Program, Walter Reed Army Institute of Research, Bethesda, MD, United States

9:30 a.m.

715

TRACKING HIV/AIDS FINANCING AND THE RESPONSE TO DECLINES IN DEVELOPMENT ASSISTANCE FOR HIV/AIDS

Mark Moses¹, Annie Haakenstad², Miranda Tao¹, Abby Chapin¹, Joseph Dieleman¹
¹IHME, Seattle, WA, United States, ²Harvard T.H. Chan School of Public Health, Boston, MA, United States

Scientific Session 52

Filariasis: Molecular Biology, Immunology and Diagnostics

Sheraton - Waterbury (2nd Floor)
Tuesday, October 30, 8 a.m. - 9:45 a.m.

CHAIRS

Sandra Bonne-Annee
National Institutes of Health, Bethesda, MD, United States

Samuel Wanji
University of Buea, Buea, Cameroon

8 a.m.

716

BEYOND IGG4 ANTIBODIES TO OV-16: ONCHOCERCA VOLVULUS-SPECIFIC BIOMARKERS THAT PUSH SENSITIVITIES FOR INFECTION ABOVE 95%

Sasisekhar Bennuru¹, Chinweoke Osiawe¹, Georgiette Oduro-Boateng¹, David Abraham², Sara Lustigman³, Thomas Nutman¹
¹National Institutes of Health, Bethesda, MD, United States, ²Thomas Jefferson University, Philadelphia, PA, United States, ³New York Blood Center, New York, NY, United States

8:15 a.m.

717

DEVELOPMENT OF IN NEW VITRO CULTURE SYSTEMS FOR THE MAINTENANCE OF MICROFILARIAE AND INFECTIVE LARVAE OF LOA LOA FOR DRUG SCREENING

Abdel Jelil Njouendou¹, Fanny Fri Fombad¹, Narcisse Victor Gandjui¹, Maeghan O'Neill², Denis Zofou¹, Chuck Nutting³, Chuck Nutting³, Patrick Chunna Ndongmo¹, Peter Ayuk Enyong¹, Mark J. Taylor⁴, Timothy G. Geary², Joseph D. Turner⁴, Charles D. Mackenzie⁵, Samuel Wanji¹

¹University of Buea, Buea, Cameroon, ²Institute of Parasitology, McGill University, Ste-Anne-de-Bellevue, QC, Canada, ³Department of Biological Sciences, Western Michigan University, Kalamazoo, MI, United States, ⁴Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ⁵Department of Pathobiology and Diagnostic Investigation, Michigan State University, East Lansing, MI, United States

(ACMCIP Abstract)

8:30 a.m.

718

WHOLE BLOOD TRANSCRIPTOME ANALYSIS IDENTIFIES A 7-GENE CLASSIFIER FOR ONCHOCERCA VOLVULUS INFECTION

Ole Lagatie¹, David D'Haese¹, Linda Batsa Debrah², Alex Debrah³, Lieven J. Stuyver¹

¹Janssen Diagnostics, Janssen R&D, Beerse, Belgium, ²Kumasi Centre for Collaborative Research into Tropical medicine, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, ³Faculty of Allied Health Sciences, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

8:45 a.m.

719

DIFFERENTIAL MODULATION OF HUMAN INNATE LYMPHOID CELL FUNCTION BY IL-10 AND TGF- β

Sandra Bonne-Annee, Thomas Nutman
National Institutes of Health, Bethesda, MD, United States

(ACMCIP Abstract)

9 a.m.

720

IMMUNIZATION WITH RECOMBINANT DIM-1 PROTEIN OF BRUGIA MALAYI INDUCE T AND B CELL IMMUNOGENICITY AND PROTECT MICE AGAINST B. MALAYI INFECTION

Vikas Kushwaha
Panjab Univesity, Chandigarh, India

(ACMCIP Abstract)

9:15 a.m.

721

EVALUATION OF EIGHT NOVEL PEPTIDES FOR THE SEROLOGICAL DETECTION OF INFECTIONS WITH ONCHOCERCA VOLVULUS

Guilherme Maerschner Ogawa¹, Ole Lagatie², Lieven J. Stuyver², Paul T. Cantey¹, Vitaliano A. Cama¹

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Janssen Diagnostics, Beerse, Belgium

9:30 a.m.

722

A NEW SYSTEM FOR THE PRODUCTION OF INFECTIVE LARVAE OF LOA LOA USING INTRATHORACIC INJECTION OF MICROFILARIAE TO CHRYSOPS SILACEA

Wanji Samuel¹, Bertrand Ndzeshang Lontum Lontum¹, Winston Ndongmo Chounna¹, Fanny Fri Fombad¹, Abdel Jelil Njouendou¹, Anizette Chi Kien¹, Manuel Ritter², Peter Ayuk Enyong¹, Mark Taylor³, Joseph Turner³, Achim Hoerauf²

¹University of Buea, Buea, Cameroon, ²Institute of Medical Microbiology,

Immunology and Parasitology, University Hospital of Bonn, Bonn, Germany, ³Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Symposium 53

Innovative Treatment Strategies for Severely Ill Infants and Children in Low-Resource Settings - Thinking Beyond Antibiotics

Sheraton - Rhythms (2nd Floor)

Tuesday, October 30, 8 a.m. - 9:45 a.m.

Despite substantial progress in lowering child mortality in low-resource settings, continued innovations are urgently needed for reductions in pediatric mortality to continue. Severely ill children constitute a key population, as they comprise the majority of fatalities in low-resource settings. Innovations targeting higher risk, severely ill children in low-resource countries will be needed in order to achieve the ambitious mortality reductions set forth in the Sustainable Development Goals. This symposium aims to gather leading pediatric experts working in low-income settings to provide updates on advances in treatments for severely ill infants and children including novel hospital quality of care interventions, illness severity scores, state-of-the-art non-invasive ventilation strategies, and fluid management.

CHAIR

Eric D. McCollum
Johns Hopkins University School of Medicine, Eudowood Division of Pediatric Respiratory Sciences, Baltimore, MD, United States

Amy S. Ginsburg
Save the Children, Seattle, WA, United States

8 a.m.

HEALTH SYSTEM FACILITY-BASED SCORES: IMPROVING PEDIATRIC QUALITY OF CARE IN LOW-RESOURCE SETTINGS FOR SEVERELY ILL CHILDREN

Charles Opondo
KEMRI Wellcome Trust Research Programme, Nairobi, Kenya

8:20 a.m.

PEDIATRIC SEVERITY OF ILLNESS SCORES IN LOW-RESOURCE SETTINGS: POTENTIAL IMPLEMENTATION STRATEGIES

Carina King
University College London, London, United Kingdom

8:40 a.m.

SYNDROMIC MANAGEMENT OF INFANTS AND CHILDREN WITH SEVERE SEPSIS IN LOW-RESOURCE SETTINGS

Ahmed Ehsanur Rahman
International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

9 a.m.

NON-INVASIVE VENTILATION OF SEVERELY ILL NEONATES AND CHILDREN IN LOW-RESOURCE SETTINGS

Tisungane Mvalo
University of North Carolina Project-Malawi, Lilongwe, Malawi

Scientific Session 54

Dengue: Pathogenesis/Immunology

Sheraton - Grand Ballroom A/B (5th Floor)

Tuesday, October 30, 8 a.m. - 9:45 a.m.

CHAIR

Ralph Baric

University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

Chunling Wang

University of California Berkeley, Berkeley, CA, United States

8 a.m.

723

IDENTIFYING A ROLE FOR SETPOINT ANTIBODY TITERS IN DENGUE INFECTION AND DISEASE RISK

Henrik Salje¹, Derek Cummings², Isabel Rodríguez-Barraquer³, Leah Katzelnick⁴, Chonticha Klungthong⁵, Butsay Thaisomboonsuk⁶, Ananda Nisalak⁵, Alden Weg⁵, Damon Elison⁵, Louis Macareo⁵, Justin Lessler⁶, In-Kyu Yoon⁷, Richard Jarman⁸, Stephen Thomas⁹, Alan Rothman¹⁰, Timothy Endy¹¹, Simon Cauchemez¹

¹Institut Pasteur, Paris, France, ²University of Florida, Gainesville, FL, United States, ³University of California San Francisco, San Francisco, CA, United States, ⁴University of Florida, Gainesville, FL, United States, ⁵Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ⁶Johns Hopkins University, Baltimore, MD, United States, ⁷IVI, Seoul, Korea, Democratic People's Republic of, ⁸Walter Reed Army Institute of Research, Silver Spring, MD, United States, ⁹SUNY, Buffalo, NY, United States, ¹⁰University of Rhode Island, Providence, RI, United States, ¹¹SUNY, Syracuse, NY, United States

8:15 a.m.

724

WANING OF ANTI-DENGUE VIRUS ANTIBODIES FOLLOWING PRIMARY AND SECONDARY DENGUE VIRUS INFECTION AND IMPLICATIONS FOR SEROTYPE TRANSMISSION DYNAMICS

Leah Katzelnick¹, Juan Carlos Mercado², Damaris Collado³, Lionel Gresh³, Douglas Elizondo³, Sonia Arguello³, Andrea Nuñez², Sergio Ojeda³, Nery Sanchez³, Brenda Lopez³, Raquel Burger-Calderon¹, Aubree Gordon⁴, Guillermina Kuan⁵, Angel Balmaseda², Eva Harris¹

¹Division of Infectious Diseases and Vaccinology, School of Public Health, University of California Berkeley, Berkeley, CA, United States, ²Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministry of Health, Managua, Nicaragua, ³Sustainable Sciences Institute, Managua, Nicaragua, ⁴Department of Epidemiology, School of Public Health, University of Michigan, Ann Arbor, MI, United States, ⁵Centro de Salud Sócrates Flores Vivas, Ministry of Health, Managua, Nicaragua

8:30 a.m.

725

FLAVIVIRUS INDUCED T CELL CROSS-REACTIVITY

Alba Grifoni¹, Patrick H. O'Rourke¹, Aruna D. de Silva², Priscilla R. Costa³, Anna Durbin⁴, Sean A. Diehl⁵, Cristhiam Cerpas⁶, Angel Balmaseda⁶, Esper G. Kallas³, Eva Harris⁷, Alessandro Sette¹, **Daniela Weiskopf**¹

¹La Jolla Institute for Allergy and Immunology, La Jolla, CA, United States, ²Kotelawala Defense University, Ratmalana, Sri Lanka, ³University of São Paulo, Brazil, Sao Paulo, Brazil, ⁴Johns Hopkins University, Baltimore, MD, United States, ⁵University of Vermont, Burlington, VT, United States, ⁶National Virology Laboratory, Managua, Nicaragua, ⁷University of California Berkeley, Berkeley, CA, United States

8:45 a.m.

726

ENDOCYTOSIS OF DENGUE VIRUS NS1 BY HUMAN ENDOTHELIAL CELLS IS REQUIRED FOR NS1-MEDIATED BARRIER DYSFUNCTION AND IS ABOLISHED BY A SINGLE N-GLYCOSYLATION SITE MUTATION

Chunling Wang, Henry Puerta-Guardo, Dustin R. Glasner, Edwina Beryl Tran, Carmel Malvar, Mark Patana, Eva Harris

Division of Infectious Diseases and Vaccinology, School of Public Health, University of California Berkeley, Berkeley, CA, United States

9 a.m.

727

DENGUE VIRUS NS1 PROTEIN ACTIVATES ENDOTHELIAL CELLS

Arturo Barbachano-Guerrero, Christine King, Timothy Endy
SUNY Upstate Medical University, Syracuse, NY, United States

9:15 a.m.

728

GENETIC VARIATION BETWEEN DENGUE VIRUS TYPE 4 STRAINS IMPACTS HUMAN ANTIBODY BINDING AND NEUTRALIZATION AFTER INFECTION AND VACCINATION

Ralph S. Baric¹, Emily N. Gallichotte¹, Thomas J. Baric¹, Usha Nivarthi¹, Rachel Graham¹, Douglas Widman¹, Boyd Yount¹, Anna Durbin², Steve Whitehead³, Aravinda de Silva¹

¹University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, ²Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ³National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

9:30 a.m.

729

MODEL-BASED ASSESSMENT OF PUBLIC HEALTH IMPACT AND COST-EFFECTIVENESS OF ROUTINE VACCINATION WITH DENGVAXIA® FOLLOWING SCREENING FOR PRIOR DENGUE VIRUS EXPOSURE

Guido España¹, Yutong Yao¹, Kathryn Anderson², Meagan Fitzpatrick³, David L. Smith⁴, Amy C. Morrison⁵, Thomas W. Scott⁵, Alex Perkins¹

¹University of Notre Dame, Notre Dame, IN, United States, ²University of Minnesota, Minneapolis, MN, United States, ³University of Maryland, College Park, MD, United States, ⁴University of Washington, Seattle, WA, United States, ⁵University of California Davis, Davis, CA, United States

Symposium 55

Combating Antimicrobial Resistance: A Global Health Priority

Sheraton - Grand Ballroom C (5th Floor)

Tuesday, October 30, 8 a.m. - 9:45 a.m.

In May 2015, the World Health Assembly endorsed a global action plan to tackle antimicrobial resistance, an emerging global health priority. The global action plan sets out five strategic objectives: 1) to improve awareness and understanding of antimicrobial resistance; 2) to strengthen knowledge through surveillance and research; 3) to reduce the incidence of infection; 4) to optimize the use of antimicrobial agents; and 5) develop the economic case for sustainable investment that takes account of the needs of all countries, and increase investment in new medicines, diagnostic tools, vaccines and other interventions. This symposium will discuss some of the ongoing programs designed to meet these goals, challenges and innovations in implementing activities, and the development of new training programs to increase capacity. The first presenter will provide an overview and update on the Global Antimicrobial Resistance Surveillance System (GLASS), the program initiated by the WHO to foster standardized AMR surveillance globally. The next speaker will discuss the challenges of implementing the Global Action Plan in a diverse socioeconomic region. The following presenter

will discuss the challenges in developing programs meaningful national programs in Antimicrobial Stewardship and Infection Prevention, and highlight successes in implementing effective programs locally. The final speaker will describe ongoing efforts in developing curricula and training in Antimicrobial Stewardship and Infection Prevention, as well as describe new programs being developed specifically designed to build professional capacity in this critical area.

CHAIR

John W. Sanders
Wake Forest University School of Medicine, Winston-Salem, NC, United States

Joel M. Montgomery
Centers for Disease Control and Prevention, Atlanta, GA, United States

8 a.m.

AN UPDATE ON THE GLOBAL ANTIMICROBIAL RESISTANCE SURVEILLANCE SYSTEM (GLASS)

Benjamin J. Park
Centers for Disease Control and Prevention, Atlanta, GA, United States

8:20 a.m.

IMPLEMENTING THE GLOBAL ACTION PLAN ON ANTIMICROBIAL RESISTANCE: THE EMRO PERSPECTIVE

Rana Hajjeh
World Health Organization/EMRO, Cairo, Egypt

8:40 a.m.

CHALLENGES IN SHAPING NATIONAL AND LOCAL PROGRAMS IN ANTIMICROBIAL STEWARDSHIP AND INFECTION

Maha Talaat
World Health Organization/EMRO, Cairo, Egypt

9 a.m.

DEVELOPING TRAINING AND RESEARCH IN ANTIMICROBIAL STEWARDSHIP AND INFECTION PREVENTION

Werner E. Bischoff
Wake Forest University School of Medicine, Winston-Salem, NC, United States

Symposium 56

Overcoming Challenges in Drug Discovery and Development for Rare and Neglected Viral Infections

Sheraton - Grand Ballroom D/E (5th Floor)

Tuesday, October 30, 8 a.m. - 9:45 a.m.

Outbreaks of rare and neglected viral infections remain a major threat to public health worldwide. Filoviruses, coronaviruses, and paramyxoviruses are among pathogens with high potential for triggering outbreaks with possibly global consequences. Currently, there are no approved medical countermeasures for the prevention and/or treatment of any of these highly pathogenic infections that could be widely available to effectively control future outbreaks. A number of neutralizing antibodies and small molecule antivirals active against pathogenic viruses with high outbreak potential are advancing

through various stages of the drug development process. While important lessons have been learned and major progress made in designing and conducting clinical trials with multiple investigational agents during the 2013-16 Ebola outbreak in West Africa, the development process towards regulatory approval is often significantly more complex compared to the conventional development of anti-infective agents targeting more common pathogens. The complexities are related to a wide range of unique aspects including: 1) Limited capacity of high containment laboratory facilities. 2) Lack of characterized relevant animal models that can be predictive of clinical efficacy. 3) Difficulties with planning and preparation of clinical efficacy studies that can only be conducted during disease outbreaks unpredictable in terms of timing, size and geography. 4) Technical, organizational, regulatory, and political challenges in conducting controlled clinical studies in outbreak locations. 5) Real or perceived challenges in reaching consensus on the design and execution of clinical trials suitable to support registration of investigational products. 6) Limited commercial incentives for private drug development sector. At least some of these challenges can be effectively addressed through forming collaborative partnerships and consortia among key stakeholders including first-line medical emergency responders, government organizations, regulatory authorities, academic experts, drug development companies, and funding agencies. This symposium will discuss progress and challenges in the development of drugs for treatment and prevention of some of the key viral pathogens representing global health threats. The selected speakers will present specific examples and highlight potential solutions for overcoming some of the identified challenges to facilitate and accelerate the drug development process.

CHAIR

Daniel G. Bausch
UK Public Health Rapid Support Team, London, United Kingdom

8 a.m.

DISCOVERY AND DEVELOPMENT OF DRUGS FOR NEGLECTED VIRAL INFECTIONS

Larry Zeitlin
Mapp Biopharmaceutical, Inc., San Diego, CA, United States

8:15 a.m.

DISCOVERY AND DEVELOPMENT OF SMALL MOLECULE ANTIVIRALS FOR NEGLECTED VIRAL INFECTIONS

Tomas Cihlar
Gilead Sciences, Inc., Foster City, CA, United States

8:30 a.m.

DESIGN, EXECUTION, AND COMMUNITY ENGAGEMENT FOR CLINICAL TRIALS CONDUCTED DURING OUTBREAKS OF NEGLECTED VIRAL PATHOGENS

Elizabeth Higgs
National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States

8:45 a.m.
REGULATORY ASPECT OF THE DEVELOPMENT OF DRUGS FOR NEGLECTED VIRAL INFECTIONS

Barbara Styrt
Office of Antimicrobial Products, US Food and Drug Administration, Silver Spring, MD, United States

9:05 a.m.
PARTNERSHIPS IN THE DRUG DEVELOPMENT PROCESS: SUCCESSES, FAILURES, AND GAPS

Peter Dull
Bill & Melinda Gates Foundation, Seattle, WA, United States

Symposium 57

Progress towards the Global Elimination of Trachoma through Integrated NTD Programs

Marriott - La Galerie 1/2 (2nd Floor)
Tuesday, October 30, 8 a.m. - 9:45 a.m.

This session will describe progress towards trachoma elimination in Malawi, as well as the results of surveys conducted in Fiji, the Solomon Islands, Vanuatu and Kiribati using clinical examination, serology and molecular tests for infection to establish the epidemiology of trachoma and yaws, and the impact of mass drug administration (MDA) with azithromycin on the prevalence of these NTDs. The symposium will also discuss the utility and feasibility of using alternative indicators, such as serology and nucleic acid amplification tests for ocular Chlamydia trachomatis infection, in an elimination setting. The session will conclude with an update on progress towards the global elimination of trachoma as a public health problem, targeted for 2020.

CHAIR

David C. Mabey
London School of Hygiene & Tropical Medicine, London, United Kingdom
Agatha Aboe
SightSavers International, Haywards Heath, United Kingdom

8 a.m.
PROGRESS TOWARDS THE ELIMINATION OF TRACHOMA IN THE PACIFIC REGION

Chrissy H. Roberts
London School of Hygiene & Tropical Medicine, London, United Kingdom

8:20 a.m.
PROGRESS TOWARDS TRACHOMA ELIMINATION IN MALAWI

Khumbo Kalua
College of Medicine, Blantyre, Malawi

8:40 a.m.
UTILITY AND FEASIBILITY OF USING ALTERNATIVE INDICATORS IN AN ELIMINATION SETTING

Laura Senyonjo
SightSavers, Haywards Heath, United Kingdom

9 a.m.
PROGRESS TOWARDS GLOBAL ELIMINATION OF TRACHOMA AS A PUBLIC HEALTH PROBLEM

Anthony W. Solomon
World Health Organization, Geneva, Switzerland

Scientific Session 58

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Worms and Trematodes: Immunology and Vaccines

Marriott - La Galerie 3 (2nd Floor)
Tuesday, October 30, 8 a.m. - 9:45 a.m.

Supported with funding from the Burroughs Wellcome Fund

CHAIR

Marc P. Hübner
University Hospital Bonn, Bonn, Germany

Alessandra Ricciardi
National Institutes of Health, National Institute of Allergy and Infectious Diseases, Rockville, MD, United States

8 a.m. **2119**

ANTIBODY RESPONSES AGAINST THE CANDIDATE VACCINE ANTIGENS OV-103 AND OV-RAL-2 ARE ASSOCIATED WITH PROTECTIVE IMMUNITY IN BOTH MICE AND HUMANS TO ONCHOCERCA VOLVULUS INFECTIVE LARVAE

Jovvian Parakkal¹, Sonia Jain¹, Jessica Hess², Nancy Tricoche¹, David Abraham², Sara Lustigman¹
¹The Lindsley F. Kimball Research Institute, New York Blood Center, New York, NY, United States, ²Department of Microbiology and Immunology, Thomas Jefferson University, Philadelphia, PA, United States

8:15 a.m. **730**

REGULATORY RESPONSES TO SCHISOSOMA MANSONI ARE INITIATED IN THE HUMAN SKIN: SKIN PENETRATING CERCARIAE INDUCE REGULATORY DERMAL APCs

Béatrice M. Winkel¹, Mirjam R. Dalenberg¹, Carola Feijt¹, Clarize M. de Korne¹, Janneke Kos-van Oosterhoud¹, Marijke C. Langenberg¹, Leonard R. Pelgrom¹, Munisha S. Ganesh¹, Hermelijn H. Smits¹, Fijs W. van Leeuwen¹, Maria Yazdanbakhsh¹, Esther C. de Jong², Bart Everts¹, Cornelis H. Hokke¹, Meta Roestenberg¹
¹Leiden University Medical Center, Leiden, Netherlands, ²Academic Medical Center, Amsterdam, Netherlands

(ACMCIP Abstract)

8:30 a.m. **731**

FIBROBLAST-SPECIFIC INTEGRIN ALPHA V DIFFERENTIALLY REGULATES TYPE 2 AND TYPE 17 DRIVEN INFLAMMATION AND FIBROSIS IN SCHISTOSOMA MANSONI INFECTION

Joshua C. Sciarba¹, Kevin M. Hart¹, Richard L. Gieseck III¹, Nikhil Jiwrajka¹, Sandy White¹, Neil C. Henderson², Thomas A. Wynn¹
¹National Institutes of Health, Bethesda, MD, United States, ²The University of Edinburgh, Edinburgh, United Kingdom

8:45 a.m.

732

EOSINOPHIL EXTRACELLULAR TRAPS MEDIATE ENTRAPPING OF MICROFILARIAE OF THE RODENT FILARIAL NEMATODE *LITOMOSOIDES SIGMODONTIS*

Alexandra Ehrens¹, Anna-Lena Neumann¹, Wiebke Stamminger¹, Benedikt C. Buerfent¹, Margret Harnett², William Harnett³, Coralie Martin⁴, Achim Hoerauf¹, Marc P. Hübner¹

¹Institute for Medical Microbiology, Immunology and Parasitology, University Hospital Bonn, Bonn, Germany, ²Institute of Infection, Immunity and Inflammation, Glasgow Biomedical Research Centre, University of Glasgow, Glasgow, United Kingdom, ³Strathclyde Institute of Pharmacy and Biomedical Sciences, University of Strathclyde, Glasgow, United Kingdom, ⁴Unité Molécules de Communication et Adaptation des Microorganismes (MCAM, UMR 7245), Sorbonne Universités, Muséum national d'Histoire naturelle, CNRS, Paris, France

(ACMCIP Abstract)

9 a.m.

733

IL-10 AND ITS RELATED SUPERFAMILY MEMBERS IL-19 AND IL-24 PROVIDE PARALLEL/REDUNDANT IMMUNE-MODULATION IN LOA LOA INFECTION

Alessandra Ricciardi, Thomas B. Nutman
Helminth Immunology Section, Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

9:15 a.m.

734

ABSENCE OF S100A9 INCREASES INFLAMMATORY IMMUNE RESPONSES AGAINST *L. SIGMODONTIS* L3 LARVAE AND IMPAIRS LARVAL MIGRATION

Stefan J. Frohberger¹, Frederic Fercoq², Surendar Jayagopi¹, Anna-Lena Neumann¹, Wiebke Stamminger¹, Achim Hoerauf¹, Coralie Martin², Marc P. Hübner¹

¹Institute for Medical Microbiology, Immunology and Parasitology, University Hospital Bonn, Bonn, Germany, ²Unité Molécules de Communication et Adaptation des Microorganismes (MCAM, UMR 7245), Sorbonne Universités, Muséum national d'Histoire naturelle, CNRS, Paris, France

(ACMCIP Abstract)

9:30 a.m.

735

EVALUATING INTESTINAL PROTEINS OF ADULT FILARIAL WORMS AS POTENTIAL VACCINE AND DRUG TARGETS

Alexander F. Flynn¹, Rebekah T. Taylor², Sasisekhar Bennuru³, C. Paul Morris⁴, Thomas B. Nutman³, Edward Mitre¹

¹Uniformed Services University of the Health Sciences, Bethesda, MD, United States, ²Frostburg State University, Frostburg, MD, United States, ³National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ⁴Department of Pathology, Johns Hopkins Hospital, Baltimore, MD, United States

(ACMCIP Abstract)

Scientific Session 59

Malaria: Pre-Clinical and Clinical Drug Development - Tools, Novel Approaches and New Candidates

Marriott - La Galerie 4/5/6 (2nd Floor)

Tuesday, October 30, 8 a.m. - 9:45 a.m.

CHAIR

Francisco-Javier Gamero
GlaxoSmithKline, Tres Cantos (Madrid), Spain

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

8 a.m.

736

A HUMAN 3D CELL-BASED PLATFORM FOR DRUG DISCOVERY TARGETING *PLASMODIUM* HEPATIC INFECTION

Sofia Rebelo¹, Francisca Arez¹, Diana Fontinha², Daniel Simão¹, Marta Machado², Tatiana Martins¹, Manuel Carrondo¹, Thomas Spangenberg³, Catarina Brito¹, Beatrice Greco³, Miguel Prudêncio², Paula Alves¹
¹iBET - Instituto de Biologia Experimental e Tecnológica and Instituto de Tecnologia Química e Biológica António Xavier, Universidade Nova de Lisboa, Oeiras, Portugal, ²iMM - Instituto de Medicina Molecular João Lobo Antunes, Lisboa, Portugal, ³Merck Global Health Institute, Darmstadt, Germany

8:15 a.m.

737

PROTEASOME INHIBITOR-BASED COMBINATION THERAPY POTENTLY INHIBITS ARTEMISININ-RESISTANT *PLASMODIUM FALCIPARUM*

Barbara H. Stokes¹, Euna Yoo², James M. Muriungi¹, Sabine Ottilie³, Madeline R. Luth³, Elizabeth A. Winzeler³, Matthew S. Bogoy², David A. Fidock¹, Caroline L. Ng⁴

¹Columbia University Medical Center, New York, NY, United States, ²Stanford University School of Medicine, Stanford, CA, United States, ³University of California San Diego, San Diego, CA, United States, ⁴University of Nebraska Medical Center, Omaha, NE, United States

(ACMCIP Abstract)

8:30 a.m.

738

ANTIMALARIAL PYRROLIDINAMIDES FAST-ACTING COMPOUNDS WITH A NOVEL MODE OF ACTION

Laura M. Sanz, María G. Gomez, María Jose Lafuente, Isabel Castellote, John Haselden, Francisco Javier Gamero
GlaxoSmithKline, Tres Cantos (Madrid), Spain

(ACMCIP Abstract)

8:45 a.m.

739

A RANDOMIZED CONTROLLED TRIAL COMPARING PARASITE CLEARANCE PROFILES AFTER SINGLE DOSE ARTESUNATE AMONG SUBJECTS EXPERIMENTALLY INFECTED WITH ARTEMISININ-RESISTANT OR ARTEMISININ-SENSITIVE *PLASMODIUM FALCIPARUM* PARASITES

Rebecca E. Watts¹, Maria Rebelo¹, Anand Odedra¹, Jörg J. Möhrle², Stephan Chalon², Louise Marquart¹, James S. McCarthy¹

¹QIMR Berghofer Medical Research Institute, Brisbane, Australia, ²Medicines for Malaria Venture, Geneva, Switzerland

9 a.m.

740

SJ733, AN ORAL, INHIBITOR OF PFATP4 COMBINED WITH A PHARMACOKINETIC ENHANCER (CYP3A INHIBITOR): A NOVEL APPROACH IN ANTIMALARIAL DRUG DEVELOPMENT

Aditya H. Gaur¹, John C. Panetta¹, Tracy B. Stewart¹, Ronald Dallas¹, Kristen C. Branum¹, Li Tang¹, Burgess B. Freeman III¹, Shelley Ost², Nehali D. Patel¹, Ryan N. Heine¹, Elizabeth John³, Stephan Chalon⁴, Julie L. Richardson¹, Robbin Christensen¹, Andrew Slade⁴, Patricia M. Flynn¹, Fabian Gusovsky⁵, R. Kip Guy⁶

¹St. Jude Children's Research Hospital, Memphis, TN, United States,

²University of Tennessee, Memphis, TN, United States, ³EJOHN Consulting,

Richland, WA, United States, ⁴Medicines for Malaria Venture, Geneva,

Switzerland, ⁵Eisai Inc., Andover, MA, United States, ⁶University of Kentucky

College of Pharmacy, Lexington, KY, United States

9:15 a.m.

741

KAF156 AND LUM-SDF COMBINATION PHASE 2 STUDY PHARMACOKINETIC RUN-IN COHORT RESULTS

Bakary Fofana¹, Martin Grobusch², Jay Prakash Jain³, Djimde Abdoulaye⁴, Sophie Biguenet⁵, **Cornelis Winnips**⁶

¹Malaria Research and Training Center (MRTC), Bamako, Mali, ²Academic

Medical Center, Amsterdam, Netherlands, ³Novartis Institute for Biomedical

Research, Emeryville, CA, United States, ⁴USTTB, Bamako, Mali, ⁵Medicines

for Malaria Venture, Geneva, Switzerland, ⁶Novartis Pharma AG, Basel,

Switzerland

9:30 a.m.

742

PHARMACOGENETICS OF THE IVERMAL TRIAL: HUMAN METABOLIC GENES AND MOSQUITO MORTALITY RESPONSE TO HIGH-DOSE IVERMECTIN CO-ADMINISTERED WITH DIHYDROARTEMISININ-PIPERAQUINE

Menno R. Smit¹, Helmi E. Pett², Katriina E. Tarkiainen², Eric O. Ochomo³, Ghaith Aljayyousi¹, David Waterhouse¹, Aaron M. Samuels⁴, Meghna R. Desai⁴, Steve A. Ward¹, Simon K. Kariuki³, Feiko O. ter Kuile¹, Teun Bousema⁵, Mikko O. Niemi²

¹Liverpool School of Tropical Medicine, Liverpool, United Kingdom,

²University of Helsinki, Helsinki, Finland, ³Kenya Medical Research Institute,

Kisumu, Kenya, ⁴U.S. Centers for Disease Control and Prevention, Atlanta,

GA, United States, ⁵Radboud University Medical Center, Nijmegen,

Netherlands

Scientific Session 60

Malaria: Epidemiology - Risk Factors, Intervention Studies and Impact

Marriott - Mardi Gras D (3rd Floor)

Tuesday, October 30, 8 a.m. - 9:45 a.m.

CHAIR

Meghna Desai

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

Maria A. Ome-Kaius

Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia

8 a.m.

743

Presentation by Burroughs Wellcome Fund-ASTMH Fellowship Recipient

SEVERE MALARIAL ANEMIA AND IN-HOSPITAL MORTALITY IN ZAMBIAN CHILDREN WITH AND WITHOUT BLOOD TRANSFUSION

Matthew Ippolito¹, Manuela Hauser², Emmanuel Mpundu³, Jean-Bertin Kabuya⁴, Jay F. Sikalima⁴, Luc K. Kamavu³, Catherine Tente³, Modest Mulenga⁴, William J. Moss¹

¹Johns Hopkins University School of Medicine, Baltimore, MD, United

States, ²University Children's Hospital, Zurich, Switzerland, ³Saint Paul's

General Hospital, Nchelenge, Zambia, ⁴Tropical Diseases Research Centre,

Ndola, Zambia

8:15 a.m.

744

PROFILING MALARIA HIGH-RISK GROUPS IN ACEH PROVINCE, INDONESIA: A CASE-CONTROL STUDY

Jennifer L. Smith¹, Chris Cotter¹, Martha G. Silaen², Iska Zarlinda², Jerry O. Jacobson¹, Iqbal RF Elyazar³, Farah N. Coutrier², Adam Bennett¹

¹Malaria Elimination Initiative, Global Health Group, University of California

San Francisco, San Francisco, CA, United States, ²Eijkman-Institute for

Molecular Biology, Jakarta, Indonesia, ³Eijkman-Oxford Clinical Research

Unit, Jakarta, Indonesia

8:30 a.m.

745

WHY SOME CHILDREN WITH UNCOMPLICATED MALARIA PROGRESSED TO SEVERE MALARIA IN UGANDA

Arthur Mpimbaza¹, Grace Ndeezi², Anne Katahoire¹, Charles Karamagi³, Philip J. Rosenthal⁴

¹Child Health and Development Centre, Makerere University-College of

Health Sciences, Kampala, Uganda, ²Department of Pediatrics and Child

Health, Makerere University-College of Health Sciences, Kampala, Uganda,

³Clinical Epidemiology Unit, Department of Medicine, Makerere University-

College of Health Sciences, Kampala, Uganda, ⁴Department of Medicine,

University of California, San Francisco, CA, United States

8:45 a.m.

746

EVALUATION OF MALARIA RECURRENCE IN BRAZIL

André Daher

Oswaldo Cruz Foundation, Rio de Janeiro, Brazil

9 a.m.

747

IMPACT OF IMPROVED MALARIA CONTROL ON THE FORCE OF INFECTION OF P. FALCIPARUM AND P. VIVAX IN YOUNG PAPUA NEW GUINEAN CHILDREN

Maria A. Ome-Kaius¹, Eline Kattenberg², Matthew Siba³, Shadrach Jally³, Zahra Razook¹, Daisy Mantila³, Desmond Sui³, Jason Ginny³, Stephan Karl¹, Thomas Obadia⁴, Moses Laman³, Daniel Tisch⁵, Ingrid Felger⁶, James Kazura⁵, Ivo Mueller¹, Leanne Robinson⁷

¹Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia,

²Institute of Tropical Medicine in Antwerp, Antwerp, Belgium, ³Papua New

Guinea Institute of Medical Research, Madang, Papua New Guinea, ⁴Institut

Pasteur, Paris, Paris, France, ⁵Case Western Reserve University, Cleveland,

OH, United States, ⁶Swiss Tropical and Public Health Institute, Basel,

Switzerland, ⁷Burnet Institute of Medical Research, Melbourne, Australia

9:15 a.m.

748

MALARIA IN THE FIRST TRIMESTER OF PREGNANCY IS ASSOCIATED WITH NON-MALARIA FEVER DURING THE FIRST THREE MONTHS OF LIFE IN A BENINESE INFANT POPULATION

Gino C. Agbota¹, Manfred Accrombessi¹, Sem Ezinmegnon², Urbain Ahouayito³, Basile Agossou³, Achille Massougbodji³, Laurence Ganee⁴, Javier Yougueros Marcos⁴, Alexandre Pachot⁴, Pierre Tissieres⁵, Nadine Fievet⁶, Michel Cot⁶, Valérie Briand⁶

¹Centre d'Etude et de Recherche sur le Paludisme Associé à la Grossesse et à l'Enfant (CERPAGE); UMR216 / Institut de Recherche pour le Développement (IRD), Cotonou, Benin, ²Centre d'Etude et de Recherche sur le Paludisme Associé à la Grossesse et à l'Enfant (CERPAGE); bioMérieux / UMR9198, Cotonou, Benin, ³Centre d'Etude et de Recherche sur le Paludisme Associé à la Grossesse et à l'Enfant (CERPAGE), Cotonou, Benin, ⁴Medical Diagnostic Discovery Department (MD3), bioMérieux, Grenoble, France, ⁵UMR 9198, Institut de biologie Intégrative de la cellule - Université Paris Saclay, Paris, France, ⁶UMR216 / Institut de Recherche pour le Développement (IRD), Paris, France

9:30 a.m.

749

MAJOR RESURGENCE OF MALARIA FOLLOWS PREVIOUSLY UNPRECEDENTED DECLINE IN PAPUA NEW GUINEA

Manuel W. Hetzel¹, Olga P. Saweri², Joseph J. Kuadima², Iso Smith², Lina Lorry², Anthony Tandrapah², Sharon Jamea-Maiasa², Leanne J. Robinson², Peter M. Siba², Justin Pulford³

¹Swiss Tropical and Public Health Institute, Basel, Switzerland, ²Papua New Guinea Institute of Medical Research, Goroka and Madang, Papua New Guinea, ³Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Symposium 61

Genetic Epidemiology for Malaria Elimination

Marriott - Mardi Gras EFGH (3rd Floor)

Tuesday, October 30, 8 a.m. - 9:45 a.m.

This symposium will explore current and future applications of molecular epidemiological data in National Malaria Control Program and Health Ministry decision-making, and in overall malaria control and elimination strategy. A series of brief presentations will describe use cases demonstrating the use of genomic data to address questions of local epidemiological and programmatic relevance in various contexts, including surveillance for changes in transmission, identifying sources and sinks of infection, tracking drug resistance, responding to outbreaks, and applications to elimination and elimination certification. The symposium will also cover considerations and challenges for data requirements, generation, analysis, and integration into existing operational frameworks within NMCPs and Health Ministries, and into epidemiological models. Presentations will be followed by a panel discussion on 1) Needs and challenges of integrating molecular epidemiology into existing operational and decision-making frameworks; 2) Lessons from other infectious diseases, e.g. Ebola, Lassa fever, flu; 3) Unique value of molecular epidemiology in addressing key questions for malaria control and elimination going forward (e.g. drug resistance, vaccine escape, sink and source, surveillance; 4) Sample and data requirements to support these applications.

CHAIR

Sarah Volkman
Harvard T.H. Chan School of Public Health, Boston, MA, United States

Olivo Miotto
Mahidol Oxford Research Unit, Bangkok, Thailand

8 a.m.

GENETIC EPIDEMIOLOGY TO SUPPORT MALARIA TRANSMISSION SURVEILLANCE IN SENEGAL

Daouda Ndiaye
Universite Cheikh Anta Diop, Dakar, Senegal

8:10 a.m.

GENETIC EPIDEMIOLOGY FOR MEASURING THE IMPACT OF LARGE SCALE INTERVENTION (MDA) IN ZAMBIA

Elizabeth Chizema
Zambia Ministry of Health, Lusaka, Zambia

8:20 a.m.

GENETIC EPIDEMIOLOGY APPLICATIONS IN MALARIA ELIMINATION/PRE-ELIMINATION SETTINGS IN LATIN AMERICA

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

8:30 a.m.

GENETIC EPIDEMIOLOGY OF DRUG RESISTANCE IN GREATER MEKONG SUBREGION

Arjen Dondorp
Mahidol Oxford Research Unit, Bangkok, Thailand

Scientific Session 62

Ectoparasite-Born Disease

Marriott - Balcony IJK (3rd Floor)

Tuesday, October 30, 8 a.m. - 9:45 a.m.

CHAIR

Gebbienna M. Bron
University of Wisconsin Madison, Madison, WI, United States

Meghan Elizabeth Hermance
University of Texas Medical Branch, Galveston, TX, United States

8 a.m.

750

THE EFFECT OF PHYSIOLOGICAL STATE ON POWASSAN VIRUS INFECTION OF SALIVARY GLAND CULTURES FROM FEMALE IXODES SCAPULARIS (BLACK-LEGGED TICK): A POTENTIAL ROLE FOR A PUTATIVE TICK TRANSCRIPT

Jeffrey M. Grabowski¹, Elizabeth R. Fischer², Daniel Long³, Dana P. Scott³, Marshall E. Bloom¹

¹Biology of Vector-Borne Viruses Section/Laboratory of Virology/Rocky Mountain Laboratories/National Institute of Allergy and Infectious Diseases/National Institutes of Health, Hamilton, MT, United States, ²Microscopy Unit/Research and Technologies Branch/Rocky Mountain Laboratories/National Institute of Allergy and Infectious Diseases/National Institutes of Health, Hamilton, MT, United States, ³Rocky Mountain Veterinary Branch/Rocky Mountain Laboratories/National Institute of Allergy and Infectious Diseases/National Institutes of Health, Hamilton, MT, United States

8:15 a.m.

751

THE ROLE OF DEER TICK SALIVARY MICRORNAS IN REGULATING POWASSAN VIRUS INFECTION

Meghan E. Hermance, Charles E. Hart, Erin S. Reynolds, Steven G. Widen, Thomas G. Wood, Saravanan Thangamani
The University of Texas Medical Branch, Galveston, TX, United States

8:30 a.m.

752

RISK FACTOR COMPARISON OF HUMAN-TICK ENCOUNTERS BETWEEN LYME DISEASE ENDEMIC AREAS OF THE NORTHEAST AND MIDWEST UNITED STATES

Gebbienna M. Bron¹, Maria P. Fernandez², Pallavi A. Kache², Scott R. Larson¹, Lyric C. Bartholomay¹, Jean I. Tsao³, Maria I. Diuk-Wasser², Susan M. Paskewitz¹
¹*University of Wisconsin - Madison, Madison, WI, United States*, ²*Columbia University, New York City, NY, United States*, ³*Michigan State University, East Lansing, MI, United States*

8:45 a.m.

753

ECOLOGICAL FACTORS DRIVING THE EMERGENCE OF BABESIOSIS IN THE UNITED STATES: THE ROLE OF CONFECTION AND ALTERNATIVE TRANSMISSION PATHWAYS

Maria A. Diuk-Wasser¹, Danielle Tufts¹, Ana Bento²
¹*Columbia University, New York, NY, United States*, ²*University of Georgia, Athens, GA, United States*

9 a.m.

754

COME RAIN OR COME SHINE. DIFFERENTIAL SPATIOTEMPORAL DYNAMICS OF SCRUB TYPHUS AND MURINE TYPHUS IN THE LAO PDR

Tamalee Roberts¹, Sayaphet Rattanavong¹, Ivo Elliot¹, Koukeo Phommason¹, Mayfong Mayxay¹, Vilada Chansamouth¹, Anousin Homsana¹, Matthew Robinson¹, Stuart Blacksell², Daniel Parker³, Paul N. Newton¹
¹*Lao-Oxford-Mahosot hospital- Wellcome-Research unit, Vientiane, Lao People's Democratic Republic*, ²*Mahidol- Oxford- Research Unit, Bangkok, Thailand*, ³*University of California Irvine, Irvine, CA, United States*

9:15 a.m.

755

DIAGNOSIS OF SPOTTED FEVER GROUP RICKETTSIOSES IN UNITED STATES TRAVELERS RETURNING FROM AFRICA, 2007–2016

Cara Cherry, Amy Denison, Cecilia Kato, Katrina Thornton, Christopher Paddock
Centers for Disease Control and Prevention, Atlanta, GA, United States

9:30 a.m.

756

TRANSCRIPTIONAL RESPONSE OF THE RAT FLEA, XENOPSYLLA CHEOPIS, TO BLOOD FEEDING AND INFECTION WITH YERSINIA PESTIS

David M. Bland¹, Kimmo Virtaneva², Daniel P. Bruno², Kishore Kanakabandi², Craig A. Martens², Jose M. Ribeiro³, B. Joseph Hinnebusch¹
¹*Laboratory of Bacteriology, Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Hamilton, MT, United States*, ²*Genomics Unit, Research Technologies Branch, Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Hamilton, MT, United States*, ³*Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States*

Symposium 63

New Tools to Fight Old Foes: Transgenic Approaches for Control of Vector-Borne Disease

Marriott - Balcony LMN (3rd Floor)

Tuesday, October 30, 8 a.m. - 9:45 a.m.

This symposium brings together scientists working on different transgenic strategies for the control of vector-borne diseases. The presented strategies apply transgenic organisms to prevent pathogen transmission or to interfere with vector reproduction. One approach is to develop transgenic mosquitoes that cannot transmit diseases and can spread this genetic characteristic in the natural population. The other strategies are based on paratransgenesis: the use of transgenic microorganisms that modify vector biology. One of these methods involves the development of transgenic entomopathogenic fungi that attack parasites in mosquitoes. Another tactic involves the use of transgenic bacteria that can be introduced and spread into mosquito populations to prevent transmission. Yet another line of attack is the use of transgenic symbiotic bacteria that induce RNA interference in kissing bugs and mosquitoes, as smart insecticides. The session will provide an overview of the current status of the technologies being developed, at the technical and regulatory levels. The discussion will then center on the processes required for pilot field testing, including regulatory and biosafety considerations. The symposium will generate debate on the possible timeline for field applications of these promising technologies, as tools to reach the malaria elimination/eradication goals.

CHAIR

Marcelo Jacobs-Lorena
Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States

Pamela Pennington
Universidad del Valle de Guatemala, Guatemala, Guatemala

8 a.m.

NEW TOOLS TO FIGHT OLD FOES: TRANSGENIC FUNGAL APPROACHES FOR CONTROL OF VECTOR-BORNE DISEASE

Raymond St. Leger
University of Maryland, College Park, MD, United States

8:20 a.m.

POPULATION MODIFICATION OF ANOPHELES VECTORS FOR MALARIA CONTROL

Adriana Adolphi
University of California Irvine, Irvine, CA, United States

8:40 a.m.

PARATRANSGENESIS AS A SMART INSECTICIDE

Pamela Pennington
Universidad del Valle de Guatemala, Guatemala, Guatemala

Tuesday
October 30

9 a.m.

DRIVING MOSQUITO REFRACTORINESS TO *PLASMODIUM FALCIPARUM* WITH ENGINEERED SYMBIOTIC BACTERIA AND TRANSGENIC MOSQUITOES

Marcelo Jacobs-Lorena

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

Exhibit Hall Open

Sheraton - Napoleon Ballroom (3rd Floor)

Tuesday, October 30, 9:30 a.m. - 10:30 a.m.

Coffee Break

Sheraton - Napoleon Ballroom (3rd Floor) and Marriott - Grand Ballroom Foyer (3rd Floor)

Tuesday, October 30, 9:45 a.m. - 10:15 a.m.

Poster Session B Set-Up

Marriott - Grand Ballroom (3rd Floor)

Tuesday, October 30, 9:45 a.m. - 10:15 a.m.

Get a Shot. Give a Shot.®

Marriott - Grand Ballroom Foyer (3rd Floor)

Tuesday, October 30, 10 a.m. - 5 p.m.

Walgreens' Get a Shot. Give a Shot.® campaign has helped provide more than 20 million lifesaving vaccines to children in need around the world through the United Nations Foundation's Shot@Life campaign. Now, TropMed18 is giving attendees an opportunity to give back to the global health communities we serve. Receive your annual flu shot and provide lifesaving vaccines to families in developing countries. Immunizations are one of the world's biggest public health success stories, but not all communities have the same access to vaccines.

Poster Session B Viewing

Marriott - Grand Ballroom (3rd Floor)

Tuesday, October 30, 10:15 a.m. - Noon

Scientific Session 64

Intestinal and Tissue Helminths: Soil-Transmitted Helminths - Epidemiology and Control

Sheraton - Rodrigue Gallery (1st Floor)

Tuesday, October 30, 10:15 a.m. - Noon

CHAIR

Sarah Baird

George Washington University, Washington, DC, United States

Nathan C. Lo

Stanford University School of Medicine, Stanford, CA, United States

10:15 a.m.

757

WORMS AND WELLBEING: 15 YEAR ECONOMIC IMPACTS FROM KENYA

Sarah Baird¹, Joan Hicks², Michael Kremer³, Edward Miguel⁴

¹George Washington University, Washington, DC, United States, ²University of Oklahoma, Norman, OK, United States, ³Harvard University, Cambridge, MA, United States, ⁴University of California Berkeley, Berkeley, CA, United States

10:30 a.m.

758

RISK FACTORS FOR INFECTION WITH SOIL TRANSMITTED HELMINTHS INTIMOR-LESTE: A LONGITUDINAL ANALYSIS DURING A COMMUNITY INTEGRATED WASH AND DEWORMING INTERVENTION

Susana Vaz Nery¹, Naomi E. Clarke¹, James S. McCarthy², Rebecca Traub³, Alice Richardson¹, Darren J. Gray¹, Suzy J. Campbell¹, Andrew J. Vallely⁴, Gail M. Williams⁵, Ross M. Andrews⁶, Archie C. Clements¹

¹Australian National University, Canberra, Australia, ²QIMR Berghofer Medical Research Institute, Brisbane, Australia, ³The University of Melbourne, Melbourne, Australia, ⁴University of New South Wales, Sydney, Australia, ⁵The University of Queensland, Brisbane, Australia, ⁶Charles Darwin University, Darwin, Australia

10:45 a.m.

759

ULTRASENSITIVE DETECTION OF *TOXOCARA CANIS* EXCRETORY-SECRETORY ANTIGENS BY A NANOBODY ELECTROCHEMICAL MAGNETOSENSOR ASSAY

Francisco Morales-Yáñez¹, Trashin Stanislav², Hermy Marie³, Sariego Idalia⁴, De Wael Karolien², Polman Katja³, Muyldermans Serge⁵

¹Vrije Universiteit Brussel, Brussel, Belgium, ²University of Antwerp, Antwerp, Belgium, ³Institute of Tropical Medicine Antwerp, Antwerp, Belgium, ⁴Institute of Tropical Medicine Pedro Kouri, Havana, Cuba, ⁵Vrije Universiteit Brussel, Brussels, Belgium

(ACMCIP Abstract)

11 a.m.

760

LONGITUDINAL CHANGES IN RISK AND INTENSITY OF INFECTION WITH SOIL-TRANSMITTED HELMINTHS AFTER COMMUNITY-WIDE MASS DRUG ADMINISTRATION IN RURAL MYANMAR

Julia C. Dunn¹, Alison A. Bettis¹, Nay Yee Wyine², Aye Moe Moe Lwin³, Aung Tun⁴, Nay Soe Maung³, Roy M. Anderson¹

¹Imperial College London, London, United Kingdom, ²Myanmar NTD Research Collaboration, Yangon, Myanmar, ³University of Public Health, Yangon, Myanmar, ⁴Ministry of Health and Sports, Naypyitaw, Myanmar

11:15 a.m.

761

GLOBAL STATE OF INEQUITY IN DEWORMING COVERAGE IN LOW-INCOME AND MIDDLE-INCOME COUNTRIES: A SPATIOTEMPORAL STUDY OF HOUSEHOLD HEALTH SURVEYS

Nathan C. Lo¹, Sam Heft-Neal², Jean T. Coulibaly³, Eran Bendavid¹, David G. Addiss⁴

¹Stanford University School of Medicine, Stanford, CA, United States, ²Stanford University, Stanford, CA, United States, ³Swiss Tropical and Public Health Institute, University of Basel, Centre Suisse de Recherches Scientifiques en Côte d'Ivoire, Université Félix Houphouët-Boigny, Abidjan, Côte D'Ivoire, ⁴Task Force for Global Health, Decatur, GA, United States

11:30 a.m.

762

MIGRATION AND LOCAL MOVEMENT CAN IMPEDE ELIMINATION EFFORTS OF SOIL-TRANSMITTED HELMINTHS (STH) BY MASS DRUG ADMINISTRATION (MDA)

Carolin Vegvari¹, Klodeta Kura¹, James Truscott¹, Alison Ower¹, Rachel Pullan², Katherine Halliday², Roy Anderson¹
¹Imperial College London, London, United Kingdom, ²London School of Hygiene & Tropical Medicine, London, United Kingdom

11:45 a.m.

763

HLA-G EXPRESSION DURING HOOKWORM INFECTION IN PREGNANT WOMEN

Euripide F. Avokpaho¹, Tania C. d'Almeida², Ibrahim Sadissou³, Léonidas Tokplonou², Rafiou Adamou², Paulin Sonon³, Jacqueline Milet², Gilles Cottrell², Amandine Mondière², Achille Massougboji⁴, Kabirou Moutairou⁴, Eduardo Donadi⁵, Celso Teixeira Mendes-Junior⁵, Benoit Favier⁶, Edgardo Carosella⁶, Nathalie Rouas-Freiss⁶, André Garcia², David Courtin²
¹Institut de Recherche Clinique du Bénin, Cotonou, Benin, ²MERIT IRD, Université Paris 5, Sorbonne Paris Cité, Paris, France, ³Division of Clinical Immunology, School of Medicine of Ribeirão Preto, University of São Paulo, Sao Paulo, Brazil, ⁴Université d'Abomey-Calavi, Cotonou, Benin, ⁵Department of Chemistry, Faculty of Philosophy, Sciences and Letters of Ribeirão Preto, University of São Paulo, Sao Paulo, Brazil, ⁶CEA, Institut des Maladies Emergentes et des Thérapies Innovantes (IMETI), Service de Recherche en Hémo-Immunologie (SRHI), Hôpital Saint-Louis, IUH, Paris, France

(ACMCIP Abstract)

Symposium 65

Advancing O-Antigen-Based Vaccines against *Shigella*: The Need, the Candidates, Challenge Models and Considerations for Licensure and Introduction

Sheraton - Waterbury (2nd Floor)

Tuesday, October 30, 10:15 a.m. - Noon

Shigella is a major global cause of diarrhea and dysentery in children under five years in developing countries, as well as travelers to these countries. Reanalysis of moderate-to-severe diarrhea samples collected during the Global Enteric Multicenter Study has revealed an approximate three-fold increase in attribution to *Shigella*. In addition, *Shigella* causes inflammation leading to growth faltering, and is adept at acquiring antimicrobial resistance through mobile genetic elements from other bacteria. These findings establish a renewed robust case for accelerating the development of *Shigella* vaccines and will be the subject of the first presentation. Progress in vaccine development has been challenging for multiple reasons, including lack of commercial interest. Clinical efficacy was established over 20 years ago with a *Shigella sonnei* LPS O-antigen conjugate vaccine in the Israeli military and strongly associated with IgG antibody to O-antigen. However, the vaccine subsequently failed to protect children under three years, with a corresponding reduction in O-antigen IgG induction. New O-antigen-based vaccines need to be able to induce higher levels of IgG O-antigen that protect young children. Recently, three new O-antigen-based vaccines: a bioconjugate, synthetic conjugate and Outer Membrane Vesicle vaccine have been tested in

clinical trials. These vaccines and their immunogenicity will be described in the second presentation. Beyond immunogenicity, accelerating development of new *Shigella* vaccines requires an understanding of their clinical efficacy. The establishment of *Shigella* Controlled Human Infection Models at three centers in the U.S. is allowing proof-of-concept to be demonstrated well before and at lower cost than standard field-efficacy trials. However, there have been challenges to standardizing these models and agreeing on clinical endpoints and immunologic assay readouts. The third presentation will describe the model and discuss recent consensus reached by the field on endpoints and assays. The fourth presentation will cover considerations for clinical and regulatory pathways for *Shigella* vaccines through to licensure, policy recommendation and implementation. Lessons from other vaccines, including the recently prequalified typhoid conjugate vaccine and live-attenuated cholera vaccine, will be discussed including the use of efficacy data from human infection models, immune-bridging to samples from historic efficacy studies, new clinical vaccine studies and observational studies of infection in the field. The presentation will encompass key ancillary considerations including the role of ongoing burden of disease studies and laboratory harmonization.

CHAIR

Calman A. MacLennan
Bill & Melinda Gates Foundation, London, United Kingdom
Birgitte Giersing
World Health Organization, Geneva, Switzerland

10:15 a.m.

THE NEED FOR *SHIGELLA* VACCINES: BURDEN OF DISEASE, SEQUELAE AND ANTIMICROBIAL RESISTANCE

Laura Lamberti
Bill & Melinda Gates Foundation, Seattle, WA, United States

10:35 a.m.

SECOND-GENERATION O-ANTIGEN-BASED *SHIGELLA* VACCINE CANDIDATES AND THEIR ADVANCEMENT THROUGH CLINICAL DEVELOPMENT

Mark S. Riddle
Uniformed Services University, Bethesda, MD, United States

10:55 a.m.

DEVELOPMENT, UTILIZATION AND STANDARDIZATION OF THE *SHIGELLA* CONTROLLED HUMAN INFECTION MODEL FOR ASSESSING VACCINE EFFICACY

Chad K. Porter
Naval Medical Research Center, Silver Spring, MD, United States

11:05 a.m.

CONSIDERATIONS FOR CLINICAL AND REGULATORY PATHWAYS FOR THE DEVELOPMENT OF *SHIGELLA* VACCINES THROUGH TO LICENSURE AND INTRODUCTION

Birgitte Giersing
World Health Organization, Geneva, Switzerland

Tuesday
October 30

Symposium 66

What's the Skinny on Skin in Neglected Tropical Diseases?

Sheraton - Rhythms (2nd Floor)

Tuesday, October 30, 10:15 a.m. - Noon

Worldwide, skin conditions are the fourth leading cause of nonfatal disease burden and contribute to disability in all age groups. The far-reaching impact of skin diseases is no better illustrated than by looking at the World Health Organization's list of neglected tropical diseases. Of the twenty diseases, all but three have skin manifestations. Global migration patterns indicate that it is vitally important for clinicians worldwide to be familiar with neglected tropical diseases, their diagnosis, prognosis, treatment/management, and overall impact on health and well-being. This symposium will highlight four neglected tropical diseases where the skin plays a fundamental role in disease pathogenesis and clinical manifestations: scabies, leishmaniasis, leprosy, Buruli ulcer. After attending this symposium, participants will be able to 1) identify key clinical skin features of these diseases, 2) summarize management and prevention strategies for these disease, and 3) describe the impact of these skin diseases on disability and quality of life. This symposium features dermatologists coming together from around the world: Ethiopia, India, Peru, Japan, and the United States to share their expertise on skin neglected tropical diseases.

CHAIR

Aileen Chang

University of California San Francisco, San Francisco, CA, United States

10:15 a.m.

SCABIES CONTROL IN ETHIOPIA

Wendemagegn Enbiale

Bahir Dar University, Bahir Dar, Ethiopia

10:35 a.m.

DIAGNOSIS AND MANAGEMENT OF LEISHMANIASIS

Francisco G. Bravo

Universidad Peruana Cayetano Heredia, Lima, Peru

10:55 a.m.

LEPROSY: EXPERIENCE FROM INDIA

Neena Khanna

All India Institute of Medical Sciences, New Delhi, India

11:10 a.m.

LEPROSY: EXPERIENCE FROM THE UNITED STATES

Maria Ochoa

University of Southern California Keck School of Medicine, Los Angeles, CA, United States

11:25 a.m.

DIAGNOSIS AND MANAGEMENT OF BURULI ULCER

Rie Yotsu

National Center for Global Health and Medicine, Tokyo, Japan

Scientific Session 67

Dengue: Vaccines

Sheraton - Grand Ballroom A/B (5th Floor)

Tuesday, October 30, 10:15 a.m. - Noon

CHAIR

Anna P. Durbin

Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States

Ciara Gimblet-Ochieng

University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

10:15 a.m.

764

THE LIVE ATTENUATED TETRAVALENT DENGUE VACCINE TV003 AFFORDS EARLY PROTECTION AGAINST DENV-2 AND DENV-3

Anna P. Durbin¹, Kristen R. Pierce², Beth D. Kirkpatrick², Cecilia Tiberi¹, Eve Koehler¹, Beulah Sabundayo¹, Patricia Lutton², Helen He¹, Radmila Pavlovic¹, Eli Sendra², Sean A. Diehl², Stephen S. Whitehead³

¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²University of Vermont, Burlington, VT, United States, ³National Institutes of Health, Bethesda, MD, United States

10:30 a.m.

765

UTILIZING THE DENV HUMAN CHALLENGE MODEL TO DEFINE THE MOLECULAR DETERMINANTS OF THE MEMORY B CELL RESPONSE FOLLOWING HETEROLOGOUS DENV INFECTIONS

Ciara Gimblet-Ochieng¹, Huy A. Tu², Jesica A. Swanson³, Sean A. Diehl², Stephen S. Whitehead⁴, Anna P. Durbin⁵, Ralph S. Baric³, Aravinda M. de Silva¹

¹Department of Microbiology and Immunology, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, ²Department of Medicine-Infectious Diseases and Vaccine Testing Center, University of Vermont, Burlington, VT, United States, ³Department of Epidemiology, Gillings School of Global Public Health, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, ⁴Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ⁵Johns Hopkins Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD, United States

10:45 a.m.

766

A RANDOMIZED, CONTROLLED AGE DE-ESCALATION TRIAL DEMONSTRATES THAT THE TETRAVALENT DENGUE VACCINE TV005 IS SAFE AND IMMUNOGENIC IN DENGUE-ENDEMIC BANGLADESH

Mary Claire R. Walsh¹, Rashidul Haque², Marya P. Carmolli¹, Dorothy M. Dickson¹, Mohammad Shaiful Alam², Masud Alam², Sajia Afreen², Daniel M. Bak¹, Sean A. Diehl¹, Kristen K. Pierce¹, Mohammad Golam Kibria², Anna P. Durbin³, Stephen S. Whitehead⁴, Beth K. Kirkpatrick¹

¹Larner College of Medicine, University of Vermont, Burlington, VT, United States, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ³Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ⁴Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

11 a.m.

767

SAFETY AND IMMUNOGENICITY OF DIFFERENT FORMULATIONS OF A TETRAVALENT DENGUE PURIFIED INACTIVATED VACCINE (DPIV) IN HEALTHY ADULTS FROM PUERTO RICO THROUGH 3 YEARS OF FOLLOW-UP

Michael Koren¹, Clemente Diaz², Leyi Lin¹, Luis J. Martinez¹, Kenneth H.

Eckels¹, Maribel Campos², Richard G. Jarman¹, Rafael De La Barrera¹, Edith Lepine³, Irma Febo², Bruce L. Innis³, David W. Vaughn³, Todd M. Wilson³, Alexander C. Schmidt³, Robert Paris³, Stephen J. Thomas¹
¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²University of Puerto Rico School of Medicine, San Juan, Puerto Rico, ³GSK, Rockville, MD, United States

11:15 a.m.

768

CELL-MEDIATED IMMUNITY GENERATED BY TAKEDA'S LIVE-ATTENUATED DENGUE VACCINE (TDV)

Jeffrey R. Currier¹, Heather Friberg¹, Vianney Tricou², Michael Egan³, Kaitlin Victor¹, Kristin Hatch¹, Jenny Low⁴, Helen Oh⁵, Richard Jarman¹, Derek Wallace⁶, Hansi Dean²

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States,

²Takeda Vaccines, Pte. Ltd., Singapore, Singapore, ³Takeda Vaccines, Inc., Cambridge, MA, United States, ⁴Tan Tock Seng Hospital, Singapore, Singapore, ⁵Changi General Hospital, Singapore, Singapore, ⁶Takeda Pharmaceuticals International AG, Zurich, Switzerland

11:30 a.m.

769

EFFICACY PROFILE OF THE CYD-TDV DENGUE VACCINE: BAYESIAN SURVIVAL ANALYSIS OF INDIVIDUAL PHASE III TRIAL DATA

Daniel J. Laydon¹, Ilaria Dorigatti¹, Robert Small², Nick Jackson³, Laurent Coudeville⁴, Neil M. Ferguson¹

¹Imperial College, London, United Kingdom, ²Sanofi Pasteur, Orlando, FL, United States, ³Sanofi Pasteur, Marcy-l'Étoile, France, ⁴Sanofi Pasteur, Lyon, France

11:45 a.m.

770

COMPREHENSIVE ANALYSIS OF THE IMMUNE RESPONSE ELICITED BY TAKEDA'S TETRAVALENT DENGUE VACCINE CANDIDATE

Hansi J. Dean¹, Michael A. Egan¹, Derek Wallace²

¹Takeda Vaccines, Cambridge, NY, United States, ²Takeda Pharmaceuticals International AG, Zurich, Switzerland

Symposium 68

The Big One: Influenza-1918 and Now

Sheraton - Grand Ballroom C (5th Floor)

Tuesday, October 30, 10:15 a.m. - Noon

The 1918-19 influenza pandemic was the deadliest single event in recent history. In less than two years, the pandemic spread worldwide, killing tens of millions globally. For unclear reasons in the early 1920s, the lethal strain of the virus disappeared from circulation in humans but all pandemics since (1957, 1968, 2009) have contained genes from the 1918 virus. Despite its historical significance and unprecedented impacts, many aspects of the 1918-19 pandemic have been mischaracterized, are misunderstood, and remain unexplained. The unique mortality pattern concentrated in young adults yielding a W-shaped mortality curve remains an enigma. Although most people infected experienced ordinary influenza, a small percentage went on to develop secondary bacterial pneumonia, which was often lethal in the pre-antibiotic era. Mortality was far from uniform, with extreme variation seen between otherwise similar social units up the scale of countries. Developing countries, such as South Africa and

India, had huge but uneven mortality. For unclear reasons, isolated arctic, indigenous and island communities were particularly badly hit, with mortality rates up to 20% of the population. The reconstruction of the 1918 influenza H1N1 virus' genetic material from archived pathological specimens and from a frozen corpse has given a firm basis to modern studies, but has still not explained the extreme mortality. The H1N1 pandemic of 2009 was caused by a closely related descendant virus, but the outcomes observed were very different. In 2009 immunologically compromised persons (pregnant, obese, on cytotoxic drugs) filled intensive care units, but mortality was not greatly different than that seen during seasonal influenza. During the symposium the history, epidemiology and virology of the 1918-1919 pandemic will be reviewed in search of explanations to this poorly understood aspects as well as applications to modern pandemic preparedness.

CHAIR

David Morens

National Institutes of Health, Bethesda, MD, United States

G. Dennis Shanks

ADF Malaria and Infectious Disease Institute, Brisbane, Australia

10:15 a.m.

LEARNING FROM THE PAST: A HISTORICAL LOOK AT 1918 INFLUENZA

David Morens

National Institutes of Health, Bethesda, MD, United States

10:35 a.m.

HIGHLY DIVERSE MORTALITY PATTERNS IN THE PACIFIC REGION DURING THE 1918-1919 INFLUENZA PANDEMIC AND THE EFFECTS ON INDIGENOUS, ISOLATED AND MILITARY POPULATIONS

G. Dennis Shanks

ADF Malaria and Infectious Disease Institute, Brisbane, Australia

10:55 a.m.

IMPORTANCE OF 1918 VIRUS RECONSTRUCTION TO CURRENT ASSESSMENTS OF PANDEMIC RISK

Jessica Belser

U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States

11:15 a.m.

2018: HOW PREPARED ARE WE FOR AN INFLUENZA PANDEMIC?

Tim Uyeki

U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States

Symposium 69

Debate: Secondary Data Users Should Pay to Access Individual Level Research Data

Sheraton - Grand Ballroom D/E (5th Floor)

Tuesday, October 30, 10:15 a.m. - Noon

There is now increasing pressure from research funders, regulatory agencies, and journals for sharing individual-level data from health research with as few restrictions as possible. Arguments for data sharing include maximizing the utility of the data, improving transparency of research, and confirming or otherwise the interpretation of results,

with the ultimate aim of improving health. While there are good reasons to share data, there are also ethical and practical challenges related to data sharing, including its resource implications. The Data Access Committee (DAC) at the Mahidol Oxford Tropical Medicine Research Unit has received 17 dataset requests since its establishment in January 2016. Servicing these requests required data management services, DAC time, administrative costs and access to legal expertise to negotiate data access agreements. Some researchers have proposed a mechanism to recover such costs by charging data requesters a fee, but others do not agree with this approach. This debate with the motion “Secondary data users should pay to access individual level research data” will be an opportunity for participants to hear both sets of arguments. The panel is composed of speakers representing “data generators”, “data beneficiaries”, DAC members and ethicists, especially those working in tropical medicine

CHAIR

Phaik Yeong Cheah
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand
Lisa White
University of Oxford, Oxford, United Kingdom

10:15 a.m.

SPEAKER 1 FOR THE MOTION

Paul Ndebele
Medical Research Council of Zimbabwe, Harare, Zimbabwe

10:30 a.m.

SPEAKER 1 AGAINST THE MOTION

Mehul Dhorda
World Wide Antimalarial Research Network, Bangkok, Thailand

10:45 a.m.

SPEAKER 2 FOR THE MOTION

Nicholas P. Day
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

11 a.m.

SPEAKER 2 AGAINST THE MOTION

Azra Ghani
Imperial College, London, United Kingdom

Scientific Session 70

Integrated Control Measures for Neglected Tropical Diseases

Marriott - La Galerie 1/2 (2nd Floor)

Tuesday, October 30, 10:15 a.m. - Noon

CHAIR

Charles H. King
Case Western Reserve University, Cleveland, OH, United States
Jannet A. Tobon Ramos
Case Western Reserve University, Cleveland, OH, United States

10:15 a.m.

771

IMPACT OF MASS DRUG ADMINISTRATION FOR LYMPHATIC FILARIASIS ON *STRONGYLOIDES STERCORALIS* AND HOOKWORM INFECTION IN PAPUA NEW GUINEA

Jannet A. Tobon Ramos¹, Tobias Maure², Lenore Carias³, Livingstone W. Tavul⁴, Moses Laman⁴, Leanne J. Robinson⁵, William Pomat², Christopher L. King³

¹Case Western Reserve University, Cleveland, OH, United States, ²Papua New Guinea Institute of Medical Research, Goroka, Papua New Guinea, ³Case Western Reserve University and Veterans Affairs Medical Center, Cleveland, OH, United States, ⁴Papua New Guinea Institute of Medical Research, Madang, Papua New Guinea, ⁵Brunt Institute, Melbourne, Australia

10:30 a.m.

772

INTEGRATED BURDEN ESTIMATION SURVEY OF SKIN-PRESENTING CASE MANAGEMENT NTDS (BURULI ULCER, LEPROSY, LYMPHATIC FILARIASIS AND YAWS) IN MARYLAND, LIBERIA

Joseph W. Timothy¹, Emerson Rogers², Michael Marks¹, Katherine Halliday¹, Tarnue Mulbah², Anna Wickenden³, Rachel Pullan¹, Karsor Kollie²
¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²Ministry of Health, Monrovia, Liberia, ³AIM Initiative, Accra, Ghana

10:45 a.m.

773

ESTIMATING NEGLECTED TROPICAL DISEASES AND ENVIRONMENTAL RISK FACTORS WITH SPATIO-TEMPORAL GAUSSIAN PROCESS REGRESSION

Hayley Tymeson, Robert Reiner
Institute for Health Metrics and Evaluation, Seattle, WA, United States

11 a.m.

774

INTEGRATED MAPPING ASSESSMENT FOR TREATMENT DECISION-MAKING IN AREAS SUSPECTED TO BE CO-ENDEMIC FOR ONCHOCERCIASIS, LYMPHATIC FILARIASIS AND LOIASIS: A CASE STUDY OF TWO LGAS IN RIVERS STATE, NIGERIA

Chukwu Okoronkwo¹, Kira A. Barbre², Emmanuel Davies¹, Yisa Saka¹, Ifeoma Anagbogu¹

¹Federal Ministry of Health, Abuja, Nigeria, ²The Task Force for Global Health, Decatur, GA, United States

11:15 a.m.

775

COMPARISON BETWEEN PAPER-BASED AND M-HEALTH TOOLS FOR COLLATING AND REPORTING CLINICAL CASES OF LYMPHATIC FILARIASIS AND PODOCONIOSIS IN ETHIOPIA

Sarah Martindale¹, Hayley E. Mableson¹, Biruk Kebede², Fikre H/Kiros², Abraham Tamiru², Belete Mengistu³, Anna Krueger¹, Charles Mackenzie¹, Louise A. Kelly-Hope¹

¹Department of Parasitology, Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²National Podoconiosis Action Network, Addis Ababa, Ethiopia, ³Federal Ministry of Health, Addis Ababa, Ethiopia

11:30 a.m.

776

MEASURING PROGRESS OF CONTROL AND ELIMINATION PREVENTIVE CHEMOTHERAPY NEGLECTED TROPICAL DISEASES IN ETHIOPIA

Mesfin S. Kassa
Federal Ministry of Health, Addis Ababa, Ethiopia

11:45 a.m.

777

AN INTEGRATED APPROACH FOR THE CONTROL OF INTESTINAL PARASITES, SOUTH-CENTRAL CÔTE D'IVOIRE

Gaoussou Coulibaly¹, Mamadou Ouattara¹, Kouassi Dongo¹, Eveline Hurlimann², Jürg Utzinger², Kouakou Eliézer N'Goran¹, Giovanna Raso²
¹University Félix Houphouët-Boigny, Abidjan, Côte D'Ivoire, ²Swiss Tropical and Public Health Institute, Basel, Switzerland

Scientific Session 71

Water, Sanitation, Hygiene and Environmental Health I

Marriott - La Galerie 3 (2nd Floor)

Tuesday, October 30, 10:15 a.m. - Noon

CHAIR

Luc Coffeng
Erasmus MC, University Medical Center, Rotterdam, Netherlands
Christine George
Johns Hopkins University, Baltimore, MD, United States

10:15 a.m.

778

EFFECTS OF WATER, SANITATION, HANDWASHING, AND NUTRITIONAL INTERVENTIONS ON ENVIRONMENTAL ENTERIC DYSFUNCTION IN YOUNG CHILDREN: A CLUSTER-RANDOMIZED CONTROLLED TRIAL IN RURAL KENYA

Audrie Lin¹, Beryl S. Achando², Gouthami Rao², Holly N. Dentz³, Benjamin F. Arnold¹, Amy J. Pickering⁴, Christine P. Stewart³, Andrew N. Mertens¹, Mohammad Alauddin⁵, Cecilia Nekesa², John P. Buleti², Prisca Cheruiyot², Theodora Meerkerk², Charles D. Arnold³, Md. Ziaur Rahman⁶, Marlene Wolfe⁴, Maryanne Mureithi², Kendra Byrd³, Marion C. Kiprotich², Geoffrey M. Nyambane², Sammy M. Njenga⁷, Sarah T. Alauddin⁵, Sandra G. Minchala⁵, Rabije Cekovic⁵, Anne M. Williams⁸, Ryan Mahoney², Alan E. Hubbard¹, Kathryn G. Dewey³, Stephen P. Luby⁹, John M. Colford Jr.¹, Clair Null¹⁰
¹University of California Berkeley, Berkeley, CA, United States, ²Innovations for Poverty Action, Kakamega, Kenya, ³University of California Davis, Davis, CA, United States, ⁴Tufts University, Medford, MA, United States, ⁵Wagner College, Staten Island, NY, United States, ⁶International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ⁷Kenya Medical Research Institute, Nairobi, Kenya, ⁸Emory University, Atlanta, GA, United States, ⁹Stanford University, Stanford, CA, United States, ¹⁰Mathematica Policy Research, Washington DC, DC, United States

10:30 a.m.

779

THE IMPACT OF HOUSEHOLD CLUSTERING ON ENTERIC PATHOGEN INFECTION IN RURAL LAOTIAN COMMUNITIES

Anna N. Chard¹, Howard H. Chang¹, Karen Levy¹, Kelly K. Baker², Matthew C. Freeman¹
¹Emory University, Atlanta, GA, United States, ²University of Iowa, Iowa City, IA, United States

10:45 a.m.

780

THE EFFICACY OF CONSUMER HANDWASHING AGENTS FOR REMOVAL OF DIARRHEAL AND RESPIRATORY PATHOGENS: A SYSTEMATIC REVIEW AND META-ANALYSIS OF LABORATORY BASED STUDIES

Marlene K. Wolfe, Daniele Lantagne
Tufts University, Medford, MA, United States

11 a.m.

781

PREDICTED SHORT AND LONG-TERM IMPACT OF DEWORMING AND WASH ON TRANSMISSION OF SOIL-TRANSMITTED HELMINTHS

Luc E. Coffeng¹, Susana Vaz Nery², Darren J. Gray³, Roel Bakker¹, Sake J. de Vlas¹, Archi C. Clements³
¹Department of Public Health, Erasmus MC, University Medical Center, Rotterdam, Netherlands, ²Kirby Institute, University of New South Wales, Sydney, Australia, ³Research School of Population Health, College of Medicine, Biology and Environment, The Australian National University, Canberra, Australia

11:15 a.m.

782

ANTIBIOTIC RESISTANCE IN ESCHERICHIA COLI AND KLEBSIELLA SPP. ISOLATES FROM HOUSEHOLD WATER, FOOD PREPARATION SURFACES, AND SOIL IN COMPOUNDS IN MAPUTO, MOZAMBIQUE: POTENTIAL SOURCES OF ENVIRONMENTAL TRANSMISSION OUTSIDE THE CLINIC

David Berendes¹, Liliana Dengo-Baloi², David Holcomb³, Jackie Knee⁴, Rassul Nala², Joe Brown⁴
¹Division of Foodborne, Waterborne, and Environmental Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Mozambican Ministry of Health, Maputo, Mozambique, ³Environmental Sciences and Engineering Department, Gillings School of Public Health, University of North Carolina, Chapel Hill, NC, United States, ⁴School of Civil and Environmental Engineering, Georgia Institute of Technology, Atlanta, GA, United States

11:30 a.m.

783

DEFINING DIARRHEA: A POPULATION-BASED VALIDATION STUDY OF CAREGIVER-REPORTED STOOL CONSISTENCY IN THE AMHARA REGION OF ETHIOPIA

Kristen Aiemjoy¹, Solomon Aragie², Sintayehu Gebresillasie², Dionna Fry¹, Adane Dagne², Dagnachew Hailu², Meslew Chanyalew³, Zerihun Tadesse², Aisha Stewart⁴, Kelly Callahan⁴, Mathew Freeman⁵, John Neuhaus¹, Benjamin F. Arnold⁶, Jeremy D. Keenan¹
¹University of California San Francisco, San Francisco, CA, United States, ²The Carter Center, Addis Ababa, Ethiopia, ³Amhara Regional Health Bureau, Bahir Dar, Ethiopia, ⁴The Carter Center, Atlanta, GA, United States, ⁵Emory University, Atlanta, GA, United States, ⁶University of California Berkeley, Berkeley, CA, United States

11:45 a.m.

784

HOUSEHOLD AIR POLLUTION EXPOSURE AND MITOCHONDRIAL DNA COPY NUMBER IN CORD BLOOD: IDENTIFYING SENSITIVE WINDOWS AND SEX-SPECIFIC EFFECTS

Seyram Kaali¹, Darby Jack², Rupert Delimini³, Steven Chillrud⁴, Jones Opoku-Mensah¹, Katrin Burkart², Oscar Agyei¹, Ashlinn Quinn⁵, Abena K. Yawson¹, Blair Wylie⁶, Ellen A. Boamah-Kaali¹, Patrick Kinney², Kenneth Asayah¹, Andrea Baccarelli⁷, Kwaku Poku Asante¹, Alison G. Lee⁸
¹Kintampo Health Research Centre, Kintampo, Ghana, ²Columbia University, Mailman School of Public Health, Department of Environmental Health Sciences, New York City, NY, United States, ³University of Health and Allied Sciences, Ho, Ghana, ⁴Lamont Doherty Earth Observatory, Columbia University, New York City, NY, United States, ⁵Household Air Pollution Investigation Network, Division of International Epidemiology and Population Studies, Fogarty International Centre, National Institutes of Health, US Department of Human and Health Services, Rockville, MD, United States, ⁶Center for Maternal Fetal Medicine, Department of Obstetrics and Gynecology, Beth Israel Deaconess Medical Center, Boston, MA, United States, ⁷Columbia University, Mailman School of Public Health, Department of Environmental Health Sciences, New York City, NY, United States, ⁸Division of Critical Care and Sleep Medicine, Icahn School of Medicine at Mount Sinai, New York City, NY, United States

Tuesday
October 30

Symposium 72

Pathway to Deployment of Gene Drive Mosquitoes as a Potential Biocontrol Tool for Elimination of Malaria in Sub-Saharan Africa

Marriott - La Galerie 4/5/6 (2nd Floor)

Tuesday, October 30, 10:15 a.m. - Noon

Despite best efforts using currently available control tools, the 2017 World Malaria Report indicated that recent progress in reducing levels of malaria mortality has leveled off, particularly in Africa. Additional affordable and sustainable tools are needed to achieve malaria elimination. After decades of speculation on how to harness naturally occurring drive mechanisms to insert beneficial traits into vector mosquito populations to control disease transmission, mosquitoes modified with synthetic gene drive systems, such as those based on CRISPR/Cas, are now working in the laboratory. Modeling predicts that gene drive strategies for reducing or modifying vector mosquitoes have the potential to provide a transformative tool for conquering malaria. However, the characteristics of persistence and spread that make gene drive-modified mosquitoes attractive as a durable new control tool have raised concerns about possible ecosystem or health effects that necessitate careful consideration of the product development pathway by researchers, regulators, and funders before field-testing begins. This symposium will review the recommendations of a multidisciplinary working group of international experts in mosquito research, containment/quarantine of exotic arthropods, modeling, epidemiology, clinical trial design, statistics, ethics, regulatory science and policy, which considered the implications of low threshold gene drive systems on the phased testing pathway and best practices for evaluating genetically modified mosquitoes as public health tools that were described in the World Health Organization Guidance Framework for testing genetically modified mosquitoes. Presentations, focused on application of gene drive for reduction of malaria transmission by *Anopheles gambiae* s.l. mosquitoes in Africa, will describe a testing plan that seeks to maximize safety by incrementally increasing human and environmental exposure to the product. Recommendations for addressing important challenges presented by field testing of gene drive mosquitoes will be discussed. While the recommendations directly relate to malaria transmission in Africa, it is expected that they will be relevant to development of gene drive approaches for other vectors and prevention of other vector-borne diseases.

CHAIR

Stephanie James

Foundation for the National Institutes of Health, North Bethesda, MD, United States

Fredros Okumu

Ifakara Health Institute, Ifakara, United Republic of Tanzania

10:15 a.m.

OVERVIEW OF THE RECOMMENDATIONS

Steve Lindsay

Durham University, Durham, United Kingdom

10:45 a.m.

RISK ASSESSMENT AND REGULATORY CHALLENGES

Willy Tonui

Environmental Health Safety Consultancy Ltd, Nairobi, Kenya

11:05 a.m.

COMMUNITY AND STAKEHOLDER ENGAGEMENT CHALLENGES

Claudia Emerson

McMaster University, Hamilton, ON, Canada

11:25 a.m.

COUNTRY PERSPECTIVES ON GENE DRIVE MOSQUITOES FOR MALARIA CONTROL

Mamadou Coulibaly

University of Bamako Malaria Research and Training Center, Bamako, Mali

11:35 a.m.

COUNTRY PERSPECTIVES ON GENE DRIVE MOSQUITOES FOR MALARIA CONTROL

Abdoulaye Diabate

Laboratoire de parasitologie/entomologie, L'Institut de Recherche en Science de la Sante, Ouagadougou, Burkina Faso

Symposium 73

Next Generation Rapid Diagnostic Tests for Malaria: Prospects and Considerations

Marriott - Mardi Gras D (3rd Floor)

Tuesday, October 30, 10:15 a.m. - Noon

The advent of malaria rapid diagnostic tests has transformed our ability to diagnose this disease by providing simple to use, affordable and quality-assured point of care tests that can be deployed to the most remote areas and lowest levels of the public health system in endemic countries. Since their introduction in the mid-1990s, efforts have been to improve the overall quality of commercially available malaria RDTs and systems have been developed to ensure that only quality-assured products would be procured to the public sector of malaria endemic countries. However, during this time only limited technical evolution occurred as performance focused mainly on detecting *P. falciparum* infections at parasitemia of 200 parasites per microliter of blood or more, a threshold defined as clinically relevant for the diagnosis of acute *P. falciparum* malaria episodes. As countries approach elimination there has been an additional focus in recent years towards developing diagnostic tools that can better detect low density but still transmittable infections, including the non-falciparum malaria species, especially *P. vivax*, for which better tools are desperately needed. A next generation of malaria rapid diagnostics tests addressing these needs with improved sensitivity for infection are increasingly available to the malaria community. In this symposium, evidence generated with the first of such ultra-sensitive diagnostic tests will be presented and discussed.

Experts will also discuss the positioning of these new tests in supporting malaria elimination interventions and the gaps they may and may not address.

CHAIR

Gonzalo Domingo
PATH, Seattle, WA, United States

Xavier Ding
FIND, Geneva, Switzerland

10:15 a.m.

A *P. FALCIPARUM* ULTRASENSITIVE RAPID DIAGNOSTIC TEST AS A TOOL TO INFORM MALARIA ELIMINATION INTERVENTIONS IN EASTERN MYANMAR

Jordi Landier
Shoklo Malaria Research Unit, Mae Sot, Thailand

10:35 a.m.

PERFORMANCE OF A *P. FALCIPARUM* ULTRASENSITIVE RAPID DIAGNOSTIC TEST FOR MALARIA IN PREGNANCY

Ana Maria Vasquez
Universidad de Antioquia, Medellin, Colombia

10:55 a.m.

PERFORMANCE OF SELECTED RDTS FOR THE DETECTION OF ASYMPTOMATIC MALARIA INFECTIONS

Xavier Ding
FIND, Geneva, Switzerland

11:15 a.m.

NEW DIAGNOSTIC TOOLS FOR MALARIA, WHAT TO EXPECT

Sophie Allauzen
Bill & Melinda Gates Foundation, Seattle, WA, United States

Symposium 74

Final Results of the Tracking Resistance to Artemisinin Collaboration (TRACII) Project

Marriott - Mardi Gras EFGH (3rd Floor)
Tuesday, October 30, 10:15 a.m. - Noon

The spread of artemisinin (ART) resistance, and subsequent ACT partner drug resistance, threatens malaria control in the Greater Mekong Subregion (GMS) and beyond. The efficacies of dihydroartemisinin-piperazine (DHA-PPQ) and artesunate-mefloquine (AS-MQ) have declined dramatically in the GMS. The spread of multidrug-resistant *P. falciparum* to Africa, where most of the world's malaria transmission, morbidity, and mortality occur, would be disastrous. Since new drugs are five years away, there is an urgent need to evaluate alternative treatments using existing drugs. A promising novel approach is the use of Triple ACTs (TACTs), which combine a short-acting ART with two longer-acting partner drugs. A large multinational study, the "Tracking Resistance to Artemisinin Collaboration II" (TRAC II) was initiated to map the current spread of resistance and assess the efficacy and safety of TACTs in 18 hospitals in seven countries in Asia and one in Africa. This symposium will present the final results of this large-scale initiative. The first presenter will describe the prevalence and patterns of spread of ART and partner drug resistance in Southeast Asia, through genetic epidemiology analyses

of whole-genome sequencing data from parasite isolates. The next presentation will address the final results of the large multinational, multicenter randomized clinical TRAC II trial, evaluating two TACTs (DHA-PPQ-MQ, and ART-LUM-AQ, compared to standard ACTs. The following speaker will present population transcriptomic analyses of the *P. falciparum* parasite physiological states that underline drug the emergence, spread and evolution of resistance phenotypes of malaria infection in Southeast Asia. The final speaker will present the latest results of *in vitro* studies aimed at deciphering the *in vitro* molecular mechanism of resistance to Artemisinin. Prof. Joel Tarning will present data on the pharmacokinetics, pharmacodynamics, and drug drug interactions of two TACTs, and discuss modelling approaches to dose optimizing of antimalarial drugs.

CHAIR

Arjen Dondorp
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

Joel Tarning
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

10:15 a.m.

GENETIC EPIDEMIOLOGY OF ANTIMALARIAL RESISTANCE IN SOUTHEAST ASIA

Olivo Miotto
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

10:35 a.m.

SAFETY, TOLERABILITY AND EFFICACY OF TRIPLE ACTS: FINAL RESULTS OF THE TRACII TRIAL

Rob van der Pluijm
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

10:55 a.m.

POPULATION TRANSCRIPTOMICS OF MALARIA DRUG RESISTANCE

Zbynek Bozdech
Nanyang Technological University, Singapore, Singapore

11:15 a.m.

DECIPHERING THE *IN VITRO* MOLECULAR MECHANISM OF RESISTANCE TO ARTEMISININ

Sachel Mok
Columbia University Medical Center, New York, NY, United States

11:30 a.m.

PHARMACOKINETIC AND PHARMACODYNAMIC ASPECTS OF TRIPLE ACTS

Joel Tarning
Mahidol Oxford Tropical Medicine Research Unit (MORU), Bangkok, Thailand

Symposium 75

Bite Sized - Updates on the Impact of the Sand Fly Vector Components on Leishmaniasis

Marriott - Balcony IJK (3rd Floor)
Tuesday, October 30, 10:15 a.m. - Noon

This symposium provides updates on exciting new understanding on how sand fly vectors impact the development of the tropical neglected disease

leishmaniasis. First, the session will address vector salivary glycomics and potential implications for parasite transmission, interaction with the vertebrate immune system and allergies. This is followed by recent updates on the use of salivary proteins as markers of sand fly exposure and cutaneous leishmaniasis disease in Brazil and Tunisia. Lastly, the symposium will discuss how the distribution of *Leishmania* parasites in the skin correlates with the infectiousness to sand flies and its implications on the propagation of leishmaniasis.

CHAIR

Fabiano Oliveira
National Institute of Allergy and Infectious Diseases, Rockville, MD, United States

Camila I. Oliveira
IGM, Fiocruz- Bahia, Salvador, Brazil

10:15 a.m.

EXPLOITING THE GLYCOIMMUNOLOGY OF CUTANEOUS LEISHMANIASIS

Alvaro Acosta Serrano
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

10:35 a.m.

ANTIBODIES TO LUTZOMYIA INTERMEDIA LINB-13 ACT AS MARKERS OF RISK OF CUTANEOUS LEISHMANIASIS DEVELOPMENT AS WELL AS DISEASE SEVERITY

Camila I. Oliveira
IGM, Fiocruz- Bahia, Salvador, Brazil

10:55 a.m.

THE YELLOW PROTEINS AND APYRASE OF PHLEBOTOMUS PAPTASI ARE CANDIDATES OF VACCINE AGAINST CUTANEOUS LEISHMANIASIS

Mélika Ben Ahmed
Institut Pasteur de Tunis (PASTEURTN), Tunis, Tunisia

11:15 a.m.

SKIN RESIDENT PARASITE BURDEN AND DISTRIBUTION DETERMINE HOST INFECTIOUSNESS IN VISCERAL LEISHMANIASIS

Johannes Doehl
Hull York Medical School, University of York, York, United Kingdom

Symposium 76

The Intersection of Advocacy, Policy and Social Media: A Washington, DC, Primer

Marriott - Balcony LMN (3rd Floor)
Tuesday, October 30, 10:15 a.m. - Noon

Every day, research, program, funding and policy decisions are being made by influential international actors and at the U.S. federal level. Whether you realize it or not, you are directly or indirectly impacted by these decisions. The overwhelming majorities of these decision-makers have not been exposed to scientific training or education and as a result, look at these issues through lenses very different than yours. And as a whole, the research community is late in thinking and acting like constituents. What are the Top 10 Things you need to know about U.S. government funding for the issues that ASTMH cares so deeply about?

Who are the key actors? How best to use best social media platforms like Twitter to inform others about the value of tropical medicine and global health overall, including your own efforts? 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? Talking longer or offering more data points is a surefire way to hasten the end of a meeting with policymakers and staffers. So, what are the Do's and Don'ts? Learn how to recognize the moment when you know what you are saying is connecting. Listen to the experienced perspectives from the ASTMH President, Executive Director, ASTMH's PR firm and its Washington, DC-based lobbyist.

CHAIR

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

10:15 a.m.

ADVOCATING FOR R&D FUNDING - THE WHO, WHAT, WHERE, WHY AND HOW

Jodie Curtis
The District Policy Group, Washington, DC, United States

10:35 a.m.

ADVOCATING FOR GLOBAL HEALTH R&D RULE #1: AVOID SCIENCE SPEAK

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

10:55 a.m.

USING SOCIAL MEDIA STRATEGICALLY AND EFFECTIVELY

Gideon Hertz
Burness, Bethesda, MD, United States

11:15 a.m.

SCIENTISTS ON THE FRONT LINES: THE IMPORTANCE OF ADVOCACY

Regina Rabinovich
Harvard T.H. Chan School of Public Health, Boston, MA, United States

Exhibit Hall Open and Light Lunch

Sheraton - Napoleon Ballroom (3rd Floor)
Tuesday, October 30, Noon - 1:45 p.m.

Poster Session 77

Poster Session B: Presentations and Light Lunch

Marriott - Grand Ballroom (3rd Floor)
Tuesday, October 30, Noon - 1:45 p.m.

Poster Session B Directory

Global Health: #785 – 812
Ectoparasite-Borne Disease – Babesiosis and Lyme Disease: #813 - 821
Ectoparasite-Borne Disease – Other: #822 – 833
Mosquitoes – Biochemistry and Molecular Biology:

#834 - 842
 Mosquitoes – Insecticide Resistance and Control:
 #843 – 858
 Mosquitoes – Molecular Genetics: #859 - 868
 Mosquitoes – Vector Biology – Epidemiology: #869 – 891
Flaviviridae – Dengue: #892 – 919
Flaviviridae – Other: #920 – 947
Flaviviridae – West Nile: #948 – 955
 Viruses – Other: #956 – 973
 Malaria – Biology and Pathogenesis: #974 – 987
 Malaria – Chemotherapy and Drug Resistance: #988 – 1004
 Malaria – Diagnosis: #1005 – 1019
 Malaria – Epidemiology: #1020 – 1047
 Malaria – Genetics/Genomics: #1048 – 1059
 Malaria – Immunology: #1060 – 1071
 Malaria – Modeling: #1072 – 1086
 Malaria – Other: #1087 – 1102
 Malaria – Prevention: #1103 – 1116
 Malaria – Strategies for Elimination: #1117 - 1138
 Malaria – Vaccines: #1139 – 1153
 Malaria – Vector Control: #1154 – 1169
 Bacteriology – Enteric Infections: #1170 – 1181
 Bacteriology – Other Bacterial Infections: #1182 – 1192
 Bacteriology – Trachoma: #1193 – 1204
 Clinical Tropical Medicine: #1205 – 1240
 Helminths – Nematodes – Filariasis (Epidemiology):
 #1241 – 1252
 Helminths – Nematodes – Intestinal Nematodes:
 #1253 – 1267
 Kinetoplastida – Diagnosis and Treatment (Including
Leishmania and Trypanosomes): #1268 – 1279
 Kinetoplastida – Immunology (Including *Leishmania* and
 Trypanosomes): #1279 – 1287
 One Health: Interface of Human Health/Animal Diseases:
 #1288 - 1297
 Pneumonia, Respiratory Infections and Tuberculosis:
 #1298 – 1307
 Schistosomiasis and Other Trematodes – Diagnostics
 and Treatment: #1308 – 1317
 Schistosomiasis and Other Trematodes – Epidemiology
 and Control: #1318 – 1329
 Water, Sanitation, Hygiene and Environmental Health:
 #1330 – 1342

Global Health

785

“MAD DOGS AND ENGLISHMEN”: THE “SEASONING” OF THE MILITARY, MISSIONARIES, AND MAGISTRATES IN 19TH CENTURY COLONIAL OUTPOSTS

David Adams¹, Valerie Adams², Jessmarie Gonzalez³, Colette Rysset³, Femi Taiwo⁴

¹Point University, Savannah, GA, United States, ²Georgia Southern University, Statesboro, GA, United States, ³South University, Savannah, GA, United States, ⁴Texas A & M University, College Station, TX, United States

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DATA QUALITY IN THE ERA OF “LIVE DATA”: CHAMPS DATA QUALITY MONITORING SYSTEM

Joanna Boyles¹, Navit Salzberg², Tim Morris¹, CHAMPS Network Consortium³

¹The Task Force for Global Health, Decatur, GA, United States, ²The Emory Global Health Institute, Atlanta, GA, United States, ³Child Health and Mortality Prevention Surveillance Network, Atlanta, GA, United States

787

HEALTH, NUTRITION AND FOOD SECURITY AMONG ADOLESCENT REFUGEES

Sarah Baird¹, Zulfiqar Bhutta², Joan Hicks³, Nicola Jones⁴, Shaneka Thurman¹

¹George Washington University, Washington, DC, United States, ²The Aga Khan University, Karachi, Pakistan, ³University of Oklahoma, Norman, OK, United States, ⁴Overseas Development Institute, London, United Kingdom

788

A QUALITATIVE STUDY TO UNDERSTAND POPULATION’S PERCEPTION ON PLAGUE AFTER 2017 EPIDEMIC, ANTANANARIVO, MADAGASCAR

Sitraka Rakotosamimanana¹, Chiarella Mattern¹, Elliot Rakotomanana¹, Emma Raboanary¹, Elodie Chevallier¹, Joselyne Ramamonjisoa², François Taglioni³, Minoarisoa Rajerison¹, Fanjasoa Rakotomanana¹, Laurence Baril¹
¹Institut Pasteur de Madagascar, Antananarivo, Madagascar, ²Antananarivo University, Antananarivo, Madagascar, ³La Réunion University, Saint Denis, France

789

IS GOVERNMENT VECTOR CONTROL PERCEIVED AS EFFECTIVE? A BINATIONAL COMPARISON BETWEEN TWO US AND TWO MEXICAN CITIES WITH DISPARATE LEVELS OF TRANSMISSION

James K. Romine¹, Pablo Reyes-Castro², Lucia Castro-Luque³, Kathleen R. Walker⁴, Mary H. Hayden⁵, Kacey C. Ernst¹

¹University of Arizona, College of Public Health, Tucson, AZ, United States, ²Center for Studies on Health and Society, El Colegio de Sonora, Hermosillo, Sonora, Mexico, ³Center for Studies on Health and Society, El Colegio de Sonora, Hermosillo, Mexico, ⁴University of Arizona, Tucson, AZ, United States, ⁵National Center for Atmospheric Research, Boulder, CO, United States

790

CLINICAL CAPACITY BUILDING TO ADDRESS DIABETES PREVENTION AND CONTROL IN A COMMUNITY HEALTH CENTER IN JALISCO, MEXICO

Ella Harris¹, Martin Sandoval², Sharon Rose¹, Emily Hall¹, Luis Hernandez Larios², Kimberly Baltzell¹

¹University of California San Francisco, San Francisco, CA, United States, ²Tiopa Tlanextli, Autlan, Mexico

791

A MULTI-YEAR PROJECT IMPLEMENTING KANGAROO MOTHER CARE IN RURAL TANZANIA

Linda A. Winkler¹, Shana Noon¹, Theophila Babwanga²

¹Wilkes University, Kingston, PA, United States, ²Nyakahanga Hospital, Karagwe, United Republic of Tanzania

792**CHALLENGES FOR IVERMECTIN UPTAKE TO PREVENT NODDING SYNDROME IN ONCHOCERCIASIS HYPER-ENDEMIC AREAS OF CAMEROON, TANZANIA AND UGANDA**

Julia Irani¹, Maya Ronse¹, Alfred Njamshi², Peter Ntaihah Tatab³, Ezekiel Mangi⁴, Innocent Semali⁴, Joseph Rujumba⁵, Richard Idro⁵, Amos Mwaka⁵, Kristien Verdonck¹, Robert Colebunders⁶, Sarah O'Neill¹, Koen Grietens Peeters¹

¹Institute of Tropical Medicine, Antwerp, Belgium, ²University of Yaoundé I, Yaoundé, Cameroon, ³University of Buea, Buea, Cameroon, ⁴Muhimbili University of Health and Allied Sciences, Dar es Salaam, United Republic of Tanzania, ⁵Makerere University, Kampala, Uganda, ⁶University of Antwerp, Antwerp, Belgium

793**WHAT IS THE SOCIO-ECONOMIC IMPACT OF LEG LYMPHOEDEMA ON PATIENT CAREGIVERS IN A PODOCONIOSIS AND LYMPHATIC FILARIASIS CO-ENDEMIC DISTRICT OF ETHIOPIA?**

Sarah Martindale¹, Thais Caprioli¹, Asrat Mengiste², Dereje Assefa², Fikre H/Kiros², Mossie Tamiru³, Nebiyu Negussu³, Mark Taylor¹, Hannah Betts¹, Louise A. Kelly-Hope¹

¹Department of Parasitology, Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²National Podoconiosis Action Network, Addis Ababa, Ethiopia, ³Federal Ministry of Health, Addis Ababa, Ethiopia

794**IMPROVING HEALTHCARE DECISION MAKING IN RURAL BANGLADESH THROUGH A PHYSICIAN CALL CENTER**

Afruna Rahman¹, Sanwarul Bari¹, Qazi Sadeq-ur Rahman¹, Hossain M s Sazzad¹, Shams El Arifeen¹, Emily S. Gurley²

¹International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ²Johns Hopkins University, Baltimore, MD, United States

795**MENTAL DISORDERS AND PATHWAYS TO CARE IN RURAL UGANDA**

Nandini DP Sarkar¹, Joan Muela Ribera², Bart Criel¹, Koen Peeters Grietens¹

¹Institute of Tropical Medicine, Antwerp, Belgium, ²Universitat Rovira i Virgili, Tarragona, Spain

796**EFFECTIVENESS OF USING COMMUNITY HEALTH WORKERS TO CONDUCT HEALTH EDUCATION ON ECHINOCOCCOSIS PREVENTION AMONG TIBETAN VILLAGERS IN WESTERN SICHUAN PROVINCE, CHINA, 2015-2016**

Chong Yang¹, Richun Li², Changning Li¹, Jeanette Rainey², Yamei Zhang³, Junxiang Song⁴, Anpin Yang⁴, Jianli Kan⁵, Dehua Yang³, Junxuan Li¹, Yingying Zhang¹, Yan Dang¹, Ronald Moolenaar², Ruiqian Xie¹

¹Chinese Center for Health Education, Beijing, China, ²Division of Global Health Protection, Centers for Disease Control and Prevention, USA, Beijing, China, ³Affiliated Hospital & Clinical Medical College of Chengdu University, Chengdu, China, ⁴Kangding County Center for Disease Control and Prevention, Ganzi, China, ⁵Chinese Center for Disease Control and Prevention, Beijing, China

797**AWARENESS ABOUT APPROPRIATE ANTIBIOTIC USE IN A RURAL DISTRICT IN SUB-SAHARAN AFRICA: WHERE IS THE STARTING POINT FOR PREVENTION OF ANTIBIOTIC RESISTANCE?**

Olga Cambaco¹, John Kinsman², Betuel Sigauque¹, Heiman Wertheim³, Nga Do Thi Thuy Nga⁴, Johannes Langba⁴, Esperanca Sevene¹, Khatia Munguambe¹

¹Manhica Health Research Centre, Vila da Manhica, Mozambique, ²Umea University, Umea, Sweden, ³Oxford University, Oxford, United Kingdom, ⁴INDEPTH Network, Accra, Ghana

798**AN OPEN SOURCE PLATFORM FOR THE DEVELOPMENT OF CLINICAL TRIAL PROTOCOLS FOR POVERTY-RELATED DISEASES**

Magdalini Moutaftsi¹, Ole Olesen¹, Trudie Lang²

¹EDCTP (European & Developing Countries Clinical Trials Partnership), The Hague, Netherlands, ²University of Oxford, Oxford, United Kingdom

799**DEVELOPING AN EARLY WARNING SYSTEM TO SCREEN FOR GONORRHEA INFECTION IN GHANA USING COST SENSITIVE CLASSIFICATION AND REGRESSION TREE**

Behene Eric¹, Baidoo Isaac², Mettle O. Felix², Attram Naiki³, Dela Helena¹, Addo Kwasi Kennedy¹, Nyarko Owusu Edward⁴, Kyei N. Nicholas⁴, Carroll John Nii Ayite⁴, Kwakye Cynthia⁵, Duplessis Anthony Christopher⁶, Nhkonti Adams⁷, Letizia Andrew Gordon³

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800**BURNOUT AND WHO'S WHO IN PEDIATRIC GLOBAL HEALTH: A LOOK AT NATIONAL TRENDS**

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TEACHING GLOBAL HEALTH COMPETENCIES TO MEDICAL STUDENTS THROUGH EXPERIENTIAL LEARNING WITH LOW-WAGE MIGRANT WORKERS IN SINGAPORE

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REACHING THE HARD TO REACH: EARLY WARNING ALERT AND RESPONSE NETWORK AS A CRITICAL TOOL FOR REAL-TIME SURVEILLANCE DURING EMERGENCIES IN IRAQ

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CLINEPIDB: THE CLINICAL EPIDEMIOLOGY DATABASE RESOURCE

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NOVEL METHODS FOR CONDUCTING A CENSUS TO DEFINE THE SAMPLING FRAME FOR A MALARIA HOUSEHOLD SURVEY IN ARTIBONITE, HAITI

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CLIMATE CHANGE INFLUENCES ON THE POTENTIAL GEOGRAPHIC DISTRIBUTION OF THE DISEASE VECTOR TICK *IXODES RICINUS*

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MODELING ENVIRONMENTAL DRIVERS OF HOST-SEEKING BEHAVIORS THAT AFFECT BLACKLEGGED TICK HOST-FINDING SUCCESS

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HIGH SENSITIVITY DETECTION OF MULTIPLE TICK BORNE INFECTIONS IN BLOOD AND URINE USING NANOPARTICLE ENTRAPMENT AND MASS SPECTROMETRY

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THE *BABESIA* OBSERVATIONAL ANTIBODY (BAOBAB) STUDY: SURVEILLANCE FOR *BABESIA MICROTI* IN KILOSA DISTRICT, TANZANIA

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THE TICK APP: A SMARTPHONE APPLICATION TO ASSESS HUMAN BEHAVIORAL RISK FACTORS OF HUMAN-TICK CONTACTS

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MODELING LYME DISEASE SYMPTOMATOLOGY IN ASSOCIATION WITH TICK-BORNE PATHOGEN CO-INFECTIONS IN HUNTING DOGS IN THE UNITED STATES

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A DUO 4-PLEX REAL TIME PCR FOR DETECTION OF EIGHT TICK BORNE ZONOSSES IN KENYA

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APPLICATION OF WHOLE GENOME SEQUENCING TO STUDY THE GENETIC DIVERSITY OF FIELD COLLECTED *ORNITHODORUS* TICKS AND THE PATHOGENS THEY CARRY FROM NIGERIA

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INCIDENCE OF HUMAN MONOCYTTIC EHRlichiosis IN SITES WHERE LONE STAR TICK INFESTATIONS HAVE RECENTLY EMERGED

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SUMMARY OF LABORATORY METHODS USED TO CLASSIFY CONFIRMED AND PROBABLE CASES OF SPOTTED FEVER RICKETTSIOSSES—UNITED STATES, 2010-2015

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THE ROLE OF TWO FEMALE ATRIAL PROTEASES IN THE REFRACTORINESS OF *ANOPHELES GAMBIAE* MOSQUITOES TO FURTHER MATINGS

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ASSOCIATION OF THE FREQUENCY OF *KDR* ALLELES V1016L AND F1534C WITH PYRETHROID RESISTANCE IN 2 *Aedes aegypti* POPULATIONS IN PERU

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A ROLE FOR THE JNK PATHWAY IN 20E-DEPENDENT OVIPOSITION IN *Anopheles gambiae*

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STEROID HORMONE SIGNALING REGULATES *Plasmodium falciparum* DEVELOPMENT IN THE *Anopheles gambiae* FEMALE

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THE ROLE OF THE *Anopheles* LIPOLYTIC MACHINERY IN MOSQUITO REPRODUCTION AND *Plasmodium falciparum* DEVELOPMENT

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A CASCADE OF TYROSINE KINASE PHOSPHORYLATION REGULATES EGG DEVELOPMENT IN *Anopheles gambiae* MOSQUITOES

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THE 20 TOOLS OF VECTORBASE: A BIOINFORMATICS AND POPULATION BIOLOGY RESOURCE FOR INVERTEBRATE VECTORS OF HUMAN PATHOGENS

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Mosquitoes – Insecticide Resistance and Control

ADOPTION OF HOUSEHOLD VECTOR CONTROL BEHAVIORS FOR *Aedes Aegypti* AMONG AT-RISK POPULATIONS IN FOUR COUNTRIES

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RESISTANCE OF *Aedes Aegypti* POPULATIONS TO DELTAMETHRIN, PERMETHRIN, AND TEMEPHOS IN CAMBODIA

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AN EVALUATION OF THE EFFICACY OF AIRCRAFT DISINSECTION PROCEDURES AT AUSTRALIAN AIRPORTS

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Aedes POPULATIONS AND THEIR SUSCEPTIBILITY TO INSECTICIDES IN KINSHASA, DR CONGO

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A WHOLE TRANSCRIPTOMIC APPROACH TO CHARACTERIZE INSECTICIDE RESISTANCE MECHANISMS IN *ANOPHELES ARABIENSIS* (DIPTERA: CULICIDAE) FROM ETHIOPIA

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VARIABLE RESISTANCE TO INSECTICIDE IN *Aedes Aegypti* IS EXPLAINED BY COMBINED *KDR* MUTATIONS AND METABOLIC GENE OVEREXPRESSION IN BURKINA FASO

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FINE-SCALE SPATIAL AND TEMPORAL HETEROGENEITIES IN INSECTICIDE RESISTANCE PROFILES OF *ANOPHELES ARABIENSIS* IN RURAL SOUTHEASTERN TANZANIA

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EFFICACY OF TWO TYPES OF PYRETHROID AND PIPERONYL BUTOXIDE (PBO) COMBINATION NETS (OLYSET PLUS AND PERMANET 3.0) AGAINST PYRETHROID RESISTANT MALARIA VECTORS IN SOUTHERN BENIN

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ASSOCIATION BETWEEN *VGSC1014* ALLELES AND FEEDING PATTERNS OF *PHLEBOTOMUS ARGENTIPES*

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IDENTIFICATION OF SEX SPECIFIC ACTIN GENES IN *ANOPHELES ALBIMANUS*, A MAIN MALARIA VECTOR IN CENTRAL AMERICA AND THE CARIBBEAN

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ATTRITION, BIOLOGICAL EFFICACY, INSECTICIDE RESIDUE AND PHYSICAL DEGRADATION OF LONG LASTING INSECTICIDAL NETS USED FOR MALARIA CONTROL AND ELIMINATION IN THE PHILIPPINES

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DYNAMICS OF INSECTICIDE RESISTANCE INTENSITY, KNOCKDOWN RESISTANCE (KDR) GENE FREQUENCY AND MECHANISM OF INSECTICIDE RESISTANCE IN ANOPHELES GAMBIAE S.L. ACROSS FIVE ECOZONES OF NIGERIA

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Tong Liu, Wenqiang Yang, Yugu Xie, Peiwen Liu, Lihua Xie, Jinbao Gu, Kun Wu, Guiyun Yan, Xiao-Guang Chen
Southern Medical University, Guangzhou, China

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876**FINE SCALE BIOTIC AND ABIOTIC EFFECTS OF WEST NILE VIRUS ILLNESS IN HUMANS****Johnny Uelmen**¹, Surendra Karki¹, Patrick Irwin², Marilyn O'Hara Ruiz¹¹University of Illinois, Urbana, IL, United States, ²Northwest Mosquito Abatement District, Wheeling, IL, United States

877**COMPETITIVE INTERACTIONS IN Aedes MOSQUITOES AT CONSTANT AND FLUCTUATING TEMPERATURES****Nnaemeka F. Ezeakacha**

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878**UPGRADE OF A PHYSICAL GENOME MAP FOR Aedes Aegypti****Atashi Sharma**¹, Vladimir Timoshevskiy², Wu Yang¹, Igor Sharakhov¹, Zhijian (Jake) Tu¹, Maria Sharakhova¹¹Virginia Tech, Blacksburg, VA, United States, ²University of Kentucky, Lexington, KY, United States

879**ENTOMOLOGICAL INVESTIGATIONS INTO RIFT VALLEY FEVER VIRUS TRANSMISSION POTENTIAL ON FEEDLOTS IN COLORADO****Daniel A. Hartman**, Lauren Rice, Justin DeMaria, Erin Borland, Nicholas Bergren, Lucy Robb, Anna Fagre, Rebekah Kading

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880**INCREASED ADULT Aedes Aegypti and Culex quinquefasciatus (DIPTERA: CULICIDAE) ABUNDANCE IN KAOHSIUNG CITY, TAIWAN****Ting-Wu Chuang**

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881**XENODIAGNOSIS TO DETECT L. DONOVANI INFECTION IN VISCERAL LEISHMANIASIS, POST KALA-AZAR DERMAL LEISHMANIASIS AND ASYMPTOMATIC SUBJECTS****Shyam Sundar**

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882**DENSITY AND INDEX OF MOSQUITOES BEFORE AND AFTER HURRICANE MARIA IN SOUTHERN PUERTO RICO****Robert Rodríguez-González**, Luisa M. Morales, Mayra E. Roubert, Vivian Green, Juan C. Orengo

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883**LEVERAGING ARBOVIRAL SURVEILLANCE DATA TO INFORM PUBLIC HEALTH RESPONSES IN BARBADOS****Catherine A. Lippi**¹, Anna M. Stewart-Ibarra², Adrian M. Trotman³, Roché Mahon³, Shelly-Ann Cox³, Leslie Rollock⁴, Marquita Gittens-St. Hilaire⁵, Stephen Daniel⁴, Colin J. Carlson⁶, Sadie J. Ryan¹¹Quantitative Disease Ecology and Conservation (QDEC) Lab Group, Department of Geography, University of Florida, Gainesville, FL, United States, ²Center for Global Health and Translational Science, SUNY Upstate Medical University, Syracuse, NY, United States, ³Caribbean Institute for Meteorology and Hydrology, Bridgetown, Barbados, ⁴Ministry of Health, St. Michael, Barbados, ⁵University of the West Indies at Cave Hill, Faculty of Medical Sciences, St. Michael, Barbados, ⁶Georgetown University, Washington, DC, United States

884**GEOSPATIAL ANALYSIS OF HIGH-RISK AREAS FOR VECTOR-BORNE TRANSMISSION USING REMOTE SENSING TECHNOLOGIES****Melissa Nolan**¹, Sarah Gunter², Abi Oluyomi², Mustapha Debboun³, Chris Fredregill³, Kyndall Dye-Braumuller³, Tim Nedwed⁴, Jerry Helfand²¹University of South Carolina, Columbia, SC, United States, ²Baylor College of Medicine, Houston, TX, United States, ³Harris County Mosquito Control, Houston, TX, United States, ⁴ExxonMobil, Spring, TX, United States

885**IDENTIFICATION OF PLASMODIUM FALCIPARUM-INFECTIOUS ANOPHELES COLUZZII MOSQUITOES USING NEAR-INFRARED SPECTROSCOPY****Dari F. Da**¹, Pedro M. Esperanç², Bernard M. Somé¹, Maggy T. Sikulu-Lord³, R. Serge Yerbanga¹, Thierry Lefèvre⁴, Karine Mouline⁴, Karidia Wermé¹, Floyd Dowell⁵, Roch K. Dabiré¹, Thomas S. Churcher²¹Institut de Recherche en Sciences de la Santé, Bobo-Dioulasso, Burkina Faso, ²MRC Centre for Outbreak Analysis and Modelling, Infectious Disease Epidemiology, Imperial College London, London, United Kingdom, ³Queensland Alliance of Agriculture and Food Innovation, The University of Queensland, Brisbane, Queensland, Australia, ⁴MIVEGEC, IRD, CNRS, Montpellier University, Montpellier, France; Institut de Recherche en Sciences de la Santé, Bobo-Dioulasso, Burkina Faso, ⁵Stored Product Insect and Engineering Research Unit, United States Department of Agriculture/Agricultural Research Services, Center for Grain and Animal Health Research, Manhattan, KS, United States**(ACMCIP Abstract)**

886**HOST DECOY TRAPS ARE HIGHLY ATTRACTIVE TO OUTDOOR BITING MALARIA VECTORS****Frances M. Hawkes**¹, Simon P. Sawadogo², Eric Tossou³, Romaric Akoton³, Francis Zeukeng⁴, Jacques Sossou⁵, Sandrine K. Flore⁶, Duplexine S. Tano⁷, Jean Birba², Razack Adeoti⁸, Tohnain N. Lengha⁷, Estelle Kouokam⁶, Lea P. Toe², Martin Geier⁸, Lora Forsythe¹, Roch K. Dabiré², Rousseau Djouaka⁵, Gabriella Gibson¹¹Natural Resources Institute, University of Greenwich, Chatham Maritime, United Kingdom, ²Institut de Recherche en Science de la Santé, Bobo Dioulasso, Burkina Faso, ³Université d'Abomey-Calavi, Cotonou, Benin, ⁴University of Yaoundé, Yaoundé, Cameroon, ⁵International Institute of Tropical Agriculture, Cotonou, Benin, ⁶Université Catholique d'Afrique Centrale, Yaoundé, Cameroon, ⁷Université de Dschang, Dschang, Cameroon, ⁸Biogents AG, Regensburg, Germany

887**PLASTICITY OF HOST SELECTION, NON-RANDOM HUMAN FEEDING AND SPATIAL HETEROGENEITY OF EXPOSURE TO MALARIA VECTORS IN PAPUA NEW GUINEA****John B. Keven**¹, Michelle Katusele², Rebecca Vinit², Daniela R. Rodriguez³, Manuel W. Hetzel³, Moses Laman², Leanne J. Robinson⁴, Stephan Karl², Edward D. Walker¹¹Michigan State University, East Lansing, MI, United States, ²Papua New Guinea Institute of Medical Research, Madang, Papua New Guinea, ³Swiss Tropical and Public Health Institute, Basel, Switzerland, ⁴Burnet Institute, Melbourne, Australia

888**EFFECT OF LARVAL DIET, AGING, AND ZIKV INFECTION ON IMMUNE GENE REGULATION IN Aedes Aegypti****Jillian Masters**¹, Austin Drury¹, Catherine Dean², Donald A. Yee², Jonas G. King¹¹Mississippi State University, Mississippi State, MS, United States, ²University of Southern Mississippi, Hattiesburg, MS, United States

889**SIMULATING THE EFFECTS OF CLUMPED EGG LAYING ON MOSQUITO POPULATION DYNAMICS IN RELATION TO GENE-DRIVE INTERVENTIONS**

Aaron L. Morris¹, Neil Ferguson, Azra Ghani
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Luca Facchinelli¹, Rosângela M. Barbosa², Eloina M. Santos², Vitaly Voloshin³, Shihong Jiang³, Catherine E. Towers³, David Towers³, Philip J. McCall¹
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Jimmy Hortion¹, Sean V. Edgerton², David M. Vu³, Noah Mutai⁴, Bryson A. Ndenga⁴, Shannon N. Bennett², A. Desiree LaBeaud³
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893**EVALUATION OF NEXT GENERATION SEQUENCING AND BIOINFORMATICS PIPELINE FOR PATHOGEN IDENTIFICATION USED AT THE DEPARTMENT OF VIROLOGY, ARMED FORCES RESEARCH INSTITUTE OF MEDICAL SCIENCES (AFRIMS), BANGKOK, THAILAND**

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894**HOUSEHOLD-BASED CLUSTER INVESTIGATIONS DURING AN OUTBREAK OF DENV-2 IN AMERICAN SAMOA**

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Minor Outlying Islands

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896**WHOLE GENOME ANALYSIS REVEALS HIGHLY LOCALIZED TRANSMISSION CHAINS AND A GRAVITY DYNAMIC OF DENGUE 3 SPREAD WITHIN A HYPERENDEMIC CITY IN THE PERUVIAN AMAZON**

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897**PREVALENCE OF CHIKUNGUNYA AND DENGUE VIRUS EXPOSURE AMONG CHILDREN IN WESTERN KENYA**

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899**DENGUE VIRUS IS AN EMERGING CAUSATIVE AGENT OF ACUTE ENCEPHALITIS SYNDROME (AES) IN INDIA: RESULTS FROM A FOUR-YEAR ENHANCED AES SURVEILLANCE STUDY IN INDIA**

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DYNAMICS OF T CELL RESPONSES PRIOR TO AND AFTER SECONDARY DENGUE VIRUS INFECTION

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HIGH THROUGHPUT LIVE-IMAGE CYTOMETRY-BASED NEUTRALIZATION ASSAYS FOR DENGUE AND ZIKA VIRUSES

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PUBLIC HEALTH IMPACT OF VACCINATION WITH DENGVAIXIA IN THE PRESENCE OF INTRA-URBAN VARIATION IN DENGUE VIRUS TRANSMISSION

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SPATIOTEMPORAL VARIATION IN DENGUE TRANSMISSION INTENSITY IN JAKARTA, INDONESIA

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INCREASED SIALIC ACID LEVELS IN SERUM ARE ASSOCIATED WITH VASCULAR LEAK AND SEVERE DENGUE DISEASE

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HERD IMMUNITY TO ZIKA VIRUS MAY CAUSE CHANGES IN THE DYNAMICS OF DENGUE INCIDENCE IN THE AMERICAS

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FLAVIVIRUS NS1 INDUCES ENDOCYTOSIS AND PHOSPHORYLATION OF TIGHT AND ADHERENS JUNCTION PROTEINS, LEADING TO ENDOTHELIAL BARRIER DYSFUNCTION

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TRACKING THE POLYCLONAL NEUTRALIZING RESPONSE TO A DENV1 SEROTYPE-SPECIFIC EPITOPE ACROSS TWO POPULATIONS IN ASIA AND THE AMERICAS

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EPIDEMIOLOGY OF DENGUE IN INDIA - OUTCOME OF A FACILITY BASED ACUTE FEBRILE ILLNESS (AFI) SURVEILLANCE

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THE RISING IMPACT AND COMPLEX ECOLOGY OF DENGUE IN RURAL MALAYSIA

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DISCRETE PHENOTYPIC SIGNATURES OF CD8+ T CELLS DURING DENGUE VIRUS INFECTION

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A NOVEL PROSPECTIVE FAMILY COHORT STUDY OF DENGUE VIRUS TRANSMISSION IN KAMPHAENG PHET, THAILAND BASELINE IMMUNOLOGICAL AND SUBCLINICAL SEROCONVERSIONS FROM THE FIRST YEAR

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EPIDEMIOLOGICAL SIGNIFICANCE OF DENGUE VIRUS GENETIC VARIATION IN MOSQUITO INFECTION DYNAMICS

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SPATIOTEMPORAL HETEROGENEITY OF DENGUE TRANSMISSION INTENSITY IN COLOMBIA

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COMPARISON OF CLINICAL MANIFESTATIONS AND DISEASE CLASSIFICATION OF ADULT AND PEDIATRIC DENGUE IN A PROSPECTIVE STUDY OF HOSPITALIZED DENGUE IN THAILAND

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NK CELL DEGRANULATION ASSAY FOR ASSESSING DENGUE VIRUS SPECIFIC ANTIBODY-DEPENDENT CELLULAR CYTOTOXICITY ELICITING ANTIBODIES IN INFECTED AND VACCINATED INDIVIDUALS

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ANTIGEN-SPECIFIC B CELL ACTIVATION AFTER IMMUNIZATION WITH A TETRAVALENT DENGUE PURIFIED INACTIVATED VACCINE (DPIV)

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THE IMPACT OF WEATHER ON THE SPATIO-TEMPORAL TRANSMISSION DYNAMICS OF DENGUE ACROSS SOUTH EAST ASIA

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NATIONALLY REPRESENTATIVE SEROSTUDIES FROM BANGLADESH SHOW LARGE-SCALE HETEROGENEITY IN DENGUE RISK

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DEVELOPMENT AND IMPLEMENTATION OF A UNIVERSAL DENGUE VIRUS SEQUENCING ASSAY FOR GENOTYPING AND GENOMIC SURVEILLANCE

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Flaviviridae - Other

ZIKA VIRUS AND TRAVEL IN THE NEWS - A MEDIA CONTENT ANALYSIS

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USE OF MACHINE LEARNING IN SURVEILLANCE CASE IDENTIFICATION FOR THE ZIKA EMERGENCY RESPONSE

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IS THERE A GENETIC BASIS FOR SALIVARY GLAND INFECTION AND ESCAPE BARRIERS TO ARBOVIRAL INFECTION AND TRANSMISSION?

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DEVELOPMENT OF A POINT OF CARE METHOD FOR DETECTION OF ZIKA VIRUS BASED ON LOOP-MEDIATED ISOTHERMAL AMPLIFICATION

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THE ROLE OF CROSS-REACTIVE DENGUE VIRUS ANTIBODIES IN SEXUAL TRANSMISSION OF ZIKA VIRUS

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DETERMINING AN IMMUNOCOMPETENT, SMALL ANIMAL SEXUAL TRANSMISSION MODEL FOR ZIKA VIRUS

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IMAGINING ZIKA: EPIDEMIOLOGY, GLOBAL HEALTH, AND UNCERTAINTY

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STRUCTURAL PROTEINS PRME DICTATE SEXUAL TRANSMISSION POTENTIAL OF ZIKV IN AN IMMUNOCOMPETENT MOUSE MODEL

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HUMAN TESTICULAR ORGANOID MODEL AS AN *IN VITRO* SYSTEM TO INVESTIGATE ZIKA VIRUS PATHOGENESIS

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LOCAL AND REGIONAL DYNAMICS OF ZIKA VIRUS TRANSMISSION IN THE AMERICAS: THE ROLE OF MISMATCHED SPATIAL HETEROGENEITY

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LONG TERM PERSISTENCE OF ZIKA VIRUS IN RHESUS MACAQUE TISSUES

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DURATION OF DETECTION OF ANTI-ZIKA VIRUS IGM ANTIBODY IN A PROSPECTIVE COHORT STUDY

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EFFECTS OF AGE, BLOOD MEAL ACQUISITION, AND MORTALITY ON THE TRANSMISSION POTENTIAL OF ZIKA VIRUS

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SAFETY AND IMMUNOGENICITY OF MEASLES, MUMPS, AND RUBELLA VACCINE [PRIORIX, GLAXOSMITHKLINE BIOLOGICALS] CO-ADMINISTERED WITH LIVE ATTENUATED SA 14-14-2 JAPANESE ENCEPHALITIS VACCINE [CD.JEVAX, CHENGDU INSTITUTE OF BIOLOGICAL PRODUCTS]

Maria Rosario Capeding¹, Edison Alberto¹, Jodi Feser², Jessica Mooney², Yuxiao Tang², Judy A. Beeler³, Damon W. Ellison⁴, Lei Zhang⁵, G. William Letson², Anthony A. Marfin²
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DETECTION AND MOLECULAR CHARACTERIZATION OF ZIKA VIRUS IN SPECIMENS COLLECTED DURING 1998 TO 2017 FROM THAILAND

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LABORATORY ANALYSIS OF ARBOVIRUS SURVEILLANCE IN SOUTHERN THAILAND FROM 2012-2015

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A RETROSPECTIVE STUDY USING A SEROSURVEY TO DETECT ZIKA VIRUS IN MOMBASA, KENYA

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SEROPREVALENCE, RISK FACTOR, AND SPATIAL ANALYSES OF ZIKA VIRUS INFECTION AFTER THE 2016 EPIDEMIC IN MANAGUA, NICARAGUA

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CHANGES IN BEHAVIORS ASSOCIATED WITH TRANSMISSION AMONG A COHORT OF ZIKA VIRUS INFECTED PARTICIPANTS IN PUERTO RICO

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NEUROLOGICAL ASSESSMENT OF CHILDREN BORN TO PREGNANT WOMEN RETURNING FROM ZIKA AFFECTED AREAS: RESULTS FROM SURVEILLANCE IN A NON-ENDEMIC AREA

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CHARACTERIZING THE IMMUNE RESPONSE TO ZIKA VIRUS USING EPITOPE MAPPING, REPORTER VIRUS PARTICLES, AND ANTI-ZIKV ANTIBODIES

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CHARACTERIZATION OF POPULATION EXPOSURE (SEROPREVALENCE) TO ARBOVIRUSES AFTER RECENT OUTBREAKS IN COLOMBIA: DENGUE, CHIKUNGUNYA AND ZIKA

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EVALUATING DIFFERENCES IN ZIKA VIRUS DIAGNOSTIC TEST RESULTS BY SPECIMEN TYPE AMONG PREGNANT WOMEN DURING THE ZIKA VIRUS OUTBREAK, PUERTO RICO 2016

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UNEXPECTED PROPERTIES OF A ZIKA NS2B EPITOPE SUGGEST ITS POTENTIAL AS A BIOMARKER FOR DIAGNOSIS AND PROGNOSIS

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NEUROLOGICAL SEQUELAE ASSOCIATED WITH ACQUIRED ZIKA VIRUS INFECTION IN CHILDREN

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REPURPOSING NOVOBIOCIN AS A FLAVIVIRUS PROTEASE INHIBITOR

Jasper Chan, Shuofeng Yuan, Kenn Chik, Cyril Yip, Kah-Meng Tee, Kin-Kui Lai, Richard Kao, Kwok-Yung Yuen
The University of Hong Kong, Hong Kong, Hong Kong

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FORECASTING ZIKA INCIDENCE USING DENGUE SURVEILLANCE DATA FROM COLOMBIA

Henri Chung, Guido España, Amir Siraj, James Soda, Alex Perkins
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DURATION OF INFECTIOUS ZIKA VIRUS

Freddy A. Medina, Giselle Torres, Jenny Acevedo, Sharon Fonseca, Leslie Casiano, Carlos De Leon, Gilberto A. Santiago, Katherine Doyle, Tyler M. Sharp, Gabriela Paz-Bailey, Jorge L. Muñoz-Jordán
Centers for Disease Control and Prevention, San Juan, PR, United States

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CHARACTERIZATION OF ATTENUATING AND COMPENSATING MUTATIONS IN DOMAIN III OF THE WEST NILE VIRUS ENVELOPE PROTEIN

Maria D. Alcorn, David W. Beasley
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METAGENOME ANALYSIS OF WEST NILE VIRUS AND OTHER ARBOVIRUSES IN CULEX MOSQUITOES FROM THE SAN GABRIEL VALLEY, CALIFORNIA

Jun Hang¹, Kimberly Nelson², Yu Yang¹, Alice N. Maina³, Angela Brisco², Jared Dever², Allen L. Richards³, Richard G. Jarman¹
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ORAL SHEDDING OF JAPANESE ENCEPHALITIS VIRUS IN INFECTED SWINE SPECIES

Yan-Jang S. Huang, Amy C. Lyons, So Lee Park, Victoria B. Ayers, Susan M. Hettenbach, Stephen Higgs, Dana L. Vanlandingham
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Kaitlyn A. Hardin¹, Raoult C. Ratard², Christine Scott-Waldron²
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EXPOSURE OF FREE RANGING BIRDS TO ST. LOUIS ENCEPHALITIS AND WEST NILE VIRUSES (FLAVIVIRUS) IN AGRICULTURE AND CATTLE RAISING LANDSCAPES IN ARGENTINA

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DETECTION AND QUANTIFICATION OF WEST NILE, RIFT VALLEY FEVER, AND DENGUE FEVER VIRUSES FROM DRIED BLOOD SPOTS TO IDENTIFY ZOO NOTIC POTENTIAL

Emma Hale, Tonia Schwartz, Sarah Zohdy
Auburn University, Auburn, AL, United States

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IVERMECTIN-TREATED BIRD FEED TO CONTROL WEST NILE VIRUS TRANSMISSION

Chilinh Nguyen, Meg Gray, Timothy A. Burton, Soleil L. Foy, Claudia Ruckert, John Foster, Wojtek S. Kuklinski, Brian D. Foy
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INTRAHOST GENETIC DIVERSITY OF WEST NILE VIRUS IN HORSE BRAIN AND PLASMA

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Viruses - Other

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INFLUENCE OF EARLY INFLAMMATION, TRACE ELEMENTS, AND ANTIBIOTIC EXPOSURE ON IMMUNE RESPONSES TO ROTAVIRUS VACCINATION

Jessica L. Prince-Guerra¹, Christopher Miller², Melissa Delgado¹, Laura Calderwood³, Rachel M. Burke³, Paulina A. Rebolledo², Parminder Suchdev¹, Rita Revollo⁴, Volga Iñiguez⁵, Juan Leon¹
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MELITTIN AS REGULATOR OF APOPTOSIS LATE IN CHRONIC CELL LINE INFECTED WITH HTLV-1 ADULT T-CELL LEUKEMIA / LYMPHOMA

Sophia I. Velarde, Giovanni M. Lopez, Michael J. Talledo
Institute of Tropical Medicine Alexander von Humboldt; Universidad Peruana Cayetano Heredia, Lima, Peru
(ACMCIP Abstract)

Tuesday
October 30

GENETIC DIVERSITY OF CIRCULATING NOROVIRUS, SAPOVIRUS AND ASTROVIRUS IN A PEDIATRIC HOSPITAL AT LIMA-PERÚ

Macarena D. Vittet¹, Gerardo Sanchez¹, Mayra Ochoa¹, Fabiola Colquechagua-Aliaga², Dante Figueroa-Quintanilla², Robert Gilman³, Mayuko Saito⁴, Sarah Blythe Ballard³, Holger Mayta¹

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USING COMPLEX DATA AND DEEP LEARNING TO PREDICT RIFT VALLEY FEVER OUTBREAKS

Jochen Kumm¹, Elysse N. Grossi-Soyster², Krish Seetah³, A. Desiree LaBeaud²

¹InSightAI, Palo Alto, CA, United States, ²Stanford University School of Medicine, Stanford, CA, United States, ³Stanford University, Stanford, CA, United States

NON-SECRETOR HISTO-BLOOD GROUP ANTIGEN PHENOTYPE DOES NOT IMPAIR SUSCEPTIBILITY TO INFECTION WITH ROTARIX VACCINE AMONG INFANTS IN BANGLADESH

Benjamin Lee¹, Abdul Kader², Dorothy Dickson¹, E. Ross Colgate¹, Sean A. Diehl¹, Muhammad I. Uddin², Salma Sharmin², Shahidul Islam², Taufiqur R. Bhuiyan², Masud Alam², Uma Nayak³, Josyf C. Mychaleckyj³, Mami Taniuchi³, William A. Petri, Jr.³, Rashidul Haque², Firdausi Qadri², Beth D. Kirkpatrick¹

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EVALUATION OF ZIKA VIRUS ISOLATION PROCEDURES USING MOSQUITO INOCULATION COMPARED TO *IN VITRO* C6/36 CELL CULTURE

Winai Kaneechit¹, Jindarat Lohachanakul¹, Butsaya Thaisomboonsuk¹, Chonticha Klungthong¹, Yongyuth Poolpanichupatam¹, Thongchai Khiankaew¹, Chutithorn Tawilert¹, Rome Buathong², Maria Alera³, Sarunyou Chusri⁴, Darunee Buddhari¹, Veerachai Watanaveeradej⁵, Thippawan Chuenchitra⁶, Soawapak Hinjoy², Suppakrit Thanajirasak², Richard G. Jarman⁷, Stefan Fernandez⁸, In-Kyu Yoon⁹, Kathryn B. Anderson¹, Ananda Nisalak¹, Anon Srikiatkachorn¹⁰, Damon W. Ellison¹, Alden L. Weg¹, Louis R. Macareo¹

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PREVALENCE OF DENGUE VIRUS, CHIKUNGUNYA VIRUS, AND ZIKA VIRUS DETERMINED THROUGH ENHANCED SURVEILLANCE OF EMERGING INFECTIOUS DISEASES IN MALAYSIA

Tupur Husain¹, Brian Pike¹, Chee-Sieng Khor², Nurul-Farhana Mohd-Rahim², Habibi Hassan², Siti-Sarah Nore², Jefree Johari², Shih-Keng Loong², Juraina Abd-Jamil², Keivan Zandi², Jing-Jing Khoo², Hai-Yen Lee², Yvonne Ai-Lian Lim³, Szaly AbuBakar²

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INFLUENZA A AND B VIRUS EPIDEMICS IN BHUTAN, CAMBODIA, NEPAL, PHILIPPINES AND THAILAND ARE CHARACTERIZED BY REPEATED INTRODUCTIONS AND LIMITED PERSISTENCE OF CIRCULATING STRAINS

Wiriya Rutvisuttinunt¹, Simon D. Pollett¹, Irina Maljkovic Berry¹, Angkana Huang², Wudtichai Manasatienkij², Chonticha Klungthong², Thipwipha Phonpakobsin², Chuanpis Ajariyakhajorn², Chanthap Lon², Sonam Wangchuk³, Sanjaya K. Shrestha⁴, John Mark S. Velasco², Maria Theresa P. Alera², Darunee Buddhari², Sriluck Simasathien⁵, Robert V. Gibbons², In-Kyu Yoon², Richard G. Jarman¹, Louis R. Macareo², Katie Anderson², Damon W. Ellison²

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DISCOVERY OF NOVEL VIRUSES IN MOSQUITOES FROM THE UNITED STATES AND MEXICO

Jermilia Charles¹, Chandra S. Tangudu¹, Stefanie L. Hurt¹, Charlotte Tumescheit², Andrew E. Firth², Ryan C. Smith¹, Julian E. Garcia-Rejon³, Carlos Machain-Williams³, Lyric C. Bartholomay⁴, Bradley J. Blitvich¹

¹Iowa State University, Ames, IA, United States, ²University of Cambridge, Cambridge, United Kingdom, ³Universidad Autónoma de Yucatán, Mérida, Mexico, ⁴University of Wisconsin-Madison, Madison, WI, United States

EFFECT OF MASS ARTESUNATE-AMODIOQUINE DISTRIBUTION ON EBOLA-RELATED MORTALITY IN SIERRA LEONE

Stephanie C. Garbern¹, Adam R. Aluisio¹, Tao Liu², Derrick Yam², Daniel Cho², Shiromi M. Perera³, Adam C. Levine¹, Adam C. Levine¹

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EARLY INTRAVENOUS FLUID THERAPY AND MORTALITY OUTCOMES AMONG PATIENTS WITH EBOLA VIRUS DISEASE: A MULTISITE RETROSPECTIVE PROPENSITY-MATCHED COHORT STUDY

Adam R. Aluisio¹, Tao Liu², Derrick Yam², Jillian L. Peters³, Daniel K. Cho⁴, Shiromi M. Perera⁵, Stephen B. Kennedy⁶, Adam C. Levine¹

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DIFFERENCES IN THE PEDIATRIC ENTERIC VIROME ACROSS WATERY, LOOSE AND FORMED STOOL CONSISTENCY TYPES

Kristen Aiemjoy¹, Eda Altan¹, Solomon Aragie², Dionna Fry¹, Tung G. Phan¹, Xutao Deng¹, Zerihun Tadesse², Kelly Callahan³, Eric Delwart¹, Jeremy Keenan¹

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EPIDEMIOLOGY OF G12 ROTAVIRUS AMONG INDIAN CHILDREN IN A MULTI-CENTRIC HOSPITAL-BASED SURVEILLANCE FROM 2005 TO 2016

Samarasimha Reddy N, Sidhartha Giri, Gagandeep Kang
Christian Medical College, Vellore, Vellore, India

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VECTOR-HOST ASSOCIATIONS AND REASSORTMENT POTENTIAL OF TICK-BORNE ORBIVIRUSES

Anna C. Fagre, Nicholas Bergren, Rebekah C. Kading
Colorado State University, Fort Collins, CO, United States

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SENSITIVITY OF A RAPID DIAGNOSTIC TEST FOR INFLUENZA

John Mark Velasco¹, Ma. Theresa Valderama¹, Ma. Theresa Alera², Paula Corazon Diones¹, Susie Leonardia¹, Cynthia Liao³, Domingo Jr. Chua³, Damon Ellison⁴, Louis Macareo⁴
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SPATIAL AND TEMPORAL SPREAD OF ZIKA AND CHIKUNGUNYA VIRUSES IN COLOMBIA, A GRAVITY-MODEL BASED APPROACH

Kelly A. Charniga¹, Zulma M. Cucunubá¹, Marcela Mercado², Franklyn Prieto², Martha Ospina², Neil M. Ferguson¹, Pierre Nouvellet³, Christl A. Donnelly¹
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ASSESSMENT OF POLIOVIRUS ANTIBODY SEROPREVALENCE IN HIGH RISK AREAS FOR VACCINE-DERIVED POLIOVIRUS TRANSMISSION IN MADAGASCAR

Richter Razafindratsimandresy¹, Jean-Michel Heraud¹, William Weldon², Steven Oberste², Ondrej Mach³, Roland Sutter³
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CLINICAL DEVELOPMENT OF VIRAL VECTORED VACCINES AGAINST MERS-COV

Katie Ewer¹, Pedro Folegatti¹, Duncan Bellamy¹, Catherine Mair¹, Naif Alharbi², Teresa Lambe¹, Danny Wright¹, George Warimwe¹, Sarah Gilbert¹
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Malaria – Biology and Pathogenesis

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OXIDATIVE STRESS IN MALARIA ENDOTHELIAL PATHOLOGY

Marisol Zuniga, Ana Rodriguez
New York University School of Medicine, New York, NY, United States

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ASSESSMENT OF ARTEMISININ COMBINATION REPEATED TREATMENT EFFECT ON BLOOD CELL LINES PARAMETERS DURING A TWO-YEAR FOLLOW UP INVOLVING 3ACT, ARTESUNATE-PYRONARIDINE (PYR), DIHYDROARTEMISININ-PIPERAQUINE (DHA-PQ) COMPARED TO ARTESUNATE-AMODIAQUINE (ASAQ) IN THE TREATMENT OF THE UNCOMPLICATED ACUTE PLASMODIUM FALCIPARUM MALARIA CASES IN BANFORA HEALTH DISTRICT

Issiaka Soulama, Maurice Ouattara, Noélie Henry, Aboubacar Sam Coulibaly, Moise T. Kaboré, Amidou Diarra, Daouda Ouattara, Edith C. Bougouma, Alphonse Ouedraogo, Amidou Ouedraogo, Benjamin Sombie, Issa N. Ouedraogo, Alfred B. Tiono, Sodiomon B. Sirima
Centre National de Recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso

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DEVELOPMENT OF RELIABLE MOSQUITO INFECTIONS WITH EAST AFRICAN PLASMODIUM FALCIPARUM STRAINS FOR HETEROLOGOUS CONTROLLED HUMAN MALARIA INFECTION

Kathryne D. Walker, Megan Dowler, Kathleen Moch, Hoseah Akala, Jorge O. Lopez, Norman C. Waters, Edwin Kamau, Lindsey S. Garver
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EVALUATING LIFE CYCLE PROGRESSION OF PLASMODIUM FALCIPARUM USING IMAGING FLOW CYTOMETRY

Quentin D. Watson, Jürgen Bosch, Peter A. Zimmerman
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(ACMCIP Abstract)

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PLASMODIUM VIVAX CIRCUMSPOROZOITE PROTEIN (CSP) IS UNABLE TO FUNCTIONALLY COMPLEMENT P. FALCIPARUM CSP

Catherin Marin-Mogollon¹, Fiona van Pul¹, Shinya Miyasaki¹, Beatrice Winkel¹, Ahmed Salman², Jai Ramesar¹, Hans Kroeze¹, Syibli Othman³, Takashi Imai¹, Meta Roostenberg¹, Chris J. Janse¹, Shahid M. Khan¹
¹LUMC, Leiden, Netherlands, ²The Jenner Institute, University of Oxford, Oxford, United Kingdom, ³Universiti Sultan Zainal Abidin, Terengganu, Malaysia

(ACMCIP Abstract)

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ME: HANDSOME MALARIA PARASITE. YOU: PUNCTUAL HOST THAT EXERCISES INFREQUENTLY AND LOVES DINNER. LET'S GET TOGETHER

Aidan J. O'Donnell, Kimberley F. Prior, Nicholas J. Savill, Sarah E. Reece
University of Edinburgh, Edinburgh, United Kingdom

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VECTOR SPECIES SELECTION IS CRITICAL FOR OPTIMIZATION OF P. FALCIPARUM (7G8) INFECTION OF MOSQUITO SALIVARY GLANDS FOR CONTROLLED HUMAN MALARIA INFECTION

Tatyana Savransky¹, Ying Jin Clark¹, Kathryne Walker¹, Megan Dowler¹, Paul Howell², Jorge O. Lopez¹, Lindsey S. Garver¹
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ENDOTHELIAL GLYCOCALYX DEGRADATION IS ASSOCIATED WITH SEVERE DISEASE AND FATAL OUTCOME IN ADULTS WITH *PLASMODIUM FALCIPARUM* MALARIA

Nicholas M. Anstey

Menzies School of Health Research, Darwin, Australia

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A BACTERIAL COMPLEX IS REQUIRED FOR PLASTID INTEGRITY IN *P. FALCIPARUM*

Anat Florentin, Dylon R. Stephens, David W. Cobb, Jillian D. Fishburn, Manuel A. Fierro, Vasant Muralidharan

University of Georgia, Athens, GA, United States

(ACMCIP Abstract)

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PLACENTAL MALARIA INDUCES OXIDATIVE STRESS IN HUMAN SYNCYTIOTROPHOBLAST

Demba Sarr, Jeffrey Ecker, David S. Peterson, Julie M. Moore

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(ACMCIP Abstract)

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LOW TO INEXISTENT KEY COMPONENTS OF NECROPTOSIS PROTECTS SYNCYTIOTROPHOBLAST FROM DEATH RECEPTOR DEPENDENT PATHWAY OF NECROPTOSIS

Jeffrey Ecker, Demba Sarr, Julie M. Moore

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(ACMCIP Abstract)

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INVESTIGATING THE ROLE OF *PLASMODIUM VIVAX* DUFFY BINDING PROTEIN IN THE INVASION OF DUFFY NEGATIVE RETICULOCYTES IN THE PACIFIC COAST OF SOUTH AMERICA

Fabian E. Saenz¹, Andrés Núñez¹, Bibiana Salazar¹, Francis B. Ntumngia², John H. Adams²

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HOST ANEMIA INCREASES *P. FALCIPARUM* GAMETOCYTOGENESIS *IN VITRO*

Morgan M. Goheen¹, Martha A. Clark², Rowena Neville³, Fatou Joof³, Andrew M. Prentice³, Carla Cerami³

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(ACMCIP Abstract)

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CRYOPRESERVATION OF *PLASMODIUM FALCIPARUM* GAMETOCYTES TO ENSURE VIABILITY AND INFECTIVITY TO MOSQUITOES

Rachel Evans, Abhai Tripathi, David J. Sullivan

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Malaria – Chemotherapy and Drug Resistance

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THE EFFICACY OF ACTS IN KENYA; THE STATUS AT KWALE, KISUMU, BUSIA AND KISII COUNTIES' THERAPEUTIC EFFICACY STUDY SITES

Francis T. Kimani, Edwin K. Too, Eva K. Nambati, Maureen A. Otinga, William C. Kiarie, Kelvin K. Thiong'o, Moses M. Ngari, Charity W. Maingi, Patricia Njuguna

Kenya Medical Research Institute, Nairobi, Kenya

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INCREASING *EX-VIVO* TOLERANCE OF GAMBIAN *PLASMODIUM FALCIPARUM* ISOLATES TO PARTNERS IN ARTEMISININ-BASED COMBINATION THERAPIES

Haddijatou Mbye

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TRENDS OF ANTIMALARIAL EFFICACY, MOLECULAR MARKERS OF DRUG RESISTANCE AND PARASITE POPULATION VARIATIONS AFTER MORE THAN A DECADE OF USING ARTEMISININ-BASED COMBINATION THERAPY IN MAINLAND TANZANIA

Deus S. Ishengoma¹, Celine I. Mandara¹, Marian Warsame², Marian Warsame², Marian Warsame², Michael Alifrangis³

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IMPACT OF HOST IRON DEFICIENCY ON MALARIAL ARTEMISININ RESISTANCE

Fatou Joof¹, Morgan Goheen², Carla Cerami¹

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Fatoumata I. Ballo, Aminatou Kone, Diagassan Doumbia, Sekou Sissoko, Zana Lamissa Sanogo, Moussa M. Diallo, Ousmane Yossi, Adama Dao, Ogobara K. Doumbo, Abdoulaye Djimde

Malaria Research and Training Center, Bamako, Mali

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PHARMACOKINETIC PROPERTIES OF RECTAL ARTESUNATE IN AFRICAN CHILDREN WITH SEVERE MALARIA

Sue J. Lee

Mahidol-Oxford Tropical Medicine Research Unit, Bangkok, Thailand

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EFFICACY OF ARTEMETHER-LUMEFANTRINE AND DIHYDROARTEMISININ-PIPERAQUINE FOR THE TREATMENT OF UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA AMONG CHILDREN IN WESTERN KENYA

Nelli Westercamp¹, Mary Owidhi², Kephass Otieno², Winnie Chebore², Ann M. Buff³, Meghna Desai¹, Simon Kariuki², Aaron Samuels¹

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RATES OF SEVERE CUTANEOUS ADVERSE REACTION AMONG WOMEN TAKING SP-CONTAINING REGIMENS DURING PREGNANCY: A SYSTEMATIC REVIEW

Emily Reilly¹, Rewa Choudhary¹, Danielle Back², Monica Shah³, Julie R. Gutman³

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THE EX VIVO GROWTH PROFILE OF ARTEMISININ-RESISTANT PARASITES AFTER ARTESUNATE TREATMENT IN THE INDUCED BLOOD STAGE MALARIA MODEL

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CHROLOQUINE, SULPHADOXINE-PYRIMETHAMINE RESISTANCE MARKERS PREVALENCE IN AREAS OF EARLY ELIMINATION IN SELECTED PARTS WESTERN AND SOUTHERN ZAMBIA

Lungowe Sitali¹, James Chipeta¹, John M. Miller², Mulenga C. Mwenda², Daniel J. Bridges², Busiku Hamainza³, Elizabeth K. Kawesha-Chizema³, Moonga B. Hawela³, Racheal F. Daniels⁴, Bernt Lindtjorn⁵
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EFFICACY OF ARTEMETHER-LUMEFANTRINE FOR THE TREATMENT OF UNCOMPLICATED P. FALCIPARUM MALARIA IN NORTHWEST ETHIOPIA

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MONITORING OF PHARMACOVIGILANCE DURING THE SEASONAL MALARIA CHEMPREVENTION CAMPAIGN IN SENEGAL, 2013 TO 2017

Ibrahima Diallo, Mamadou L. Diouf, Mamadou L. Diouf, Moustapha Cisse, Alioune B. Gueye, Medoune Ndiop, Doudou Sene
Senegal National Malaria Control Program, Dakar Fann, Senegal

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NATIONWIDE MOLECULAR SURVEILLANCE FOR PFCRT, PFDHFR, AND PFDHPS GENE MUTATIONS WITHIN THE HAITIAN PLASMODIUM FALCIPARUM POPULATION

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THERAPEUTIC EFFICACY OF ARTESUNATE-AMODIAQUINE AND ARTEMETHER-LUMEFANTRINE FOR THE TREATMENT OF UNCOMPLICATED PLASMODIUM FALCIPARUM MALARIA IN CHILDREN UNDER 5 YEARS IN GUINEA

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PLASMODIUM MALARIAE- IF AT FIRST YOU DON'T SUCCEED, TEST, TEST AGAIN

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BALANCED IMPACTS OF FITNESS AND DRUG PRESSURE ON THE EVOLUTION OF PFMDR1 ALLELES IN P. FALCIPARUM

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Malaria – Diagnosis

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NOVEL QUANTITATIVE POINT-OF-CARE G6PD TEST FOR SAFE TREATMENT OF P. VIVAX MALARIA

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THE PERFORMANCE OF A HIGHLY SENSITIVE RAPID DIAGNOSTIC TEST COMPARED TO POLYMERASE CHAIN REACTION

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EVALUATION OF A NEW SEROLOGY RAPID DIAGNOSTIC TEST FOR IDENTIFYING INDIVIDUALS WITH RECENT *PLASMODIUM FALCIPARUM* INFECTION IN A UGANDAN COHORT

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FIELD EVALUATION OF THE MALACHITE GREEN LOOP-MEDIATED ISOTHERMAL AMPLIFICATION AS A MALARIA DIAGNOSTIC IN A HEALTH POST IN RORAIMA STATE, BRAZIL

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A MALARIA MICROSCOPY QUALITY ASSURANCE SYSTEM IMPROVES DIAGNOSIS FOR MALARIA ELIMINATION IN MYANMAR

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DEVELOPMENT OF QUANTITATIVE PCR FOR ACCURATE QUANTIFICATION OF *PLASMODIUM* PARASITES USING NOVEL PRIMERS/PROBE FOR 18S RRNA GENES

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FALSE-NEGATIVE RAPID DIAGNOSTIC TEST RESULTS DUE TO *PLASMODIUM FALCIPARUM* HISTIDINE-RICH PROTEIN 2/3-NEGATIVE PARASITES ARE UNCOMMON AMONG SYMPTOMATIC SUBJECTS IN THE DEMOCRATIC REPUBLIC OF THE CONGO

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SCREENING FOR ASYMPTOMATIC *P. FALCIPARUM* INFECTIONS IN MADAGASCAR: PERFORMANCE OF A HIGHLY-SENSITIVE RAPID DIAGNOSTIC TEST

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LONG-TERM QUANTITATIVE ANALYSIS OF HRP2 PERSISTENCE POST-ANTIMALARIAL TREATMENT IN SENEGAL

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RAPID DIAGNOSTIC TESTS FOR MALARIA - 7 YEAR RESULTS FROM A PROFICIENCY TESTING SCHEME RUN BY UK NEQAS

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EVALUATION OF THE PERFORMANCE OF ULTRA-SENSITIVE RDT COMPARED TO CONVENTIONAL RDT AND ULTRA-SENSITIVE QPCR FOR THE DIAGNOSIS OF MALARIA

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MAKING THE CASE FOR REGIONALLY TAILORED MALARIA CONTROL INTERVENTIONS ACROSS THE DIVERSE ISLAND OF MADAGASCAR

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A SYSTEMATIC REVIEW AND META-ANALYSIS ON THE GLOBAL PREVALENCE OF PLASMODIUM KNOWLESII, PLASMODIUM MALARIAE, AND PLASMODIUM OVALE

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HOST AND PARASITE FACTORS ASSOCIATED WITH P. FALCIPARUM INFECTION PERSISTENCE AND GAMETOCYTE PRODUCTION DURING THE DRY SEASON IN THE GAMBIA

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Medoune Ndiop, Moustapha Cisse, Alioune Badara Gueye, Ibrahima Diallo, Seynabou Gaye, Doudou Sene
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MALARIA IN PREGNANCY: FROM PRE-CONCEPTION TO EARLY PREGNANCY, A GENOTYPING ANALYSIS

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PREVALENCE OF PLACENTAL MALARIA AMONG PREGNANT WOMEN IN THE MIDDLE BELT OF GHANA

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DEVELOPMENT OF SEROLOGICAL MARKERS FOR DETECTING RECENT EXPOSURE TO *PLASMODIUM VIVAX* MALARIA

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SUBMICROSCOPIC MALARIA INFECTIONS IN ASYMPTOMATIC INDIVIDUALS AT MILITARY HEALTH FACILITIES IN CENTRAL VIETNAM

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1040**PREVALENCE AND RISK FACTORS ASSOCIATED WITH MALARIA INFECTIONS IN AREAS WITH PERSISTENT TRANSMISSION FROM NORTHWESTERN AND SOUTHERN REGIONS OF TANZANIA****Mercy G. Chiduo**¹, Fibert Francis¹, Celine Mandara¹, Susan Rumisha², Misago Seth¹, Williams Makunde¹, Method Segeja¹, Frank Chacky³, Renatha Mandike³, Sigsbert Mkude³, Fabrizio Molteni³, Bruno Mmbando¹, Ally Mohammed³, Deusdedith Ishengoma¹¹National Institute for Medical Research, Tanga, United Republic of Tanzania, ²National Institute for Medical Research, Dar-es-salaam, United Republic of Tanzania, ³National Malaria Control Programme, Dar-es-salaam, United Republic of Tanzania**1041****USING ROUTINE ANTENATAL-CARE BASED RDT TESTING TO MEASURE POPULATION TRANSMISSION: THE KEY ROLE OF PREGNANCY-SPECIFIC PATTERNS OF SUSCEPTIBILITY AND IMMUNITY****Patrick Walker**¹, Matt Cairns², Julie Gutman³, Carole Khairallah⁴, Aaron Samuels⁵, Larry Slutsky⁶, Kammerle Schneider⁶, Steve Meshnick⁷, Linda Kalilani-Phiri⁷, Victor Mwapasa⁸, Steve Taylor⁹, Mwayi Madanitsa¹⁰, Meghna Desai¹¹, Feiko ter Kuile⁴¹MRC Centre for Global Infectious Disease Analysis, London, United Kingdom, ²London School of Hygiene & Tropical Medicine, London, United Kingdom, ³Malaria Branch, Division of Parasitic Diseases and Malaria, Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ⁵Malaria Branch, Division of Parasitic Diseases and Malaria, Center for Global Health, Centers for Disease Control and Prevention, Kisumu, Kenya, ⁶PATH, Seattle, WA, United States, ⁷University of North Carolina, Chapel Hill, NC, United States, ⁸College of Medicine, University of Malawi, Blantyre, Malawi, ⁹Duke University, Durham, NC, United States, ¹⁰University of Malawi, Blantyre, Malawi, ¹¹Malaria Branch, Division of Parasitic Diseases and Malaria, Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States**1042****PERSISTENT PLASMODIUM FALCIPARUM INFECTION IN NON PREGNANT WOMEN IS A RISK FACTOR FOR PREGNANCY-ASSOCIATED MALARIA****Bernard Tornyigah**¹, Akpéyédjé Yannelle Dossou², Guillaume Escrivo³, Morten A. Nielsen⁴, Ali Salanti⁴, Saadou Issifou², Achille Massougboji², Jean-Philippe Chippaux³, Philippe Deloron³, **Nicaise Tuikue Ndam**¹¹UMR216, MERIT, IRD and Noguchi Memorial Institute for Medical Research, University of Ghana, Accra, France, ²Centre d'Etude et de Recherche sur le Paludisme Associé à la Grossesse et à l'Enfance (Cerpage), Cotonou, Benin, ³Institut de Recherche pour le Développement (IRD), MERIT, Université Paris 5, Sorbonne Paris Cité, Paris, France, ⁴Centre for Medical Parasitology at Department of Immunology and Microbiology, Faculty of Health and Medical Science, University of Copenhagen, Copenhagen, Denmark**1043****RAPID INCREASE AND NORTHWARD SPREAD OF ARTEMISININ RESISTANT PLASMODIUM FALCIPARUM IN LAOS****Moritoshi Iwagami**¹, Masami Nakatsu¹, Phonepadith Khattignavong², Pheovaly Soundala², Lavy Lorphachan², Sengdeuane Keomalaphet², Phonepadith Xangsayalath³, Emilie Matsumoto-Takahashi¹, Virginie Pommelet², Bouasy Hongvanthong⁴, Paul T. Brey², **Shigeyuki Kano**¹¹National Center for Global Health and Medicine, Tokyo, Japan, ²Institut Pasteur du Laos, Ministry of Health, Vientiane, Lao People's Democratic Republic, ³National Institute of Public Health, Ministry of Health, Vientiane, Lao People's Democratic Republic, ⁴Center of Malariology, Parasitology and Entomology, Ministry of Health, Vientiane, Lao People's Democratic Republic**1044****PRIORITIZING THE SCALE UP OF INTERVENTIONS FOR MALARIA CONTROL AND ELIMINATION****Peter Winskill**¹, Patrick Walker¹, Edith Patouillard², Richard Cibulskis², Azra Ghani¹¹Imperial College London, London, United Kingdom, ²Global Malaria Programme, World Health Organization, Geneva, Switzerland**1045****AGE-RELATED RISK CLINICAL MALARIA OVER TIME IN A HIGHLAND AREA OF KENYA DURING A PERIOD OF DECREASING MALARIA TRANSMISSION FOLLOWED BY AN EPIDEMIC****Lindsey B. Turnbull**¹, George Ayodo², Eliud Onyango², Chandy C. John¹¹Indiana University School of Medicine, Indianapolis, IN, United States, ²Kenya Medical Research Institute, Kisumu, Kenya

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1046**THE EFFECT OF LAND USE CHANGE IN THE ABUNDANCE OF MALARIA CASES IN NORTHERN ARGENTINA****Ana Carolina Cuéllar**¹, Sylvie Manguin², Mirta Santana³, Mario Zaidenberg⁴, Mario Lanfri⁵, **María Julia Dantur-Juri**⁶¹Technical University of Denmark, National Veterinary Institute, Frederiksberg, Denmark, ²Institut de Recherche pour le Développement France (IRD), LIPMC, UMR-MD3, Faculté de Pharmacie, Université Montpellier, Montpellier, France, ³Facultad de Medicina, Universidad Nacional de Tucumán, San Miguel de Tucumán- Tucumán, Argentina, ⁴Coordinación Nacional de Control de Vectores, Ministerio de Salud de la Nación, Salta, Argentina, ⁵Instituto de Altos Estudios Espaciales Mario Gulich, Centro Espacial Teófilo Tabanera, Córdoba, Argentina, ⁶Unidad Ejecutora Lillo (CONICET-Fundación Miguel Lillo), San Miguel de Tucumán- Tucumán, Argentina**1047****CONTRIBUTION OF ASYMPTOMATIC CARRIAGE AND IMPORTED MALARIA TO SUSTAINED RESIDUAL TRANSMISSION IN KWAZULU-NATAL, SOUTH AFRICA: A PROVINCE ON THE BRINK OF ELIMINATING MALARIA****Jaishree Raman**¹, Laura Gast², Basil Brooke¹, Rajendra Maharaj³, Givemore Munchenga¹, Power Tshikae¹, Vishan Lakan³, Ryleen Balawanth², Craig Davies², Lindi Sangweni⁴, Moses Mkhabela⁴, Nompumelelo Zondo⁴, Zuziwe Nyawo⁴, Siphon Msimang⁵, Rebecca Graffy², Bheki Qwabe⁴, Devanand P. Moonasar⁶¹National Institute for Communicable Diseases, Johannesburg, South Africa, ²Clinton Health Access Initiative, Pretoria, South Africa, ³Medical Research Council, Durban, South Africa, ⁴KwaZulu-Natal Provincial Department of Health, Jozini, South Africa, ⁵KwaZulu-Natal Provincial Department of Health, Pietermaritzburg, South Africa, ⁶National Department of Health; University of Pretoria, Pretoria, South Africa**Malaria – Genetics/Genomics****1048****TRANSCRIPTOME ANALYSIS BASED DETECTION OF PLASMODIUM FALCIPARUM DEVELOPMENT IN ANOPHELES STEPHENSI MOSQUITOES****Miranda Oakley**¹, Nitin Verma¹, Timothy Myers², Hong Zheng¹, Emily Locke³, Merribeth Morin³, Abhai Tripathi⁴, Godfree Mlambo⁴, Sanjai Kumar¹¹Food and Drug Administration, Silver Spring, MD, United States, ²National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, ³PATH's Malaria Vaccine Initiative, Washington, DC, United States, ⁴Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

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1049**RELATIONSHIP BETWEEN GENOTYPE COMBINATIONS OF *NFKB1* AND *NFKBIA* PROMOTER POLYMORPHISMS AND CHILDHOOD *PLASMODIUM FALCIPARUM* SEVERE MALARIAL ANEMIA**

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1050**USING AMPLICON DEEP-SEQUENCING TO DETERMINE THE ETIOLOGY OF RESIDUAL ASYMPTOMATIC PARASITEMIA FOLLOWING HIGHLY EFFECTIVE INDOOR RESIDUAL SPRAYING IN A PREVIOUSLY HIGH TRANSMISSION SETTING IN UGANDA**

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1051**AFRICAN POPULATIONS OF *P. FALCIPARUM* UNDERGO FLUCTUATIONS IN ALLELE FREQUENCIES ACROSS THE GENOME OVER TIME**

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1052**POPULATION GENOMICS OF *PLASMODIUM VIVAX* IN PANAMA FROM SELECTIVE WHOLE GENOME AMPLIFICATION OF CLINICAL SAMPLES**

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1053**GENOME-WIDE DIFFERENCES IN *P. FALCIPARUM* PARASITES IN MALAWIAN CHILDREN AND ADULTS**

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1054**POLYIBD: INFERRING IDENTITY BY DESCENT FROM COMPLEX, POLYCLONAL INFECTIONS**

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1055**DRUG RESISTANCE AND POPULATION STRUCTURE OF *PLASMODIUM FALCIPARUM* ACROSS THE DEMOCRATIC REPUBLIC OF CONGO USING HIGHLY MULTIPLEXED PANEL OF THOUSANDS OF MOLECULAR INVERSION PROBES**

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1056***PLASMODIUM VIVAX* INFECTION IN A GOLD-MINING AREA SITUATED IN THE BRAZILIAN AMAZON REGION: IMMUNOLOGICAL AND GENETICS CLUES**

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1057**INVESTIGATING THE SELECTION OF ARTEMISININ RESISTANCE AS THE BACKGROUND OF EVOLVING PFS47 LOCUS**

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1058**THE GENETIC DIVERSITY OF *PLASMODIUM FALCIPARUM* IN GHANA**

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1059**NOVEL *IN SILICO* READ CAPTURE APPROACH OF WGS DATA FROM CLINICAL SAMPLES REVEALS TWO VAR2CSA HAPLOTYPE CLASSES RESPONSIBLE FOR MOST ANTIGENIC DIVERSITY**

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Malaria – Immunology

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B CELL MEDIATED IMMUNE RESPONSES AGAINST PLASMODIUM INFECTIONS ARE MODULATED BY THE T-BET TRANSCRIPTION FACTOR

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EXPRESSION AND REGULATION OF ACTIVATION-INDUCED CYTIDINE DEAMINASE AID MRNA IN SYMPTOMATIC AND ASYMPTOMATIC PLASMODIUM FALCIPARUM INFECTED CHILDREN

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ACUTE EPSTEIN BARR VIRUS INFECTION IS A RISK FACTOR FOR THE DEVELOPMENT OF NON-CEREBRAL SEVERE MALARIA

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LONG-LIVED MEMORY B CELL RESPONSE TO PLASMODIUM VIVAX DUFFY BINDING PROTEIN IN MALARIA LOW TRANSMISSION AREA

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MEMORY B CELLS ARE REACTIVATED IN VACCINATED C57/BL6 MICE AFTER CHALLENGE WITH PLASMODIUM BERGHEI

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THE CD73⁺ B-CELLS THAT ARE PROTECTIVE AGAINST PLASMODIUM YOELII (PYNL) ALSO EXPRESS IGM AND GRANZYME B

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(ACMCIP Abstract)

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RECOGNITION OF EXCRETED-SECRETED ANTIGENS OF PLASMODIUM FALCIPARUM BY IMMUNOBLOTTING

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IMPACT OF PREVIOUS MALARIA EXPOSURE ON HOST RESPONSES TO PLACENTAL MALARIA

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(ACMCIP Abstract)

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A STRUCTURALLY DEFINED EPITOPE IN P. VIVAX PVDBP THAT MAY MEDIATE ANTIBODY CROSS-REACTIVITY TO SIMILAR EPITOPES IN VAR2CSA

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ACQUISITION OF INTRALEUKOCYtic HEMOZIN DOWNREGULATES LAIR1 EXPRESSION AND LEUKOCYTE INHIBITORY SIGNALLING IN PEDIATRIC SEVERE MALARIAL ANEMIA

Angela O. Achieng¹, Bernard Guyah², Qiuying Cheng³, Elly O. Munde¹, Caroline Ndege³, Evans Raballah⁴, Samuel B. Anyona¹, Collins Ouma¹, Ivy Foo-Hurwitz³, John Ong'echa⁵, Christophe G. Lambert³, Prakasha Kempaiah³, Douglas J. Perkins³

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ELEVATED LEVELS OF CD4⁺CD45RA⁺CD62L⁺CD11A⁺ ARE ASSOCIATED WITH MALARIAL ANEMIA DISEASE SEVERITY IN KENYAN CHILDREN

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PROFILING OF PHENOTYPIC CHARACTERISTICS OF IMMUNE CELLS FOLLOWING MALARIA TREATMENT BY MASS CYTOMETRY

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Malaria – Modeling

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A SELECTIVE LIQUID CHROMATOGRAPHY-MASS SPECTROMETRY METHOD FOR SIMULTANEOUS QUANTIFICATION OF ARTEMETHER, LUMEFANTRINE AND THEIR PRINCIPLE METABOLITES IN HUMAN PLASMA

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MODELING HOST-PARASITE INTERACTIONS IN MALARIA BLOOD-STAGE INFECTIONS IN RHESUS MACAQUES

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GLOBAL ECONOMIC COSTS DUE TO P. VIVAX MALARIA TREATMENT AND THE COST-BENEFIT OF RADICAL CURE

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MULTIPLICITY OF INFECTION - HOW TO ESTIMATE IT AND HOW TO DESIGN YOUR STUDY

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CAUSAL DISCOVERY WITH KERNEL INDEPENDENCE TESTS FOR UNDERSTANDING AND MODELLING SEASONALITY OF MALARIA TRANSMISSION

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Punam Amratia¹, Paul Psychas¹, Benjamin Abuaku², Colins Ahorli², Justin Millar¹, Samuel Oppong³, Denis Valle¹

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SUPPORTING DECISION-MAKING FOR MALARIA ELIMINATION IN SOUTH AFRICA: A MATHEMATICAL MODELLING APPROACH

Sheetal Prakash Silal¹, Lisa J. White², Aparna Kollipara³, Mandisi Moya¹, Rebecca Graffy⁴, Eric Mabunda⁵, G. Malatje⁶, Bheki Qwabe⁷, Yogan Pillay⁸, Devanand Moonasar⁸

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THE ROLE OF HUMAN AND VECTOR MIGRATION, SEASONAL HETEROGENEITY, AND OPTIMIZED TARGETING OF LIMITED ANTI-MALARIAL INTERVENTIONS IN ACHIEVING MALARIA ELIMINATION IN THE SAHEL

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THE IMPACT OF SEASONAL VARIATION IN THE DETECTION OF CLINICALLY RELEVANT PLASMODIUM FALCIPARUM HRP2 GENE DELETIONS: A MODELLING STUDY

Oliver J. Watson¹, Robert Verity¹, Azra C. Ghani¹, Antoinette K. Tshetu², Melchior K. Mwandagalirwa², Steven R. Meshnick³, Jonathan B. Parr³, Hannah C. Slater¹

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MODELLING THE POTENTIAL IMPACT ON SPREAD OF ARTEMISININ AND PARTNER-DRUG RESISTANCE OF INTERMITTENT PREVENTIVE THERAPY OF MALARIA IN PREGNANCY

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MODELLING COUNTRY-LEVEL MALARIA PREVALENCE USING DHS DATA: COMPARISON OF MODEL APPROACHES

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SUBSTANTIAL REDUCTION IN THE TRANSMISSION OF *PLASMODIUM FALCIPARUM* LOW-DENSITY INFECTIONS ASSOCIATED WITH TRANSMISSION-BLOCKING VACCINES IN SILOCOS

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INVECTS*: A 3D COMPUTER SIMULATION MODEL OF INDOOR MOSQUITO BEHAVIOR FOR RAPID EVALUATION OF VECTOR CONTROL TOOLS (* INDOOR VECTOR CONTROL TESTING SIMULATOR)

Jeff Jones¹, Gregory P. Murray¹, Natalie Lissenden¹, Kobié Hyacinthe Toé², Vitaly Voloshin³, Josephine E. Parker¹, Catherine E. Towers³, Hilary Ranson¹, Sagnon N'Fale², David Towers³, Philip J. McCall¹
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IDENTIFYING KEY FACTORS OF THE TRANSMISSION DYNAMICS OF DRUG-RESISTANT MALARIA

Tamsin E. Lee, Melissa Penny
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ASSESSING THE IMPACT OF IMPERFECT ADHERENCE TO ARTEMETHER-LUMEFANTRINE ON ONWARD TRANSMISSION OF THE *PLASMODIUM FALCIPARUM* PARASITE USING WITHIN-HOST MODELLING

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Malaria – Other

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IN VITRO CULTURE OF A MADAGASCAR *PLASMODIUM VIVAX* ISOLATE IN HUMAN WHOLE BONE MARROW

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ASSESSING ORGANIZATIONAL CAPACITY TO DELIVER QUALITY MALARIA SERVICES IN RURAL LIBERIA

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(ACMCIP Abstract)

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METHOD DEVELOPMENT FOR *PLASMODIUM FALCIPARUM* SPOOROZOITES PROTEOME INTERROGATION

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QUALITATIVE ASSESSMENT OF LONG-LASTING INSECTICIDAL NETS TO PREVENT MALARIA ON BIKO ISLAND, EQUATORIAL GUINEA

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KNOWLEDGE, ATTITUDES AND PRACTICES OF MOTHERS CARETAKERS OF CHILDREN AGED 3 TO 120 MONTHS ON OF SEASONAL MALARIA CHEMO PREVENTION IN BOUNKILING HEALTH DISTRICT, SOUTH SENEGAL

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THE USE OF THAILAND'S MALARIA INFORMATION SYSTEM TO IMPROVE ACCESS AND QUALITY OF MALARIA SERVICES FOR VULNERABLE COMMUNITIES

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IVERMECTIN-BASED MALARIA VECTOR ELIMINATION VIA PERI-DOMESTIC CATTLE TREATMENT IN THE HIGHLANDS OF VIETNAM: EXPLORATORY STUDIES AND VILLAGE-BASED TRIAL

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PLASMODIUM FALCIPARUM POPULATION GENOMIC DIVERSITY ALONG THE SLOPE OF MOUNT CAMEROON

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TOWARDS MALARIA ELIMINATION: DEVELOPMENT AND ROLL-OUT OF AN INTEGRATED SURVEILLANCE SYSTEM FOR MALARIA ELIMINATION IN SOUTH AFRICA, 2018

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A RIGOROUS AND REPRODUCIBLE BAYESIAN METHOD FOR DETERMINATION OF THE ORIGINS OF MALARIA INFECTION IN AREAS APPROACHING ELIMINATION

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Tuesday
October 30

Malaria – Vaccines

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BCG-INDUCED TRAINED INNATE IMMUNITY DURING CONTROLLED HUMAN MALARIA INFECTION

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IDENTIFICATION OF PLASMODIUM GAPDH VACCINE ANTIGENS THAT TARGET SPOOROZOITE LIVER INVASION

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(ACMCIP Abstract)

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USE OF NSAIDS FOR MITIGATION OF MALARIA-ASSOCIATED SYMPTOMS AT HIGH DOSES OF SANARIA PFSPZ CHALLENGE UNDER CHLOROQUINE PROPHYLAXIS

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LONG TERM EFFICACY OF A THREE-DOSE REGIMEN OF RADIATION ATTENUATED PLASMODIUM FALCIPARUM NF54 SPOOROZOITES (PFSPZ VACCINE) IN HEALTHY MALIAN ADULTS

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EXPERIENCE IN MANAGING SANARIA@PFSPZ VACCINE: A RANDOMIZED, DOUBLE-BLIND, PLACEBO CONTROLLED PHASE 1 CLINICAL TRIAL TO EVALUATE THE SAFETY AND IMMUNOGENICITY OF PFSPZ VACCINE IN MALARIA-EXPERIENCED ADULTS IN BURKINA FASO

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PROTECTIVE EFFICACY OF THE PFSPZ VACCINE AGAINST ENDEMIC MALARIA AMONG MALARIA-EXPERIENCED ADULTS IN BURKINA FASO

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SAFETY, TOLERABILITY AND PROTECTIVE EFFICACY OF PFSPZ-CVAC AGAINST ENDEMIC MALARIA AMONG MALARIA-EXPERIENCED ADULTS IN MALI

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NO SEX, NO DIFFERENCE: PLASMODIUM FALCIPARUM INFECTIONS IN VIRGIN AND MATED ANOPHELES STEPHENSI

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WHOLE SPOOROZITE CULTURING SYSTEMS TOWARDS MANUFACTURING MALARIA VACCINES

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SAFETY, TOLERABILITY AND IMMUNOGENICITY OF PFSPZ VACCINE IN EQUATOGUINEAN CHILDREN AND OLDER ADULTS

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SAFETY, TOLERABILITY, IMMUNOGENICITY AND EFFICACY OF PFSPZ VACCINE VERSUS PFSPZ-CVAC IN EQUATOGUINEAN YOUNG ADULTS

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PROTECTIVE EFFICACY OF CONDENSED PFSPZ VACCINE IMMUNIZATION REGIMENS AGAINST HETEROLOGOUS CONTROLLED HUMAN MALARIA INFECTION

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Malaria – Vector Control

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CAN DURABILITY OF LONG-LASTING INSECTICIDAL NETS BE PREDICTED FROM A 'RISK INDEX' COMPOSED OF SELECTED VARIABLES ON NET HANDLING AND USE ENVIRONMENT?

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SUPPRESSING PLASMODIUM INFECTION AND MIDGUT MICROBIOTA OF ANOPHELES USING A TRANSGENIC CONDITIONAL SPONGE MICRORNA APPROACH

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DETERMINING SPECIES OF FIELD-COLLECTED MOSQUITOES USING NEAR-INFRARED SPECTROSCOPY

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INSECTICIDE SUSCEPTIBILITY STATUS OF ANOPHELES GAMBIAE S.L TO PUBLIC HEALTH INSECTICIDES FROM TWELVE SENTINEL SITES IN UGANDA

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COMMUNITY-BASED LLIN DISTRIBUTION: DESIGN AND IMPLEMENTATION LESSONS FROM ZANZIBAR

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ENTOMOLOGICAL INVESTIGATION OF ANOPHELES MOSQUITOES IN FOREST-RELATED AREAS IN ACEH, INDONESIA

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FACTORS ASSOCIATED WITH OWNERSHIP AND USE OF LONG-LASTING INSECTICIDAL NETS IN UGANDA: A CROSS-SECTIONAL SURVEY OF 48 DISTRICTS

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OPTIMIZING ENDECTOCIDE USE TO MITIGATE RESISTANCE DEVELOPMENT AND IMPROVE MALARIA CONTROL SUSTAINABILITY

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WIDESPREAD INSECTICIDE RESISTANCE REPORTED IN COUNTRIES WITH THE HIGHEST MALARIA BURDEN

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AN ENTOMOLOGICAL SURVEILLANCE PLANNING TOOL TO IMPROVE ENTOMOLOGICAL INTELLIGENCE FOR EVIDENCE-BASED VECTOR CONTROL DECISION-MAKING TOWARDS MALARIA ELIMINATION

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COSTS AND COST-EFFECTIVENESS OF ITN DISTRIBUTION STRATEGIES IN SUB-SAHARAN AFRICA

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POPULATION SEASONALITY AND RELEASE TIMING SIGNIFICANTLY AFFECT THE PROBABILITY OF ESTABLISHMENT FOR SMALL RELEASES OF GENE DRIVE MOSQUITOES

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RESULTS FROM A COMPARISON-CONTROL TRIAL EXAMINING DIFFERENT TARGETING STRATEGIES FOR IRS ZAMBIA 2017

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SOCIO-BEHAVIORAL SURVEILLANCE ON OUTDOOR SLEEPING AND OTHER OUTDOOR NIGHTTIME BEHAVIORS IN NORTHERN BENIN FOR INDOOR RESIDUAL SPRAYING DECISION-MAKING

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THE IMPACT OF MASS BED NET DISTRIBUTION ON VECTOR SPECIES AND MALARIA PREVALENCE IN KILWA AND KASHOBWE, HAUT-KATANGA PROVINCE, DEMOCRATIC REPUBLIC OF THE CONGO

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INSECTICIDE-TREATED NET ACCESS AND USE IN LIBERIAN HOUSEHOLDS 2016

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Bacteriology – Enteric Infections

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MINIMAL GENETIC DIVERSITY AND SPATIAL CLUSTERING OF CHOLERA CASES IN THE KATHMANDU VALLEY: IMPLICATIONS FOR A RING-VACCINATION STRATEGY

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BEYOND DRINKING WATER FOR CONTROL OF TYPHOID FEVER: NOVEL RISK FACTORS FROM A CASE-CONTROL ANALYSIS IN BLANTYRE, MALAWI

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HOW DO INFANTS ACQUIRE A DYSBIOTIC MICROBIOTA EVENTUALLY LEADING TO PEDIATRIC ENVIRONMENTAL ENTEROPATHY? THE MITICA STUDY: INPUTS FROM THE FIELD

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SAFETY AND EFFICACY OF NITAZOXANIDE ON DIARRHEA: A SYSTEMATIC REVIEW AND META-ANALYSIS OF RANDOMIZED CONTROLLED TRIALS

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DETECTION AND CORRECTION OF HYPOKALEMIA IN A MALNOURISHED PEDIATRIC POPULATION WITH DIARRHEA IN RURAL NIGER

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DISTINCT PROFILES OF ANTIMICROBIAL SUSCEPTIBILITY AND SALMONELLA SEROTYPES IN STOOLS OF CHILDREN ENROLLED IN THE GLOBAL ENTERIC MULTICENTER STUDY, 2007-2011

Irene N. Kasumba, Sunil Sen, Anna Roose, Jasnehta Permal-Booth, Sharon M. Tennant, GEMS Consortium
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Richard M. Jones¹, Weiping Zhang², David Sack¹
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Govindakarnavar Arunkumar¹, Jazeel Abdulmajeed¹, Prathiksha P¹, Vallab Ganesh¹, Santhosha Devadiga¹, Sudheesh Nair¹, Anup Jayaram¹, Robin S¹, Aswathyraj Sushama¹, Prasad Varamballi¹, Anjali Aithal¹, Jagdish Prasad², Kayla F. Laserson³

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Faniry Rakotoarimanana, Voahangy Andrianaivoarimanana, Samuel Andrianalimanana, Lila Rahalison, Minoarisoa Rajerison
Institut Pasteur de Madagascar, Antananarivo, Madagascar

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Uma U. Onwuchekwa¹, Doh Sanogo¹, Adama M. Keita¹, Boubou Tamboura¹, Moussa Kourouma¹, Anna Roose², Helen Powell², Milagritos D. Tapia², Nasrin Dilruba², Samba O. Sow¹, Karen K. Kotloff²

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Bacterial Infections**

1182**IDENTIFICATION AND CHARACTERIZATION OF ORIENTIA CHUTO IN TROMBICULID CHIGGER MITES COLLECTED FROM WILD RODENTS IN KENYA**

Clement Masakhwe¹, Piyada Linsuwanon², Gathii Kimita¹, Surachai Leepitakrat², Santos Yalwala¹, David Abuom¹, Nutthanun Auousawas², Tom Gilbreath¹, Elizabeth Wanja², John Waitumbi¹

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(ACMCIP Abstract)

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Gloria Luz Paniagua Contreras, Eric Monroy Perez, José Rogelio Reyes Solís, Areli Bautista Cerón, Ma. Patricia Sánchez Yañez, Susana González Almazán, Sergio Vaca
UNAM, Tlalnepantla, Mexico

1184**A NOVEL SURFACE-EXPOSED PROTEIN OF LEPTOSPIRA INTERROGANS THAT INTERACTS WITH THE COMPONENTS OF HUMAN TERMINAL COMPLEMENT PATHWAY**

Maria F. Pereira¹, Aline F. Teixeira¹, Gisele O. Souza², Silvio A. Vasconcellos², Marcos B. Heinemann², Ana L. Nascimento¹

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Moustapha Cisse¹, Assane Dieng¹, Serigne ML Ndiaye¹, Khadiatou Gueye¹, Frederic C. Diaz¹, Samba Diao¹, Safietou Ngom¹, Habba Diagne¹, Maguette Diop¹, Pape I. Ndiaye², Makhtar Camara¹, Cheikh SB Boye¹
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1186**MOLECULAR EPIDEMIOLOGY OF LEPTOSPIROSIS IN PERU**

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Alexandra W. Dretler¹, Julissa Avila², Lisette Sandoval Lira², Marcia Garcia Renee³, Raquel Burger-Calderon⁴, Michelle N. Hargita¹, Alexander M. Page⁵, Janet Thonkulpitak⁵, Jesse J. Waggoner¹, Sarah W. Satola¹

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1188**PREDICTORS OF GONORRHEA AND CHLAMYDIA AMONG PATIENTS ATTENDING FIVE SELECTED CLINICS IN GHANA**

Helena Dela¹, Naiki Attram², Eric Behene¹, Kwasi Addo¹, Edward Nyarko³, Nicholas Kyei³, John Carroll³, Cynthia Kwakye⁴, Christopher Duplessis⁵, Nehkonti Adams⁶, Eric Garges⁷, Andrew Letizia²

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Janith Warnasekara, Iresha Koralegedara, Suneth Agampodi
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Nino Trapaidze¹, Nabil H. Latif¹, Maia Nozadze¹, Tinatin Aptsiauri¹, Nino Mitaishvili¹, Nino Butskhrikidze², Keto Arobelidze³, Viktoria Tavadze³, Tsiuri Simsvi³, Lile Malania³, Paata Imnadze³, Michael A. Washington¹

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Stefany A. Plasencia-Rebata¹, Saúl Levy-Blitchtein¹, Miguel A. Aguilar-Luis², William Taboada³, **Juana M. del Valle-Mendoza²**
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GUT MICROBIOTA IN HOSPITALIZED CHILDREN UNDER 5 YEARS WITH ACUTE INFECTIOUS GASTROENTERITIS FROM A TEACHING HOSPITAL IN CAJAMARCA, PERU 2011-2012

André A. Taco-Masias¹, Augusto R. Fernandez-Aristi¹, Miguel A. Aguilar-Luis², Pablo Weilg¹, Zully Puyén³, Angela Cornejo-Tapia¹, Erico Cieza-Mora¹, Denisse Champin⁴, Jorge Bazán-Mayra⁵, Hernán Cornejo-Pacherres⁵, **Juana M. del Valle-Mendoza¹**
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MAKING A MDA PARTICIPATOR: IDENTIFYING FACTORS ASSOCIATED WITH MASS DRUG ADMINISTRATION PARTICIPATION FOR TRACHOMA CONTROL IN AMHARA, ETHIOPIA

Caleb D. Ebert¹, Tigist Astale², Eshetu Sata², Mulat Zerihun², Andrew W. Nute¹, Aisha Stewart¹, Demelash Gessesse², Gedefaw Ayenew², Zebene Ayele², Melsew Chanyalew³, Zerihun Tadessee², E. Kelly Callahan¹, Scott D. Nash¹
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THE PREVALENCE, RISK FACTORS AND SEROTYPES DISTRIBUTION OF TRACHOMA IN LAIKIPIA, KENYA 2017

Stephen Mwatha
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TRACHOMA GRADER RELIABILITY RESULTS FROM NINE TRACHOMA IMPACT SURVEY TRAININGS CONDUCTED IN AMHARA, ETHIOPIA, 2011 - 2017

Andrew W. Nute¹, Aisha E.P. Stewart¹, Mulat Zerihun², Eshetu Sata², Tigist Astale², Demelash Gessesse², Gedefaw Ayenew², Berhanu Melaku², Melsew Chanyalew³, Zerihun Tadesse², E. Kelly Callahan¹, Scott D. Nash¹
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MASS AZITHROMYCIN DISTRIBUTION FOR TRACHOMA CONTROL AND SELECTION FOR ANTIBIOTIC RESISTANCE: A SYSTEMATIC REVIEW

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Amy Pinsent, Robin Bailey, Deirdre Hollingsworth
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Jennifer C. Harding¹, Joyce Lyamuya², Erin Smith¹, Dr. Paul Courtright², Dr. Yaobi Zhang³, Dr. George Kabona⁴, Dr. Upendo Mwingira⁵
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Jeremiah M. Ngondi¹, Shekhar Sharma², Sailesh Mishra², Raman D. Prasad³, Achut B. Ojha³, Sudip Khatiwada³, Joshua Sidwell⁴, Mike French⁵, Lisa Rotondo⁵, Rob Henry⁶, Aryc Mosher⁶, Ana Bakhtiar⁷, Rebecca Willis⁷, Emma Harding-Esch⁸, Anthony W. Solomon⁹
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ELIMINATION OF TRACHOMA THE SAFE WAY IN NEPAL: KEY PROCESSES AND MILESTONES

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Zelalem Jemal¹, Abdi Yuya¹, Ahmed Aliyi², Mustafa Abamilki¹, Alemu Gemechu¹, Sherif Ahmed¹, Anne Heggen¹, Paul Courtright³, Sarity Dodson⁴
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Gilbert Bayeenda¹, Francis Mugame¹, Patrick Turyaguma¹, Edridah Tukahebwa¹, Benjamin Binagwa², Ambrose Onapa², Stella Agunyo², Martin Klaus², Michael French², Wangeci Thuo², Jeremiah Ngondi³
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1203**THE “LAST MILE” OF TRICHIASIS MANAGEMENT IN CAMEROON: ALIGNING IMPLEMENTATION AND EPIDEMIOLOGICAL DATA AT THE THRESHOLD OF TRACHOMA ELIMINATION**

Assumpta Lucienna Bella¹, Emilienne Epée¹, Julie Akame², Yannick Nkoumou², Michel Hendji², Medesse Sonou³, Stephanie Parker³, Whitney Goldman³, Stefania Slabyj³, Emily Gower⁴
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1204**WASH IMPACT ON THE ELIMINATION OF TRACHOMA: POSITIVE CHANGES BETWEEN IMPACT AND SURVEILLANCE SURVEYS IN TANZANIA**

Alistidia Simon¹, George Kabona¹, Jeremiah Ngondi², Mathias Kamugisha³, Upendo Mwingira¹, Andreas Nshala⁴
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Clinical Tropical Medicine

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Daniel S. Squire¹, Alan J. Lymbery¹, Habib Ahmed², Richard Harry Asmah³, Rca Andrew Thompson¹
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1206**SUCCESSFUL INTRODUCTION OF AN ANTIMICROBIAL STEWARDSHIP PROGRAM TO IMPROVE ANTIBIOTIC USAGE IN A LARGE, URBAN HOSPITAL IN BLANTYRE, MALAWI**

Rebecca Lester¹, Kate Haigh¹, Akuzike Kalizangoma², Jane Mallewa³, Mulinda Nyirenda³, Melita Gordon⁴, Nicholas Feasey¹
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Majed N. Almashjary, Steven Brooks, Hans Ackerman
National Institutes of Health, National Institute of Allergy and Infectious Diseases, Rockville, MD, United States

1208**BENEFITS AND COSTS OF HYDROCELE SURGERY IN MALAWI**

Eileen Stillwaggon¹, Larry Sawers², John Chipwanyana³, Hannah Betts⁴, Sarah Martindale⁴, Louise Kelly-Hope⁴
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Le Huu Nhat Minh¹, Le Khac Linh², Hoang Thi Nam Giang³, Ahmad Zayan⁴, Gamal Goda Abdel-Samea Eid⁵, Thai Le Ba Nghia⁶, Eman Bashir Othman⁷, Nguyen Thi Hoai Phuong⁸, Tran Thuy Huong Quynh⁸, Khalid Muhammad Khalaf⁹, **Le Huu-Hoai**¹⁰, Doan Thi Huong¹, Ngo Thi Huyen¹, Nguyen Lam Vuong¹, Masahiro Hashizume¹¹, Kenji Hirayama¹², Nguyen Tien Huy¹³
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Nkechinyere Elizabeth Harrison¹, Suzanne Mate², Johnbull Chuks Mbibi¹, Jeff Koehler³, Keersten Ricks³, Jacinta Elemere¹, Blessing Wilson¹, Chibuzo Achugwo¹, Concilia Uzoamaka Agbaim¹, Rosemary O Ndubuisi¹, Olotunde Adegbite¹, Kenneth Ejiofor Oruka¹, Chinonyerem Uzowuru¹, Esther Isaiah¹, Amaka Nzenweokwu¹, Zahra Parker⁴, Abiola Fasina⁴, Abdulwasii Bolaji Tiamiyu⁴, Edward Akinwale⁴, Nurudeen AA Hussain⁵, Joseph Diclaro⁶, Andrew Letizia⁷, Merlin Robb⁸, Jessica D. Eisner⁸, Nelson Michael², Julie Ake², Randal Schoepp³
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Kadri Boubacar¹, Nassirou Baido¹, Adbou Amza¹, Zeinabou T. Koullou², Youssouf Yaye², Aichatou Alfari¹, Amy Vienoglou³, Yaobi Zhang⁴
¹Ministry of Health, Niamey, Niger, ²Helen Keller International, Niamey, Niger, ³Helen Keller International, New York, NY, United States, ⁴Helen Keller International, Regional Office for Africa, Dakar, Senegal

1212**INFANTILE ANEMIA AND ASSOCIATED MEDICAL CONDITIONS IN GUINEA-BISSAU**David McGregor, Olivia Farrant, Anna Last
*London School of Hygiene & Tropical Medicine, London, United Kingdom***1213****INITIAL DEATH NOTIFICATION RESULTS FROM THE CHILD HEALTH AND MORTALITY PREVENTION SURVEILLANCE (CHAMPS) SIERRA LEONE PILOT PHASE, OCTOBER 2017 TO FEBRUARY 2018**Mary Claire Worrell¹, Jessica Preslar², Sorie I. Kamara³, Solomon Samura⁴, Carrie Jo Cain⁴, Baidu Kosa⁵, Erick Kaluma⁶, Kevin Clarke¹, Amara Jambai⁷, Reinhard Kaiser¹¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²University School of Medicine and Department of Epidemiology, Rollins School of Public Health, Atlanta, GA, United States, ³eHealth Africa, Makeni, Sierra Leone, ⁴World Hope International, Makeni, Sierra Leone, ⁵Focus 1000, Makeni, Sierra Leone, ⁶eHealth Africa, Freetown, Sierra Leone, ⁷Ministry of Health and Sanitation, Freetown, Sierra Leone**1214****PREDICTORS OF LINEAR GROWTH FALTERING IN CHILDREN WITH ENVIRONMENTAL ENTERIC DYSFUNCTION**Najeeha Talat Iqbal¹, Arjumand Rizvi¹, Sana Syed², Zehra Jamil¹, shahida Qureshi¹, Tauseef Akhund¹, Najeeb Rahman¹, Fayyaz Umrani¹, Kamran Sadiq¹, Syed Asad Ali¹¹Aga Khan University Karachi, Karachi, Pakistan, ²University of Virginia, Karachi, Pakistan**1215****DESIGNING A NOVEL MULTIPLEX MULTI-ANALYTE DIAGNOSTIC PLATFORM (MAPDX) TO ADDRESS SEVERE FEBRILE ILLNESS**Jennifer Osborn¹, Teri Roberts², Maurine Murtagh¹, Cassandra Kelly-Cirino¹, Sabine Dittrich¹, Oscar Bernal³, Francis Moussy⁴, Ethan Guillen³
¹Foundation for Innovative New Diagnostics (FIND), Geneva, Switzerland, ²MSF Access Campaign, Geneva, Switzerland, ³Doctors Without Borders, New York, NY, United States, ⁴World Health Organization, Geneva, Switzerland**1216****BRAIN MRI IN IMPORTED MALARIA**Thierry Rolling, Michael Schoenfeld, Thomas T. Brehm, Christof D. Vinnemeier, Marylyn M. Addo, Jens Fiehler, Andreas M. Frölich
*University Medical Centre Hamburg-Eppendorf, Hamburg, Germany***1217****A CASE OF INITIALLY UNEXPLAINED CARDIOMYOPATHY AND THE ROLE AND OPERATING CHARACTERISTICS OF REMOTE TELECONSULTATION**Steven Fox¹, Erin Kim², Michelle Turner², Meghan Moretti², Timothy Girard¹, Stephen Y. Chan²¹University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ²The Addis Clinic, Jamaica Plain, MA, United States**1218****METABOLOMIC ASSOCIATIONS WITH STUNTING IN EARLY CHILDHOOD IN A BANGLADESHI COHORT**Girija Ramakrishnan
*University of Virginia, Charlottesville, VA, United States***1219****CHAGAS DISEASE SEROLOGY AND CO-INFECTIONS WITH ARBOVIRUSES IN SOUTHERN COASTAL ECUADOR**Neida K. Mita Mendoza¹, Elizabeth McMahon¹, Aileen Kenneson¹, Arturo Barbachano-Guerrero², Efrain Beltran-Ayala³, Cinthya Cueva¹, Christine A. King², Christine D. Lupone¹, Yagahira E. Castro-Sesquen⁴, Robert H. Gilman⁴, Timothy P. Endy⁵, Anna M. Stewart-Ibarra⁵¹Center for Global Health and Translational Science, SUNY Upstate Medical University, Syracuse, NY, United States, ²Department of Microbiology and Immunology, SUNY Upstate Medical University, Syracuse, NY, United States, ³Department of Medicine, Universidad Tecnica de Machala, Machala, Ecuador, ⁴Department of International Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ⁵Department of Medicine, SUNY Upstate Medical University, Syracuse, NY, United States**1220****CULTURE ISOLATION AND GEOGRAPHICAL DISTRIBUTION OF LEPTOSPIRA SPP FROM PATIENTS WITH LEPTOSPIROSIS IN SRI LANKA**Dinesha D. Jayasundara¹, Indika S. Senevirathna¹, Janith N. Warnasekera¹, Chandika D. Gamage², Michael Matthias³, Joseph M. Vinetz³, Suneth B. Agampodi¹¹Faculty of Medicine and Allied Sciences, Anuradhapura, Sri Lanka, ²Faculty of Medicine, Peradeniya, Sri Lanka, ³Department of Medicine, San Diego, CA, United States**1221****DIARRHEA HOME MANAGEMENT AND DEHYDRATION IDENTIFICATION IN BAMAKO, MALI: PARENTS OF CHILDREN UNDER-5 LACK KNOWLEDGE AND CONFIDENCE**Elizabeth Dupont¹, Lamine Mariko², Fatoumata Sogodogo², Modibo Keita², Anna Roose³, Ballan Sangare², Doh Sanogo², Kounandji Diarra², Rokia Dembele², Uma Onwuchekwa², Adama Mamby Keita², Elie Schoenbaum¹, Juan Lin¹, Milagritos Tapia³, Samba Sow², Karen Kotloff³¹Albert Einstein College of Medicine, Bronx, NY, United States, ²Center for Vaccine Development- Bamako, Bamako, Mali, ³Center for Vaccine Development- University of Maryland Baltimore, Baltimore, MD, United States**1222****FROM INFECTION TO DISEASE IN LOIASIS: A SYSTEMATIC REVIEW OF CLINICO-EPIDEMIOLOGICAL CASE REPORTS**Kevin G. Buell¹, Charles Whittaker¹, Cédric B. Chesnais², Paul Jewell¹, Sébastien D. Pion², Maria-Gloria Basáñez¹, Michel Boussinesq²¹Imperial College London, London, United Kingdom, ²Institut de Recherche pour le Développement (IRD), Montpellier, France**1223****NEUTRALIZING ANTIBODY AFTER 2 INTRADERMAL DOSES PRE-EXPOSURE PROPHYLAXIS OF PURIFIED VERO CELL RABIES VACCINE (PVRV) TO 12-24 MONTH-OLD CHILDREN, CONCOMITANTLY WITH JAPANESE ENCEPHALITIS CHIMERIC VIRUS VACCINE (JE-CV)**Piyada Angsuwathcharakon
*Queen Saovabha Memorial Institute (WHO Collaborating Center for Research on Rabies Pathogenesis), Bangkok, Thailand***1224****SPLENOMEGALY WITH A SIDE OF SINISTER PORTAL HYPERTENSION**Abdelghani El Rafei, Ann Settgast
Department of Internal Medicine, University of Minnesota, Minneapolis, MN, United States

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Paul Roddy¹, Jennifer Osborn², Teri Roberts³, Ethan Guillen¹, Oscar Bernal¹, Stefano Ongarello², Armand Sprecher⁴, Ann-Laure Page⁵, Isabela Ribeiro⁶, Erwan Piriou⁷, Abiy Tamrat⁸, Roberto de la Tour⁸, Bhargavi Rao⁹, Laurence Flevaud¹⁰, Tomas Jensen¹, Lachlan McIver³, Cassandra Kelly², **Sabine Dittrich**²

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Natacha Marilyne Nsiewe¹, Chanceline Bilounga Ndongo¹, Paul Adrien Atangana², Aggée Ntonga¹, Franck Amabo¹, Eric Mboke¹, Elise Seukap¹, Joelle Nwanko¹, George Alain Etoundi¹
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Andrea Kummerle¹, George Sikalengo², Fiona Vanobberghen¹, Robert C. Ndege², Gideon Foe³, Chloe Schlaeppli⁴, Tracy R. Glass¹, Maja Weisser⁵, Catia Marzolini⁵
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National Institute For Medical Research, Dar es salaam, United Republic of Tanzania

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Eunice Mtingwe, Rose Mazengera, Elizabeth Chodzaza, Elizabeth Glaser Kamuzu College of Nursing-University of Malawi, Blantyre, Malawi

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Monalisa Tembo, Alice Kadango, Abigail Kazembe, Elizabeth Glaser Kamuzu College of Nursing-University of Malawi, Blantyre, Malawi

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Khatia R. Munguambe¹, Maria Maixenchs², Rui Anselmo¹, Jaume Ordi², Inacio Mandomando¹, Elizabeth O'Mara³, Pratima Raghunathan³, Robert Breiman³, Quique Bassat², Clara Menendez²
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Roland Bougma¹, Issouf Bamba², Ines M.F. Traore¹, Jean-Paul Djiatsa², Fanny Yago², Zeïna Sifri³, Stephanie Parker³, Stefania Slabyj³, Emily Gower⁴
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Andrea Weckman^{*1}, Robyn Elphinstone^{*1}, Vanessa Tran², Andrea L. Conroy³, Kathleen Zhong², Mwayiwawo Madanitsa⁴, Linda Kalilani-Phiri⁴, Victor Mwapasa⁴, Feiko O. ter Kuile⁵, Chloe McDonald², Kevin C. Kain⁶
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MASS SCREENING CAMPAIGNS TO INCREASE AWARENESS OF CERVICAL CANCER TREATMENT AND PREVENTION IN EQUATORIAL GUINEA

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Helminths – Nematodes – Filariasis (Epidemiology)

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Morgan Smith, Swarnali Sharma, Edwin Michael
University of Notre Dame, Notre Dame, IN, United States

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Johnny Vlamincx¹, Ole Lagatie², Ann Verheyen², Daniel Dana³, Bieke Van Dorst², Zeleke Mekonnen³, Bruno Levecke¹, Lieven Stuyver²
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ONCHOCERCA VOLVULUS TRANSMISSION IN THE MBAM VALLEY (CENTRE REGION, CAMEROON) FOLLOWING 18 YEARS OF ANNUAL CDTI

Adam Hendy¹, Meryam Krit¹, Kenneth Pfar², Hugues Nana-Djeunga³, Jacobus De Witte¹, Philippe Nwane³, Joseph Kamgno³, Michel Boussinesq⁴, Rory Post⁵, Robert Colebunders⁶, Sarah O'Neill⁷, Peter Enyong⁸, Alfred K. Njamnshi⁹
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Kebede Deribe¹, Jorge Cano², Abdel Jelil Njouendou³, Mathias Esum Eyong³, Amuam Andrew Beng³, Emanuele Giorgi⁴, David M. Pigott⁵, Rachel L. Pullan², Abdisalan M. Noor⁶, Fikre Enqueselassie⁷, Melanie J. Newport¹, Gail Davey¹, Samuel Wanji³
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IMPACT OF 40 YEARS INTERVENTION TO CONTROL ONCHOCERCIASIS IN COTE D'IVOIRE

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LINEAR EPITOPES IN ONCHOCERCA VOLVULUS VACCINE CANDIDATE PROTEINS, EXCRETORY-SECRETORY PROTEINS, AND SERODIAGNOSTIC CANDIDATES

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IMPLEMENTING THE SUPERVISOR'S COVERAGE TOOL IN AN URBAN SETTING: A CASE STUDY IN PORT-AU-PRINCE, HAITI

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THE RELATIVE IMPACT OF ANNUAL AND SEMIANNUAL MDA ON LYMPHATIC FILARIASIS AND ONCHOCERCIASIS IN COTE D'IVOIRE

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Helminths – Nematodes – Intestinal Nematodes

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SOIL TRANSMITTED HELMINTHS INFECTION AND ASSOCIATED RISKS STILL A PREVALENT ISSUE IN NIGERIA; PRIMARY SCHOOL CHILDREN ASSESSMENT IN OWO LOCAL GOVERNMENT AREA OF ONDO STATE, NIGERIA

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INVESTIGATING THE IMPACT OF REPEATED, COMMUNITY-WIDE, MASS DRUG ADMINISTRATION ON THE AGGREGATION OF SOIL-TRANSMITTED HELMINTH INFECTION

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VERMOX® (MEBENDAZOLE) CHEWABLE TABLET - DEVELOPING A CHILD-FRIENDLY SOLUTION TO ELIMINATE SOIL-TRANSMITTED HELMINTHS THROUGH PREVENTIVE CHEMOTHERAPY

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COMPARISON OF PCR DIAGNOSTIC WITH KATO KATZ TECHNIQUE FOR DIAGNOSIS OF SOIL TRANSMITTED HELMINTHS AND SCHISTOSOMIASIS INFECTIONS IN THE AYALOLOO CLUSTER OF SCHOOLS IN THE ACCRA METROPOLIS OF GHANA

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THE HIGH POTENTIAL OF BACILLUS THURINGIENSIS DERIVED CRY5B AGAINST STRONGYLOIDES STERCORALIS IN VITRO

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ELIMINATION OF THE SOIL TRANSMITTED HELMINTHS FROM GRENADA

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A RANDOMIZED, DOUBLE BLIND, PLACEBO CONTROLLED TRIAL TO ASSESS EFFECTIVENESS OF ALBENDAZOLE IN CHILDREN WITH ASYMPTOMATIC TOXOCARIASIS

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Amalea Dulcene Nicolasora, Inez Andrea P. Medado, Karen Iana M. Cruz, Hannah Leah E. Morito, Allen Anthony P. Laraño, Deana Mae H. Ocampo, Neil Tristan M. Yabut, Francisco Gerardo M. Polotan, Lei Lanna M. Dancel, Dave A. Tangcalagan, Kim Joshua M. Dominguez, Rowena J. Capistrano, Sherwin A. Galit, Edelwisa S. Mercado
Research Institute for Tropical Medicine, Muntinlupa, Philippines
(ACMCIP Abstract)

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CHARACTERIZATION OF CELL PHENOTYPES INVOLVED IN ASYMPTOMATIC HOOKWORM AND MALARIA PARASITE COINFECTIONS IN ENDEMIC GHANA

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HELMINTHIC INFECTION IS ASSOCIATED WITH MALNUTRITION IN URBAN BANGLADESHI CHILDREN UNDER TWO YEARS OLD

Sultan Uz Zaman, Aleya Ferdous, Tuhinur Arju, Masud Alam, Rashidul Haque
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CAPILLARIA OVA CONFOUND DIAGNOSIS OF TRICHURIS TRICHIURA IN HUMANS BY KATO KATZ SMEAR IN LIBERIA

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NO EVIDENCE OF SOIL TRANSMITTED HELMINTH INFECTION IN A SURVEY OF STOOL SAMPLES FROM THE STATE OF MISSISSIPPI

Richard Bradbury¹, Irene Arguello², Meredith Lane¹, Sam Jameson², Kathryn Hellmann², Lisa Stempak³, Regina Galloway³, Sheryl Hand⁴, Paul Byers⁴, Susan P. Montgomery¹, Alfio Rausa⁵, Brian Kirmse², Charlotte V. Hobbs²
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(ACMCIP Abstract)

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STRONG TREAT 1 TO 4: A RANDOMIZED, OPEN-LABEL CLINICAL TRIAL ON MULTIPLE VERSUS SINGLE DOSE OF IVERMECTIN FOR THE TREATMENT OF STRONGYLOIDIASIS

Dora Buonfrate¹, José Vázquez-Villegas², José Muñoz³, Peter L. Chiodini⁴, Begoña Trevino-Maruri⁵, Paola Zanotti⁶, Lorenzo Zammarchi⁷, Leila Bianchi⁸, Federico Gobbi¹, Manuel J. Soriano-Pérez², Ana Requena-Mendez³, Gauri Godbole⁴, Marta Di Nicola⁹, Marilena Romero⁹, Zeno Bisoffi¹⁰
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HOOKWORM INFECTION IN CHILDREN IS ASSOCIATED WITH NEGATIVE HEALTH OUTCOMES IN RURAL ALABAMA

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Kinetoplastida – Diagnosis and Treatment (Including Leishmania and Trypanosomes)

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CEREBROSPINAL FLUID NEOPTERIN AND CXCL13 ARE SUITABLE BIOMARKERS FOR STAGING AND DETECTION OF TREATMENT FAILURE IN A NON-HUMAN PRIMATE MODEL OF HUMAN AFRICAN TRYPANOSOMIASIS

Dawn Maranga¹, Maina Ngotho², Victor Mwadime¹, Thomas Adino¹, George Olouch¹, John Kagira³, Maxwell Waema³, Sylvain Bieler⁴, Joseph Ndung'u⁴
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(ACMCIP Abstract)

Tuesday
October 30

1269**ADDRESSING CHAGAS DISEASE AS PART OF PRIMARY CARE IN MASSACHUSETTS - THE STRONG HEARTS PROJECT**

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1270**EVALUATION OF SAFETY AND EFFICACY OF LEISHMANIA MAJOR CENTRIN DELETED (LMCEN-/-) LIVE ATTENUATED PARASITES AS A PROPHYLACTIC VACCINE AGAINST VISCERAL LEISHMANIASIS**

Subir Karmakar¹, Ranadhir Ranadhir Dey¹, Fabiano Oliveira², Nevien Ismail¹, Wenwei Zhang³, Shinjiro Hamano⁴, Greg Matlashewski³, Abhay Satoskar⁵, Shaden Kamhawi², Jesus G. Valenzuela², Hira L. Nakhasi¹

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(ACMCIP Abstract)

1271**EVALUATION OF POINT-OF-CARE TESTS FOR VISCERAL LEISHMANIASIS DIAGNOSIS IN KENYA**

Margaret Mbuchi¹, Joseph M. Ndung'u², Monique Wasunna³, Finnley Osuna¹, Charles G. Magiri¹, Alfred Muia¹, Peter Kioko¹, Michael Bakari⁴, Frederick Mwathe¹, Ronald Ronoh⁵, Edwin Abner¹, Mercy Chirchir⁶, Simon Njenga¹, George Kirigi¹, Robert Kimutai¹, Israel Cruz²

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1272**CHARACTERIZATION OF PREGNANT WOMEN WITH CHAGAS ASSISTING THE LABOR HOSPITAL OF PERCY BOLAND IN SANTA CRUZ, BOLIVIA**

Freddy Tinajeros¹, Sarah Birk², Manuela Verástegui³, Edith Malaga³, Edward Valencia³, Cristian Roca¹, Edith Hinojosa¹, Federico Urquiza⁴, María del Carmen Mendiña⁴, Robert Gilman²

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1273**DIAGNOSTIC PERFORMANCE OF A RECOMBINANT POLYMERASE AMPLIFICATION TEST LATERAL FLOW (RPA-LF) FOR CUTANEOUS LEISHMANIASIS IN COLOMBIA: A PILOT STUDY**

Sandra Jimena Jojoa Jojoa¹, Alexandra Cossio Duque¹, Maria Del Mar Castro¹, Alejandro Castellanos Gonzalez², Peter Melby², Thomas Shelite², Nancy Gore Saravia¹, Bruno Travi²

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(ACMCIP Abstract)

1274**THE REALITIES OF DIAGNOSING VISCERAL LEISHMANIASIS (VL) IN ENDEMIC AREAS OF GADARIF, SUDAN: A MIXED METHODS STUDY**

Temmy Sunyoto¹, Gamal Adam², Atia Atia², Margriet den Boer³, Koert Ritmeijer⁴, Gabriel Alcoba⁵, Albert Picado⁶, Marleen Boelaert¹

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1275**POPULATION PHARMACOKINETIC OF BENZNIDAZOLE, A DRUG FOR CHAGAS DISEASE, IN AN ACUTE INFECTION MURINE MODEL**

Daniela Rocco, Ernesto Gulín, Samanta Moroni, Jaime Altcheh, Facundo García Bournissen

Buenos Aires Children's Hospital. Multidisciplinary Institute for Research in Pediatric Diseases (IMIPP), Buenos Aires, Argentina

1276**COMPREHENSIVE CONTROL OF CHAGAS DISEASE IN ENDEMIC RURAL AREAS FROM THE ARGENTINEAN CHACO - IMPACT ON DIAGNOSIS AND TREATMENT COVERAGE**

Lorena Ruiz Cobo¹, Yanina Maza¹, Diego Weinberg², Ana Beltramone³, Estela Calderón³, Daniel Acuña¹, Marcelo Torres Perez¹, Mariela Fabiani¹, Marcelo C. Abril², Paula Sartor¹

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1277**IDENTIFICATION OF NOVEL ANTI-LEISHMANIAL COMPOUNDS AND THEIR EFFICACY ACROSS NINE LEISHMANIA STRAINS**

Erica Penn, Mozna Khraiweh, Richard Sciotti, Juan Mendez, Chad Black, Mara Kreishman-Deitrick, Mark Hickman, Jangwoo Lee, Brian Vesely

Walter Reed Army Institute of Research, Silver Spring, MD, United States

1278**CHARACTERIZATION OF TRYPANOSOMA BRUCEI 20S PROTEASOME INHIBITOR**

Yen-Liang Chen¹, Srinivasa Rao¹, Sarah Williams¹, Rima Ketan Palkar¹, Amy Pei¹, Hok Sum Cheung¹, Li Tian², Hazel Koh³, Vanessa Manoharan³, Jan Jiricek¹

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Kinetoplastida – Immunology (Including *Leishmania* and Trypanosomes)

1279**CELLULAR AND HUMORAL IMMUNE RESPONSES TO TRYPANOSOMA CRUZI AFTER COMPLETE OR INCOMPLETE TREATMENT SCHEDULES WITH BENZNIDAZOLE**

Melisa D. Castro Eiro¹, Maria G. Alvarez², Rodolfo Viotti², Huifeng Shen³, Graciela Bertocchi², Bruno Lococo², G. Cesar¹, Maria A. Natale¹, Maria C. Albareda¹, Rick Tarleton⁴, Susana Laucella¹

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GA, United States, ⁴Center for Tropical and Emerging Global Diseases, University of Georgia, Athens, GA, United States

(ACMCIP Abstract)

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SURFACE GLYCOCONJUGATES FROM *LEISHMANIA MAJOR* AND *LEISHMANIA TROPICA* AS TARGETS FOR HUMAN HOST IMMUNE RESPONSE

Victoria M. Austin¹, Krishanthi Subramaniam¹, Alba L. Montoya², Nate Schocker², Katja Michaels², Igor C. Almeida², Alvaro Acosta Serrano¹
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(ACMCIP Abstract)

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INVOLVEMENT OF THE NON-INFLAMMASOME FORMING NUCLEOTIDE-BINDING DOMAIN LEUCINE-RICH REPEAT PROTEIN 12 (NLRP12) IN MURINE VISCERAL LEISHMANIASIS (VL)

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(ACMCIP Abstract)

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IMMUNE IMPACT OF TICK-BORNE CO-INFECTIONS ON CANINE LEISHMANIASIS

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(ACMCIP Abstract)

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CYTOTOXIC ACTIVITY BY NK CELLS CONTRIBUTE TO PARASITE KILLING AND IMMUNOPATHOLOGY IN CUTANEOUS LEISHMANIASIS

Taís Campos¹, Camilla Sampaio¹, Paulo R.L. Machado², Phillip Scott³, Edgar M. Carvalho¹, Lucas P. Carvalho¹
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(ACMCIP Abstract)

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NEW BIOMARKERS FOR HUMAN ASYMPTOMATIC *LEISHMANIA INFANTUM* INFECTION

Ines Elakhal Naouar¹, Nancy Koles¹, Rupal Mody², Dutchabong Shaw¹, Daniel Bigley³, Edgie Co², Jeffrey Sherwood², Selma Jeronimo⁴, Naomi Aronson¹
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(ACMCIP Abstract)

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IMMUNOGENICITY OF CYTOMEGALOVIRUS VECTORED VACCINES FOR CHAGAS DISEASE

Liliana Villanueva¹, Daniel N. Streblov², Takeshi Ando², Christine Meyer³, Eric Bruening³, Maria E. Bottazzi¹, Peter J. Hotez¹, Kathryn M. Jones¹
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EFFECTS OF INSULIN-LIKE GROWTH FACTOR-I AND IL-4 ON *LEISHMANIA (L.) INFANTUM*-INFECTED HUMAN MACROPHAGES

Hiro Goto, Orlando R. Seviliano, Luiza C. Reis, Eduardo M. Ramos-Sanchez
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(ACMCIP Abstract)

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EXPRESSION OF COSTIMULATORY MOLECULES DURING VISCERAL LEISHMANIASIS AND AFTER CLINICAL CURE

João Firmino Rodrigues-Neto, Leonardo Capistrano Ferreira, Selma Maria Bezerra Jeronimo
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(ACMCIP Abstract)

One Health: Interface of Human Health/Animal Diseases

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DROMEDARY CAMELS: GROWING ZONOTIC DISEASE RISK AT THE HUMAN-LIVESTOCK-WILDLIFE INTERFACE

Sophie Zhu¹, Dawn Zimmerman¹, Sharon Deem²
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A GENERALIZABLE ONE HEALTH PATHWAY FOR THE CONTROL OF ZONOTIC DISEASES

Ria R. Ghai¹, Grace W. Goryoka¹, Maria E. Negron¹, Ryan M. Wallace¹, Antonio R. Vierra¹, Trevor R. Shoemaker¹, James C. Kile¹, Sean V. Shadomy², Julie R. Sinclair³, Stephanie J. Salyer¹, Casey Barton Behravesh¹
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CYSTINET-AFRICA: A ONE-HEALTH NETWORK FIGHTING TAENIASIS/CYSTICERCOSIS IN SUB-SAHARAN AFRICA

Helena A. Ngowi, Cystinet- Africa
Sokoine University of Agriculture, Morogoro, United Republic of Tanzania

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SEROCONVERSION OF BATS IN NORTHEAST INDIA TO FILOVIRUSES AND HENIPAVIRUSES

Pilot Dovih¹, Eric Laing², Dolyce Low³, Ansil BR¹, Yihui Chen³, Martin Linster³, Christopher Broder², Gavin Smith³, Uma Ramakrishnan¹, Ian Hewitt Mendenhall³
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DETECTING SPECIES-SPECIFIC FECAL CONTAMINATION USING MICROBIAL SOURCE TRACKING MARKERS: A VALIDATION STUDY IN THE PERUVIAN AMAZON

Francesca Schiaffino¹, Alexandra Lorentz¹, Nora Pisanic¹, Dixner Renjifo Trigo², Mery Siguan Salas², Pablo Penataro Yori¹, Margaret N. Kosek¹
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PREVALENCE AND GENOTYPING OF *LEPTOSPIRA* CARRIAGE OF RODENTS IN SOUTHERN AND NORTHEASTERN THAILAND

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BRUCELLOSIS AMONG PYREXIA OF UNKNOWN ORIGIN CASES IN AMSING JORABAT SUB-CENTRE, KAMRUP METRO, ASSAM, INDIA 2015

Takujungla Jamir¹, Sahabuddin Ahmed Laskar², Vaishali Sarma²

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USING BEHAVIORAL AND SENTINEL SITE SURVEILLANCE TO ESTIMATE ACUTE LEPTOSPIROSIS PERIOD PREVALENCE IN NORTHERN TANZANIA

Michael J. Maze¹, Katrina J. Sharples¹, Kathryn J. Allan², Holly M. Biggs³, Shama Cash-Goldwasser⁴, Renee L. Galloway⁵, William De Glanville², Jo E. Halliday², Rudovick R. Kazwala⁶, Blandina T. Mmbaga⁷, Venance P. Maro⁷, Matthew P. Rubach³, Sarah Cleaveland², John A. Crump¹

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HABITAT FRAGMENTATION AND LAND-USE CHANGE AS DRIVERS OF YELLOW FEVER OUTBREAKS IN SOUTH AMERICA

Arran Hamlet, Neil Ferguson, Tini Garske

Imperial College London, London, United Kingdom

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SEROPREVALENCE OF BRUCELLOSIS AND ASSOCIATED RISK FACTORS IN HUMANS AND LIVESTOCK IN HOIMA, UGANDA

Ayako Wendy Fujita¹, Lawrence Mugisha², Michael Mahero³, Shamilah Namusisi⁴, Dominic Travis³, David Boulware⁵, Katey Pelican³

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Pneumonia, Respiratory Infections and Tuberculosis

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ACUTE RESPIRATORY INFECTION SURVEILLANCE IN A PHASE 2 PROSPECTIVE, COMMUNITY-BASED COHORT IN VIENTIANE, LAOS

Erica Harris¹, Hubert Endtz², Inthalphone Keovichith³, Phimpha Paboriboune³, Nicolas Steenkeste², Paul Newton⁴, Melina Messaoudi², Bruno Flaissier², David Dance⁴, Valentina Sanchez Picot²

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USE OF PULSE OXIMETRY FOR DIAGNOSIS OF HYPOXEMIA AND MONITORING OF CHILDREN WITH PNEUMONIA: A DESCRIPTIVE STUDY FROM ETHIOPIA

Habtamu S. Tolla¹, Yigeremu Abebe Asemere¹, Alemayehu Birehanu Belete¹, Mekitew Letebo Abuto¹, Zinabie Feleke Fekadu¹, Dinkineh Bikila Woyesa¹, Felix Lam², Simret Amha³, Yibeltal Mekonen Feyisa³

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CLINICAL CHARACTERISTICS OF PATIENTS ADMITTED TO PNEUMONIC PLAGUE TREATMENT CENTERS DURING THE 2017 MADAGASCAR PNEUMONIC PLAGUE OUTBREAK: A PROSPECTIVE OBSERVATIONAL STUDY

Alex Salam¹, Mihaja Raberahona², Minoarisoa Rajerison³, Prisca Andriantsalama³, Anna Funk⁴, Lyndsey Castle¹, Faraniaina Andrianarintsiferantsoa², Mbola Rakotomahefa², Rivo Rakotoarivelo⁵, Haja Rabezanahary², Eric Bertherat⁶, Bertrand Renaud⁶, Amanda Rojek¹, Tommy Rampling¹, Emmanuelle Denis¹, Jean-Michel Héraud³, Frédérique Randrianirina³, Laurence Baril³, Arnaud Fontanet⁴, Peter Horby¹, Mamy Jean de Dieu Randria², Rindra Randremanana³

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PREDICTORS OF *STREPTOCOCCUS PNEUMONIAE* CARRIAGE AND ESTIMATES OF PCV10 VACCINE EFFECTIVENESS IN RURAL PAKISTAN

M Imran Nisar¹, Benjamin M. Althouse², Fyezah Jehan¹, Sheraz Ahmed¹, Furqan Kabir¹, Sadia Shakoor¹, Asad Ali¹, Najeeha Iqbal¹, Hao Hu²

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ESTIMATION OF A PREDICTIVE FUNCTION FOR MMR VACCINATION BEHAVIOR AS A FUNCTION OF YEAR AND AGE

Sojung Koh, Alex Perkins

University of Notre Dame, Notre Dame, IN, United States

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BACTERIAL AETIOLOGY, ANTIBIOTIC SUSCEPTIBILITY, AND OUTCOMES AMONG HOSPITALIZED UGANDAN CHILDREN DIAGNOSED WITH PNEUMONIA

James A. Kapisi¹, Asadu Sserwanga¹, Jane Frances Namuganga¹, Mohammed Lamorde², Richard Walemwa², Franklin Kizito², Gilbert Aniku³, Jane Frances Nanteza⁴, Abner Tagoola⁵, Sophie Namasopo⁶, Jeff N. Borchert⁷, Matthew Mikoleit⁷, Paul S. Mead⁸, Kiersten Kugeler⁸, Ron Rosenberg⁸, Henry M. Kajumbula⁹, Hannington Baluku⁹, Molly Freeman¹⁰, Eric Mintz¹⁰, Grace D. Appiah¹⁰, Moses R. Kanya¹¹, Arthur Mpimbaza¹²
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EVALUATING CHANGES IN PNEUMONIA INCIDENCE AFTER 20 YEARS IN CHILDREN AGED 2-59 MONTHS IN OSHIKHANDASS, PAKISTAN: A COMMUNITY-BASED STUDY

Chelsea Hansen¹, Syed Iqbal Azam², Alexandra Jamison¹, Elizabeth D. Thomas¹, Ejaz Hussain¹, Julia Baker¹, Nahida Bano², Zeba Rasmussen¹
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MODELING MEASLES IMPORTATION PATTERNS INTO THE UNITED STATES USING PUBLIC HEALTH SURVEILLANCE AND AIRLINE TRAVEL DATA

Marya Poterek, Alex Perkins
University of Notre Dame, Notre Dame, IN, United States

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ACUTE RESPIRATORY VIRAL INFECTIONS: AN IMPORTANT CAUSE OF ADMISSIONS FOR ACUTE FEBRILE ILLNESS IN THE SOUTHERN PROVINCE, SRI LANKA

L. Gayani Tillekeratne¹, Champica K. Bodinayake², Ryan Simmons¹, Ajith Nagahawatte², Vasantha Devasiri², Sky Vanderburg¹, Ruvini Kurukulasooriya², Bradley P. Nicholson¹, Larry P. Park¹, Truls Ostbye¹, Megan E. Reller¹, Christopher W. Woods¹
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THE USE OF SMOKE BASED MOSQUITO PREVENTION METHODS: A RISK FACTOR FOR ACUTE RESPIRATORY INFECTIONS IN CHILDREN?

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Schistosomiasis and Other Trematodes –Diagnostics and Treatment

1308

SENSITIVITY AND SPECIFICITY OF POINT-OF-CARE CIRCULATING CATHODIC ANTIGEN TEST BEFORE AND AFTER PRAZIQUANTEL TREATMENT IN DIAGNOSING SCHISTOSOMA MANSONI INFECTION IN ADULT POPULATION CO-INFECTED WITH HUMAN IMMUNODEFICIENCY VIRUS-1, NORTHWESTERN TANZANIA

Humphrey D. Mazigo¹, Stella Kepha², Safari Kinung'hi³
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REPEATED DOSES OF PRAZIQUANTEL IN SCHISTOSOMIASIS TREATMENT (REPST) - SINGLE VERSUS MULTIPLE PRAZIQUANTEL TREATMENTS IN SCHOOL-AGE CHILDREN IN CÔTE D'IVOIRE: A STUDY PROTOCOL FOR AN OPEN-LABEL, RANDOMIZED CONTROLLED TRIAL

Pytsje T. Hoekstra¹, Miriam Casacuberta Partal¹, Abena S. Amoah¹, Lisette van Lieshout¹, Paul L. Corstjens¹, Roula Tsonaka¹, Rufin K. Assaré², Kigbafori D. Silué², Aboulaye Meité³, Meta Roestenberg¹, Stefanie Knopp⁴, Jürg Utzinger⁴, Jean T. Coulibaly², Govert J. van Dam¹
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ULTRASONOGRAPHIC EVIDENCE OF HEPATIC DISEASE DUE TO SCHISTOSOMA MANSONI IN CHILDREN IN THE MAROLAMBO DISTRICT, MADAGASCAR

Hannah J. Russell¹, James J. Penney², Cortland Linder³, Elizabeth C. Joeke⁴, Alain M. Rahetilahy⁵, John R. Stothard⁴, Amaya L. Bustinduy⁶, S. Bertie Squire⁴, Stephen A. Spencer⁷
¹Royal Berkshire NHS Healthcare Trust, Reading, United Kingdom, ²NHS Greater Glasgow and Clyde, Glasgow, United Kingdom, ³King's College Hospital NHS Foundation Trust, London, United Kingdom, ⁴Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ⁵Ministère de la Santé Publique, Antananarivo, Madagascar, ⁶London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁷Royal United Bath NHS Foundation Trust, Bath, United Kingdom

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BILHARZIOSIS IN MIGRATION MEDICINE - AN UNDERESTIMATED PROBLEM?

Sven Kalbitz¹, Frederike Neumann¹, Thomas Kuntz¹, Hanna Axelson¹, Anika Theunert¹, Lena Seelig², Heike Bisanz³, Claudia Maßlau³, Daniela Geister³, Ingo Wallstabe², Volker Wiechmann³, Thomas Grünewald¹
¹Klinikum Sankt Georg Klinik für Infektiologie/Tropenmedizin, Nephrologie und Rheumatologie, Leipzig, Deutschland, Leipzig, Germany, ²Klinikum Sankt Georg Klinik für Gastroenterologie, Hepatologie, Diabetologie und Endokrinologie, Leipzig, Germany, Leipzig, Germany, ³Klinikum Sankt Georg Institut für Pathologie und Tumordiagnostik, Leipzig, Deutschland, Leipzig, Germany

Tuesday
October 30

1312

**OPTIMIZING STRATEGIES TO DIAGNOSE AND CONTROL
INTESTINAL SCHISTOSOMIASIS IN A LOW AND
MODERATE ENDEMICITY AREA OF BRAZIL**

Anna E. Phillips

Imperial College, London, United Kingdom

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**PERFORMANCE OF POC-CCA AND KATO-KATZ TO
DIAGNOSE SCHISTOSOMIASIS MANSONI IN LOW AND
MODERATE ENDEMICITY AREAS OF BRAZIL**

Agostinho Gonçalves Viana¹, Pedro Henrique Gazzinelli-Guimarães²,
Vanessa Normandio Castro¹, Lilian Lacerda Bueno¹, Stefan Michael Geiger¹,
Silvio Santana Dolabella³, Anna Phillips⁴, Ricardo Toshio Fujiwara¹

¹Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, ²National
Institutes of Health, Laboratory of Parasitic Diseases, National Institute
of Allergy and Infectious Diseases, Bethesda, MD, United States,

³Universidade Federal de Sergipe, Aracaju, Brazil, ⁴Imperial College London,
Department of Infectious Disease Epidemiology, London, United Kingdom

1314

**FIRST MAPPING OF HUMAN SCHISTOSOMIASIS IN
BENIN: EVIDENCE OF COUNTRYWIDE S. HAEMATOBIIUM
PREDOMINANCE**

Moudachirou Ibikounlé¹, Ablavi Onzo-Aboki¹, Jean Jacques Tougoue²,
Boris Savassi¹, Pelagie M. Boko³, Joel E. Siko¹, Aboudou Dare², Wilfrid
Batcho³, Achille Massougbodji¹, Dorothee A. Kinde-Gazard¹

¹University of Abomey-Calavi, Cotonou, Benin, ²RTI International,
Washington, DC, United States, ³National NTD Program, Cotonou, Benin

1315

**LOWER CURE RATE AND EGG REDUCTION RATES FOR S.
JAPONICUM USING PRAZIQUANTEL AT 40 MG/KG DOSE**

Stephanie S. Maldonado¹, Blanca Jarilla², Sangshin Park¹, Haiwei Wu¹,
Jonathan D. Kurtis¹, Jennifer F. Friedman¹, Mario Jlz²

¹Brown University, Providence, RI, United States, ²Research Institute of
Tropical Medicine, Manilla, Philippines

1316

**EVALUATION OF SENSITIVITY AND SPECIFICITY OF
CIRCULATING CATHODIC ANTIGEN IN THE CONTEXT OF
SCHISTOSOMA JAPONICUM AT USING LATENT CLASS
ANALYSIS**

Sangshin Park¹, Haiwei W. Wu¹, Stephanie Maldonado¹, Blanca Jarilla²,
Jonathan D. Kurtis¹, Jennifer F. Friedman¹, Mario Jiz²

¹Brown University, Providence, RI, United States, ²Department of Health,
Research Institute for Tropical Medicine, Manila, Philippines

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**COMPARISON OF THE EFFICACY OF TWO ANTIPARASITIC
TREATMENT FOR SHEEP INFECTION WITH FASCIOLA
HEPATICA**

Raul Enriquez¹, Percy Soto², Karina Bardales³, Cesar Sedano³, Luis
Gomez⁴, Saul Santivañez³, Armando Gonzalez⁴

¹Universidad Peruana Cayetano Heredia, Puente Piedra, Peru, ²Asociación
para el Desarrollo de la Investigación Estudiantil en Ciencias de la Salud
(ADIECS), Universidad Nacional Mayor de San Marcos, Lima, Peru,
³Universidad Peruana Cayetano Heredia, Lima, Peru, ⁴Universidad Nacional
Mayor de San Marcos, Lima, Peru

**Schistosomiasis and Other
Trematodes – Epidemiology
and Control**

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**DIFFERENTIAL IMPACT OF MASS AND TARGETED
DEWORMING CAMPAIGNS FOR SCHISTOSOMIASIS
CONTROL IN CHILDREN: A SYSTEMATIC REVIEW AND
META-ANALYSIS**

Danielle Cribb¹, Naomi E. Clarke¹, Suhail A. Doi², Susana Vaz Nery³

¹Australian National University, Canberra, Australia, ²Qatar University,
Sydney, Qatar, ³University of New South Wales, Sydney, Australia

1319

**DETECTING AND DISRUPTING ENVIRONMENTAL
CONTAMINATION OF SCHISTOSOMA MANSONI**

Teteh S. Champion¹, Stephanie Connelly¹, Cindy Connelly¹, Candia Rowel²,
Fred Besigye², Poppy H. Lamberton¹

¹University of Glasgow, Glasgow, United Kingdom, ²Vector Control Division,
Ministry of Health Uganda, Kampala, Uganda

1320

**UNRAVELLING INTERACTIONS BETWEEN SCHISTOSOMES,
THE MICROBIOME AND ANTI-HELMINTHIC DRUGS**

Lauren V. Carruthers¹, Candia Rowel², Diana Ajambo², Fred Besigye²,
Andrina Nankasi², Moses Arinaitwe², Aidah Wamboko², Aaron Atuhaire²,
Edridah M. Tukahebwa², Christina L. Faust¹, Poppy H. Lamberton¹

¹University of Glasgow, Glasgow, United Kingdom, ²Vector Control Division,
Uganda Ministry of Health, Kampala, Uganda

1321

**ECO-EPIDEMIOLOGICAL SURVEY OF URINARY
SCHISTOSOMIASIS IN TOGO'S OGOU DISTRICT**

Olivia C. Kern¹, Mathias K. Adjabli², Morou Ibarin³

¹Wellesley College, Wellesley, MA, United States, ²Central Veterinary
Laboratory, Lomé, Togo, ³Togolese Ministry of Health, Lomé, Togo

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**PERSISTENCE OF SCHISTOSOMIASIS AND SOIL-
TRANSMITTED HELMINTHS IN MALI DESPITE HIGH
COVERAGE RATES: EXCLUDING LOW COVERAGE RATES
AND COMMUNITY HEALTH WORKERS MOTIVATION AS
CAUSE**

Adama Y. Berthe¹, Yaya I. Coulibaly¹, Moussa B. Sangaré¹, Housseiny Dolo¹,
Ilo Dicko¹, Salif S. Doumbia¹, Michel E. Coulibaly¹, Lamine Soumaoro¹, Siaka
Y. Coulibaly¹, Atsou K. Midodji¹, Amy D. Klion², Ogobara Doumbo¹, Thomas
B. Nutman²

¹International Center for Excellence in Research-Mali (ICER-Mali), Bamako,
Mali, ²Laboratory of Parasitic Diseases, National Institute of Allergy and
Infectious Diseases, National Institutes of Health, Bethesda, MD, United
States

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**FACTORS ASSOCIATED WITH URINARY SCHISTOSOMIASIS
AMONG IRRIGATION FARMERS IN MARKE COMMUNITY,
JIGAWA STATE, NIGERIA**

Usaini Bala¹, Kabir Getso², Sulaiman Idris³, Muhammad Sambo³, Saheed
Gidado¹, Umar Ayuba³, Patrick Nguku¹, Nuruddeen Aliyu¹, Gabriella
Poggensee⁴

¹African Field Epidemiology Network, Abuja, Nigeria, ²Kano State Ministry
of Health, Kano, Nigeria, ³Ahmadu Bello University, Zaria, Nigeria, ⁴Nigeria
Field Epidemiology and Laboratory Training Program, Abuja, Nigeria

1324

GEOGRAPHIC SPREAD OF AN AVIAN EYEFLUKE WITH ZONOTIC POTENTIAL

Keyleigh Chalkowski

Auburn University, Auburn, AL, United States

1325

NUTRITION AND FASCIOLA HEPATICA INFECTION AMONG CHILDREN IN THE ANTA PROVINCE OF CUSCO, PERU

Camille Webb¹, Maria L. Morales², Martha Lopez², Miguel M. Cabada¹

¹University of Texas Medical Branch, Galveston, TX, United States,

²Universidad Peruana Cayetano Heredia-University of Texas Medical Branch Collaborative Research Center, Cusco, Peru

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ECOLOGY OF SCHISTOSOMA MANSONI TRANSMISSION: LEVERAGING SEASONAL VARIABILITY FOR CONTROL

Larissa Anderson, Helen Wearing

University of New Mexico, Albuquerque, NM, United States

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FIELD AND MODELING STUDIES OF THE INFLUENCES OF SNAIL AND TREMATODE BIODIVERSITY ON SCHISTOSOMA MANSONI TRANSMISSION IN AND AROUND LAKE VICTORIA

Martina R. Laidemitt¹, Larissa C. Anderson¹, Helen J. Wearing¹, Martin W. Mutuku², Gerald M. Mkoji², Eric S. Loker¹

¹University of New Mexico, Albuquerque, NM, United States, ²Centre for Biotechnology Research and Development, Kenya Medical Research Institute (KEMRI), Nairobi, Kenya

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AN ECO-EVOLUTIONARY PERSPECTIVE ON SCHISTOSOMIASIS

Julia C. Buck¹, Giulio A. De Leo², Benyamin Rosental², Susanne H. Sokolow²

¹University of California Santa Barbara, Santa Barbara, CA, United States, ²Stanford University, Palo Alto, CA, United States

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COMPUTER VISION AND MACHINE LEARNING ENABLE ENVIRONMENTAL DIAGNOSTICS FOR TARGETING SCHISTOSOMIASIS CONTROL

Susanne Sokolow¹, Zac Yung-Chun Liu¹, Andy Chamberlin¹, Chris Le Boa¹,

Chelsea L. Wood², Isabel J. Jones¹, Richard Grewelle¹, Giulio A. De Leo¹

¹Stanford University, Pacific Grove, CA, United States, ²University of Washington, Seattle, WA, United States

Water, Sanitation, Hygiene and Environmental Health

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TOXICS (PB, CD) AND TRACE ELEMENTS (ZN, CU, MN) IN WOMEN DURING PREGNANCY AND AT DELIVERY, SOUTH BENIN, 2014-2015

Marine Guy¹, Manfred Accrombessi², Nadine Fievet², Emmanuel Yovo², Achille Massougbodji³, Barbara Le Bot⁴, Philippe Glorennec⁴, Florence Bodeau-Livinec⁵, Valérie Briand⁶

¹IRD UMR216, Paris, France, ²IRD UMR216, Cotonou, Benin, ³IRCB, Cotonou, Benin, ⁴EHESP, Rennes, France, ⁵EHESP, Paris, France, ⁶INSERM U1219, Bordeaux, France

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LOCAL PERCEPTIONS OF SEASONALITY AND REPORTED WATER CONTACT BEHAVIOR IN THE SAHEL: IMPLICATIONS FOR SCHISTOSOMIASIS TRANSMISSION

Andrea J. Lund¹, Omar Sow¹, Susanne H. Sokolow², Andy Chamberlin², Isabel J. Jones², Nicolas Jouanard³, Gilles Riveau³, David Lopez-Carr⁴, Giulio A. De Leo²

¹Stanford University, Stanford, CA, United States, ²Stanford University, Hopkins Marine Station, Pacific Grove, CA, United States, ³Espoir Pour La Sante, St. Louis, Senegal, ⁴University of California, Santa Barbara, Santa Barbara, CA, United States

1332

CHEMICAL AND MICROBIOLOGICAL CONTAMINATION OF DRINKING WATER IN PERUVIAN HOUSEHOLDS WITH INFANTS

Miranda J. Delahoy¹, Mia Mattioli¹, Jackie Knee², Forest Altherr¹, Rebecca Hodge¹, María del Rosario Jaramillo Ramírez³, Alisson Zevallos-Concha⁴, Priya E. D'Souza¹, Parinya Panuwet¹, Carlos Culquichicón⁴, Lilia Cabrera⁵, Dana Boyd Barr¹, P. Barry Ryan¹, Andres G. Lescano⁴, Joe Brown², Robert H. Gilman⁶, Karen Levy¹

¹Emory University, Atlanta, GA, United States, ²Georgia Institute of Technology, Atlanta, GA, United States, ³EsSalud Piura, Piura, Peru, ⁴Universidad Peruana Cayetano Heredia, Lima, Peru, ⁵Asociación Benéfica PRISMA, Lima, Peru, ⁶Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

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EVALUATING THE EFFICACY OF POINT OF USE WATER FILTRATION UNITS IN VILLAGES THROUGHOUT FIJI

Nathan Tintle¹, Adam Heynen¹, Sarah Brokus², Randall Wade², Aaron Best²

¹Dordt College, Sioux Center, IA, United States, ²Hope College, Holland, MI, United States

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WHAT'S IN THE WATER? AN OBSERVATIONAL AND MICROBIOLOGICAL ANALYSIS OF RESTAURANTS IN IQUITOS, PERU

Jessica Magdeburger¹, Linh Tran¹, Ricardo Abadie², Rosa Burga², David Craft¹

¹Pennsylvania State Hershey College of Medicine, Hershey, PA, United States, ²Naval Medical Research Unit-6, Lima, Peru

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THE ROLE OF PREVALENCE OF WATERBORNE INFECTIONS ON THE REGRESSIVE EFFECTS OF INCOME DISPARITY IN ECUADOR

Cesar P. Montalvo, Anuj Mubayi, Carlos Castillo-Chavez

Arizona State University, Tempe, AZ, United States

1336

MICROBIOLOGICAL EVALUATION OF WATER QUALITY AND ANTIMICROBIAL RESISTANCE PROFILE IN RIVERS OF RURAL AND URBAN BAHIA, BRAZIL

Vanessa T. Moretto¹, Soraia M. Cordeiro², Luciano K. Silva¹, Rafael Ponce-Terashima³, Patricia S. Bartley³, Ronald E. Blanton³, Mitermayer G. Reis⁴, Lúcio M. Barbosa⁵

¹Oswaldo Cruz Foundation, Bahia, Salvador, Brazil, ²Federal University of Bahia, Salvador, Brazil, ³Case Western Reserve University, Cleveland, OH, United States, ⁴Oswaldo Cruz Foundation, Bahia, Canela, Salvador, Brazil, ⁵Bahiana School of Medicine and Public Health, Salvador, Brazil

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INSTITUTIONALIZING INFECTION PREVENTION AND CONTROL PRACTICES IN HEALTH FACILITIES IN LIBERIA FOLLOWING THE EBOLA EPIDEMIC

Allyson R. Nelson¹, Anne Fiedler¹, Topian Zikeh¹, Nancy Moses¹, Chandrakant Ruparelia², Lolade Oseni²

¹Jhpiego, Monrovia, Liberia, ²Jhpiego, Baltimore, MD, United States

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EPIDEMIOLOGICAL PROFILE OF PEOPLE WITH CHOLERA ACCORDING TO THE CHARACTERISTICS OF HEALTH ZONES: DRC

Sandra T. Musungayi¹, Gisele M. Mvumbi², Vitus L. Okitolonda³, Didier K. Bompangue⁴, Jean Jacques M. Muyembe-Tamfum⁵

¹National Institute of Research Biomedical, Kinshasa, Democratic Republic of the Congo, ²Kinshasa School of Public Health/FELTP, Kinshasa, Democratic Republic of the Congo, ³Kinshasa School of Public Health, Kinshasa, Democratic Republic of the Congo, ⁴Unité de recherche et de formation/ Ecologie des maladies infectieuses, aléa et gestion des risques; Faculty of Médecine, University of Kinshasa, Kinshasa, Democratic Republic of the Congo, ⁵Institut National de Recherche Biomedicale, Kinshasa, DRC; Faculté de Médecine, Université de Kinshasa, Kinshasa, Democratic Republic of the Congo

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DEADLY PIPES: A STUDY ON THE DIFFUSION OF CHOLERA THROUGH PIPED WATER SYSTEMS IN THE YOVI RIVER VALLEY, TANZANIA

Maria T. Giordani¹, Giovanni Donadelli², Lilian Kalungwana³, Tommaso Manciuili⁴, Enrico Brunetti⁵, Kezia Bertoldo², Beatrice Accordini², Sergio Beraldin⁶

¹Infectious and Tropical Disease Department, san Bortolo Hospital, Vicenza, Italy, ²Associazione Bertoni Cooperazione e Sviluppo, Verona, Italy, ³Msange Health Center, Msange, Kilosa District, Morogoro Region, United Republic of Tanzania, ⁴Department of Clinical, Surgical, Diagnostic and Pediatric Sciences, University of Pavia, Pavia, Italy, ⁵Unit of Infectious and Tropical Diseases, San Matteo Hospital Foundation, and Department of Clinical, Surgical, Diagnostic and Pediatric Sciences, University of Pavia, Pavia, Italy, ⁶Department of Environmental Engineering, Trento University, Trento, Italy

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EVALUATION OF THE EFFECTIVENESS OF BUCKET CHLORINATION IN CHOLERA OUTBREAKS

Gabrielle String, Daniele Lantagne

Tufts University, Medford, MA, United States

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VALIDATION OF MOLECULAR ASSAYS FOR THE DETECTION OF S. TYPHI AND S. PARATYPHI A IN ENVIRONMENTAL SAMPLES

Ashutosh Wadhwa¹, Shanta Dutta², Yuke Wang¹, Milagros Aldeco¹, Goutam Chowdhury², Renuka Kapoor¹, Asish Mukhopadhyay², Christine L. Moe¹

¹Emory University, Atlanta, GA, United States, ²National Institute of Cholera and Enteric Diseases, Kolkata, India

1342

WATER, SANITATION, AND HYGIENE MOBILE HEALTH (MHEALTH) MESSAGES AS AN INNOVATIVE TOOL TO FACILITATE BEHAVIOR CHANGE: RANDOMIZED CONTROLLED TRIAL OF THE CHOB17 MHEALTH INTERVENTION

Christine Marie George¹, Fatema Zohura², Shirajum Monira², Elizabeth Thomas¹, Tasdik Hasan², Tahmina Parvin², Maynul Hasan², Khaled Hasan¹, Mahamud-ur Rashid², Md. Sazzadul Bhuyian², Peter J. Winch¹, Jamie Perin¹, Alain Labrique¹, Kelsey Zeller¹, Farzana Begum², Fosiul Alam Nizame², David A. Sack¹, R. Bradley Sack¹, Munirul Alam²

¹Johns Hopkins University, Baltimore, MD, United States, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

Late-Breaker Abstract Session 78

Late-Breakers in Basic Sciences

Marriott - Mardi Gras D (3rd Floor)

Tuesday, October 30, 12:15 p.m. - 1:30 p.m.

This session is specifically designed for brief presentations of new data obtained after the closing date for abstract submission. See the Late-Breaker Abstract Schedule booklet in your registration packet for the presentation schedule.

CHAIR

Naomi Forrester

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

Nicholas A. Bergren

Colorado State University, Fort Collins, CO, United States

Mid-Day Session 79

Panel Discussion: A Journey to Become a Successful Scientist

Marriott - Mardi Gras EFGH (3rd Floor)

Tuesday, October 30, 12:15 p.m. - 1:30 p.m.

This session targets students, postdoctoral fellows and young investigators who have questions about their career paths. Come be inspired by the stories of panelists who have been through the same types of struggles in their careers. An interactive Q&A session will follow the panel discussion.

CHAIR

Nunya Chotiwan

Colorado State University, Fort Collins, CO, United States

Lark Coffey

University of California Davis, Davis, CA, United States

PANELIST (SENIOR P.I.)

Nikos Vasilakis

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

PANELIST (JUNIOR P.I.)

Albert Auguste

Virginia Tech, Blacksburg, VA, United States

PANELIST (POST-DOC)

Claudia Rückert

Colorado State University, Fort Collins, CO, United States

Meet the Professors 80

Meet the Professors B: Engimatic and Teaching Cases

Marriott - Balcony LMN (3rd Floor)

Tuesday, October 30, 12:15 p.m. - 1:30 p.m.

Students and trainees are especially encouraged to attend these interactive sessions, which are open to all meeting

attendees. The speakers will present a clinical case of a tropical disease specific to a particular region that they have found a challenge to manage or diagnose. The Professors will discuss how their career has developed as examples for students and trainees.

CHAIR

David Boulware
University of Minnesota, Minneapolis, MN, United States

PRESENTER

Ted Kuhn
Medical College of Georgia, Augusta, GA, United States

Poster Session B Viewing

Marriott - Grand Ballroom (3rd Floor)
Tuesday, October 30, 1:45 p.m. - 4 p.m.

Symposium 81

Vector-Borne Diseases in Agricultural Landscapes

Sheraton - Rodrigue Gallery (1st Floor)
Tuesday, October 30, 1:45 p.m. - 3:30 p.m.

This symposium focuses on the unintended effects of agriculture on human health, specifically the effect of anthropogenic changes on vector-borne diseases. Formal talks will cover some of the key issues: 1) Ricefields are major breeding sites for malaria vector mosquitoes in Africa, but studies have suggested that socio-economic improvements (improved housing, health services and access to mosquito nets), may compensate for the extra mosquitoes. More recently, however, Africa's malaria situation has changed radically: many areas no longer have "saturated" levels of transmission, and one can no longer assume that non-rice communities have poor housing and low levels of net use. Meanwhile, rice-growing is expanding rapidly in Africa. What are the implications for the prospects of malaria elimination? What is the appropriate response? 2) The misuse and overuse of agrochemicals by farmers has been identified as a factor that contributes to resistance selection in malaria vector populations. Owing to the rapid agricultural development in Africa, combined with its high demand for pesticides and fertilizers, resistance will be a growing concern that will make the control of malaria even more complex. Thus, the session will address this product of the interaction between agricultural and health interactions. 3) Many arboviruses such as dengue, Zika and West Nile viruses are sensitive to changes in the environment, including climate change, globalization and the transformation of agro-food systems, which are rapidly increasing. As they create more breeding sites for vectors, these diseases present an emerging threat. The session will investigate the appropriate ways to control and interrupt a worldwide spread. 4) A recent longitudinal study conducted in irrigated areas in Kenya showed that flood irrigation can promote the endemic transmission of Rift Valley Fever (RVF) virus. Large mosquito densities, including primary vector *Aedes mcintoshi*, were observed and serological screening of sentinel

animals demonstrated some RVF virus circulation. Similar observations on the effect of irrigation and dams on RVF occurrence have been made elsewhere. There is a need to enhance surveillance for RVF and other arboviruses in these agroecosystems to determine their role.

CHAIR

Jo Lines
London School of Hygiene & Tropical Medicine, London, United Kingdom

Johanna Lindahl
ILRI, Nairobi, Kenya

1:45 p.m.

FLOOD IRRIGATION PROMOTES ENDEMIC TRANSMISSION OF RIFT VALLEY FEVER VIRUS

Bernard Bett
ILRI, Nairobi, Kenya

2:05 p.m.

RICE AND MALARIA IN AFRICA

Jo Lines
London School of Hygiene & Tropical Medicine, London, United Kingdom

2:25 p.m.

URBANIZATION, GLOBALIZATION AND FLAVIVIRUSES

Johanna Lindahl
ILRI, Nairobi, Kenya

2:45 p.m.

AGRO-CHEMICALS AND RESISTANCE SELECTION IN MALARIA VECTORS

Rousseau Djouaka
IITA, Cotonou, Benin

Symposium 82

Overcoming Challenges in Screening and Diagnosis of Chagas Disease

Sheraton - Waterbury (2nd Floor)
Tuesday, October 30, 1:45 p.m. - 3:30 p.m.

Chagas disease (CD) is severely undiagnosed. In the Americas, <1% of the over 6 million expected cases have been identified, and most areas lack routine screening programs integrated with primary health care (Manne-Goehler et al. 2015, Cucunuba et al. 2017). Testing for CD is hampered by a wide range of barriers, starting with the lack of a gold standard. Identification of chronic CD depends on positive serology in two different tests. Multiple products based on different antigen principles are on the market; sensitivities are specificities highly variable and in many cases overestimated (Afonso et al. 2012). Furthermore, test reliability differs both among and between patient populations, which could be due to individual or population-level variability in immune response and/or the extensive genetic diversity of *Trypanosoma cruzi* (Martin et al. 2014, Messenger et al. 2015). Currently, there is no test to identify which patients will eventually develop chronic complications, and there is no reliable way for clinicians to gauge the success of antitrypanosomal treatment. At a health system level, there is a lack of laboratories and personnel capable of

diagnosing *T. cruzi*, while some countries, including the United States, lack clear testing guidelines. In the U.S., only four tests have some level of FDA approval for clinical use, while only 17% of positive results from blood donors are positive in confirmatory testing. Provider and patient awareness is low in the U.S. as well as in Latin America, and significant socioeconomic barriers discourage at-risk patients from testing. These include distance of providers from communities where patients live, lack of supplies or personnel at testing facilities, confusion about how and where to obtain confirmatory testing, lack of insurance coverage for CD testing and healthcare, and stigmatization of CD as a disease of the rural poor. In the U.S., systematic discrimination against immigrants creates additional barriers. Antitrypanosomal treatment has proven effective at eliminating the parasite and improving clinical outcomes, and the recent registration of benznidazole in the U.S. and Mexico provides an opportunity to scale up CD healthcare in the Americas. This symposium explores solutions to barriers in CD diagnosis from both a clinical and an operational perspective. The symposium will examine underlying factors in test variability and potential for development of improved diagnostics and tests of cure. Programs that have succeeded in increasing CD screening and diagnosis for vulnerable populations will also be profiled. Overcoming diagnostic barriers is a critical step for expanding treatment and preventing the high burden of morbidity and mortality caused by this neglected tropical disease.

CHAIR

Sergio Sosa Estani
Drugs for Neglected Diseases initiative – Latin America, Rio de Janeiro, Brazil

Colin J. Forsyth
Drugs for Neglected Diseases initiative-Noth America, New York, NY, United States

1:45 p.m.

SEROLOGICAL DIAGNOSTIC AND TRYPANOSOMA CRUZI DIVERSITY

Claudia Herrera
Tulane University, New Orleans, LA, United States

2:05 p.m.

LATEST DEVELOPMENTS IN BIOMARKERS RESEARCH

Eric Chatelain
Drugs for Neglected Diseases initiative, Geneva, Switzerland

2:25 p.m.

COMMUNITY-BASED SCREENING OF CHAGAS DISEASE IN THE USA: BOSTON'S STRONG HEARTS PROGRAM

Julia Koehler
Boston Children's Hospital, Boston, MA, United States

2:45 p.m.

IMPLEMENTATION OF A SIMPLIFIED DIAGNOSTIC ALGORITHM IN AN ENDEMIC AREA OF COLOMBIA

Colin J. Forsyth
Drugs for Neglected Diseases initiative-Noth America, New York, NY, United States

Symposium 83

“The Tropical Bookshelf” Authors’ Panel with Douglas Preston and Richard Preston

Sheraton - Rhythms (2nd Floor)

Tuesday, October 30, 1:45 p.m. - 3:30 p.m.

In this inaugural ASTMH literary panel, best-selling authors Douglas and Richard Preston will discuss their works and interests at the intersection of tropical infectious disease, natural history, and archaeological discovery. Douglas Preston's latest book, “The Lost City of the Monkey God” – a 2017 #1 *New York Times* bestseller-- interweaves heroic adventures in the Mosquitia Honduran rainforest with real-life encounters with venomous snakes and leishmaniasis. Following his 1994 break-out “The Hot Zone,” renowned author Richard Preston has written about infectious diseases, bioterrorism, and redwoods among other subjects and is currently working on a contemporary sequel about Ebola. The symposium will feature individual presentations by each author plus a moderated discussion and audience Q&A.

CHAIR

Claire Panosian
University of California Los Angeles School of Medicine, Los Angeles, CA, United States

Philip Rosenthal
University of California San Francisco, San Francisco, CA, United States

1:45 p.m.

INTRODUCTION AND WELCOME

Claire Panosian
University of California Los Angeles School of Medicine, Los Angeles, CA, United States

Philip Rosenthal
University of California San Francisco, San Francisco, CA, United States

1:55 p.m.

LEISHMANIA AND THE LOST CITY

Douglas Preston
Santa Fe, NM, United States

2:25 p.m.

EBOLA AND MONSTERS OF THE FUTURE

Richard Preston
Random House Author, Princeton, NJ, United States

2:55 p.m.

PANEL DISCUSSION

Scientific Session 84

West Nile and Other Viruses

Sheraton - Grand Ballroom A/B (5th Floor)

Tuesday, October 30, 1:45 p.m. - 3:30 p.m.

CHAIR

Dorine B. Ngonu
Cameroon Field Epidemiology Training Program, Yaounde, Cameroon

Shannon E. Ronca
Baylor College of Medicine, Houston, TX, United States

1:45 p.m.

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VESICLE FORMATION AND ADP-RIBOSYLATION FACTORS ASSOCIATED WITH TICK-BORNE FLAVIVIRUS INFECTION OF *IXODES SCAPULARIS* (BLACK-LEGGED TICK) SALIVARY GLAND CULTURES

Jeffrey M. Grabowski¹, Tyler G. Lewy², Elizabeth R. Fischer³, Danielle K. Offerdahl¹, David W. Dorward³, Marzia Zendali¹, Marthe VanSickle¹, Marshall E. Bloom¹

¹Biology of Vector-Borne Viruses Section/Laboratory of Virology/Rocky Mountain Laboratories/National Institute of Allergy and Infectious Diseases/ National Institutes of Health, Hamilton, MT, United States, ²Laboratory of Virology and Infectious Disease/The Rockefeller University, New York, NY, United States, ³Microscopy Unit/Research and Technologies Branch/Rocky Mountain Laboratories/National Institute of Allergy and Infectious Diseases/ National Institutes of Health, Hamilton, MT, United States

2 p.m.

1344

LOW VACCINATION COVERAGE AND *Aedes albopictus* AS POTENTIAL VECTOR OF TRANSMISSION OF YELLOW FEVER IN CAMEROON: RESULTS OF AN INVESTIGATION FOLLOWING POSITIVE CASES IN 3 HEALTH AREAS IN CAMEROON, 2017

Dorine B. Ngono¹, Basile Kamgang², Corlins Ndode³, Céline Tchida Mairousgou¹, Christian Moundjoa¹, Elysée Nchoutpouen⁴, Francky Ba Pouth Baonga³, Els Mathieu⁵, Alain Georges Etoundi⁶

¹Cameroon Field Epidemiology Training Program, Yaounde, Cameroon, ²Centre for Research in Infectious Diseases, Yaounde, Cameroon, ³Expanded Program of Immunization, Ministry of Public Health Cameroon, Yaounde, Cameroon, ⁴Organisation de Coordination pour la lutte contre les Endémies en Afrique Centrale, Yaounde, Cameroon, ⁵Workforce and Institution Development Branch, Division of Global Health Protection Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁶Department for Disease Control, Epidemics and Pandemics, Ministry of Public Health Cameroon, Yaounde, Cameroon

2:15 p.m.

1345

CYTOKINE PROFILE OF WEST NILE VIRUS CASES DEVELOPING CHRONIC KIDNEY DISEASE

Michael Hansen¹, Shannon E. Ronca¹, Melissa S. Nolan¹, Rodion Gorchakov¹, Rodrigo Hasbun², Kristy O. Murray¹

¹Baylor College of Medicine, Houston, TX, United States, ²University of Texas Health Science Center at Houston, Houston, TX, United States

2:30 p.m.

1346

THE ROLE OF SUBSTANCE P AND NEUROKININ-1 IN TREATING WEST NILE VIRUS DISEASE

Shannon E. Ronca¹, Alan Nimmo², Rebecca Berry¹, Rodion Gorchakov¹, Sarah M. Gunter¹, Kristy O. Murray¹

¹Baylor College of Medicine, Houston, TX, United States, ²James Cook University, Cairns, Qld, Australia

2:45 p.m.

1347

TISSUE EXPANSION INDUCED BASAL LAMINA MICRO-PERFORATIONS FACILITATE ARBOVIRUS SPREAD IN *Aedes spp.* MOSQUITOES

Philip Armstrong, John Shepard, Theodore Andreadis, **Doug Brackney**
The Connecticut Agricultural Experiment Station, New Haven, CT, United States

3 p.m.

1348

CHARACTERIZING THE IMMUNE RESPONSE TO RIFT VALLEY FEVER VIRUS IN MULTIPLE SPECIES AFTER NATURAL EXPOSURE OR VACCINATION WITH CHADOX1-RV

Daniel Wright¹, Iona Taylor¹, Sumi Biswas¹, Jennifer Marshall¹, Madeleine Clark¹, John Gitonga², Henry Karanja², Vish Nene³, Bernard Bett³, Bryan Charleston⁴, Veronica Carr⁵, Gema Lorenzo⁶, Alejandro Brun⁶, George Warimwe²

¹University of Oxford, Oxford, United Kingdom, ²KEMRI-Wellcome Trust Research Programme, Kilifi, Kenya, ³International Livestock Research Institute, Nairobi, Kenya, ⁴The Pirbright Institute, Pirbright, Kenya, ⁵The Pirbright Institute, Pirbright, United Kingdom, ⁶CISA-INIA, Madrid, Spain

3:15 p.m.

1349

GOT MILK? DEFINING THE LINK BETWEEN MILK AND RIFT VALLEY FEVER

Elyse N. Grossi-Soyster¹, Justin Lee¹, Samuel Muiruri², Charles H. King³, A. Desiree LaBeaud¹

¹Stanford University School of Medicine, Stanford, CA, United States, ²Ministry of Public Health and Sanitation, Division of Vector-Borne and Neglected Tropical Diseases, Nairobi, Kenya, ³Case Western Reserve University, Center for Global Health and Diseases, Cleveland, OH, United States

Symposium 85

Updates in Universal Influenza Vaccine Research

Sheraton - Grand Ballroom C (5th Floor)
Tuesday, October 30, 1:45 p.m. - 3:30 p.m.

The development of a universal influenza is the top priority of Dr. Anthony Fauci, head of the National Institute of Allergy and Infectious Diseases at the NIH. Without a universal vaccine, scientists will chase each year's strain, with varying degrees of efficacy. This year, the vaccine is only 36% effective. Further, the emergence of a strain of pandemic influenza is always a possibility. This panel will describe several promising candidate universal influenza vaccines and related research.

CHAIR

Melinda J. Hamer
Walter Reed Army Institute of Research, Silver Spring, MD, United States

1:45 p.m.

UTILIZING HUMAN CHALLENGE STUDIES TO ACCELERATE THE DEVELOPMENT OF INFLUENZA VACCINES

Anthony Gilbert
hVIVO, London, United Kingdom

2:10 p.m.

STRUCTURAL BIOLOGY GUIDING UNIVERSAL INFLUENZA VACCINE DESIGN

Gordon Joyce
Walter Reed Army Institute of Research, Silver Spring, MD, United States

2:35 p.m.

ASSESSMENT OF SAFETY AND IMMUNOGENICITY OF INTRANASAL ADMINISTRATION OF H3N2 M2SR INFLUENZA VACCINE TO HEALTHY ADULT SUBJECTS

Pamuk Bilseel
FluGen, Madison, WI, United States

Tuesday
October 30

3 p.m.

LAYERED PROTEIN NANOCLUSTER UNIVERSAL INFLUENZA VACCINE

Baozhong Wang

Georgia State University, Atlanta, GA, United States

Scientific Session 86

Bacteriology: *Salmonella*/Typhoid/Plague

Sheraton - Grand Ballroom D/E (5th Floor)

Tuesday, October 30, 1:45 p.m. - 3:30 p.m.

CHAIR

Daniel O. Mogeni

International Vaccine Institute, Seoul, Republic of Korea

Virginia Pitzer

Yale School of Public Health, New Haven, CT, United States

1:45 p.m.

1350

WHAT IS THE BEST IMMUNIZATION STRATEGY FOR PROTECTING AFRICAN CHILDREN AGAINST INVASIVE SALMONELLA DISEASE?

Ondari D. Mogeni¹, Hyonjin J. Jeon¹, Gi Deok Park¹, Justin Im¹, Ellis Owusu-Dabo², Yaw Adu-Sarkodie³, Amy G. Sow⁴, Abdramane S. Soura⁵, Nagla Gasmelseed⁶, Karen H. Keddy⁷, Morten Bjerregaard-Andersen⁸, Frank Konings¹, Abraham Aseffa⁹, John Crump¹⁰, Yun Chon¹, Robert F. Breiman¹¹, Se Eun Park¹, Vera Von Kalckreuth¹, Thomas F. Wierzbza¹², Raphaël Rakotozandrindrainy¹³, Gordon Dougan¹⁴, Myron L. Levine¹⁵, Joachim Hombach¹⁶, Jerome K. Kim¹, John D. Clemens¹⁷, Stephen Baker¹⁸, Florian Marks¹

¹International Vaccine Institute, Seoul, Republic of Korea, ²Department of Global and International Health, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, ³Department of Clinical Microbiology, School of Medical Sciences, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, ⁴Institute Pasteur de Dakar, Dakar, Senegal, ⁵Institut Supérieur des Sciences de la Population, University of Ouagadougou, Ouagadougou, Burkina Faso, ⁶Faculty of Medicine, University of Gezira, Wad Medani, Sudan, ⁷National Institute for Communicable Diseases, Sandringham, Johannesburg, South Africa, ⁸Bandim Health Project, Bissau, Guinea-Bissau, ⁹Armauer Hansen Research Institute, ALERT Campus, Addis Ababa, Ethiopia, ¹⁰Kilimanjaro Christian Medical Centre, Moshi, United Republic of Tanzania, ¹¹Global Health Institute, Emory University, Atlanta, GA, United States, ¹²PATH, Washington, DC, United States, ¹³University of Antananarivo, Antananarivo, Madagascar, ¹⁴The Department of Medicine, University of Cambridge, Cambridge, United Kingdom, ¹⁵Department of Medicine, University of Maryland School of Medicine, Baltimore, MD, United States, ¹⁶World Health Organization, Geneva, Switzerland, ¹⁷International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ¹⁸Oxford University Clinical Research Unit, Ho Chi Minh City, Vietnam

2 p.m.

1351

INCREASING ANTIBIOTIC RESISTANCE IN SALMONELLA ENTERICA AND SHIGELLA SPP. ISOLATES FROM CHILDREN UNDER-FIVE IN WESTERN KENYA, 1997-2010: INSIGHTS INTO SOURCES OF SELECTION PRESSURE FROM SURVEILLANCE IN A LOW-INCOME, RURAL SETTING

David Berendes¹, John Benjamin Ochieng², Jane Juma², Ciara O'Reilly³, Nancy Strockbine¹, Michele Parsons⁴, Kirsten Fagerli¹, Richard Omere², Eric Mintz¹

¹Division of Foodborne, Waterborne, and Environmental Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States, ²KEMRI-Center for Global Health Research, Kisumu, Kenya, ³Center for Global Health, Centers for Disease Control and Prevention, Addis Ababa, Ethiopia, ⁴Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States

2:15 p.m.

1352

SPATIAL AND GENOMIC DATA TO IDENTIFY TRANSMISSION ROUTES OF TYPHOID FEVER IN BLANTYRE, MALAWI

Jillian Gauld¹, Peter J. Diggle², Alex M. Wailan³, Franziska Olgemoeller⁴, Nicholas R. Thomson³, Nicholas A. Feasey⁵
¹Institute for Disease Modeling, Bellevue, WA, United States, ²Lancaster University, Lancaster, United Kingdom, ³Wellcome Sanger Institute, Hinxton, United Kingdom, ⁴Malawi-Liverpool-Wellcome Trust Clinical Research Programme, Blantyre, United Kingdom, ⁵Liverpool School of Tropical Medicine, Liverpool, United Kingdom

2:30 p.m.

1353

COST-EFFECTIVENESS OF TYPHOID CONJUGATE VACCINE STRATEGIES IN 54 GAVI-ELIGIBLE COUNTRIES

Joke Bilcke¹, Marina Antillón¹, Zoë Pieters¹, Elise Kuylen¹, A. David Paltiel², Kathleen Neuzil³, Andrew Pollard⁴, **Virginia Pitzer**²
¹University of Antwerp, Antwerp, Belgium, ²Yale School of Public Health, New Haven, CT, United States, ³University of Maryland School of Medicine, Baltimore, MD, United States, ⁴University of Oxford, Oxford, United Kingdom

2:45 p.m.

1354

ADVERSE EVENTS FOLLOWING IMMUNIZATION WITH TYPHOID CONJUGATE VACCINE: MASS IMMUNIZATION AGAINST CEFTRIAXONE RESISTANCE TYPHOID FEVER IN HYDERABAD, PAKISTAN

Mohammad T. Yousafzai¹, Sultan Karim¹, Naveed Masood², Jamshed Khanzada³, Farah N. Qamar¹

¹The Aga Khan University, Karachi, Karachi, Pakistan, ²Health Department Govt of Sindh, Hyderabad, Pakistan, ³DPCR, Hyderabad, Pakistan

3 p.m.

1355

ASSESSMENT OF IMMUNE AVIDITY TO DETERMINE THE COURSE OF DISEASE IN ACUTE AND CHRONIC STATE OF NATURAL SALMONELLA TYPHI INFECTION

Ayan Dey, Ju Yeong Park, Sunha Song, Ursula Panzner, Se Eun Park, Manki Song, Florian Marks
International Vaccine Institute, Seoul, Republic of Korea

3:15 p.m.

1356

UNPRECEDENTED PNEUMONIC PLAGUE EPIDEMIC IN MADAGASCAR, 2017: CAN WE MAKE PLAGUE HISTORY?

Minoarisoa Rajerison¹, Rindra Randremanana¹, Birgit Nikolay², Voahangy Andrianaivoarimanana¹, Institut Pasteur Task Force Team¹, Eric Bertherat³, Voahangy Rasofolo¹, Maherisoa Ratsitorahina⁴, André Spiegel¹, Simon Cauchemez², **Laurence A. Baril**¹
¹Institut Pasteur de Madagascar, Antananarivo, Madagascar, ²Institut Pasteur, Paris, France, ³World Health Organization, Geneva, Switzerland, ⁴Ministry of Public Health, Antananarivo, Madagascar

Scientific Session 87

Malaria: Innovation and Challenges in Malaria Research and Control

Marriott - La Galerie 1/2 (2nd Floor)

Tuesday, October 30, 1:45 p.m. - 3:30 p.m.

CHAIR

Haja Andriamiharisoa

Maternal and Child Survival Program/Jhpiego, Antananarivo, Madagascar

Kent Kester

Sanofi Pasteur, Swiftwater, PA, United States

1:45 p.m.

1357

A REVIEW OF CONTROLLED HUMAN MALARIA INFECTION TRIALS AT THE UNIVERSITY OF MARYLAND

DeAnna J. Friedman-Klabanoff, Matthew B. Laurens, Andrea A. Berry, Mark A. Travassos, Matthew Adams, Kathy A. Strauss, Biraj Shrestha, Myron M. Levine, Robert Edelman, Kirsten E. Lyke
University of Maryland School of Medicine, Baltimore, MD, United States

2 p.m.

1358

PRELIMINARY DATA FROM A BIOMARKER EVALUATION TRIAL AMONG NON-SEVERE FEBRILE PATIENTS IN A MALARIA ENDEMIC SETTING IN MALAWI

Camille Escadafal¹, Steffen Geis², Jullita Malava³, Louis Banda³, Hazzie Mvula³, Jacqueline Saul², Aurélien Mace¹, Victoria Harris¹, Sabine Dittrich¹
¹FIND, Geneva, Switzerland, ²London School of Hygiene & Tropical Medicine, London, United Kingdom, ³Malawi Epidemiology and Intervention Research Unit, Chilumba, Malawi

2:15 p.m.

1359

ECONOMIC COSTS OF P. VIVAX EPISODES: A MULTI-COUNTRY COMPARATIVE ANALYSIS USING PRIMARY TRIAL DATA

Angela Devine¹, Ayodhia P. Pasaribu², Tedla Teferi³, Huong-Thu Pham⁴, Febrina Contantia⁵, Thuy-Nhien Nguyen⁴, Viet Thanh Ngo⁴, Hien Tran⁴, Asrat Hailu⁶, Ric N. Price⁷, Yoel Lubell¹
¹Mahidol-Oxford Tropical Medicine Research Unit, Bangkok, Thailand, ²Department of Pediatrics, Medical Faculty, Universitas Sumatera Utara, Medan, Indonesia, ³The Carter Center, Addis Ababa, Ethiopia, ⁴Oxford University Clinical Research Unit, Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam, ⁵Tanjung Leidong Health Center, Labuhanbatu Utara, Tanjung Leidong, Indonesia, ⁶Addis Ababa University, Addis Ababa, Ethiopia, ⁷Menzies School of Health Research, Darwin, Australia

2:30 p.m.

1360

USE OF MOBILE TECHNOLOGY-BASED PARTICIPATORY MAPPING APPROACHES TO GEOLOCATE HEALTH FACILITY ATTENDEES FOR DISEASE SURVEILLANCE IN LOW RESOURCE SETTINGS

Henry Surendra¹, Kimberly Fornace¹, Tommy Abidin², Ralph Reyes³, Maria Macalinao³, Gillian Stresman¹, Jennifer Luchavez³, Riris Ahmad⁴, Supargiyono Supargiyono⁴, Fe Espino³, Chris Drakeley¹, Jackie Cook¹
¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²Faculty of Medicine and Health Sciences, Universiti Malaysia Sabah, Kota Kinabalu, Sabah, Malaysia, ³Department of Parasitology, Research Institute for Tropical Medicine, Manila, Philippines, ⁴Centre for Tropical Medicine, Faculty of Medicine, Universitas Gadjah Mada, Yogyakarta, Indonesia

2:45 p.m.

1361

MALARIA AND RICE IN AFRICA: STILL A PADDIES PARADOX?

Kallista HC Chan, Jeff Waage, Jo Lines

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

3 p.m.

1362

IMPROVING PROCUREMENT AND REDEPLOYMENT OF DISTRICT LEVEL MALARIA COMMODITIES USING SMS AND WEB MAPPING IN MADAGASCAR

Haja Andriamiharisoa¹, Eliane Razafimandimby¹, Jean Pierre Rakotovoao¹, Jean Eugene Injerona¹, Zo Harifetra¹, Lalanirina H. Ravony¹, Rado Randriamboavonjy², Jocelyn Razafindrakoto³, Laurent Kapesa³
¹Maternal and Child Survival Program/Jhpiego, Antananarivo, Madagascar, ²Madagascar Ministry of Health, Antananarivo, Madagascar, ³US President's Malaria Initiative, United States Agency for International Development, Antananarivo, Madagascar

3:15 p.m.

1363

INTEGRATED DRUG EFFICACY SURVEILLANCE (IDES): THE FEASIBILITY OF USING ROUTINE CASE MANAGEMENT AND FOLLOW-UP ACTIVITIES TO MONITOR DRUG EFFICACY AND RESISTANCE IN THAILAND

Aungkana Saejeng¹, Nardlada Khantikul¹, Prayuth Sudathip², Suravadee Kitchakarn², Preecha Prempre², David Sintasath³, Darin Kongkasuriyachai⁴, Surasak Sawang⁴, Richard Reithinger⁵, Deyer Gopinath⁶
¹Office of Disease Prevention and Control Region 1, Department of Disease Control, Ministry of Public Health, Chiangmai, Thailand, ²Bureau of Vector Borne Disease, Department of Disease Control, Ministry of Public Health, Nonthaburi, Thailand, ³U.S. President's Malaria Initiative, Regional Development Mission for Asia, United States Agency for International Development, Bangkok, Thailand, ⁴Inform Asia: United States Agency for International Development Health Research Program, RTI International, Bangkok, Thailand, ⁵International Development Group, Global Health Division, RTI International, Research Park Triangle, NC, United States, ⁶World Health Organization, Thailand Country Office, Nonthaburi, Thailand

Scientific Session 88

Water, Sanitation, Hygiene and Environmental Health II

Marriott - La Galerie 3 (2nd Floor)

Tuesday, October 30, 1:45 p.m. - 3:30 p.m.

CHAIR

Abu Mohd Naser

Emory University, Rollins School of Public Health, Atlanta, GA, United States

Amy Pickering

Tufts University, Medford, MA, United States

1:45 p.m.

1364

RISK OF EXPOSURE TO FECAL CONTAMINATION FOR ADULTS AND CHILDREN IN SLUM, NON-SLUM, AND HIGH-INCOME NEIGHBORHOODS ACROSS DHAKA, BANGLADESH USING THE SANIPATH EXPOSURE ASSESSMENT TOOL

Christine L. Moe¹, Jamie Green¹, Suraja Raji¹, Yuke Wang¹, Nuhu Amin², Shahjahan Ali², Mahbubur Rahman², Imrul Hasan², Zahidul Hassan², Sabrina Haque³, George Joseph³
¹Emory University, Atlanta, GA, United States, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ³World Bank Group, Washington, DC, United States

2 p.m.

1365

SAND BARRIERS AROUND PIT LATRINES REDUCE FECAL BACTERIAL LEACHING INTO SHALLOW AQUIFER: A RANDOMIZED CONTROLLED TRIAL IN COASTAL BANGLADESH

Abu Mohd Naser¹, Solaiman Doza², Mahbubur Rahman², Kazi Matin Uddin Ahmed³, Mohammed Shahid Gazi², Gazi Raisul Alam², Mohammed Rabiul Karim², Mohammed Nasir Uddin², Mohammed Ilias Mahmud⁴, Ayse Ercumen⁵, Julia Rosenbaum⁶, Jonathan Annis⁷, Stephen P. Luby⁸, Leanne Unicomb², Thomas F. Clasen¹

¹Department of Environmental Health Sciences, Rollins School of Public Health, Emory University, Atlanta, GA, United States, ²International Centre for Diarrhoeal Disease Research, Bangladesh (icddr), Dhaka, Bangladesh, ³Department of Geology, University of Dhaka, Dhaka, Bangladesh, ⁴Department of Geology and Mining, University of Barisal, Barisal, Bangladesh, ⁵Department of Epidemiology, University of California Berkeley School of Public Health, Berkeley, CA, United States, ⁶FHI360, Washington, DC, United States, ⁷Tetra Tech, Arlington, VA, United States, ⁸Woods Institute for the Environment, Stanford University, Stanford, CA, United States

2:15 p.m.

1366

THE EFFECT OF SOCIAL COHESION ON DIARRHEAL DISEASE OVER TIME IN RURAL ECUADOR

Sonia T. Hegde¹, Bhramar Mukherjee¹, James Trostle², Joseph Eisenberg¹

¹University of Michigan, Ann Arbor, MI, United States, ²Trinity College, Hartford, CT, United States

2:30 p.m.

1367

TEMPERATURE AND ALL-CAUSE DIARRHEA IN NORTHERN ECUADOR: CHANGING SEASONALITY AFTER ROTAVIRUS VACCINE INTRODUCTION

Alicia N. Kraay¹, Edward L. Ionides¹, Karen Levy², Morgan C. Levy³, Joseph N. Eisenberg¹

¹University of Michigan-Ann Arbor, Ann Arbor, MI, United States, ²Emory University, Atlanta, GA, United States, ³University of California-Berkeley, Berkeley, CA, United States

2:45 p.m.

1368

EFFECT OF DRINKING WATER CHLORINATION AT THE POINT-OF-COLLECTION ON CHILD DIARRHEA IN DHAKA, BANGLADESH: A DOUBLE-BLIND CLUSTER-RANDOMIZED CONTROLLED TRIAL

Amy J. Pickering¹, Sonia Sultana², Yoshika Crider³, Syed Anjerul Islam², Frederick Goddard⁴, Jenna Swarthout¹, Shreyan Sen⁵, Raga Ayyagari⁵, Stephen Luby⁵

¹Tufts University, Medford, MA, United States, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ³University of California Berkeley, Berkeley, CA, United States, ⁴Emory University, Atlanta, GA, United States, ⁵Stanford University, Stanford, CA, United States

3 p.m.

1369

PERCEPTIONS, EXPERIENCES AND ACCEPTABILITY OF A WATER INTERVENTION USING RIVERBANK FILTRATION TECHNOLOGY IN RURAL INDIA

Sarah L. McGuinness¹, Joanne O'Toole¹, Asha Giriyan², Chetan A. Gaonkar², Veerabaswant Reddy², Kavita Patil², Fraddy D'Souza², Ramkrishna Vhaval², Darshini R. Ayton¹, Karin Leder¹

¹Monash University, Melbourne, Australia, ²The Energy and Resources Institute (TERI), Western Regional Centre, Goa, India

3:15 p.m.

1370

ADAPTIVE SITES ALLOCATION FOR TYPHOID ENVIRONMENTAL SURVEILLANCE IN TWO INDIAN CITIES

Yuke Wang, Ashutosh Wadhwa, Wolfgang Mairinger, Christine Moe
Emory University, Atlanta, GA, United States

Symposium 89

American Committee of Medical Entomology (ACME) Symposium I: Annual Business Meeting, Awards and Hoogstraal Medal Presentations and Networking Reception

Marriott - La Galerie 4/5/6 (2nd Floor)

Tuesday, October 30, 1:45 p.m. - 3:30 p.m.

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 and by the Hoogstraal medal recipient. The objective of both ACME symposia is to highlight the next generation of medical entomologists. Related to this theme, the session will include the 2018 SC Johnson (SCJ) Innovation Award. The session will also feature a plenary address on renewed efforts to address vector-borne disease threats in the U.S. and conclude with an informal reception to foster conversations between trainees and professionals in academia, industry, government and military.

CHAIR

Philip M. Armstrong

The Connecticut Agricultural Experiment Station, New Haven, CT, United States

Matthew Thomas

Pennsylvania State University, University Park, PA, United States

1:45 p.m.

ACME ANNUAL BUSINESS MEETING AND AWARDS

Philip Armstrong

The Connecticut Agricultural Experiment Station, New Haven, CT, United States

2 p.m.

HARRY HOOGSTRAAL MEDAL PRESENTATION

2:30 p.m.

SC JOHNSON (SCJ) INNOVATION AWARD

2:45 p.m.

VECTOR-BORNE DISEASES IN THE U.S.: CAN WE CREATE A NEW APPROACH?

Christopher Gregory

Centers for Disease Control and Prevention, Fort Collins, CO, United States

3:15 p.m.

NETWORKING AND SOCIAL TIME

Symposium 90

Malaria Transmission Biology and Its Role in the Emergence and Spread of ACT Resistance

Marriott - Mardi Gras D (3rd Floor)

Tuesday, October 30, 1:45 p.m. - 3:30 p.m.

In 2017, nearly half a million people died from infection by the protozoan malaria parasite *Plasmodium falciparum*. Although markedly reduced to those from a decade earlier, the impact of current control efforts is under direct threat from the emergence of resistance, both mosquito vector resistance to pyrethroid-treated bed nets and, of key relevance here, parasite resistance to frontline antimalarials – namely artemisinin-based combination therapies (ACTs). Resistance to artemisinin was first documented in 2008-2009 in Western Cambodia, emerging within the Greater Mekong Subregion (GMS) of Southeast Asia. In these areas, while experiencing progressive reduction in malaria transmission over the years, patients started to present with delayed clearance of parasites under drug treatment. As this clinical phenomenon continues to spread, delayed clearance and treatment failure will dramatically impact on malaria control numbers. Indeed, it is widely recognized that arrival of ACT resistance into Africa would have catastrophic implications for malaria-related mortality rates. While a marker for resistance to artemisinin, polymorphisms in the PfKelch-13 gene, is now well established, this locus is not able to explain the entire spectrum of treatment responses in clinic. Better understanding of other mutations that modulate the resistance phenotype are needed. Regardless of the mechanism by which resistance is attained, the rate of its spread will depend on how it affects the process of parasite transmission. Parasite transmission involves the sexual phases of the parasite life-cycle, formation of gametocytes, subsequent gamete formation and the process of mosquito infection for onward re-infection. Linking the concepts of resistance and transmission is therefore a key need in order to stop resistance spread through populations, in particular at the boundaries between areas of different transmission intensity and therefore host immunity. This symposium will address the interface between these concepts from diverse perspectives, exploring whether artemisinin or partner drug resistance has collateral/indirect effects on transmissibility of infections, if drugs or other selective pressures may directly select for changes in transmission phenotype, and to what extent transmission dynamics influence the emergence of transmissible resistance.

CHAIR

Jake Baum

Imperial College London, London, United Kingdom

Daniel E. Neafsey

Harvard T.H. Chan School of Public Health, Boston, MA, United States

1:45 p.m.

DISSECTING DRUG RESISTANCE IN *PLASMODIUM FALCIPARUM* AND THE EVOLUTION OF PARASITES TO THEIR TRANSMISSION ENVIRONMENT

Sachel Mok

Columbia University, New York, NY, United States

2:05 p.m.

THE TRANSMISSION OF ARTEMISININ-RESISTANCE PARASITES

Michael Delves

Imperial College London, London, United Kingdom

2:25 p.m.

MODELLING MALARIA AND EMERGING ARTEMISININ RESISTANCE IN THE GREATER MEKONG SUBREGION

Lisa White

Mahidol Oxford Tropical Medicine Research Unit (MORU), Bangkok, Thailand

2:45 p.m.

GENOMIC PROFILE OF TRANSMISSIBLE KELCH13-MEDIATED RESISTANCE IN SOUTH AMERICA

Angela Early

Broad Institute, Boston, MA, United States

Scientific Session 91

Malaria: Immunology

Marriott - Mardi Gras EFGH (3rd Floor)

Tuesday, October 30, 1:45 p.m. - 3:30 p.m.

CHAIR

Arlene E. Dent

Case Western Reserve University, Cleveland, OH, United States

Juan Rivera-Correa

New York University School of Medicine, New York, NY, United States

1:45 p.m.

1371

INVESTIGATING IMMUNE SIGNATURES IN MALARIA-EXPOSED CHILDREN

Yaw Bediako¹, Rhys Adams¹, Adam Reid², John J. Valletta³, Francis M. Ndungu⁴, Jedidah Mwacharo⁴, Joyce M. Ngoi⁴, Domtila Kimani⁴, Oscar Kai⁴, Juliana Wambua⁴, George Nyangweso⁴, Etienne P. de Villiers⁴, Mandy Sanders², Magda E. Lotkowska², Jan Sodenkamp¹, Jing-Wen Lin¹, Sarah Manni¹, Mario Recker³, Chris Newbold⁵, Matthew Berriman², Philip Bejon⁴, Kevin Marsh⁶, Jean Langhorne¹

¹The Francis Crick Institute, London, United Kingdom, ²Wellcome Trust Sanger Institute, Hinxton, United Kingdom, ³University of Exeter, Exeter, United Kingdom, ⁴KEMRI-Wellcome Trust Research Program, Kilifi, Kenya, ⁵Weatherall Institute of molecular medicine, University of Oxford, Oxford, United Kingdom, ⁶Nuffield Department of Medicine, University of Oxford, Oxford, United Kingdom

(ACMCIP Abstract)

2 p.m.

1372

B CELL MEDIATED AUTOIMMUNE ANEMIA IN MALARIA PATIENTS

Juan Rivera-Correa¹, Maria Mackroth², Thomas Jacobs², Julian Schulze zur Wiesch³, Thierry Rolling², Ana Rodriguez¹

¹New York University School of Medicine, New York, NY, United States,

²Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany,

³University Medical Center Hamburg-Eppendorf, Hamburg, Germany

2:15 p.m.

1373

EX VIVO ANALYSIS OF PLASMODIUM FALCIPARUM-SPECIFIC B CELL RESPONSES TO NATURAL MALARIA INFECTION IN CHILDREN AND ADULTS

Christine S. Hopp¹, Sarah Andrews², Michael Chambers², David J. Leggat², Silvia Portugal³, Ogobara K. Doumbo⁴, Boubacar Traore⁴, Adrian B. McDermott², Susan K. Pierce¹, Peter D. Crompton¹

¹Laboratory of Immunogenetics, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States, ²Immunology Core Section, VRC/National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ³Centre for Infectious Diseases, Parasitology, Heidelberg University Hospital, Heidelberg, Germany, ⁴Malaria Research and Training Centre, Department of Epidemiology of Parasitic Diseases, International Center of Excellence in Research, University of Sciences, Technique and Technology of Bamako, Bamako, Mali

(ACMCIP Abstract)

2:30 p.m.

1374

PREDOMINANT LOSS OF LOW AVIDITY IGG ANTIMALARIAL ANTIBODIES ASSOCIATED WITH REDUCTION IN INFECTION AFTER INDOOR RESIDUAL SPRAYING IN NAGONGERA, UGANDA

Isaac Ssewanyana¹, John Rek¹, Isabel Rodriguez², Lindsey Wu³, Emmanuel Arinaitwe¹, Joaniter Nankabirwa¹, Harriet Mayanja-Kizza¹, Philip J. Rosenthal², Grant Dorsey², Moses Kanya¹, Chris Drakeley³, Bryan Greenhouse², Kevin Tetteh³

¹Infectious Diseases Research Collaboration (IDRC), Kampala, Uganda, ²University of California San Francisco (UCSF), San Francisco, CA, United States, ³London School of Hygiene & Tropical Medicine (LSHTM), London, United Kingdom

(ACMCIP Abstract)

2:45 p.m.

1375

FUNCTIONAL ANTIBODIES AGAINST P. FALCIPARUM SPOOROZOITES ARE ASSOCIATED WITH A LONGER TIME TO NATURALLY ACQUIRED PCR-DETECTED INFECTIONS AMONG SCHOOLCHILDREN IN BURKINA FASO

Aissata Barry¹, Marije Behet², Bronner Goncalves³, Koen Dechering², Moussa W. Guelbeogo¹, Alphonse Ouedraogo¹, Issiaka Soulama¹, Issa Nébié Ouedraogo¹, Amidou Diarra¹, Emilie Badoum¹, Mireille Ouedraogo¹, Désiré Kargougou¹, Zongo Zoumanaba¹, Judith Bolscher⁴, Chris Drakeley³, Alfred B. Tiono¹, Teun Bousema²

¹Centre National de Recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso, ²Radboud Institute for Health Sciences, Radboud University Medical Center, Nijmegen, Netherlands, ³Department of Immunology and Infection, London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁴TropiQ health sciences, Nijmegen, Netherlands

(ACMCIP Abstract)

3 p.m.

1376

IGG3 SUBCLASS ANTIBODIES MEDIATETHE MOST EFFECTIVE FUNCTIONAL RESPONSES AGAINST P. FALCIPARUM MEROZOITE INVASION LIGANDS

Vashti Irani¹, Peck Szee Tan², Andrew J. Guy¹, Dean W. Andrew¹, Damien Drew¹, Gaoqian Feng¹, Linda Reilling¹, Kathirvel Alagesan³, Daniel Kolarich³, Mirielle H. Lahoud², James G. Beeson¹, Paul A. Ramsland⁴, Jack S. Richards¹

¹Burnet Institute, Melbourne, Australia, ²Monash University, Melbourne, Australia, ³Griffith University, Southport, Australia, ⁴RMIT, Melbourne, Australia

(ACMCIP Abstract)

3:15 p.m.

1377

IL-15 COMPLEX TREATMENT PROTECTS MICE FROM CEREBRAL MALARIA BY INDUCING IL-10-PRODUCING NK CELLS

Kristina S. Burrack¹, Matthew A. Huggins¹, Emily Taras¹, Philip Dougherty¹, Hing Wong², Martin Felices¹, Frank Cichocki¹, Jeffrey S. Miller¹, Geoffrey T. Hart¹, Aaron J. Johnson³, Stephen C. Jameson¹, Sara E. Hamilton¹

¹University of Minnesota, Minneapolis, MN, United States, ²Altor Biosciences, Miramar, FL, United States, ³Mayo Clinic, Rochester, MN, United States

(ACMCIP Abstract)

Symposium 92

Progress on the Development of *Leishmania* Vaccines

Marriott - Balcony IJK (3rd Floor)

Tuesday, October 30, 1:45 p.m. - 3:30 p.m.

Leishmaniasis is a neglected tropical disease caused by the *Leishmania* parasite following transmission by an infected sand fly and causes different clinical presentations ranging from physical disfigurement to fatal systemic visceral infection. Over 12 million people currently suffer from leishmaniasis, and approximately two million new cases occur annually, predominantly in areas where surveillance and health infrastructure are weak, making it an important global health problem. There is no vaccine and management of this disease is currently based mostly on sand fly control and chemotherapeutic treatments. It is well documented that a majority of the patients with leishmaniasis [both cutaneous leishmaniasis (CL) and visceral leishmaniasis (VL)] develop a long-term protective immunity after curing infection, which indicates that development of an effective vaccine against leishmaniasis should be possible. A number of promising vaccines such as whole organisms (both live and dead) or antigens both from sand fly saliva and parasite have been identified that are protective with or without appropriate adjuvants in different animal models and in some cases against pan *Leishmania* species. With over 350 million people worldwide at risk of developing leishmaniasis, the development of a pan *Leishmania* vaccine will have a major and far-reaching positive impact on global health. The objective of this symposium is to present the progress made in some of the above mentioned areas since last five years and to discuss what will be the next steps to realize a pan *leishmania* vaccine. The speakers will focus on the pros and cons of some of the *Leishmania* vaccine candidates that are in the pipe line and discuss the importance of the sandfly vector challenge (a mode of natural infection) and how *Leishmania* candidates respond to such challenge. In addition, the speakers will discuss the progress made in making parasite under GMP conditions and the product readiness for clinical trials.

CHAIR

Hira Nakhasi

CBER/Food and Drug Administration, Sliver Spring, MD, United States

Greg Matlashewski

McGill University, Montreal, Canada

1:45 p.m.
A LIVE ATTENUATED VACCINE FOR CUTANEOUS AND VISCERAL LEISHMANIASIS

Abhay Satoskar
Ohio State University, Columbus, OH, United States

2:05 p.m.
DEVELOPMENT AND CLINICAL EXPERIENCE WITH VL AND CL VACCINE CANDIDATES

Steve Reed
Infectious Disease Research Institute, Seattle, WA, United States

2:25 p.m.
TOWARDS BETTER VACCINES: UNDERSTANDING THE PATHOGENESIS OF SAND FLY-TRANSMITTED LEISHMANIASIS

Shaden Kamhawi
National Institutes of Health/National Institute of Allergy and Infectious Diseases, Rockville, MD, United States

2:45 p.m.
THE ART OF MAKING PARASITE VACCINES IN BIOREACTOR

Sanjay Singh
Gennova Biopharmaceuticals Ltd, Pune, India

Scientific Session 93

Schistosomiasis and Other Trematodes: Diagnosis and Treatment

Marriott - Balcony LMN (3rd Floor)
Tuesday, October 30, 1:45 p.m. - 3:30 p.m.

CHAIR

Poppy Lamberton
University of Glasgow, Glasgow, United Kingdom

Philip T. LoVerde
University of Texas Health Science Center, San Antonio, TX, United States

1:45 p.m. **1378**

EVALUATION OF THE PHARMACOKINETIC-PHARMACODYNAMIC RELATIONSHIP OF PRAZIQUANTEL IN THE SCHISTOSOMA MANSONI MOUSE MODEL

Nada Abla¹, Jennifer Keiser², Natalie Reimers³, Mireille Vargas², Helmut Haas³, **Thomas Spangenberg**⁴
¹MMV, Geneva, Switzerland, ²Swiss Tropical and Public Health Institute / University of Basel, Basel, Switzerland, ³Helminguard, Borstel, Germany, ⁴Merck (EMD) Serono, Coinsins, Switzerland

2 p.m. **1379**

SAFETY AND EFFICACY OF NEW ORAL DISPERSIBLE TABLET (ODT) FORMULATIONS OF RACEMATE- AND L-PRAZIQUANTEL IN 2 TO 6 YEARS OLD CHILDREN INFECTED WITH SCHISTOSOMIASIS

Elly Kourany-Lefoll¹, Eliézer K. N'Goran², NAD. Aka², Mamadou Ouattara², Aliona Tappert³, Oezkan Yalkinoglu³, Brooke Hayward⁴, Eric Huber⁵, Deon Bezuidenhout⁶, Wilhelmina Bagchus⁷
¹Ares Trading S.A., Switzerland, an affiliate of Merck KGaA, Darmstadt, Germany, ²Université Félix Houphouët-Boigny, Abidjan, Côte D'Ivoire, ³Merck KGaA, Darmstadt, Germany, ⁴EMD Serono, Inc., Rockland, MA, United States, ⁵Swiss Tropical and Public Health Institute / University of Basel, Basel, Switzerland, ⁶Merck (Pty) Ltd, South Africa, an affiliate of Merck KGaA, Darmstadt, Germany, ⁷Merck Institute of Pharmacometrics, Lausanne, Switzerland, an affiliate of Merck KGaA, Darmstadt, Germany

2:15 p.m. **1380**

DEVELOPMENT OF NOVEL DRUGS AGAINST SCHISTOSOMIASIS

Meghan Guzman¹, Reid Tarpley², Alexander B. Taylor¹, Frédéric Chevalier³, Stanton F. McHardy², Timothy J. Anderson³, **Philip T. LoVerde**¹
¹University of Texas Health Science Center, San Antonio, TX, United States, ²University of Texas at San Antonio, San Antonio, TX, United States, ³Texas Biomedical Research Institute, San Antonio, TX, United States

2:30 p.m. **1381**

SCHISTOSOMA MANSONI EGGS, ANTIGENS AND DNA CLEARANCE CURVES AFTER PRAZIQUANTEL TREATMENT AND REINFECTION RATES OVER SIX MONTHS: DIFFERENTIATING BETWEEN RAPID REINFECTION AND DRUG RESISTANCE

Andrina Nankasi¹, Moses Arinaitwe¹, Christina L. Faust², Fred Besigye¹, Diana Ajambo¹, Lauren V. Carruthers², Moses Adriko¹, Govert J. van Dam³, Lisette van Lieshout³, Paul L. Corstjens³, Paul L. Corstjens³, Edridah M. Tukahebwa¹, **Poppy H L Lamberton**²
¹Vector Control Division, Ministry of Health, Kampala, Uganda, ²University of Glasgow, Glasgow, United Kingdom, ³Leiden University Medical Center, Leiden, Netherlands

2:45 p.m. **1382**

OVERCOMING CHALLENGES IN THE DIAGNOSIS OF SCHISTOSOMA MANSONI INFECTIONS USING POINT OF CARE METHODS, RECOMBINANT PROTEIN AND MONOCLONAL ANTIBODY TECHNOLOGIES

Rafaella F. Queiroz¹, Paulo Marcos Z. Coelho¹, Donald A. Harn²
¹Oswaldo Cruz Foundation, Belo Horizonte, Brazil, ²University of Georgia, Athens, GA, United States

3 p.m. **1383**

URINE POC-CCA STRIP ASSAY: A QUANTITATIVE METHOD FOR DIAGNOSING INTESTINAL SCHISTOSOMIASIS?

Miriam Casacuberta Partal¹, Thomas F. Scherr², Pytsje T. Hoekstra¹, Lisette van Lieshout¹, Govert J. van Dam¹
¹Leiden University Medical Center, Leiden, Netherlands, ²Vanderbilt University, Nashville, TN, United States

3:15 p.m. **1384**

GLYCAN MICROARRAY-ASSISTED ANALYSIS OF DIAGNOSTIC ANTI-GLYCAN ANTIBODIES IN SCHISTOSOMIASIS

Cornelis H. Hokke¹, Abena S. Amoah¹, Niels C. Reichardt², Alan Wilson³, Meta Roostenberg¹, Maria Yazdanbakhsh¹, Govert van Dam¹, Angela van Diepen¹
¹Leiden University Medical Center, Leiden, Netherlands, ²CiCibiomaGUNE, San Sebastian, Spain, ³Centre for Immunology and Infection, University of York, York, United Kingdom

TropStop Career Chats

Sheraton - Lagniappe (2nd Floor)
Tuesday, October 30, 3 p.m. - 4 p.m.

The TropStop schedule features a daily one-hour afternoon session to meet professionals in the fields of tropical medicine and global health who will share their career stories and discuss topics and strategies to help you along your career path.

HOW TO USE SOCIAL MEDIA MORE EFFECTIVELY FOR ADVOCACY

Gideon Hertz
Burness, Bethesda, MD, United States

Exhibit Hall Open

Sheraton - Napoleon Ballroom (3rd Floor)
Tuesday, October 30, 3:15 p.m. - 4:15 p.m.

Coffee Break

Sheraton - Napoleon Ballroom (3rd Floor) and Marriott - Grand Ballroom Foyer (3rd Floor)
Tuesday, October 30, 3:30 p.m. - 4 p.m.

Poster Session B Dismantle

Marriott - Grand Ballroom (3rd Floor)
Tuesday, October 30, 4 p.m. - 6:15 p.m.

Symposium 94

From the Lab to the Field: Solutions for Women's Career Advancement in Tropical Medicine and Global Health

Sheraton - Rodrigue Gallery (1st Floor)
Tuesday, October 30, 4 p.m. - 5:45 p.m.

We are in an unprecedented time of reflection, discussion and review of gender equality and the barriers and solutions to women's advancement in the wake of movements such as #MeToo and the Women's March. This reflection and advocacy has extended to global health where women make up over 70% of the workforce, but are only represented in 25% of top leadership positions. Utilizing findings from the WHO Global Health Workforce Gender Equity Hub paper on women and the health workforce, the session will explore barriers and solutions to addressing women's career advancement in the global health workforce. Panelists will provide further nuance and depth to the introduction of barriers and solutions with specific examples from the lab and field. Each panelist will provide opening remarks, followed by a moderated dialogue that will include time for attendees to ask questions, discuss, share and learn in an open and safe space. While the event is focused on women's empowerment and experience, effective solutions require active participation and insights from men to ensure optimal lab and field work environments. The panel will welcome open discussion by all.

CHAIR

Roopa Dhatt
Women in Global Health, Washington, DC, United States

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

4 p.m. SETTING THE STAGE

Roopa Dhatt
Women in Global Health, Washington, DC, United States

4:10 p.m. PANEL DISCUSSION

Daniel Bausch
ASTMH Scientific Program Chair, UK Public Health Rapid Support Team, London, United Kingdom

A. Desiree LaBeaud
Stanford University, Stanford, CA, United States

Mosoka Fallah
PREVAIL/NIH, National Public Health Institute of Liberia, Monrovia, Liberia

Jetsumon Sattabongkot Prachumsri
Mahidol University, Bangkok, Thailand

Scientific Session 95

Bacteriology: Trachoma

Sheraton - Waterbury (2nd Floor)
Tuesday, October 30, 4 p.m. - 5:45 p.m.

CHAIR

Mabula Kasubi
Muhimbili University of Health Sciences, Dar es Salaam, United Republic of Tanzania

Amy Pinsent
London School of Hygiene & Tropical Medicine, London, United Kingdom

4 p.m.

1385

ANNUAL VERSUS BIENNIAL MASS AZITHROMYCIN DISTRIBUTION AND SEROLOGIC MARKERS OF TRACHOMA AMONG CHILDREN IN NIGER: A COMMUNITY RANDOMIZED TRIAL

Catherine Oldenburg¹, Jessica Kim¹, Gretchen Cooley², Abdou Amza³, Boubacar Kadri³, Beido Nassirou³, Sheila West⁴, Robin Bailey⁵, Jeremy Keenan¹, Bruce Gaynor¹, Thomas Lietman¹, Diana Martin²
¹University of California San Francisco, San Francisco, CA, United States, ²Centers for Disease Control and Prevention, Atlanta, GA, United States, ³PNSO, Niamey, Niger, ⁴Johns Hopkins University, Baltimore, MD, United States, ⁵London School of Hygiene & Tropical Medicine, London, United Kingdom

4:15 p.m.

1386

PROGRESS TOWARDS ACHIEVING TRACHOMA ELIMINATION: LONGITUDINAL TRENDS OVER SIX YEARS UNDER THE SAFE STRATEGY IN AL RAHAD LOCALITY, SUDAN

Angelia M. Sanders¹, Zeinab A. Admed², Balgesa Elshafie³, Andrew W. Nute¹, Mazin Elsanosi², Nabil Mikhail², E. Kelly Callahan¹, Scott D. Nash¹
¹The Carter Center, Decatur, GA, United States, ²The Carter Center, Khartoum, Sudan, ³Federal Ministry of Health, Khartoum, Sudan

4:30 p.m.

1387

UNDERSTANDING AND QUANTIFYING THE COMPLEX RELATIONSHIP BETWEEN DIFFERENT DIAGNOSTIC INDICATORS FOR TRACHOMA SURVEILLANCE

Amy Pinsent¹, Robin Bailey¹, Anthony Solomon², David Mabey¹, Robert Butcher¹, Michael White³, Deirdre Hollingsworth⁴
¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²World Health Organization, Geneva, Switzerland, ³Institute Pasteur, Paris, France, ⁴Oxford University, Oxford, United Kingdom

4:45 p.m.

1388

FIELD TESTING AND OPTIMIZATION OF A RAPID TEST FOR ANTIBODIES TO THE *CHLAMYDIA TRACHOMATIS* ANTIGEN PGP3

Sarah Gwyn¹, Harran Mkocho², Jessica Randall¹, Mabula Kasubi³, Diana Martin¹

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Kongwa Trachoma Project, Kongwa District, United Republic of Tanzania, ³Muhimbili University, Dar es Salaam, United Republic of Tanzania

5 p.m.

1389

PLANNING FOR TRANSITIONING SERVICES WHEN ELIMINATION THRESHOLDS ARE MET: LESSONS LEARNED FROM TRACHOMA TRANSITION PLANNING

Michaela Kelly¹, Paul Courtright², Stephen Mwatha³, Helen Bokea⁴

¹Sightsavers, Haywards Heath, United Kingdom, ²Sightsavers Technical Lead, based at KCCO, United Kingdom, ³Neglected Tropical Disease Unit, Ministry of Health, Nairobi, Kenya, ⁴Sightsavers, Nairobi, Kenya

5:15 p.m.

1390

THE POPULATION-BASED PREVALENCE OF TRACHOMATOUS SCARRING IN A TRACHOMA HYPERENDEMIC SETTING: RESULTS FROM 152 IMPACT SURVEYS IN AMHARA, ETHIOPIA

Scott D. Nash¹, Caleb D. Ebert¹, Aisha E. P. Stewart¹, Eshetu Sata², Tigist Astale², Mulat Zerihun², Demelash Gessesse², Gedefaw Ayenew², Zebene Ayele², Melsew Chanyalew³, Berhanu Melaku², Zerihun Tadesse², E. Kelly Callahan¹

¹The Carter Center, Atlanta, GA, United States, ²The Carter Center, Addis Ababa, Ethiopia, ³Amhara Regional Health Bureau, Bahir Dar, Ethiopia

5:30 p.m.

1391

DOES INFECTION AND ANTIBODY DATA ADD EVIDENCE TO THE UNDERSTANDING OF TRACHOMA PREVALENCE IN LOW ENDEMIC AREAS?

Mabula Kasubi¹, George Kabona², James Kalabashanga¹, Harran Mkocho³, Mike French⁴, Upendo Mwingira⁵, Sheila West⁶, Jeremiah M. Ngondi⁷

¹Muhimbili University of Health Sciences, Dar Es Salaam, United Republic of Tanzania, ²Iringa Regional Referral Hospital, Iringa, United Republic of Tanzania, ³Kongwa Trachoma Project, Kongwa, United Republic of Tanzania, ⁴RTI International, Washington, DC, United States, ⁵National Institute for Medical Research, Dar Es Salaam, United Republic of Tanzania, ⁶Dana Center for Preventive Ophthalmology, Johns Hopkins University, Baltimore, MD, United States, ⁷RTI International, Dar Es Salaam, United Republic of Tanzania

Symposium 96

Malaria Co-Morbidity in Sub-Saharan Africa

Sheraton - Rhythms (2nd Floor)

Tuesday, October 30, 4 p.m. - 5:45 p.m.

The epidemiology of pediatric febrile illness is shifting in sub-Saharan Africa and the majority of febrile illness are caused by pathogens other than *Plasmodium* malaria. Knowledge on the local epidemiological situation is crucial for clinicians working with limited resources to manage febrile patients and help public health professionals to develop guidelines on targeted treatment in times of expanding antimicrobial drug resistance. This symposium aims to provide new epidemiological data on malaria comorbidities, treatment failures and bias awareness to

guide diagnostic workup and improve pediatric clinical management and outcomes in sub-Saharan Africa. In a hospital-based fever surveillance study, a clinical/microbiological diagnosis was made in patients with *Plasmodium* parasitemia being predominant. With half of all malaria patients revealing an alternative cause for the fever episode, malaria co-infections played a substantial role. The likelihood of comorbidity with a non-malarial disease was reversely correlated with increasing parasitemia. Hence, parasite densities provide important information as an indicator for the probability of co-infections, also guiding antimicrobial medication. Febrile pediatric inpatients from Ghana and Burkina Faso received an extensive laboratory workup in order to reveal the cause of fever. Malaria parasite clearance was monitored for 28 days. The frequency of malaria co-morbidities and treatment failures was investigated to guide empirical treatment decisions in regions where laboratory facilities are not available. A longitudinal survey in rural Gabon compared the incidence of malaria episodes in participants with and without chronic *S. haematobium* infection and determined the effect of praziquantel treatment on the incidence of malaria episodes. The results showed that malaria episodes increased in the co-infected group. Hence, chronic infectious diseases that might have a significant impact on malaria prevalence should be taken into account for malaria control strategies. There is growing evidence for a positive association between malaria and invasive nontyphoidal *Salmonella* (INTS) disease. This study included children using two case-control approaches to describe the effect of Berkson's bias on the malaria - INTS association and demonstrates how to provide a less biased effect estimate.

CHAIR

Juergen May
Bernhard Nocht Institute of Tropical Medicine, Hamburg, Germany
Abdoulaye Djimde
Malaria Research and Training Center, Bamako, Mali

4 p.m.

MALARIA CO-INFECTIONS IN FEBRILE CHILDREN: A HOSPITAL-BASED STUDY FROM GHANA

Daniel Eibach
Bernhard Nocht Institute of Tropical Medicine, Hamburg, Germany

4:20 p.m.

MALARIA COMORBIDITY OR TREATMENT FAILURE? A CLINICAL CHALLENGE IN RURAL HOSPITALS

Oumou Maiga-Ascofaré
Kumasi Centre for Collaborative Research in Tropical Medicine, Hamburg, Ghana

4:40 p.m.

INCREASED NUMBER OF MALARIA ATTACKS AMONG CHILDREN INFECTED WITH *SCHISTOSOMA HAEMATOBIMUM* LIVING IN RURAL AREAS IN GABON

Jean-Claude Dejon Agobé
Centre de Recherches Médicales de Lambaréné, Lambarene, Gabon

Tuesday
October 30

5 p.m.

MALARIA-SALMONELLA CO-INFECTIONS: ACCOUNTING FOR SELECTION AND MISCLASSIFICATION BIAS IN HOSPITAL-BASED STUDIES

Eva Lorenz

Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany

Symposium 97

Hepatitis E- The Unremitting Challenge

Sheraton - Grand Ballroom A/B (5th Floor)

Tuesday, October 30, 4 p.m. - 5:45 p.m.

Hepatitis E virus (HEV) is a leading cause of acute viral hepatitis in developing countries with an estimated 20.1 million infections, 3.4 million symptomatic cases, 70,000 deaths, and 3,000 stillbirths annually. HEV occurring sporadically or as a disease outbreak has been identified in at least 63 countries. HEV genotypes 1 and 2 primarily infect humans whereas genotypes 3 and 4 mainly infect animals such as pigs with occasional cross-species transmission to humans. Genotypes 1 and 2 spread primarily through contaminated water and consequently outbreaks occur in the poorest communities with limited access to safe drinking water and sanitation. Persons in conflict zones and humanitarian emergencies including natural disasters are at particularly high risk. In recent years, there have been numerous outbreaks caused by HEV in native populations and in camps for displaced persons including in Chad, Niger, Nigeria and Nepal, resulting in substantial morbidity and mortality. It has long been observed that HEV has a predilection for causing more severe disease among pregnant women. While in the general population mortality ranges from 0.1% to 4%, among pregnant women it can range from 10% to 50%. The disease is typically most severe during the third trimester and even if not fatal among mothers, it is often a cause of stillbirths. In 2010, a recombinant, subunit HEV vaccine, Hecolin, reported high efficacy against disease in a large phase 3 trial and was licensed in China. However, the vaccine is not widely available for use outside of China and has not yet been prequalified by the WHO. A large trial of the HEV vaccine is underway in women of childbearing age in Bangladesh to determine the efficacy of the vaccine in preventing hepatitis E during pregnancy. This Symposium will discuss the current epidemiology of HEV in Africa and South Asia by reviewing recent outbreaks in Chad, Niger and Nepal, and discuss the current challenges and future prospect for outbreak response and control, including use of vaccine.

CHAIR

Julia Anne Lynch

International Vaccine Institute, Seoul, Republic of Korea

Florian Marks

International Vaccine Institute, Seoul, Republic of Korea

4 p.m.

HEV OUTBREAK IN CHAD

Annick Lenglet

MSF, Geneva, Switzerland

4:20 p.m.

CHALLENGES IN OUTBREAK RESPONSE IN HUMANITARIAN SETTINGS

Iza Ciglenecki

MSF, Geneva, Switzerland

4:40 p.m.

EPIDEMIOLOGY OF HEV IN NEPAL: THE NEED FOR SURVEILLANCE

Ananta Shrestha

Alka Hospital, Lalitpur, Nepal

5 p.m.

HEV EPIDEMIOLOGY IN BANGLADESH AND VACCINE TRIAL UPDATE

Zaman Khalequ

International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

Symposium 98

Climate Services for Health: Improving Public Health Decision-Making in a New Climate

Sheraton - Grand Ballroom C (5th Floor)

Tuesday, October 30, 4 p.m. - 5:45 p.m.

More frequent and intense extreme climate events such as heat waves, floods and droughts have a detrimental impact on human health and well-being. However, recent advances in climate science have increased our ability to anticipate and build resilience to climate-related challenges. Health professionals around the world are increasingly recognizing the potential to harness the expertise of the meteorological and climatological communities to enhance disease detection and health risk monitoring. Climate services for health is an emerging field of applied science that brings together multi-sectoral professionals to co-create tools and services that can help better understand and take advantage of the influence of weather and climate on health outcomes, such as infectious disease outbreaks. Access to high quality, tailored climate information can help health decision-makers better understand the influence of extreme weather, climate variability and climate change on disease transmission and to anticipate when, where and who may be at greatest risk. Climate services, such as severe weather forecasts, seasonal climate forecasts and long-term climate projections, which are tailored to the needs of the public health sector, can help target interventions, promote the efficient use of human and financial resources and ultimately save lives. This symposium will bring together experts in policy, research and climate service delivery to discuss the state of the art in climate services for health, with a focus on early warning systems for arboviral diseases, including dengue, chikungunya and Zika, in the Latin American and Caribbean region.

Experts will showcase results of multi-institutional and interdisciplinary collaborations at national, regional and international levels for research-to-operations innovation in the co-production of climate services for health. This session will be of interest to public health practitioners anticipating the role of climate variability and climate change in health systems, particularly for the control and prevention of vector-borne diseases.

CHAIR

Rachel Lowe
London School of Hygiene & Tropical Medicine, London, United Kingdom
Anna M. Stewart-Ibarra
State University of New York Upstate Medical University, Syracuse, NY, United States

4 p.m.

BUILDING A CLIMATE-INFORMED HEALTH COMMUNITY

Madeleine C. Thomson
International Research Institute for Climate and Society, New York, NY, United States

4:20 p.m.

THE DEVELOPMENT OF SEASONAL CLIMATE FORECASTS TO SERVE CLIMATE-SENSITIVE SECTORS IN THE CARIBBEAN

Adrian R. Trotman
The Caribbean Institute for Meteorology and Hydrology, Bridgetown, Barbados

4:40 p.m.

CLIMATE SERVICES FOR HEALTH IN ECUADOR: ENHANCING CAPACITY AND CO-PRODUCING WITH STAKEHOLDERS

Mercy J. Borbor-Cordova
Escuela Superior Politécnica del Litoral (ESPOL), Guayaquil, Ecuador

5 p.m.

TOWARDS AN EARLY WARNING SYSTEM FOR ARBOVIRAL DISEASE RISK IN LATIN AMERICA AND THE CARIBBEAN

Rachel Lowe
London School of Hygiene & Tropical Medicine, London, United Kingdom

Scientific Session 99

Global Health: Prevention and Control of Malaria and Other Vector-Borne Diseases

Sheraton - Grand Ballroom D/E (5th Floor)
Tuesday, October 30, 4 p.m. - 5:45 p.m.

CHAIR

Erin Eckert
United States Agency for International Development, Arlington, VA, United States
Ruvini Kurukulasooriya
Duke-Ruhuna Research Centre, University of Ruhuna, Galle, Sri Lanka

4 p.m.

1392

GLOBAL BURDEN OF MALARIA AND DENGUE CO-INFECTION: A SYSTEMATIC REVIEW AND META-ANALYSIS

José Moreira, Claudio Bautista-Branagan, Otilia Lupi, Patrícia Brasil, André Siqueira
Instituto Nacional de Infectologia Evandro Chagas (INI/FIOCRUZ), Rio de Janeiro, Brazil

4:15 p.m.

1393

ECONOMIC IMPACT OF DENGUE ON PATIENTS HOSPITALIZED IN SOUTHERN SRI LANKA - AN ANALYSIS OF DIRECT AND INDIRECT COSTS

Nayani P Weerasinghe¹, M Ruvini P Kurukulasooriya¹, L Gayani Tillekeratne², WMD Gaya B Wijayaratne¹, Champica K Bodinayake¹, I Vasantha Devasiri¹, Niroshan J Dahanayake¹, C. Lakmal Fonseka¹, Harshani Ubeseekara³, K V Thamali Anuradha¹, Aruna Dharshan de Silva⁴, Bradly P Nicholson⁵, Truls Østbye², Christopher W Woods², Ajith De S Nagahawatte¹
¹Faculty of Medicine, University of Ruhuna, Galle, Sri Lanka, ²Duke University School of Medicine, Durham, NC, United States, ³Provincial Director of Health Office, Galle, Sri Lanka, ⁴General Sir John Kothalawale Defence University, Ratmalana, Sri Lanka, ⁵Durham Veterans Affairs Medical Center, Durham, NC, United States

4:30 p.m.

1394

GAPS IN SERVICE UTILIZATION AND SERVICE PROVISION: AN ANALYSIS OF DHS AND SPA MALARIA DATA FROM MALAWI, SENEGAL, AND TANZANIA

Cameron Taylor, Ann Linn, Wenjuan Wang, Hamdy Moussa
ICF, Rockville, MD, United States

4:45 p.m.

1395

SUBNATIONAL PROFILING USING CHI-SQUARE AUTOMATIC INTERACTION DETECTOR (CHAID) ANALYSIS TO INFORM TARGETING OF MALARIA INTERVENTIONS: A CASE STUDY FROM NIGERIA

Samantha Herrera¹, Andrew Andrada¹, Uwem Inyang², Yazoume Ye¹
¹MEASURE Evaluation, ICF, Rockville, MD, United States, ²United States President's Malaria Initiative, United States Agency for International Development, Abuja, Nigeria

5 p.m.

1396

MAKING THE CASE FOR INVESTMENT IN SOCIAL AND BEHAVIOR CHANGE INTERVENTIONS FOR MALARIA: RESULTS FROM A SECONDARY ANALYSIS IN NIGERIA

Samantha Herrera¹, Kirsten Zalisk¹, Debra Prosnitz¹, Uwem Inyang², Mark Maire³, Yazoume Ye¹
¹MEASURE Evaluation, ICF, Rockville, MD, United States, ²United States President's Malaria Initiative, United States Agency for International Development, Abuja, Nigeria, ³Division of Parasitic Diseases and Malaria, Center for Global Health, United States Centers for Disease Control and Prevention, President's Malaria Initiative, Atlanta, GA, United States

5:15 p.m.

1397

LARVAL SOURCE REDUCTION WITH A PURPOSE: DESIGNING AND EVALUATING A SCHOOL AND COMMUNITY INTERVENTION IN COASTAL KENYA

Jenna E. Forsyth¹, Francis Mutuku², Lydiah Kibe³, Luti Mwashee⁴, Desiree LaBeaud¹
¹Stanford University, Stanford, CA, United States, ²Technical University of Mombasa, Mombasa, Kenya, ³Kenya Medical Research Institute, Kilifi, Kenya, ⁴Vector Disease Control Unit, Msambweni, Kenya

5:30 p.m.

1398

PARTNERING WITH MIDWIVES AND HEALTH CENTER PERSONNEL TO DETECT AND TREAT CONGENITAL CHAGAS DISEASE IN RURAL GUATEMALA

Pamela Pennington¹, Pamela Flores¹, Elizabeth Pellecer¹, Mabel Taracena¹, José G. Juárez¹, Joe Bryan², Celia Córdón-Rosales¹
¹Universidad del Valle de Guatemala, Guatemala, Guatemala, ²Centers for Disease Control and Prevention Central America Regional Office, Guatemala, Guatemala

Symposium 100

Health and Livelihoods of Rural Communities: The Impacts of Zoonotic Diseases of Livestock

Marriott - La Galerie 1/2 (2nd Floor)

Tuesday, October 30, 4 p.m. - 5:45 p.m.

Livestock-associated zoonoses can influence health directly through human infection, as well as indirectly by mediating livestock production losses that have substantial economic and nutritional impacts on subsistence farmers and their families. Often endemically present, livestock zoonoses occur among populations without a strong political voice. In the context of limited research and surveillance, livestock-associated zoonoses like brucellosis, leptospirosis, and Q fever are often neglected by researchers and policy makers. Zoonotic infections of epidemic potential often garner headlines and considerable support for prevention and control. However, it is likely that the health and economic impacts of endemic zoonoses are even greater, especially among subsistence farmers who remain a large demographic group in many low-resource countries worldwide. Those working with livestock, exposed to livestock environments, or who consume livestock products may be infected with livestock pathogens through multiple modes of transmission. In such settings, livestock zoonoses are major causes of illness and death. In addition, zoonoses contribute to poverty and vulnerability either through healthcare costs, or if livestock are sickened or die, family members may suffer through reduced availability of dietary protein and of cash income. One Health approaches - the collaborative effort of multiple disciplines working locally, nationally and globally to attain optimal health for people, animals and the environment - have been promoted as a means to address such health concerns. However, there are limited examples of how One Health research approaches to endemic livestock zoonoses have been translated into policy changes that improve human and animal health. Specifically, this symposium will set the scene by over-viewing the neglected problem of zoonoses in rural communities and the central role of One Health approaches to addressing livestock zoonoses. From there, international experts will describe challenges and approaches to combining data on human disability with livestock production losses to understand the full burden of livestock zoonoses, taking leptospirosis as an example. Approaches to source tracing and attribution for bacterial zoonoses will be examined, using brucellosis as a case

study. Finally, the process of translating research findings into policies to improve human health and livestock productivity will be reviewed.

CHAIR

John A. Crump
University of Otago, Dunedin, New Zealand
Matthew P. Rubach
Duke University, Durham, NC, United States

4 p.m.

ZOOSES IN RURAL COMMUNITIES: AN OVERVIEW

Eric M. Fèvre
University of Liverpool, Liverpool, United Kingdom

4:25 p.m.

MEASURING THE DOUBLE BURDEN OF LIVESTOCK ZOOSES: LEPTOSPIROSIS AS A CASE STUDY

Michael J. Maze
University of Otago, Dunedin, New Zealand

4:50 p.m.

SOURCE ATTRIBUTION FOR LIVESTOCK ZOOSES: BRUCellosIS AS A CASE STUDY

Jo E. Halliday
University of Glasgow, Glasgow, United Kingdom

5:15 p.m.

ONEHEALTH IN PRACTICE: RESEARCH TO POLICY IN TANZANIA

Blandina T. Mmbaga
Kilimanjaro Christian Medical Centre, Moshi, United Republic of Tanzania

Scientific Session 101

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Parasites - Molecular, Cellular and Immunobiology

Marriott - La Galerie 3 (2nd Floor)

Tuesday, October 30, 4 p.m. - 5:45 p.m.

Supported with funding from the Burroughs Wellcome Fund

CHAIR

Melissa L. Sykes
Griffith Institute for Drug Discovery, Brisbane, Australia
Peter C. Melby
University of Texas Medical Branch, Galveston, TX, United States

4 p.m.

2120

THE NOTCH SIGNALING PATHWAY CONTROLS BASOPHIL RESPONSES DURING HELMINTH-INDUCED TYPE 2 INFLAMMATION

Lauren Webb¹, S. P. Frueh¹, O. O. Oyesola¹, S. A. Peng¹, E. Kamynina¹, R. L. Cubitt¹, J. K. Grenier², C. G. Danko³, E. D. Tait Wojno¹
¹Baker Institute for Animal Health and Department of Microbiology and Immunology, Cornell University College of Veterinary Medicine, Ithaca, NY, United States, ²RNA Sequencing Core, Center for Reproductive Genomics and Department of Biomedical Sciences, Cornell University College of Veterinary Medicine, Ithaca, NY, United States, ³Baker Institute for Animal Health and Department of Biomedical Sciences, Cornell University College of Veterinary Medicine, Ithaca, NY, United States

4:15 p.m.

2121

ALLERGIC INFLAMMATION INHIBITS HELMINTH LARVAL DEVELOPMENT AND CONTROLS PARASITE BURDEN

Pedro Gazzinelli-Guimaraes¹, R. Q. Prado¹, A. Ricciardi¹, S. Bonne-Année¹, Joshua Scieurba¹, Erik Karmele¹, R. Fujiwara², T. B. Nutman¹

¹Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ²Department of Parasitology, Universidade Federal de Minas Gerais, Belo Horizonte, Brazil

4:30 p.m.

1399

A NOVEL, FLUORESCENCE-BASED ASSAY TO ASSESS THE REPLICATIVE ABILITY OF *TRYPANOSOMA CRUZI* PARASITES BY DETECTION OF THYMIDINE INCORPORATION INTO PARASITE DNA

Melissa L. Sykes¹, David Hilko¹, Livia Kung², Sally-Ann Poulsen¹, Vicky Avery¹

¹Griffith Institute for Drug Discovery, Brisbane, Australia, ²Institute of Integrative Biology, ETH Zurich, Brisbane, Switzerland

4:45 p.m.

1400

MOLECULAR CHARACTERIZATION OF *LEISHMANIA* DNA FROM ARCHIVED GIEMSA-STAINED SLIDES OF PATIENTS FROM SALTA, ARGENTINA

Maria Cristina Almazan, Alejandro Javier Krolewiecki, Carlos Lorenzo Hoyos, Silvana Pamela Cajal, Griselda Noemi Copa, Pedro Emanuel Fleitas, Paola Andrea Barroso, Jorge Diego Marco, Julio Ruben Nasser, Jose Fernando Gil

Instituto de Investigaciones de Enfermedades Tropicales, Salta, Argentina

(ACMCIP Abstract)

5 p.m.

1401

PREVALENCE AND ASSOCIATION OF *LEISHMANIA* RNA VIRUS-1 (LRV-1) IN SEVERE AND NON-SEVERE PHENOTYPES OF AMERICAN TEGUMENTARY LEISHMANIASIS FROM PERU

Ruwandi Kariyawasam¹, Rachel Lau², Braulio M. Valencia³, Alejandro Llanos-Cuentas⁴, Andrea K. Boggild¹

¹University of Toronto, Toronto, ON, Canada, ²Public Health Ontario, Toronto, ON, Canada, ³Instituto de Medicina Tropical, Lima, Peru, ⁴Instituto de Medicina Tropical "Alexander von Humboldt", Lima, Peru

(ACMCIP Abstract)

5:15 p.m.

1402

TRANSCRIPTOME ANALYSIS OF SPLENIC ASPIRATES IN HUMAN VISCERAL LEISHMANIASIS REVEALS IMPAIRED TISSUE ORGANIZATION/REPAIR AND INHIBITED PARASITE KILLING

Margaret Mbuchi¹, **Elvia Y. Osorio**², Omar A. Saldarriaga², A. Muia¹, C. Magiri¹, H. Kanyi¹, A. Chelugo¹, A. Muthoni¹, R. Rono¹, S. Gachigi¹, S. Njenga¹, M. Wasunna¹, Bruno L. Travi², Peter C. Melby²

¹Kenya Medical Research Institute, Nairobi, Kenya, ²University of Texas Medical Branch, Galveston, TX, United States

(ACMCIP Abstract)

5:30 p.m.

1403

CHAGAS DISEASE-INDUCED FUNCTIONAL PERTURBATIONS OF THE GASTROINTESTINAL MICROBIOME

Laura-Isobel McCall¹, Ekram Hossain¹, Anupriya Tripathi², Fernando Vargas², Rob Knight², Pieter C. Dorrestein², Jair L. Siqueira-Neto²

¹University of Oklahoma, Norman, OK, United States, ²University of California San Diego, La Jolla, CA, United States

(ACMCIP Abstract)

Symposium 102

American Committee of Medical Entomology (ACME) Symposium II: The CDC Regional Centers of Excellence for Vector-Borne Disease

Marriott - La Galerie 4/5/6 (2nd Floor)

Tuesday, October 30, 4 p.m. - 5:45 p.m.

The recent establishment of the CDC Regional Centers of Excellence for Vector-Borne Disease represents one of the biggest single investments in vector-borne disease research and training in recent years. This symposium will provide an opportunity for the directors to provide a brief overview of their respective regional centers, including broad aims, objectives, and strategic approaches. Following these introductions, the session will feature the work of new and young investigators (graduate students, post-docs, and research fellows) who are working in the laboratories of ACME members, or are themselves ACME members, and are affiliated with one of the CDC Regional Centers. The goal is to provide an illustration of the diverse sub-disciplines in medical entomology and to increase the visibility of early-stage investigators.

CHAIR

Matthew Thomas

Pennsylvania State University, University Park, PA, United States

Philip Armstrong

The Connecticut Agricultural Experiment Station, New Haven, CT, United States

4 p.m.

ACME TRAVEL AWARDS ANNOUNCEMENT

NORTHEAST CENTER: LANDSCAPE AND CLIMATE DETERMINANTS OF *AE. ALBOPICTUS* ABUNDANCE AT THE NORTHERN LIMITS OF THE SPECIES' RANGE, UNITED STATES

4:05 p.m.

Laura C. Harrington

Cornell University, Ithaca, NY, United States

4:10 p.m.

Pallavi Kache

Columbia University, New York, NY, United States

SOUTHEASTERN CENTER: ASSOCIATION BETWEEN IXODID TICKS AND THE ENVIRONMENT: IDENTIFYING UNDERLYING PATTERNS OF DISTRIBUTION IN FLORIDA

4:25 p.m.

Rhoel R. Dinglasan

University of Florida, Gainesville, FL, United States

Tuesday
October 30

4:30 p.m.

Claudia Ganser

University of Florida, Gainesville, FL, United States

WESTERN GULF CENTER: AN ECO-BIO-SOCIAL APPROACH FOR THE SURVEILLANCE AND CONTROL OF *Aedes Aegypti* IN THE LOWER RIO GRANDE VALLEY, TEXAS

4:45 p.m.

Scott C. Weaver

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

4:50 p.m.

Jose Juarez

Texas A&M University, College Station, TX, United States

PACIFIC SOUTHWEST CENTER: MODELING THE ESTABLISHMENT AND SPREAD OF *Aedes Albopictus* IN LOS ANGELES

5:05 p.m.

Christopher Barker

University of California Davis, Davis, CA, United States

5:10 p.m.

Matteo Marcantonio

University of California Davis, Davis, CA, United States

MIDWEST CENTER: VECTOR CONTROL AND CAPACITY REGIONAL SURVEY FOR THE MIDWEST CENTER OF EXCELLENCE FOR VECTOR-BORNE DISEASE

5:25 p.m.

Lyric Bartholomay

University of Wisconsin Madison, Madison, WI, United States

5:30 p.m.

Trisha Dubie

Michigan State University, East Lansing, MI, United States

Symposium 103

Unraveling the Biology of the Hypnozoite - Integrating Findings from Lab Models and Field Studies of *Plasmodium vivax*

Marriott - Mardi Gras D (3rd Floor)

Tuesday, October 30, 4 p.m. - 5:45 p.m.

Despite increased recognition of the human toll of *Plasmodium vivax* over the last decade, the tools in our arsenal to combat this parasite remain weak. Inability to distinguish hypnozoite-induced relapse from re-infection in endemic settings complicates chemotherapeutic assessments and obscures vivax epidemiology. A universally deployable agent to attack hypnozoites is needed, as well as diagnostics to identify hypnozoite carriers before they relapse. At the heart of these challenges lies the black box of how *P. vivax* establishes latent infection in the liver and what triggers relapse - how do hypnozoites go to sleep and wake up? Exciting new models to better understand the biology underlying relapse include microengineered livers, humanized mouse models, and clinical-genomic studies of vivax-infected persons who relapse outside of endemic settings. Our goal is to integrate findings gleaned from each of these models, to achieve greater insight into one of the great mysteries of malaria - How are relapses triggered? What

is the evidence for an intrinsic clock vs. extrinsic triggers. Do parasites follow a molecular clock that is epigenetically regulated? Or do they simply leak out of the liver in a stochastic fashion? The co-chair will first present historical evidence of relapse periodicity in malariotherapy studies and soldier cohorts. The first part of the session will present findings from leading liver-stage models of *P. vivax*. The first speaker will present results from transcriptomic studies of *P. vivax* hypnozoites, in a microscale human liver platform that recapitulates many aspects of the complex microenvironment supporting liver-stage plasmodium infection. The second speaker will describe how relapse is recapitulated in a liver-chimeric mouse model, focusing on developmental stages of the hypnozoite as well as biomarker data in infected mice using plasma-derived exosomes. The second part of the session will present findings from field studies which reflect the real-world scenario of subjects living in endemic areas who are repeatedly exposed to vivax malaria. The symposium will highlight the utility of a soldier relapse model for testing anti-relapse interventions and present findings from a targeted deep sequencing study showing how complexity of infection appears to track with hypnozoite burden. The session will discuss findings from a closely integrated field-genomics study in Cambodia, with evidence for continuous, stochastic reactivation of hypnozoites.

CHAIR

Jessica Lin

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

J. Kevin Baird

Eijkman Oxford Clinical Research Unit, Jakarta, Indonesia

4 p.m.

EVIDENCE OF RELAPSE PERIODICITY FROM HISTORICAL COHORTS: LESSONS LEARNED FROM MALARIO THERAPY STUDIES AND SOLDIER COHORTS

J. Kevin Baird

Eijkman-Oxford Clinical Research Unit, Eijkman Oxford Clinical Research Unit, Jakarta, Indonesia

4:10 p.m.

USING A MICROENGINEERED PRIMARY HUMAN LIVER PLATFORM TO INTERROGATE HYPNOZOITE BIOLOGY

Nil Gural

Harvard/Massachusetts Institute of Technology Health Sciences and Technology Program, Cambridge, MA, United States

4:25 p.m.

THE BIOLOGY OF HYPNOZOITE FORMATION, PERSISTENCE, AND ACTIVATION IN THE FRG HUHEP LIVER-CHIMERIC MOUSE MODEL

Erika Flannery

Center for Infectious Disease Research, Seattle, WA, United States

4:45 p.m.

MULTIPLICITY OF INFECTION IN MALARIA RELAPSES AMONG INDONESIAN SOLDIERS

Rintis Noviyanti

Eijkman Institute of Molecular Biology, Jakarta, Indonesia

5 p.m.
GENOMIC PROFILING OF PLASMODIUM VIVAX RELAPSES IN CAMBODIA

Jean Popovici
Institut Pasteur of Cambodia, Phnom Penh, Cambodia

Scientific Session 104

Modeling in Malaria

Marriott - Mardi Gras EFGH (3rd Floor)
Tuesday, October 30, 4 p.m. - 5:45 p.m.

CHAIR

Prabin Dahal
WorldWide Antimalarial Resistance Network, Oxford, Oxford, United Kingdom

Erika Wallender
University of California San Francisco, San Francisco, CA, United States

4 p.m. **1404**

MODELLING THE EFFECTS OF ATTRACTIVE TOXIC SUGAR BAITS (ATSBS) ON MALARIA PREVALENCE IN HUMANS; A TOOL FOR EPIDEMIOLOGICAL STUDY DESIGN

Keith J. Fraser, Azra C. Ghani
Imperial College London, London, United Kingdom

4:15 p.m. **1405**

SIMULATION STUDIES TO QUANTIFY THE IMPACT OF COMPETING RISK EVENTS IN A HYPOTHETICAL SCENARIO OF FALLING ANTIMALARIAL DRUG EFFICACY IN SINGLE-ARMED AND COMPARATIVE DRUG TRIALS

Prabin Dahal¹, Philippe J. Guerin¹, Ric N. Price¹, Julie A. Simpson², Kasia Stepniewska¹
¹WorldWide Antimalarial Resistance Network, Centre for Tropical Medicine and Global Health, Nuffield Department of Clinical Medicine, University of Oxford, Oxford, United Kingdom, ²Centre for Epidemiology and Biostatistics, Melbourne School of Population and Global Health, The University of Melbourne, Melbourne, Australia

4:30 p.m. **1406**

MULTIPLE FIRST LINE THERAPIES VERSUS REDUCING OVERPRESCRIPTION OF ANTIMALARIALS TO SLOW ANTIMALARIAL RESISTANCE

Lucy Okell, Oliver Watson
Imperial College London, London, United Kingdom

4:45 p.m. **1407**

PHARMACOKINETIC/PHARMACODYNAMIC MODELING TO OPTIMIZE DIHYDROARTEMISININ-PIPERAQUINE EXPOSURE AND PREVENT SELECTION FOR MARKERS OF DECREASED ANTIMALARIAL DRUG SENSITIVITY DURING INTERMITTENT PREVENTIVE TREATMENT DURING PREGNANCY

Erika Wallender¹, Nan Zhang¹, Melissa Conrad¹, Abel Kakuru², Prasanna Jagannathan³, Mary Muhindo², Patrick Tumwebaze², Richard Kajubi², Daniel Mota¹, Jenny Legac¹, Diane Havlir¹, Moses Kanya², Grant Dorsey¹, Francesca Aweeka¹, Philip J. Rosenthal¹, Rada Savic¹
¹University of California San Francisco, San Francisco, CA, United States, ²Infectious Diseases Research Collaboration, Kampala, Uganda, ³Stanford University, Palo Alto, CA, United States

5 p.m. **1408**

PHARMACOKINETIC-PHARMACODYNAMIC MODELLING OF ARTESUNATE IN PATIENTS WITH DRUG RESISTANT AND SENSITIVE MALARIA (TRAC)

Richard Hoglund¹, Tracking Resistance to Artemisinin Collaboration²
¹Department of Clinical Pharmacology, Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand, Thailand, ²Worldwide collaboration, International, Thailand

5:15 p.m. **1409**

SCHOOL-BASED ANTIMALARIA INTERVENTIONS EFFICIENTLY REDUCE COMMUNITY-LEVEL PLASMODIUM FALCIPARUM PREVALENCE IN A HIGH-TRANSMISSION SETTING: A MATHEMATICAL MODELING STUDY

Andrea Geri Buchwald¹, Jenna E. Coalson², Lauren M. Cohee¹, Mark L. Wilson³, Laura L. Hungerford⁴, Terrie E. Taylor⁵, Miriam K. Laufer¹
¹University of Maryland Baltimore, Baltimore, MD, United States, ²The University of Arizona, Tucson, AZ, United States, ³University of Michigan, School of Public Health, Ann Arbor, MI, United States, ⁴Virginia-Maryland College of Veterinary Medicine, Blacksburg, VA, United States, ⁵Michigan State University College of Osteopathic Medicine, East Lansing, MI, United States

5:30 p.m. **1410**

PROBABILISTIC MODEL OF PLASMODIUM VIVAX RELAPSE FOR IMPROVED ESTIMATION OF TREATMENT EFFICACY USING TIME-TO-RECURRENCE DYNAMICS

James Watson¹, Aimee R. Taylor², Caroline O. Buckee², Mallika Imwong³, Cindy S. Chu¹, Nicholas J. White¹
¹Oxford University, Oxford, United Kingdom, ²Harvard University, Boston, MA, United States, ³Mahidol University, Bangkok, Thailand

Special Event 104A

“Minutes to Die” Documentary Screening

Marriott - Balcony IJK (3rd Floor)
Tuesday, October 30, 4 p.m. – 5:45 p.m.

View the important documentary “Minutes to Die” which sets out to multiple snakebite endemic countries throughout the tropics capturing the stories of victims who face death and disability in this little known global health crisis. The documentary, which continues to screen around the globe, has been an important component to drive change and bring a wide variety of new voices to the table to take action. “Minutes to Die” also features a group of scientists working to manufacture and improve antivenom and develop new therapies, while touching upon the history of neglect and the hope for needed global health attention. “Minutes to Die” is directed by James Reid and produced by the Lillian Lincoln Foundation. Experts involved in the film will be on hand to answer questions following the screening.

CHAIR

James Reid
Director, Minutes to Die Documentary Film, San Francisco, CA, United States

Symposium 105

A Countdown on Schistosomiasis Control: Why Precision Mapping and Expanded Access to Praziquantel Treatment is Needed Now and Even More in the Future

Marriott - Balcony LMN (3rd Floor)

Tuesday, October 30, 4 p.m. - 5:45 p.m.

Schistosomiasis is a common waterborne parasitic disease in sub-Saharan Africa yet, at the local level, has a focal geographic distribution. In line with WHO 2020 targets, scale-up of preventive chemotherapy with praziquantel is ongoing and with adequate resourcing national control campaigns expect to transition from morbidity- to transmission-focused interventions. As a consequence, however, the disease landscape becomes more heterogeneous for the species of *Schistosoma* respond in different ways to current treatment regimens and WASH-related interventions that reduce fecal and(or) urine contamination. Hence to target resources more effectively, precision mapping of disease is needed even though current preventive chemotherapy is delivered by mass drug administration to those shown to be, or presumed to be, at-risk of infection and disease. In some African countries, while regional progress has been uneven, there are certain locations where real prospects for local interruption of transmission exist. Managing this transition requires reconsideration of some of the currently deployed diagnostic tools for surveillance, downward realignment of existing prevalence thresholds to trigger praziquantel treatment and better forecasting of future resourcing needed over and above annual treatment cycles. A key challenge is maintaining and if possible, expanding the current donation of praziquantel for school-aged children to presently overlooked groups, such as pre-school-aged children, then judging when appropriate to move from mass drug administration to more selective treatment protocols. Examples in this symposium will discuss and highlight ongoing research in undertaken in Africa, particularly in Cameroon, Uganda and Kenya to illustrate progress and challenges towards reaching WHO 2020 targets and beyond.

CHAIR

Russell Stothard
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

W. Evan Secor
Centers for Disease Control and Prevention, Atlanta, GA, United States

4 p.m.

CONTROL OF SCHISTOSOMIASIS IN AFRICA: UPDATING THE MAP ACROSS THE CONTINENT

Pauline Mwinzi
Expanded Special Project for Elimination of NTDs (ESPEN), Brazzaville, Democratic Republic of the Congo

4:30 p.m.

INVESTIGATING PREVENTIVE CHEMOTHERAPY NEEDS FOR CONTROL IF INTESTINAL SCHISTOSOMIASIS IN UPLANDS OF UGANDA: CONNECTING DISEASE MAPPING AND SNAIL/PARASITE ECOLOGY

Michelle C. Stanton
University of Lancaster, Lancaster, United Kingdom

4:45 p.m.

SPATIAL HETEROGENEITY OF INTESTINAL SCHISTOSOMIASIS IN KENYA AND NEEDS FOR FUTURE PRECISION MAPPING

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

5 p.m.

CONTROL OF SCHISTOSOMIASIS IN CAMEROON: TIME TO CHANGE TACTICS WITH PRECISION MAPPING

Louis-Albert Tchuem-Tchuente
Research Centre for Schistosomiasis & Parasitology, Yaounde, Cameroon

Special Session 106

Speed-Networking with the Experts

Sheraton - Armstrong Ballroom (8th Floor)

Tuesday, October 30, 5 p.m. - 6:45 p.m.

The sixth annual speed-networking session is organized by the five ASTMH subgroups: ASTMH Committee on Global Health (ACGH), the American Committee on Clinical Tropical Medicine and Travelers' Health (ACCTMTH/Clinical Group), the American Committee of Medical Entomology (ACME), the American Committee on Arthropod-Borne Viruses (ACAV) and the American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP). The session is designed to facilitate interactions between senior scientists, physicians and trainees in an informal setting in order to provide an array of important information and possible career paths in tropical medicine. During this session, students and young career scientists will have an opportunity to briefly meet experts who represent each of the subgroup fields, including scientists in global health, clinicians, epidemiologists, entomologists and basic research scientists. Experts will have a broad range of career experiences working in international posts, policy, federal government, and the military, among others. Experts will share information with students about their career choices, trajectories, challenges along the way, and how they see their work fitting into the larger tropical medicine arena. Students in this session will be designated to a subgroup to match their interests and current educational paths.

CHAIR

Koya C. Allen (ACGH)
U.S. European Command HQ, Stuttgart, Germany

Jessica Fairley (ACGH)
Emory University, Atlanta, GA, United States

Sarah Boudova (ACCTMTH/Clinical Group)
Indiana University, Bloomington, IN, United States

Austin T. Jones (ACCTMTH/Clinical Group)
Tulane University, New Orleans, LA, United States

Nunya Chotiwan (ACAV)
Colorado State University, Fort Collins, CO, United States

Andrew Golnar (ACME)
Texas A&M University, College Station, TX, United States

Maria Louisa Simoes (ACME)
Johns Hopkins University, Baltimore, MD, United States

Jenna Oberstaller (ACMCIP)
University of South Florida, Tampa, FL, United States

Michael Ferdig (ACMCIP)
University of Notre Dame, Notre Dame, IN, United States

Plenary Session 107

Plenary Session III: Commemorative Fund Lecture

Sheraton - Rhythms (2nd Floor)
Tuesday, October 30, 6:15 p.m. - 7 p.m.

CHAIR

Regina Rabinovich
Harvard T.H. Chan School of Public Health, Boston, MA, United States

COMMEMORATIVE FUND LECTURE: GLOBAL HEALTH DRUG DISCOVERY IN AFRICA: CHALLENGES AND OPPORTUNITIES



Kelly Chibale, PhD
South Africa Research Chair in Drug Discovery
Director, Drug Discovery and Development Centre, H3D
Director, SAMRC/UCT Drug Discovery and Development Research Unit

University of Cape Town (UCT)
Cape Town, South Africa

Dr. Chibale studied for his undergraduate degree in chemistry at the University of Zambia and proceeded to pursue his PhD degree in Synthetic Organic Chemistry at the University of Cambridge in the United Kingdom. This was followed by postdoctoral stints at the University of Liverpool in the United Kingdom and at the Scripps Research Institute in the United States. He was a Sandler Sabbatical Fellow at the University of California San Francisco, a U.S. Fulbright Senior Research Scholar at the University of Pennsylvania School of Medicine and a Visiting Professor at Pfizer in the United Kingdom. He is a full Professor of Organic Chemistry at UCT, a Tier 1 South Africa Research Chair in Drug Discovery, founding Director of the extramural South African Medical Research Council (SAMRC) Drug Discovery and Development Research Unit at UCT, and the Founder and Director of the UCT Drug Discovery and Development Centre H3D, Africa's first integrated drug discovery center. Dr. Chibale was recently appointed by the South African Minister of Health to serve on the newly established South African Health Products Regulatory Authority (SAHPRA) board. He previously served as member of the Medicines for Malaria Venture Expert Scientific Advisory Committee and the Expert Advisory Board of the United Kingdom's Department of Health Global Antimicrobial Resistance Innovation Fund. He was recently named one of *Fortune Magazine's* 50 World's Greatest Leaders for 2018.

Symposium 108

Tackling Outbreaks

Sheraton - Grand Ballroom D (5th Floor)
Tuesday, October 30, 7:15 p.m. - 9 p.m.

Ebola, influenza, Zika, cholera...outbreaks keep coming, often on top of complex humanitarian crises in areas of civil war and refugee movements. In a special session, open to the public, a panel of experts who shape and direct the global response to outbreaks will discuss current challenges in outbreak response and necessary future steps to keep the world safe. The format will be a brief introduction from each panelist followed by a moderated discussion and questions from the audience.

CHAIR

Daniel G. Bausch
UK Public Health Rapid Support Team, London, United Kingdom

PANEL DISCUSSION

Ray Arthur
Global Disease Detection Operations Center, Centers for Disease Control and Prevention, Atlanta, GA, United States

Ibrahima Soce Fall
Regional Emergency Director, Regional Office for Africa (AFRO), World Health Organization, Brazzaville, Republic of the Congo

Joanne Liu
President, MSF International, New York, NY, United States

Amanda McClelland
Senior Vice-President, Resolve to Save Lives, Prevent Epidemics Team, New York, NY, United States

Peter Salama
Director, Health Emergencies Program, World Health Organization, Geneva, Switzerland

Paul Spiegel
Director, Center for Humanitarian Health, Johns Hopkins University, Baltimore, MD, United States

Wednesday, October 31

Registration

Sheraton - Preservation Hall (2nd Floor)
Wednesday, October 31, 7 a.m. - 5 p.m.

Speaker Ready Room

Sheraton - Maurepas (3rd Floor)
Marriott - Mardi Gras ABC (3rd Floor)
Wednesday, October 31, 7 a.m. - 5 p.m.

TropStop- Student/Trainee Lounge

Sheraton - Lagniappe (2nd Floor)
Wednesday, October 31, 7 a.m. - 5 p.m.
Sponsored by Indiana University Ryan White Center for Pediatric Infectious Diseases & Global Health

This casual setting, designed with students, trainees and residents in mind (coffee, internet), is your place for a break from the fast-pace of the meeting and relax with colleagues and friends. Check out the "Career Chats," held in the TropStop. This will be your opportunity to meet professionals in the fields of tropical medicine and global health, who will share their personal career paths and answer your questions about the various bumps and forks in the road.

Meeting Sign-Up Room

Sheraton - Mid-City and Muses (8th Floor)
Wednesday, October 31, 7 a.m. - 10 p.m.

ASTMH Past Presidents Meeting

Sheraton - Nottoway (4th Floor)
Wednesday, October 31, 7 a.m. - 8 a.m.

Diploma Course Certification Committee Meeting

Sheraton - Crescent (4th Floor)
Wednesday, October 31, 7 a.m. - 8 a.m.

Scientific Program Committee Meeting

Sheraton - Armstrong Ballroom (8th Floor)
Wednesday, October 31, 7 a.m. - 8 a.m.

Press Room

Marriott-Audobon (5th Floor)
Wednesday, October 31, 7:45 a.m. - 5 p.m.

Scientific Session 109

Kinetoplastida: Diagnosis, Treatment and Vaccine Development

Sheraton - Rodrigue Gallery (1st Floor)
Wednesday, October 31, 8 a.m. - 9:45 a.m.

CHAIR

Nisha Garg
University of Texas Medical Branch, Galveston, TX, United States
Natalie M. Bowman
University of North Carolina-Chapel Hill, Chapel Hill, NC, United States

8 a.m. **1411**

NEUTROPHILS INFLUENCE ANTIGEN PRESENTATION DURING IMMUNE RESPONSE TO LIVE ATTENUATED LEISHMANIAL VACCINE

Parna Bhattacharya¹, Pradeep Dagur², Nevien Ismail¹, Kazuyo Takeda¹, Ranadhir Dey¹, Hira Nakhasi¹
¹*Food and Drug Administration, Silver Spring, MD, United States*, ²*National Institutes of Health, Rockville, MD, United States*

8:15 a.m. **1412**

PHARMACOKINETIC-PHARMACODYNAMIC ASSESSMENT OF THE SAFETY OF FEXINIDAZOLE FOR THE TREATMENT OF HUMAN AFRICAN TRYPANOSOMIASIS

James Watson¹, Nathalie Strub-Wourgraff², Antoine Tarral², Joel Tarning¹, Nicholas J. White¹
¹*Oxford University, Oxford, United Kingdom*, ²*Drugs for Neglected Diseases initiative, Geneva, Switzerland*

8:30 a.m. **1413**

INTERROGATING CHAGAS ANTIBODY RESPONSES WITH HIGH-THROUGHPUT PRECISION TOOLS: TOWARDS A COMPREHENSIVE CATALOG OF T. CRUZI ANTIGENS AND EPITOPES ACROSS AMERICA.

Alejandro D. Ricci¹, Janine Ramsey², Jaime Altcheh³, Norival Kesper Jr⁴, Melissa Nolan⁵, Patricio Diosque⁶, Juan C. Villar⁷, Carlos A. Buscaglia¹, Fernán Agüero¹
¹*Instituto de Investigaciones Biotecnológicas, UNSAM, San Martin, Provincia de Buenos Aires, Argentina*, ²*Instituto Nacional de Salud Pública, Tapachula, Chiapas, Mexico*, ³*Hospital de Niños Ricardo Gutiérrez, Ciudad Autónoma de Buenos Aires, Argentina*, ⁴*Instituto de Medicina Tropical, Universidade de São Paulo, São Paulo, Brazil*, ⁵*Baylor College of Medicine, Houston, TX, United States*, ⁶*Instituto de Patología Experimental, Facultad de Ciencias de la Salud, Salta, Argentina*, ⁷*Universidad Autónoma de Bucaramanga, Santander, Colombia*

(ACMCIP Abstract)

8:45 a.m. **1414**

EVALUATION OF A LOOP-MEDIATED ISOTHERMAL AMPLIFICATION (LAMP) KIT AS A MOLECULAR DIAGNOSTIC TEST FOR CONGENITAL CHAGAS DISEASE

Albert Picado¹, Susana A. Besuschio², Ismael Ibañez³, Israel Cruz¹, Alejandro Benatar², Montserrat Gállego⁴, Carme Muñoz⁵, Joseph M. Ndung'u¹, Alejandro G. Schijman², Maria D. Flores-Chávez²
¹*FIND, Geneva, Switzerland*, ²*Laboratorio de Biología Molecular de la Enfermedad de Chagas, INGEBI-CONICET, Buenos Aires, Argentina*, ³*Instituto de Salud Carlos III, Madrid, Spain*, ⁴*Facultat de Farmàcia, Universitat de Barcelona, Barcelona, Spain*, ⁵*Hospital de la Santa Creu i Sant Pau, Barcelona, Spain*

9 a.m.

1415

DEVELOPMENT OF A NOVEL BENZTHIAZOLE SCAFFOLD FOR CHAGAS DISEASE

Frederick S. Buckner¹, J. Robert Gillespie¹, Richard R. Tidwell², Donald A. Patrick², Pendem Nagendar¹, Andriy Buchynskyy¹, Zackary M. Herbst¹, Ranae M. Ranade¹, Michael H. Gelb¹
¹University of Washington, Seattle, WA, United States, ²University of North Carolina, Chapel Hill, NC, United States

(ACMCIP Abstract)

9:15 a.m.

1416

DISCOVERY AND FINE EPI TOPE MAPPING OF NOVEL SEROLOGY-BASED MARKERS FOR DIAGNOSIS OF CONGENITAL CHAGAS DISEASE USING HIGH-DENSITY PEPTIDE CHIPS

Leonel E. Bracco¹, Juan S. Mucci¹, Carlos A. Buscaglia¹, Oscar Campetella¹, Morten Nielsen¹, Valeria Tekiel¹, Guillermo Moscatelli², Samantha Moroni², Griselda Ballering², Jaime Altcheh², **Fernán Agüero**¹
¹Universidad Nacional de San Martín, San Martín, Argentina, ²Hospital de Niños Ricardo Gutiérrez, Ciudad Autónoma de Buenos Aires, Argentina

(ACMCIP Abstract)

9:30 a.m.

1417

MODELING AND SIMULATIONS OF FEXINIDAZOLE TREATMENT REGIMEN FOR HUMAN AFRICAN TRYPANOSOMIA BRUCEI GAMBIESE TRYPANOSOMIASIS (G-HAT) AND THEIR SUCCESSFUL CLINICAL APPLICATION IN ADULT AND CHILD PATIENTS

Virginie Gualano¹, Mathieu Felices¹, **Antoine Tarral**²
¹PhinC Development, Massy, France, ²Drugs for Neglected Diseases Initiative, Geneva, Switzerland

Symposium 110

Global Angiostrongyliasis: An Emerging Clinical Challenge

Sheraton - Waterbury (2nd Floor)

Wednesday, October 31, 8 a.m. - 9:45 a.m.

Angiostrongyliasis (rat lungworm disease) is a globally emerging, potentially serious nematode infection caused by *Angiostrongylus cantonensis*. Human infection was first documented in Taiwan in 1945 and has since spread through Southeast Asia to China, many of the Pacific Islands and Australia. More recently it has been reported in the southern United States and many countries in the Caribbean, Indian subcontinent, Central and South America, as well as Africa. Important outbreaks of angiostrongyliasis have been reported from several countries and increasing numbers of cases are being diagnosed in returned travelers from endemic areas. At least 33 cases in travelers have been reported in the literature since 2007. Undoubtedly, many more cases are unrecognized or underreported. Rats are the definitive hosts and human infection typically results from ingestion of raw or undercooked intermediate hosts (slugs or snails) or transport hosts (e.g. freshwater shrimps, frogs, land crabs and lizards). Salad vegetables and fruits contaminated with small, infected juvenile slugs or snails are another significant source of infection in many countries. Recently, additional sources of

infection due to presumed snail or slug contaminating have been identified, such as raw vegetable juices and kava. Historically, neuroangiostrongyliasis has been portrayed as a benign self-limited disease with rare serious complications. Clinical experience in Hawaii, however, suggests that infection may often be severe with long-term consequences, so a high index of suspicion is essential to making an early diagnosis.

CHAIR

Vernon L. Ansdell
University of Hawaii, John A. Burns School of Medicine, Honolulu, HI, United States

William L. Gosnell
University of Hawaii, John A. Burns School of Medicine, Honolulu, HI, United States

8 a.m.

ASPECTS OF ANGIOSTRONGYLIASIS IN SOUTHEAST ASIA

Kittisak Sawanyawisuth
Khon Kaen University, Khon Kaen, Thailand

8:20 a.m.

DIAGNOSTIC STRATEGIES FOR ANGIOSTRONGYLIASIS IN SOUTHEAST ASIA

Praphathip Eamsobhana
Siriraj Hospital, Mahidol University, Bangkok, Thailand

8:40 a.m.

EPIDEMIOLOGIC ASPECTS OF ANGIOSTRONGYLIASIS IN HAWAII

Sarah Y. Park
Hawaii Department of Health, Honolulu, HI, United States

9 a.m.

CLINICAL ASPECTS OF ANGIOSTRONGYLIASIS IN HAWAII

Gerald S. Murphy
University of Hawaii, John A. Burns School of Medicine, Honolulu, HI, United States

Scientific Session 111

Zika I

Sheraton - Rhythms (2nd Floor)

Wednesday, October 31, 8 a.m. - 9:45 a.m.

CHAIR

Aubree Gordon
University of Michigan, Ann Arbor, MI, United States

Paulina Andrade
University of California Berkeley, School of Public Health, Berkeley, CA, United States

8 a.m.

1418

COMPREHENSIVE INNATE IMMUNE PROFILING OF ZIKA CASES REVEALS A KEY ROLE OF MONOCYTES IN THE ACUTE PHASE OF INFECTION AND NO EFFECT OF PRIOR DENGUE VIRUS INFECTION ON THE INNATE IMMUNE RESPONSE

Daniela Michlmayr¹, Mayte Suárez-Fariñas², Eun-young Kim³, Adeeb Rahman⁴, Seunghye Kim-Schulze⁴, Guillermina Kuan⁵, Angel Balmaseda⁶, Steven M. Wolinsky³, Andrew Kasarskis², Eva Harris¹
¹University of California Berkeley, Berkeley, CA, United States, ²Department of Genetics and Genomic Sciences, Icahn School of Medicine at Mount

Sinai, New York, NY, United States, ³Division of Infectious Diseases, Feinberg School of Medicine, Northwestern University, Chicago, IL, United States, ⁴Department of Oncological Sciences, Tisch Cancer Institute and the Immunology Institute, Icahn School of Medicine at Mount Sinai, New York, NY, United States, ⁵Centro de Salud Sócrates Flores Vivas, Ministry of Health, Managua, Nicaragua, ⁶Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministry of Health, Managua, Nicaragua

8:15 a.m.

1419

RECENT PRIOR DENGUE VIRUS INFECTION PROTECTS AGAINST ZIKA IN A PEDIATRIC COHORT IN NICARAGUA

Aubree Gordon¹, Lionel Gresh², Sergio Ojeda², Leah C. Katzelnick³, Nery Sanchez², Juan Carlos Mercado⁴, Brenda Lopez², Douglas Elizondo², Raquel Burger-Calderon³, Josefina Coloma³, Guillermina Kuan⁵, Angel Balmaseda⁴, Eva Harris³

¹Department of Epidemiology, School of Public Health, University of Michigan, Ann Arbor, MI, United States, ²Sustainable Sciences Institute, Managua, Nicaragua, ³Division of Infectious Diseases and Vaccinology, School of Public Health, University of California Berkeley, Berkeley, CA, United States, ⁴Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministry of Health, Managua, Nicaragua, ⁵Centro de Salud Sócrates Flores Vivas, Ministry of Health, Managua, Nicaragua

8:30 a.m.

1420

EPITOPE TARGETS OF THE HUMAN ANTIBODY RESPONSE TO PRIMARY ZIKA VIRUS INFECTION

Matthew H. Collins¹, Huy Tu², Ciara Gimblet-Ochieng³, Guei-Jiun Alice Liou³, Ramesh Jadi³, Stefan Metz³, Ashlie Thomas³, Benjamin McElvany², Natalie Bowman³, Sylvia Becker-Dreps³, Filemon Bucardo⁴, Helen Lazear³, Sean Diehl², Aravinda de Silva³

¹Emory University, Atlanta, GA, United States, ²University of Vermont, Burlington, VT, United States, ³University of North Carolina, Chapel Hill, NC, United States, ⁴Universidad Nacional Autonoma de Nicaragua-Leon, Leon, Nicaragua

8:45 a.m.

1421

HOW CLOSE IS CLOSE? CHARACTERIZATION OF ZIKA AND DENGUE VIRUS CROSS-REACTIVE MEMORY B CELLS AND SERUM RESPONSES

Paulina Andrade¹, Ciara Gimblet-Ochieng², Faraz Modirian¹, Matthew Collins², Maritza Cárdenas¹, Magelda Montoya¹, Daniela Michlmayr¹, Guillermina Kuan³, Angel Balmaseda⁴, Josefina Coloma¹, Aravinda de Silva², Eva Harris¹

¹Division of Infectious Diseases and Vaccinology, School of Public Health, University of California Berkeley, Berkeley, CA, United States, ²Division of Infectious Diseases, University of North Carolina, Chapel Hill, NC, United States, ³Centro de Salud Sócrates Flores Vivas, Ministry of Health, Managua, Nicaragua, ⁴Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministry of Health, Managua, Nicaragua

9 a.m.

1422

PROSPECTIVE INVESTIGATION OF A COMMUNITY-BASED COHORT OF PREGNANT WOMEN BEFORE AND DURING THE ZIKA EPIDEMIC IN NORTHEAST BRAZIL: SILENT TRANSMISSION AND INFANT OUTCOMES

Juan P. Aguilar¹, Federico Costa¹, Nivison Nery Jr.¹, Joseph Lim², Claudia Gambrah², Gielson Sacramento³, Bruno Freitas⁴, Joseane Bouzon¹, Jamary Oliveira-Filho¹, Haritha Adhikarla², Magelda Montoya⁵, Elsie A. Wunder Jr², Athena Chin⁵, Mitermayer Reis³, Eva Harris⁵, Albert Ko²

¹Federal University of Bahia, Salvador, Brazil, ²Yale School of Public Health, New Haven, CT, United States, ³Oswaldo Cruz Foundation, Salvador, Brazil, ⁴Hospital Geral Roberto Santos, Salvador, Brazil, ⁵University of California, Berkeley, CA, United States

9:15 a.m.

1423

EVIDENCE OF SHORT-TERM CROSS-IMMUNITY BETWEEN DENGUE AND ZIKA VIRUSES INFERRED USING LONGITUDINAL SEROLOGICAL AND SURVEILLANCE DATA FROM FIJI, 2013-2017

Alasdair Henderson¹, Mike Kama², Van-Mai Cao-Lormeau³, Colleen Lau⁴, John Edmunds¹, Conall Watson¹, Adam Kucharski¹

¹Centre for the Mathematical Modelling of Infectious Diseases, London School of Hygiene & Tropical Medicine, London, United Kingdom, ²Communicable Disease Control, Ministry of Health, Suva, Fiji, ³Institut Louis Malarde, Tahiti, French Polynesia, ⁴University of Queensland, Brisbane, Australia

9:30 a.m.

1424

MAPPING REACTIVITY TO ZIKA VIRUS IN MEMORY B CELLS FOLLOWING DISTINCT ANTECEDENT FLAVIVIRUS EXPOSURES

Huy A. Tu¹, Matthew H. Collins², Guei-Jiun Liou², Ramesh S. Jadi², Aravinda M. De Silva², Sean A. Diehl¹

¹University of Vermont, Burlington, VT, United States, ²University of North Carolina, Chapel Hill, NC, United States

Symposium 112

The Spread of *Streptococcus* and the Urgent Need for a Vaccine

Sheraton - Grand Ballroom A/B (5th Floor)

Wednesday, October 31, 8 a.m. - 9:45 a.m.

Group A *streptococcus* is unofficially a neglected disease, but is responsible for the deaths of over 500,000 people each year. It is now the fourth biggest infectious disease killer (after TB, HIV and *pneumococcus*, and ahead of malaria). Most people are aware of the relatively benign conditions of *streptococcal tonsillitis* and pyoderma, but are unaware that these conditions can lead to invasive disease, with associated pathology, and rheumatic heart disease and associated pathology, which have high mortality rates. While streptococcal diseases affect people throughout all social structures, the impact is felt mostly amongst the lower socio-economic levels of society. In Australia, Indigenous populations, particularly in the northern tropical regions of the country, suffer the highest reported rates of rheumatic heart disease worldwide, while in Canada, there is an emerging epidemic of invasive streptococcal disease, particularly amongst First Nations peoples. In Brazil, RHD is a major cause of cardiac morbidity and mortality with a reported prevalence of 42 cases per 1,000 children and teenagers from socioeconomically disadvantaged schools. Vaccine candidates for *streptococcus* have been based mostly on the M-protein, a surface protein and virulence factor of *streptococcus* which expresses both aminoterminal serotypic determinants (of which there are over 200) and conserved epitopes at the carboxylterminus. The two main types of vaccines being developed are those that combine multiple serotypic determinants and those that rely on a conserved epitopes. Epitopes from other virulence factors have been combined with M protein epitopes or used alone as vaccine candidates. In 2007, the U.S. FDA

lifted an embargo on streptococcal clinical vaccine trials. Following this, vaccine research has been accelerating and this is a very prescient time for a symposium to summarize some of the exciting developments in the field and reflect on the emerging epidemics and the threats that they pose. A particularly exciting development is the establishment of a human challenge facility in Melbourne, where volunteers can be experimentally administered *streptococci* via the oro-pharyngeal route. This unique facility will enable vaccine candidates to be tested for efficacy at very early clinical stages of development. This facility, for which the entire vaccine community can have access, will significantly speed vaccine development. The latest developments in epidemiology, vaccine design and strategy and deliberate human challenge models will be presented by international leaders in these fields.

CHAIR

Michael F. Good
Griffith University, Gold Coast, Australia

Greg J. Tyrrell
University of Alberta and Provincial Laboratory for Public Health, Alberta Health Services, Edmonton, AB, Canada

8 a.m.

CURRENT GLOBAL EPIDEMIOLOGY OF INVASIVE GROUP A STREPTOCOCCAL INFECTIONS

Greg Tyrrell
Alberta Health Services, Edmonton, Canada

8:20 a.m.

BOOSTING AND BROADENING OF STREPTOCOCCAL IMMUNITY FOLLOWING NATURAL INFECTION OF MICE VACCINATED WITH A CRYPTIC EPITOPE OF GROUP A STREPTOCOCCUS: OVERCOMING IMMUNE RESISTANCE THROUGH VACCINATION

Manisha Pandey
Griffith University, Gold Coast, Australia

8:40 a.m.

PROGRESS TOWARDS A VACCINE TO PREVENT GROUP A STREPTOCOCCAL INFECTIONS

Luiza Guilherme
University of São Paulo, Sao Paulo, Brazil

9 a.m.

THE ROLE OF A CONTROLLED HUMAN INFECTION MODEL OF GROUP A STREPTOCOCCAL PHARYNGITIS IN VACCINE DEVELOPMENT

Andrew Steer
Royal Children's Hospital, Melbourne, Australia

Symposium 113

Ebola: Has the Tide Turned in Combating This Disease?

Sheraton - Grand Ballroom C (5th Floor)
Wednesday, October 31, 8 a.m. - 9:45 a.m.

Ebola and other filoviruses continue to be major public health threats, as shown by the 2013-16 outbreak in West Africa that saw up to 30,000 cases and over 11,000 deaths. Smaller outbreaks continue to occur, with two noted in the

Democratic Republic of the Congo in 2018. While the threat remains, the good news is that a combination of research advances and field experience bring the promise of new approaches and tools to combat this deadly disease. This symposium will highlight advances and remaining challenges to turn the tide against Ebola.

CHAIR

Daniel G. Bausch
UK Public Health Rapid Support Team, London, United Kingdom

Ian Crozier
National Institute of Allergy and Infectious Diseases/Integrated Research Facility, Fort Detrick, MD, United States

8 a.m.

ORGANIZING THE INTERNATIONAL RESPONSE

Zabulon Yoti
World Health Organization, Regional Office for Africa, Brazzaville, Republic of the Congo

8:20 a.m.

VACCINATIONS

Maria Henao-Restrepo
World Health Organization, Geneva, Switzerland

8:40 a.m.

THERAPEUTICS FOR EBOLA VIRUS DISEASE: UPDATE AND CHALLENGES IN THE FIELD

William Fischer
University of North Carolina, Chapel Hill, NC, United States

9 a.m.

LONGITUDINAL STUDIES IN SURVIVORS: UPDATES FROM THE PREVAIL STUDY IN LIBERIA

Mosoka Fallah
PREVAIL/NIH, National Public Health Institute of Liberia, Monrovia, Liberia

9:20 a.m.

THE FUTURE: INNOVATION FOR NEW TOOLS AND METHODS FOR OUTBREAK CONTROL

Olivier le Polain
United Kingdom Public Health Rapid Support Team, London, United Kingdom

Scientific Session 114

Global Health: Maternal, Child and Neonatal Health

Sheraton - Grand Ballroom D/E (5th Floor)
Wednesday, October 31, 8 a.m. - 9:45 a.m.

CHAIR

Renaud Becquet
University of Bordeaux, Inserm, Bordeaux Population Health Research Center, Bordeaux, France

David H. Hamer
Boston University, Center for Global Health and Development, Boston, MA, United States

8 a.m.

1425

HIGH RESOLUTION MAPPING OF GLOBAL CHILD MORTALITY

Roy Burstein¹, Nat Henry¹, Michael Collison¹, Chloe Shields¹, Aaron Osgood-Zimmerman¹, Annie Browne², Joshua Longbottom³, Simon Hay¹
¹University of Washington / IHME, Seattle, WA, United States, ²University of Oxford, Oxford, United Kingdom, ³Lancaster University, Lancaster, United Kingdom

8:15 a.m.

1426

CAUSES OF DEATH AMONG CHILDREN UNDER 5 YEARS AND STILLBIRTHS, CHILD HEALTH AND MORTALITY PREVENTION SURVEILLANCE (CHAMPS) NETWORK, DECEMBER 2016 - JUNE 2018

Pratima Raghunathan¹, Dianna Blau¹, Allan Taylor¹, Shabir Madhi², Dickens Onyango³, Inacio Mandomando⁴, Samba Sow⁵, Shams El Arifeen⁶, Sherif Zaki¹, Maureen Diaz¹, Timothy Morris⁷, Navit Salzberg⁸, Mischka Garell⁸, Emily Gurley⁹, Karen Kotloff¹⁰, Emily Zielinski-Gutierrez¹¹, Quique Bassat¹², Richard Chawana¹, Jeffrey Koplan¹³, Robert Breiman⁸
¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²University of Witwatersrand, Johannesburg, South Africa, ³Kisumu County Ministry of Health, Kisumu, Kenya, ⁴CISM, Manhica, Mozambique, ⁵Center for Vaccine Development, Bamako, Mali, ⁶International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ⁷Task Force for Global Health, Atlanta, GA, United States, ⁸Emory Global Health Institute, Atlanta, GA, United States, ⁹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ¹⁰Center for Vaccine Development, University of Maryland School of Medicine, Baltimore, MD, United States, ¹¹Centers for Disease Control and Prevention, Nairobi, Kenya, ¹²ISGlobal, Barcelona, Spain, ¹³Emory University, Atlanta, GA, United States

8:30 a.m.

1427

REAL-TIME UNDER-5 MORTALITY SURVEILLANCE, CHILD HEALTH AND MORTALITY PREVENTION SURVEILLANCE SYSTEM (CHAMPS), DECEMBER 2016-FEBRUARY 2018

Allan W. Taylor¹, Jennifer M. Swanson², Navit Salzberg³, Pratima L. Raghunathan¹, Shabir A. Madhi⁴, Richard Chawana⁴, Inacio Mandomando⁵, Quique Bassat⁶, Samba Sow⁷, Karen L. Kotloff⁸, Kevin Cain⁹, Victor Akelo¹, Shams El Arifeen¹⁰, Emily Gurley¹¹, Robert Breiman³, for the CHAMPS Network¹²
¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Centers for Disease Control and Prevention, PHI Fellowship, Atlanta, GA, United States, ³Emory Global Health Institute, Atlanta, GA, United States, ⁴MRC Respiratory and Meningeal Pathogens Research Unit, University of Witwatersrand, Johannesburg, South Africa, ⁵Centro de Investigação em Saúde da Manhiça (CISM), Maputo, Mozambique, ⁶ISGlobal, Barcelona Institute for Global Health, Hospital Clinic - Universitat de Barcelona, Barcelona, Spain, ⁷Center for Vaccine Development, Ministry of Health, Bamako, Mali, ⁸University of Maryland, Baltimore, MD, United States, ⁹Centers for Disease Control and Prevention, Kisumu, Kenya, ¹⁰International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ¹¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ¹²Child Health and Mortality Prevention Surveillance Network, Atlanta, GA, United States

8:45 a.m.

1428

MATERNAL FACTORS ASSOCIATED WITH PERINATAL MORTALITY SHOULD BE EASILY IDENTIFIED DURING ANTENATAL VISITS. THE 1000 DAYS COHORT STUDY IN RURAL NIGER

Anne Thomas¹, Deo Sibongwere², Maguy Daures¹, Benjamin Séri³, Nafissa Dan-Bouzoua⁴, Moumouni Kinda⁴, Claire Levy-Marchal⁴, Augustin Augier⁴, Valérie Briand¹, Susan Shepherd⁴, **Renaud Becquet**¹
¹University of Bordeaux, Inserm, Bordeaux Population Health Research Center, team IDLIC, UMR 1219, Bordeaux, France, ²Alliance for International Medical Action (ALIMA)/Bien Être de la Femme et de l'Enfant au Niger (BEFEN), Niamey, Niger, ³PACCI research programme, University Hospital of Treichville, Abidjan, Côte D'Ivoire, ⁴Alliance for International Medical Action (ALIMA), Dakar, Senegal

9 a.m.

1429

PREDICTING IN-HOSPITAL MORTALITY USING ROUTINE DATA TO GUIDE DECISION MAKING FOR ESSENTIAL NEONATAL CARE

Martin J. Aluvaala¹, Gary Collins², James Berkley³, Mike English⁴
¹University of Nairobi, Nairobi, Kenya, ²University of Oxford, Oxford, United Kingdom, ³KEMRI-Wellcome Trust, Kilifi, Kenya, ⁴KEMRI-Wellcome Trust, Nairobi, Kenya

9:15 a.m.

1430

ENVIRONMENTAL ENTERIC DYSFUNCTION AND OTHER FACTORS DURING EARLY CHILDHOOD ASSOCIATED WITH ATTAINED SIZE AT FIVE YEARS: FINDINGS FROM THE MAL-ED BIRTH COHORT STUDY

Stephanie Richard¹, Benjamin J. McCormick¹, Laura E. Murray-Kolb², Gwyneth O. Lee³, Jessica C. Seidman¹, Mustafa Mahfuz⁴, Tahmeed Ahmed⁴, Richard L. Guerrant⁵, William A. Petri, Jr⁵, Elizabeth T. Rogawski⁵, Eric Houpt⁵, Gagandeep Kang⁶, Estomih Mduma⁷, Margaret N. Kosek⁸, Aldo A. Lima⁹, Sanjaya K. Shrestha¹⁰, Ram K. Chandyo¹¹, Zulfiqar Bhutta¹², Pascal Bessong¹³, Laura E. Caulfield⁸
¹National Institutes of Health - Fogarty International Center, Bethesda, MD, United States, ²The Pennsylvania State University, University Park, PA, United States, ³University of Michigan, Ann Arbor, MI, United States, ⁴International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ⁵University of Virginia, Charlottesville, VA, United States, ⁶Christian Medical College, Vellore, India, ⁷Haydom Lutheran Hospital, Haydom, United Republic of Tanzania, ⁸Johns Hopkins University, Baltimore, MD, United States, ⁹Universidade Federal do Ceara, Fortaleza, Brazil, ¹⁰Armed Forces Research Unit, Kathmandu, Nepal, ¹¹Kathmandu Medical College, Kathmandu, Nepal, ¹²Aga Khan University, Karachi, Pakistan, ¹³University of Venda, Thohoyandou, South Africa

9:30 a.m.

1431

HOUSEHOLD-LEVEL FACTORS ASSOCIATED WITH CHILDHOOD GROWTH IN BANGLADESH: AN ANALYSIS OF THE MULTIPLE INDICATOR CLUSTER SURVEY, 2012-2013

J. Johanna Sanchez¹, Tahmeed Ahmed², Mustafa Mahfuz², Peter Sly¹, Kurt Z. Long³
¹University of Queensland, Brisbane, Australia, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ³Swiss Tropical and Public Health Institute, Basel, Switzerland

Symposium 115

Enhancing and Integrating Morbidity Management in LF Endemic Countries to Achieve Sustainability Development Goals

Marriott - La Galerie 1/2 (2nd Floor)

Wednesday, October 31, 8 a.m. - 9:45 a.m.

Achieving the sustainability development goals (SDG) is intricately and inseparably associated with addressing the strong relationship between poverty and morbidity due to NTDs. In particular, goals 1 (no poverty) and 3 (good health and well-being), will rely heavily on reducing the economic and social impact of disability caused by many neglected tropical diseases (NTD). Morbidity from lymphatic filariasis (LF) accounts for the highest burden of physical disability globally, especially when the mental health issues experienced by sufferers is considered. As the 2020 goals in the global program to eliminate lymphatic filariasis (GPELF) approach, and the focus moves toward achieving the recommended activities of morbidity management and disability prevention (MMDP), methods to increase

the effectiveness of interventions, integrate interventions across similar morbidities such as leprosy, buruli ulcer and podoconiosis, and scale up effective intervention to allow for integration into national health systems will be needed. This symposium aims to present novel ways to enhance and integrate MMDP in cross-cutting protocols that are transferable across cultural and economic borders and which are scalable at national health system levels.

CHAIR

Louise Kelly-Hope
Liverpool School of Tropical Medicine, Liverpool, United Kingdom
Janet Douglass
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

8 a.m.

ENHANCED LYMPHOEDEMA-CARE TO INCREASE THE EFFECTIVENESS OF COMMUNITY-BASED HOME-CARE IN PEOPLE WITH MODERATE TO SEVERE LYMPHOEDEMA IN BANGLADESH AND ETHIOPIA

Janet Douglass
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

8:20 a.m.

ADVANCES IN MICROVASCULAR AND RECONSTRUCTIVE SURGERY IN THE TREATMENT FILARIAL LYMPHOEDEMA AND HYDROCELE IN INDIA

Manokaran Gurusamy
Appollo Hospitals, Chennai, India

8:40 a.m.

CHALLENGES AND OPPORTUNITIES IN INTEGRATING SELF-CARE PRACTICES FOR LF, LEPROSY, BURULI ULCER, TRACHOMA AND CHRONIC DISEASES ACROSS AFRICA AND THE AMERICAS

Linda F. Lehman
American Leprosy Missions, Greenville, SC, United States

9 a.m.

SCALING SUSTAINABLE STRATEGIES FOR LF AND PODOCONIOSIS MORBIDITY MANAGEMENT TO NATIONAL LEVELS IN ETHIOPIA

Nebiu Negussu
Ethiopia Federal Ministry of Health, Addis Ababa, Ethiopia

Scientific Session 116

Malaria: Impact and Adaptation in Vector Control

Marriott - La Galerie 3 (2nd Floor)

Wednesday, October 31, 8 a.m. - 9:45 a.m.

CHAIR

Godwin Fuseini
Medical Care Development International, Malabo, Equatorial Guinea
Eleanore Sternberg
Pennsylvania State University, University Park, PA, United States

8 a.m.

1432

VECTOR BIONOMICS AND TRANSMISSION INTENSITIES OF MALARIA VECTORS ON BIKO ISLAND OVER 14 YEARS OF INTEGRATED VECTOR CONTROL

Godwin Fuseini¹, Wonder Philip Phiri¹, Guillermo Garcia², Raul Nguema Ncogo¹, Liberato Motobe¹, Carlos Cortes Falla¹, Christopher Schwabe²
¹Medical Care Development International, Malabo, Equatorial Guinea, ²Medical Care Development International, Silver Spring, MD, United States

8:15 a.m.

1433

ANNUAL INDOOR AND OUTDOOR ENTOMOLOGICAL INOCULATION RATES IN *AN. GAMBIAE*, *AN. COLUZZII*, AND *AN. ARABIENSIS* ACROSS FIVE ECOZONES OF NIGERIA

Petrus U. Inyama¹, Lazarus M. Samdi¹, Henry E. Nsa¹, Jesse C. Uneke², Andrew B. Yako³, Bala Mohammed⁴, Joel D. Akilah⁴, Atting A. Inyang⁵, Kehinde O. Popoola⁶, Auwal A. Barde⁷, Yahaya M. Abdullahi⁸, Joseph I. Okeke¹, Aklilu Seyoum⁹, Dereje Dengela¹⁰, Uwem Inyang¹¹, Jessica Kafuko¹¹, Bradford Lucas⁹, Pamela Dasher⁹, Laura Norris¹², Christen Fornadel¹², Jennifer Armistead¹², Mark Maire¹³, William Hawley¹⁴
¹U.S. President's Malaria Initiative (PMI) VectorLink Project, Abt Associates, Abuja, Nigeria, ²Ebonyi State University, Abakaliki, Nigeria, ³Department of Biological Sciences, Nasarawa State University, Keffi, Nigeria, ⁴Federal Ministry of Health, Abuja, Nigeria, ⁵Department of Medicine, University of Uyo, Uyo, Nigeria, ⁶Department of Zoology, University of Ibadan, Ibadan, Nigeria, ⁷Department of Biological Sciences, Abubakar, Tafawa Balewa University, Bauchi, Nigeria, ⁸Department of Biological Sciences, Usmanu Danfodiyo University, Sokoto, Nigeria, ⁹U.S. President's Malaria Initiative (PMI) VectorLink Project, Abt Associates, Bethesda, MD, United States, ¹⁰U.S. President's Malaria Initiative (PMI) VectorLink Project, Abt Associates, Bethesda, MD, United States, ¹¹PMI U.S. Agency for International Development (USAID), Abuja, Nigeria, ¹²U.S. PMI, United States Agency for International Development, Washington, DC, United States, ¹³PMI, Centers for Disease Control and Prevention (CDC), Division of Parasitic Disease and Malaria, Abuja, Nigeria, ¹⁴Entomology Branch, Centers for Disease Control and Prevention, Atlanta, GA, United States

8:30 a.m.

1434

REPLACEMENT OF INDOOR RESIDUAL SPRAYING "IRS" BY LONG LASTING INSECTICIDAL NETS "LLINS" AND SEASONAL MALARIA CHEMOPREVENTION "SMC" ASSOCIATED WITH CHANGES OF KEY ENTOMOLOGICAL INDICATORS OF MALARIA TRANSMISSION IN SOUTHERN MALI

Arthur Sowi¹, Chitan Keita¹, Youssouf Sinaba¹, Abdourhamane Dicko², Dereje Dengela³, Elie Bankineza¹, Jules Mihigo⁴, Kristen George⁵, Christen Fornadel⁵, Laura Norris⁵, Richard Oxborough⁶
¹United States Agency for International Development PMI AIRS project, Abt Associates, Bamako, Mali, ²Programme National de Lutte Contre le Paludisme, Bamako, Mali, ³United States Agency for International Development PMI AIRS project, Abt Associates, Bethesda, MD, United States, ⁴US President's Malaria Initiative, US Agency for International Development, Bamako, Mali, ⁵US President's Malaria Initiative, US Agency for International Development, Washington, DC, United States, ⁶United States Agency for International Development PMI AIRS project, Abt Associates, London, United Kingdom

8:45 a.m.

1435

THE BEHAVIORAL AND PHYSIOLOGICAL ADAPTATIONS OF MALARIAL MOSQUITOES SINCE 2000 AND CONSEQUENCES FOR PUBLIC HEALTH IMPACT IN AFRICA

Ellie Sherrard-Smith¹, Janetta Skarp¹, Andrew Beale², Christen Fornadel³, Laura Norris³, Thomas S. Churcher¹
¹Imperial College London, London, United Kingdom, ²University of Surrey, Surrey, United Kingdom, ³U.S. President's Malaria Initiative, United States Agency for International Development, Washington, DC, United States

9 a.m.

1436

SCREENING AND FIELD PERFORMANCE OF POWDER-FORMULATED INSECTICIDES ON EAVE TUBE INSERTS AGAINST PYRETHROID RESISTANT *ANOPHELES GAMBIAE*: AN INVESTIGATION INTO ACTIVES PRIOR TO A RANDOMIZED CONTROLLED TRIAL IN CÔTE D'IVOIRE

Welbeck A. Oumbouke¹, Innocent T. Zran², Antoine M. Barreaux³, Alphonsine Koffi², Eleanore D. Sternberg³, Matthew B. Thomas³, Raphael N'Guessan¹

¹London School of Hygiene & Tropical Medicine/ Institut Pierre Richet, Bouake, Côte D'Ivoire, ²Institut Pierre Richet, Bouake, Côte D'Ivoire, ³The Pennsylvania State University, Pennsylvania, PA, United States

9:15 a.m.

1437

IMPACT OF THE DUPLICATED P450 GENE, CYP6P9A AND CYP6P9B ON THE EFFECTIVENESS OF VARIOUS BED NETS AGAINST *ANOPHELES FUNESTUS*, A MAJOR MALARIA VECTOR IN AFRICA

Benjamin Menze, Murielle Wondji, Micareme Tchoupo, Charles Wondji LSTM Unit at Centre for research in infectious diseases (CRID), Yaounde, Cameroon

9:30 a.m.

1438

MALARIA VECTOR SURVEILLANCE - CAN VECTOR DATA GUIDE COUNTRY POLICY AND PROGRAMMATIC MALARIA CONTROL DECISIONS?

Tom Burkot¹, Tanya L. Russell¹, Min Myo², Abraham Mnzava³, Effie Espino⁴, Robert Farlow⁵

¹Australian Institute of Tropical Health and Medicine, Cairns, Australia, ²Asian Pacific Malaria Elimination Network, Singapore, Singapore, ³African Malaria Leaders Alliance, Dar es Salaam, United Republic of Tanzania, ⁴Asian Pacific Malaria Elimination Network, Singapore, Singapore, ⁵Robert Farlow Consulting LLC, Burkville, TX, United States

Scientific Session 117

Malaria: Biology and Pathogenesis

Marriott - La Galerie 4/5/6 (2nd Floor)

Wednesday, October 31, 8 a.m. - 9:45 a.m.

CHAIR

Camille Roesch
Institut Pasteur in Cambodia, Phnom Penh, Cambodia

Stephen Rogerson
University of Melbourne, Parkville Victoria, Australia

8 a.m.

1439

PLASMODIUM VIVAX ERYTHROCYTE BINDING PROTEIN GENE COPY NUMBER, BUT NOT DUFFY BINDING PROTEIN, IS SIGNIFICANTLY HIGHER IN MALAGASY ISOLATES THAN IN CAMBODIAN ONES

Camille Roesch¹, Jean Popovici¹, Sophalai Bin¹, Vorleak Run¹, Stéphanie Ramboarina², Chetan Eknath Chitnis³, Inès Vigan-Womas², Didier Ménard⁴
¹Malaria Molecular Epidemiology Unit, Institut Pasteur in Cambodia, Phnom Penh, Cambodia, ²Immunology of Infectious Diseases Unit, Institut Pasteur de Madagascar, Antananarivo, Madagascar, ³Malaria Parasite Biology and Vaccines Unit, Institut Pasteur Paris, Paris, France, ⁴Unité Biologie des Interactions Hôte-Parasite, Institut Pasteur Paris, Paris, France

8:15 a.m.

1440

ADULT SEVERE MALARIA PATIENTS WITH ACUTE KIDNEY INJURY PRESENT A DISTINCT VAR PROFILE

Maria Bernabeu¹, Prasad Babar², Fergal Duffy¹, Marina Vaz³, Jennifer Maki², Ligia Pereira², Anjali Mascarenhas², Maria Silveria³, Edwin Gomes³, Laura Chery², John Aitchison¹, Pradipsinh K. Rathod², Joseph D. Smith¹

¹Center for Infectious Disease Research, Seattle, WA, United States, ²Department of Chemistry, University of Washington, Seattle, WA, United States, ³Department of Medicine, Goa Medical College, Bambolim, Goa, India

(ACMCIP Abstract)

8:30 a.m.

1441

IDENTIFICATION OF HOST IMMUNOLOGICAL AND *PLASMODIUM* INTRINSIC FACTORS INFLUENCING GAMETOCYTES INFECTIVITY TO *ANOPHELES* MOSQUITOES IN THE FIELD

Dinkorma T. Ouologuem¹, Aminatou K. Kone¹, Antoine Dara¹, Nouhoum Diallo¹, Laurent Dembele¹, Fatoumata I. Ballo¹, Cheick Oumar P. Sangare¹, Boubou Sangare¹, Demba Dembele¹, Aboubecrin Haidara¹, Aliou Traore¹, Ogobara K. Doumbo², Abdoulaye A. Djimde¹

¹MEDRU / MRTC/ FAPH/ USTTB, Bamako, Mali, ²MRTC/ FMOS/ USTTB, Bamako, Mali

(ACMCIP Abstract)

8:45 a.m.

1442

FERROPTOSIS-LIKE SIGNALING FACILITATES A POTENT INNATE DEFENSE AGAINST *PLASMODIUM* INFECTION

Alexis Kaushansky
Center for Infectious Disease Research, Seattle, WA, United States

(ACMCIP Abstract)

9 a.m.

1443

IMPACT OF NATURALLY-ACQUIRED HEMOZOIN ON SEVERE MALARIAL ANEMIA AND ERYTHROPOIESIS AMONG CHILDREN RESIDENT IN *PLASMODIUM FALCIPARUM* HOLOENDEMIC REGION OF KENYA

Samuel B. Anyona¹, Evans Raballah², Angela O. Achieng¹, Caroline Ndege¹, Prakasha Kempaiah³, Collins Ouma¹, Douglas J. Perkins³

¹Maseno University, Maseno, Kenya, ²Masinde Muliro University of Science and Technology, Kakamega, Kenya, ³University of New Mexico, Albuquerque, NM, United States

9:15 a.m.

1444

NEUREGULIN-1 ATTENUATES EXPERIMENTAL CEREBRAL MALARIA PATHOGENESIS BY REGULATING ERBB4/AKT/ STAT3 SIGNALING

Mingli Liu
Morehouse School of Medicine, Atlanta, GA, United States

9:30 a.m.

1445

ANTIBODY TO PLASMODIUM FALCIPARUM VARIANT SURFACE ANTIGENS AND TRANSCRIPTION OF VAR GENES IN PAPUA NEW GUINEAN CHILDREN WITH SEVERE OR UNCOMPLICATED MALARIA

Stephen Rogerson¹, Priyanka Barua¹, Michael Duffy¹, Laurens Manning², Moses Laman³, Timothy Davis², Ivo Mueller⁴, Julie Simpson¹, James Beeson⁵

¹University of Melbourne, Parkville Victoria, Australia, ²University of Western Australia, Perth, Australia, ³Papua New Guinea Institute of Medical Research, Madang, Papua New Guinea, ⁴Walter and Eliza Hall Institute, Parkville Victoria, Australia, ⁵Burnet Institute, Melbourne, Australia

(ACMCIP Abstract)

Scientific Session 118

Malaria Elimination in Asia and Africa

Marriott - Mardi Gras D (3rd Floor)

Wednesday, October 31, 8 a.m. - 9:45 a.m.

CHAIR

Moses R. Kanya
Makerere University, Kampala, Uganda

Sarah Volkman
Harvard T.H. Chan School of Public Health, Boston, MA, United States

8 a.m.

1446

COORDINATED THAILAND MINISTRY OF PUBLIC HEALTH AND ROYAL THAI ARMY-US ARMY CIVILIAN-MILITARY RESPONSE TO A MALARIA OUTBREAK IN NORTHEAST THAILAND

K. Lausatianragit¹, P. Sudathip², N. Chaitaveep³, P. Nonkaew⁴, M. E. Roh⁵, M. Feldman⁶, C. Raseebut⁴, S. Tabprasit³, S. Sriwichai⁶, M. Arsanok⁶, W. Kuntawunginn⁶, S. Kitchakan⁷, P. Boonyarangka⁶, K. Phontham⁶, N. Uthaimongkol⁶, C. Mathavarat⁶, P. Saingam⁶, C. Chaisatit⁶, K. Kirakitvanich¹, P. Smith⁶, M. Wojnarski⁶, M. Spring⁶, D. Jiarakul⁴, W. Lausatianragit¹, A. Lover⁵, P. Pokpong³, M. Fukuda⁸, K. Jongsakul⁶, P. Prempree²

¹Sisaket Provincial Health Office, Sisaket Province, Thailand, ²Bureau of Vector Borne Disease, Department of Disease Control, Nonthaburi, Thailand, ³Research Division, Royal Thai Army Component, Armed Forces Research Institute of Medical Sciences Sisaket Provincial Health Office, Bangkok, Thailand, ⁴Office of Disease Prevention and Control 10, Ubon Ratchathani, Thailand, ⁵University of California San Francisco, San Francisco, CA, United States, ⁶US Army Medical Directorate, Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ⁷Bureau of Vector Borne Disease, Department of Disease Control, Bangkok, Thailand, ⁸Royal Thai Army Component, Armed Forces Research Institute of Medical Sciences Sisaket Provincial Health Office, Bangkok, Thailand

8:15 a.m.

1447

ASSESSMENT OF RESIDUAL MALARIA TRANSMISSION IN LETPAN VILLAGE, SOUTHERN RAKHINE STATE, MYANMAR

Ye H. Naing¹, Saw Lwin¹, Feliciano Monti², Khin Than Win¹, Thant Zin Aung¹, Oakar Soe¹, Saw Naung Naung¹, Sway Min Htet¹, May Aung Lin¹, San Kyawt Khine³, Zaw Lin³, Kyaw Myint Tun¹

¹University Research Co., LLC, Yangon, Myanmar, ²U.S. President's Malaria Initiative / United States Agency for International Development, Yangon, Myanmar, ³Vector-Borne Disease Control, Ministry of Health and Sports, Nay Pyi Taw, Myanmar

8:30 a.m.

1448

CASE BASED MALARIA SURVEILLANCE SYSTEMS IN ELIMINATION SETTINGS OF ZANZIBAR

Humphrey R. Mkali¹, Abdullah S. Ali², Abdul-wahid Al-mafazy², Mohamed H. Ali², Erik Reaves³, Naomi Kaspar⁴, George Greer⁴, Wahida S. Hassan², Joshua Yukich⁵, Willis Odek¹

¹MEASURE Evaluation, Dar Es Salaam, United Republic of Tanzania, ²Zanzibar Malaria Elimination Programme, Zanzibar, United Republic of Tanzania, ³US President's Malaria Initiative, US Centers for Disease Control and Prevention, Dar Es Salaam, United Republic of Tanzania, ⁴US President's Malaria Initiative, United States Agency for International Development, Dar Es Salaam, United Republic of Tanzania, ⁵Center for Applied Malaria Research and Evaluation, Tulane University School of Public Health and Tropical Medicine, New Orleans, LA, United States

8:45 a.m.

1449

ACCESSING HARD-TO-REACH POPULATIONS: FOREST INTERVENTIONS INCREASE CASE DETECTION IN PURSAT PROVINCE, CAMBODIA

Sokomar Nguon¹, Samphornarann Top¹, Linna Khorn¹, Sovann Ek¹, Kongmeng Seak¹, Yom An¹, Phally Chhun¹, Say Mang¹, Rida Slot², Gunawardena Dissanayake², Rekol Huy³, Pisal Heng³, Huch Chea³, Sochantha Tho³, Sovannaroth Siv³, Po Ly³, Dy Khoy⁴, Kimen Ke⁴, Manuth Peou⁴, Tamar Gabunia¹, Sharon Thangadurai¹, Paul Bacon¹, Neeraj Kak⁵, Soy Ty Kheang¹

¹University Research Co., LLC, Phnom Penh, Cambodia, ²President's Malaria Initiative, U.S. Agency for International Development, Phnom Penh, Cambodia, ³National Center for Parasitology, Entomology and Malaria Control, Phnom Penh, Cambodia, ⁴Provincial Health Department, Pursat, Cambodia, ⁵University Research Co., LLC, Chevy Chase, MD, United States

9 a.m.

1450

INDIVIDUAL MOVEMENT PATTERN ANALYSIS USING GPS TRACKERS TO FOREST WORKERS IN ACEH, INDONESIA

Iqbal Elyazar¹, Bimandra A. Djaafara¹, Farah Coutrier², Iska Zarlinda², Martha G. Silaen², Rintis Noviyanti², Abdul Fatah³, Maria E. Sumiwi⁴, Ferdinand D. Lihad⁴, Elvieda Sariwati⁵, Chris Cotter⁶, Jerry Jacobson⁶, Jennifer L. Smith⁶, Adam Bennett⁶

¹Eijkman-Oxford Clinical Research Unit, Jakarta, Indonesia, ²Eijkman-Institute for Molecular Biology, Jakarta, Indonesia, ³Aceh Provincial Health Office, Banda Aceh, Indonesia, ⁴United Nations Children's Fund, Jakarta, Indonesia, ⁵National Malaria Control Program, Ministry of Health, Jakarta, Indonesia, ⁶Malaria Elimination Initiative, Global Health Group, University of California San Francisco, San Francisco, CA, United States

9:15 a.m.

1451

THE IMPACT OF MALARIA CONTROL INTERVENTIONS ON MALARIA BURDEN IN THE HISTORICALLY HIGH MALARIA TRANSMISSION DISTRICT OF TORORO, UGANDA: A META-ANALYSES OF LONGITUDINAL STUDIES FROM 2007 TO 2017

Moses R. Kanya¹, Abel Kakuru², Mary K. Muhindo², Emmanuel Arinaitwe², Joanita Nankabirwa², John Rek², Victor Bigira³, James Kapsi², Humphrey Wanzira⁴, Jane Achan⁵, Paul Natureeba⁶, Anne Gasasira⁷, Prasanna Jagannathan⁸, Grant Dorsey⁹

¹Makerere University College of Health Sciences, Kampala, Uganda, ²Infectious Diseases Research Collaboration, Kampala, Uganda, ³Clinton Health Access Initiative, Kampala, Uganda, ⁴Ministry of Health, Kampala, Uganda, ⁵Medical Research Council Unit, The Gambia Unit, The Gambia, Gambia, ⁶Makerere University - Johns Hopkins University Research Collaboration, Kampala, Uganda, ⁷Malaria - African Leaders Malaria Alliance, Kampala, Uganda, ⁸Stanford University, Stanford, CA, United States, ⁹University of California San Francisco, San Francisco, CA, United States

Wednesday
October 31

9:30 a.m.

1452

APPLICATION OF PARASITE GENETIC RELATEDNESS TO IDENTIFY TRANSMISSION PATTERNS FOR MALARIA ELIMINATION EFFORTS IN RICHARD TOLL, SENEGAL

Sarah K. Volkman¹, Rachel F. Daniels¹, Stephen F. Schaffner², Yakou Dieye³, Gnagna Dieng³, Michael Hainsworth³, Fatou B. Fall⁴, Coumba Ndoffene Diouf⁵, Medoune Ndiop⁴, Moustapha Cisse⁶, Alioune Badara Gueye⁴, Oumar Sarr⁴, Philippe Guinot³, Awa B. Deme⁷, Amy K. Bei¹, Mouhamad Sy⁷, Bronwyn MacInnis², Caterina Guinovart⁸, Daniel L. Hartl⁹, Daouda Ndiaye¹⁰, Richard W. Steketee³, Dyann F. Wirth¹

¹Harvard T.H. Chan School of Public Health, Boston, MA, United States,

²Broad Institute of Massachusetts Institute of Technology and Harvard, Cambridge, MA, United States, ³PATH MACEPA, Seattle, WA, United States,

⁴Senegal National Malaria Control Program, Dakar, Senegal, ⁵District Medical Chief, Richard Toll District, Richard Toll, Senegal, ⁶Senegal National Malaria Control Program, Dakar, Senegal, ⁷Dantec Teaching and Research Hospital, Dakar, Senegal, ⁸PATH MACEPA/ISGlobal Collaboration, Barcelona, Spain, ⁹Harvard University, Cambridge, MA, United States, ¹⁰Cheikh Anta Diop University Health, Dakar, Senegal

Symposium 119

Predicting, Investigating and Ameliorating Global Epidemic Leptospirosis

Marriott - Mardi Gras EFGH (3rd Floor)

Wednesday, October 31, 8 a.m. - 9:45 a.m.

This symposium will be directly addressing this year's theme of ASTMH "there will be epidemics" by bringing internationally-recognized experts to discuss classic and newly emerging approaches to identifying, managing and ameliorating epidemic leptospirosis on a global basis. Leptospirosis is well known as an emerging neglected tropical disease with explosive, lethal potential, mimicking viral hemorrhagic fevers including Yellow Fever, Dengue and Ebola. Increasing numbers of outbreaks have been reported from Central and South America and Asia; the status of leptospirosis causing epidemics in Africa remains unknown and a gap in the field. Since the dawn of the 21st century, massive outbreaks have been reported in tropical countries and accelerating with climate change that brings on heightened flooding and hurricanes/monsoons. At the same time, countries where leptospirosis was dismissed as exotic are seeing cases due to increasing global adventure travel. This symposium will look at the epidemics of leptospirosis in four epidemiologically contrasting settings with an emphasis on recognition and the use of modern technologies to identify the source(s) of outbreaks towards better prevention in the future through new vaccine development and other approaches. Presentations will include: The 2017 leptospirosis outbreak in Puerto Rico after Hurricane Maria, and previous outbreaks, to describe flood and hurricane-related outbreaks and the threat of leptospirosis in an at-risk U.S. territory where arbovirus epidemics regularly occur. The ecology and leptospirosis in Brazil will be discussed as a model to investigate epidemics of leptospirosis as well as leptospirosis outbreaks worldwide. The application of molecular tools to the investigation of leptospirosis epidemics in Thailand will be discussed. Epidemic leptospirosis in Sri Lanka will be discussed, with clinical disease, diversity of leptospirosis and challenges in clinical care.

CHAIR

Joseph M. Vinetz

Yale School of Medicine, New Haven, CT, United States

Suneth Agampodi

Rajarata University of Sri Lanka, Saliyapura, Anuradhapura, Sri Lanka

8 a.m.

LEPTOSPIROSIS IN PUERTO RICO – PREVIOUS TRENDS AND 2017 POST-HURRICANE RESPONSE

Ilana Schafer

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

8:20 a.m.

APPLICATION OF GENOMIC TECHNIQUES TO LEPTOSPIROSIS EPIDEMIOLOGY IN THAILAND

Mathieu Picardeau

Institut Pasteur, Paris, France

8:40 a.m.

LEPTOSPIROSIS TRANSMISSION IN THE URBAN SLUM SETTING OF BRAZIL: GLOBAL GENERALIZATIONS FOR BURDEN OF DISEASE

Federico Costa

Ministerio de Saude, Fundacion Oswaldo Cruz, Salvador, Brazil

9 a.m.

CLINICAL, IMMUNOLOGICAL AND DIAGNOSTIC FEATURES OF EPIDEMIC LEPTOSPIROSIS IN SRI LANKA

Suneth Agampodi

Rajarata University of Sri Lanka, Saliyapura, Anuradhapura, Sri Lanka

Scientific Session 120

Mosquitoes - Biochemistry and Molecular Biology

Marriott - Balcony IJK (3rd Floor)

Wednesday, October 31, 8 a.m. - 9:45 a.m.

CHAIR

Patricia Y. Scaraffia

Tulane University, New Orleans, LA, United States

Hitoshi Tsujimoto

Texas A&M University, College Station, TX, United States

8 a.m.

1453

IMMUNITY AND MEMORY AGAINST MALARIA: AN ATLAS OF THE MOSQUITO IMMUNE SYSTEM AT SINGLE CELL RESOLUTION

Gianmarco Raddi¹, Carolina Barillas-Mury², Oliver Billker³

¹NIH / University of California Los Angeles / University of Cambridge /

Wellcome Trust Sanger Institute, Rockville, MD, United States, ²National

Institutes of Health, Rockville, MD, United States, ³Wellcome Trust Sanger

Institute, Cambridge, United Kingdom

(ACMCIP Abstract)

8:15 a.m.

1454

THE FEMALE REPRODUCTIVE PROTEIN MISO REGULATES TOLERANCE TO *PLASMODIUM FALCIPARUM* INFECTION IN *ANOPHELES GAMBIAE*

Perrine Marcenac¹, Adam South¹, Victoria A. Ingham², Evdoxia G. Kakani¹, Sara N. Mitchell¹, W. Robert Shaw¹, Daniel G. Abernathy¹, Serge R. Yerbanga³, Thierry Lefevre⁴, Abdoulaye Diabate³, Hilary Ranson², Flaminia Catteruccia¹

¹Harvard T. H. Chan School of Public Health, Boston, MA, United States, ²Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ³Institut de Recherche en Sciences de la Sante/Centre Muraz, Bobo-Dioulasso, Burkina Faso, ⁴Institut de Recherche pour le Developpement, Montpellier, France

8:30 a.m.

1455

GLOBAL MAPPING OF MIRNA-MRNA INTERACTIONS IN THE MALARIA MOSQUITO *ANOPHELES GAMBIAE*

Xiaonan Fu¹, Pengcheng Liu¹, George Dimopoulos², **Jinsong Zhu**¹
¹Virginia Tech, Blacksburg, VA, United States, ²Johns Hopkins University, Baltimore, MD, United States

8:45 a.m.

1456

NEW INSIGHTS INTO THE AMMONIA METABOLISM OF BLOOD-FED *AEDES AEGYPTI* MOSQUITOES

Patricia Y. Scaraffia¹, Thomas D. Horvath², Shai Dagan³, Philip L. Lorenzi², David H. Hawke²

¹Tulane University, New Orleans, LA, United States, ²University of Texas MD Anderson Cancer Center, Houston, TX, United States, ³Israel Institute for Biological Research, Ness Ziona, Israel

9 a.m.

1457

THE ROLE OF BIOFILM FORMATION IN THE MOSQUITOCIDAL ACTIVITY OF *CHROMOBACTERIUM SPECIES PANAMA*

Hannah J. MacLeod, Sarah M. Short, Raúl G. Saraiva, Eric P. Caragata, George Dimopoulos
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

9:15 a.m.

1458

NADPH IS CRITICALLY NEEDED FOR FECUNDITY AND INSECTICIDE DETOXIFICATION IN *ANOPHELES GAMBIAE*

Cody J. Champion, **Jiannong Xu**
New Mexico State University, Las Cruces, NM, United States

9:30 a.m.

1459

IRON TRANSPORTERS AND THEIR ROLES IN *AEDES AEGYPTI*

Hitoshi Tsujimoto¹, Michelle A. Anderson², Kevin M. Myles¹, Zach N. Adelman¹
¹Texas A&M University, College Station, TX, United States, ²Virginia Tech, Blacksburg, VA, United States

Scientific Session 121

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Worms and Trematodes - Molecular and Cellular Biology

Marriott - Balcony LMN (3rd Floor)

Wednesday, October 31, 8 a.m. - 9:45 a.m.

Supported with funding from the Burroughs Wellcome Fund

CHAIR

Meta Roestenberg
Leiden University Medical Center, Leiden, Netherlands

Thomas R. Unnasch
University of South Florida, Tampa, FL, United States

8 a.m.

2122

B CELLS ARE IMPORTANT DURING EARLY INFECTION IN SUPPORTING TH2 TYPE IMMUNE RESPONSES TO *TRICHURIS MURIS* INFECTION

Rinal Sahputra, Dominik Ruckerl, Kevin Couper, Andrew MacDonald, Werner Muller, Kathryn Else
Lydia Becker Institute for Immunology, University of Manchester, Manchester, United Kingdom

8:15 a.m.

1460

PIGGYBAC-MEDIATED STABLE INTEGRATIVE TRANSFECTION OF THE HUMAN FILARIAL PARASITE *BRUGIA MALAYI*

Canhui Liu¹, Amruta Mhashilkar¹, Johan Chabnon¹, Shulin Xu¹, Sara Lustigman², John Adams¹, **Thomas R. Unnasch**¹
¹University of South Florida, Tampa, FL, United States, ²New York Blood Center, New York, NY, United States

(ACMCIP Abstract)

8:30 a.m.

1461

CONTROLLED HUMAN INFECTION WITH SINGLE-SEX *SCHISTOSOMA MANSONI CERCARIAE*

Marijke Langenberg, Marie-Astrid Hoogerwerf, Jacqueline Janse, Janneke Kos-van Oosterhoud, Carola Feijt, Claudia de Dood, Munisha Ganesh, Arifa Ozir-Fazalakan, Yvonne Kruize, Beatrice Winkel, Gerdien Hardeman, Petra Verbeek-Menken, Martha van der Beek, Eric Brienen, Angela van Diepen, Paul Corstjens, Leo Visser, Lisette van Lieshout, Hermelijn Smits, Pauline Meij, Govert van Dam, Ron Hokke, Maria Yazdanbakhsh, **Meta Roestenberg**
Leiden University Medical Center, Leiden, Netherlands

(ACMCIP Abstract)

8:45 a.m.

1462

SCHISTOSOMES DO NOT AND CAN NOT OXIDIZE FATTY ACIDS

Michiel L. Bexkens¹, Mirjam M. Mebius¹, Martin Houweling², Jos F. Brouwers², Aloysius G. Tielens¹, **Jaap J. van Hellemond**¹
¹Erasmus University Medical Centre, Rotterdam, Netherlands, ²Utrecht University, Fac. Vet. Medicine, Utrecht, Netherlands

(ACMCIP Abstract)

Wednesday
October 31

9 a.m.

1463

PYRUVATE IS ESSENTIAL FOR WOLBACHIA-BRUGIA MALAYI SYMBIOSIS

Denis Voronin¹, Alexandra Grote², Elodie Ghedin², Thomas R. Unnasch³, Sara Lustigman¹

¹Lindsley F Kimball Research Institute, New York Blood Center, New York, NY, United States, ²Center for Genomics and Systems Biology, New York University, New York, NY, United States, ³University of South Florida, Tampa, FL, United States

9:15 a.m.

1464

EXTRACELLULAR VESICLES (EV) RELEASED FROM FILARIAL PARASITES ARE ENRICHED IN MTOR REGULATORY MICRORNAS

Sameha Tariq¹, Sasisekhar Bennuru¹, Abdel Elkahloun¹, Weiwei Wu¹, Sukhbir Kaur¹, Michael Kimber², Thomas B. Nutman¹, Roshanak Tolouei Semnani¹

¹National Institutes of Health, Bethesda, MD, United States, ²Iowa State University, Ames, IA, United States

(ACMCIP Abstract)

9:30 a.m.

1465

USING METABOLIC NETWORKS TO CHARACTERIZE THE SYMBIOSIS BETWEEN WOLBACHIA AND FILARIAL NEMATODES, AND IDENTIFY NOVEL DRUG TARGETS

Alexandra Grote¹, Dave Curran², Denis Voronin³, Sara Lustigman³, John Parkinson², Elodie Ghedin¹

¹New York University, New York, NY, United States, ²Hospital for Sick Children, Toronto, ON, Canada, ³New York Blood Center, New York, NY, United States

(ACMCIP Abstract)

Exhibit Hall Open

Sheraton - Napoleon Ballroom (3rd Floor)

Wednesday, October 31, 9:30 a.m. - 10:30 a.m.

Coffee Break

Sheraton - Napoleon Ballroom (3rd Floor) and Marriott - Grand Ballroom Foyer (3rd Floor)

Wednesday, October 31, 9:45 a.m. - 10:15 a.m.

Poster Session C Set-Up

Marriott - Grand Ballroom (3rd Floor)

Wednesday, October 31, 9:45 a.m. - 10:15 a.m.

Get a Shot. Give a Shot.®

Marriott - Grand Ballroom Foyer (3rd Floor)

Wednesday, October 31, 10 a.m. - 1 p.m.

Walgreens' Get a Shot. Give a Shot.® campaign has helped provide more than 20 million lifesaving vaccines to children in need around the world through the United Nations Foundation's Shot@Life campaign. Now, TropMed18 is giving attendees an opportunity to give back to the global health communities we serve. Receive your annual flu shot and provide lifesaving vaccines to families in developing countries. Immunizations are one of the world's biggest public health success stories, but not all communities have the same access to vaccines.

Poster Session C Viewing

Marriott - Grand Ballroom (3rd Floor)

Wednesday, October 31, 10:15 a.m. - Noon

Scientific Session 122

Kinetoplastida: Epidemiology and Diagnosis

Sheraton - Rodrigue Gallery (1st Floor)

Wednesday, October 31, 10:15 a.m. - Noon

CHAIR

Caryn Bern

University of California San Francisco, San Francisco, CA, United States

Shaden Kamhawi

National Institutes of Health, Bethesda, MD, United States

10:15 a.m.

1466

TRIATOMINE VECTORS, TRYPANOSOMA CRUZI STRAINS, AND CARDIAC ABNORMALITIES ASSOCIATED WITH NATURALLY-INFECTED DOGS ACROSS THE US

Alyssa C. Meyers¹, Julia Purnell¹, Megan Ellis², Lisa Auckland¹, Marvin Meinders³, John Sanders³, Ashley Saunders¹, Sarah Hamer¹

¹Texas A&M University, College Station, TX, United States, ²Colorado State University, Fort Collins, CO, United States, ³Department of Homeland Security, Washington, DC, United States

10:30 a.m.

1467

GENDER BIAS IN VISCERAL LEISHMANIASIS: NATURE OR NURTURE?

Kristien Cloots¹, Sakib Burza², Paritosh Malaviya³, Eppo Hasker¹, Sangeeta Kansal³, Jaya Chakravarty³, Shyam Sundar³, Marleen Boelaert¹

¹Institute of Tropical Medicine Antwerp, Antwerp, Belgium, ²Médecins Sans Frontières, New Delhi, India, ³Institute of Medical Sciences, Varanasi, India

10:45 a.m.

1468

QRS SCORE DISTRIBUTION AMONG CHAGAS CARDIOMYOPATHY PATIENTS OF VARIOUS SEVERITIES

Brandon Mercado¹, Virginia Cooper², Paula Carballo³, Freddy Tinajeros², Edith Malaga¹, Lola Telleria³, Gustavo Duran⁴, Margot Duran³, Marcelo Cuellar⁵, Daniel Alyesmerni³, Raquel Marcus³, Manuela Verastegui¹, Caryn Bern⁶, Robert H Gilman²

¹Infectious Diseases Research Laboratory, Department of Cellular and Molecular Sciences, Universidad Peruana Cayetano Heredia, Lima, Peru, ²Department of International Health, Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States, ³A.B Prisma, Santa Cruz, Plurinational State of Bolivia, ⁴San Juan de Dios Hospital, Santa Cruz, Plurinational State of Bolivia, ⁵San Juan de Dios Hospital, Santa Cruz, Plurinational State of Bolivia, ⁶Department of Epidemiology and Biostatistics, University of California San Francisco, San Francisco, CA, United States

11 a.m.

1469

IGG SUBCLASSES AND CONGENITAL TRANSMISSION OF CHAGAS DISEASE

Cristian Roca¹, Edith S. Malaga¹, Billy H. Scola², Manuela R. Verastegui¹, Edward Valencia¹, Maria del Carmen Mendiña³, Natalie Bowman⁴, Freddy Tinajeros², Robert H. Gilman⁵, Working Group Congenital Chagas²

¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²Asociacion Benefica PRISMA, Lima, Peru, ³Maternity Hospital, Santa Cruz, Plurinational State of Bolivia, ⁴North Carolina University, North Carolina, NC, United States, ⁵Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD, United States

11:15 a.m.

1470

COMPARISON OF TWO APPROACHES TO ACTIVE CASE FINDING OF SLEEPING SICKNESS IN 2 DISTRICTS IN THE DEMOCRATIC REPUBLIC OF THE CONGO

Yves Claeys¹, Alain Mpanya², Rian Snijders¹, Alain Fukinsia², Marleen Boelaert¹, Erick Miaka², Epco Hasker¹

¹Institute of Tropical Medicine Antwerp, Antwerp, Belgium, ²Programme National de Lutte contre la Trypanosomiase Humaine Africaine, Kinshasa, Democratic Republic of the Congo

11:30 a.m.

1471

DISTRIBUTION AND ENVIRONMENTAL RISK FACTORS ASSOCIATED TO CHAGAS CARDIOMYOPATHY IN BOLIVIA

Brandon Mercado¹, Ximena Porcasi², Monica Pacoricona³, Virginia Cooper⁴, Paula Carballo⁵, Freddy Tinajeros⁴, Lola Telleria⁵, Gustavo Duran⁵, Edith Malaga¹, Eliana Saenza⁵, Jorge Flores⁵, Raquel Marcus⁵, Daniel Alyesmerni⁵, Manuela Verastegui¹, Caryn Bern⁶, Robert H Gilman⁴

¹Infectious Diseases Research Laboratory, Department of Cellular and Molecular Sciences, Universidad Peruana Cayetano Heredia, Lima, Peru, ²Department of Epidemiology and Spatial application, CONAE, Cordoba, Argentina, ³Ministry of Health, Cochabamba, Plurinational State of Bolivia, ⁴Department of International Health, Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States, ⁵A.B Prisma, Santa Cruz, Plurinational State of Bolivia, ⁶Department of Epidemiology and Biostatistics, University of California—San Francisco, San Francisco, CA, United States

11:45 a.m.

1472

IMPACT OF HOUSING COMPOSITION ON DOMESTIC TRIATOMINE EXPOSURE RISK: EPIDEMIOLOGIC INVESTIGATION IN WEST TEXAS REGION ALONG THE UNITED STATES - MEXICO BORDER

Rodion Gorchakov¹, Sarah M. Gunter¹, Kyndall Dye-Braumuller², Rebecca M. Berry¹, Raymond Skiles³, Kristy O. Murray¹, Melissa S. Nolan¹

¹Baylor College of Medicine and Texas Children's Hospital, Houston, TX, United States, ²Harris County Public Health, Houston, TX, United States, ³National Park Service, Big Bend National Park, TX, United States

Symposium 123

Ethics in Tropical Public Health Today: Issues in NTDs

Sheraton - Waterbury (2nd Floor)

Wednesday, October 31, 10:15 a.m. - Noon

Neglected tropical diseases (NTDs) are inseparable from the ethical dimensions of the actions, decisions, and structural factors that serve to perpetuate – and eliminate – them. In an effort to achieve World Health Organization (WHO) targets for NTD control and elimination, the NTD community has focused primarily on technical solutions. This has resulted in tremendous progress. However, technical solutions are not always sufficient, particularly when stakeholders regard the ethical dimensions of interventions and policy decisions from different perspectives. In particular, stakeholders weigh risks (potential maleficence) and benefits (beneficence) differently, based on personal experience, their individual roles (e.g., researcher or public health official), and many other factors. Arguably, ethical considerations, rather than technical challenges, now constitute the primary barrier to realizing WHO targets for elimination of lymphatic

filariasis and onchocerciasis, where the potential harm of recommended mass drug treatment (related to ivermectin-triggered encephalopathy and ocular damage from triple-drug therapy containing DEC, respectively), in the eyes of some, outweigh benefits. Similarly, opinions differ regarding whether enough is known to ethically scale up post-exposure prophylaxis for leprosy. Views on both sides of these debates appear to be hardening. Some in the community – particularly clinicians who have been responsible for the care of affected persons – argue that current risk is unacceptable, whereas others consider the benefits of achieving the WHO targets too important to ignore. In general, these positions are expressed without clarity on ethical principles or underlying assumptions. This symposium is intended to: 1) increase awareness of the ethical dimensions of tropical medicine, particularly for NTDs; 2) provide frameworks for considering ethical issues in these settings; 3) illuminate underlying assumptions and biases related to ethical challenges in tropical medicine; and 4) highlight the need for further work in this area.

CHAIR

Charles D. Mackenzie

Task Force for Global Health, Decatur, GA, United States

David Addiss

Task Force for Global Health, Decatur, GA, United States

10:15 a.m.

ETHICAL CONSIDERATIONS IN NTD PROGRAMS ADDRESSED THROUGH PREVENTIVE CHEMOTHERAPY

David Addiss

Task Force for Global Health, Decatur, GA, United States

10:30 a.m.

ETHICAL ISSUES IN CONDUCTING RESEARCH IN ENDEMIC COUNTRIES - AN AFRICAN PERSPECTIVE

Mwele Malecela

NIMR, Dar es Salaam, United Republic of Tanzania

10:45 a.m.

ETHICAL CONSIDERATIONS AND APPROACHES TO TRIPLE-DRUG MASS TREATMENT FOR LYMPHATIC FILARIASIS IN AFRICA - A RESEARCHER'S PERSPECTIVE

Chris King

Case Western Reserve University, Cleveland, OH, United States

11 a.m.

MOTIVATIONS, HUMAN CONSIDERATIONS AND ETHICAL ISSUES AFFECTING COMMUNITY DRUG DISTRIBUTORS IN NTD CONTROL PROGRAMS

Alison Krentel

London School of Hygiene & Tropical Medicine and Bruyere Research Institute, Ottawa, ON, Canada

11:15 a.m.

THE ETHICAL ISSUES ASSOCIATED WITH ACHIEVING UNIVERSAL HEALTH CARE IN THE TROPICS

Charles D. Mackenzie

Task Force for Global Health, Decatur, GA, United States

Wednesday
October 31

Scientific Session 124

Zika II

Sheraton - Rhythms (2nd Floor)

Wednesday, October 31, 10:15 a.m. - Noon

CHAIR

Anna S. Jaeger

University of Wisconsin Madison, Madison, WI, United States

October Michael Sessions

Duke-NUS, Singapore, Singapore

10:15 a.m.

1473

IMPACT OF EXTRINSIC INCUBATION TEMPERATURE ON ZIKA VIRUS POPULATION DIVERSITY IN Aedes MOSQUITOES

Reyes Murrieta, Selene Garcia-Luna, Claudia Rückert, Gareth Halladay, James Weger-Lucarelli, Joseph Fauver, Alex Gendernalik, Deedra Murrieta, Michael Young, Gregory Ebel

Colorado State University, Fort Collins, CO, United States

10:30 a.m.

1474

INTRAHOST DIVERSITY OF ZIKA VIRUS IN BLOOD, URINE AND SALIVA OVER TIME IN AN INDEX CLUSTER STUDY IN NICARAGUA

October Michael Sessions¹, Raquel Burger-Calderon², Paola Florez de Sessions³, Collins Wenhan Chu³, Andreas Wilm³, Rachel Phu⁴, Eliza Ho³, Xin Mei Ong¹, Guillermina Kuan⁵, Angel Balmaseda⁶, Eng Eong Ooi¹, Eva Harris²

¹Duke-Nus, Singapore, Singapore, ²Division of Infectious Diseases and Vaccinology, School of Public Health, University of California Berkeley, Berkeley, CA, United States, ³Genome Institute of Singapore, A*STAR, Singapore, Singapore, ⁴School of Biological Sciences, Nanyang Technological University, Singapore, Singapore, ⁵Health Center Sócrates Flores Vivas, Ministry of Health, Managua, Nicaragua, ⁶Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministry of Health, Managua, Nicaragua

10:45 a.m.

1475

A ZIKA VIRUS MUTATION THAT ASSOCIATES WITH FETAL DEATH IN RHESUS MACAQUES REDUCES TRANSMISSION BY Aedes Aegypti MOSQUITOES

Danilo E. Lemos¹, Nathan D. Grubaugh², Anil Singapur¹, Konstantin Tsetsarkin³, Koen K. Van Rompay⁴, Charles Y. Chiu⁵, Kristian G. Andersen², Lark L. Coffey¹

¹University of California, Davis, School of Veterinary Medicine, Davis, CA, United States, ²The Scripps Research Institute, San Diego, CA, United States, ³National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, ⁴University of California, Davis, California National Primate Research Center, Davis, CA, United States, ⁵University of California, San Francisco, School of Medicine, San Francisco, CA, United States

11 a.m.

1476

INTERNATIONAL TRAVELERS AND VIRUS GENOMES REVEAL 'HIDDEN' ZIKA VIRUS TRANSMISSION DURING THE EPIDEMIC

Nathan D. Grubaugh¹, Sharada Saraf², Amanda L. Tan³, Karthik Gangavarapu², Andrea Morrison⁴, Danielle Stanek⁴, Blake Scott⁴, Kirtana Ramadugu⁴, Vanessa Landis⁴, Alexander Watts⁵, Michael Wiley⁶, Stephen White⁴, Karla Prieto⁶, Glenn Oliveira², Nathaniel L. Matteson², Gustavo Palacios⁶, Lauren Gardner⁷, Kamran Khan⁵, Jason T. Ladner⁸, Sharon Isern³, Scott F. Michael³, Kristian G. Andersen²

¹Yale University, New Haven, CT, United States, ²The Scripps Research Institute, San Diego, CA, United States, ³Florida Gulf Coast University, Fort Myers, FL, United States, ⁴Florida Department of Health, Miami, FL, United States, ⁵St. Michael's Hospital, Toronto, ON, Canada, ⁶US Army Research

Institute of Infectious Diseases, Frederick, MD, United States, ⁷University of New South Wales, Sydney, Australia, ⁸Northern Arizona University, Flagstaff, AZ, United States

11:15 a.m.

1477

ZIKA VIRUS OF BOTH AFRICAN AND ASIAN LINEAGES CAUSE FETAL HARM IN A VERTICAL TRANSMISSION MODEL

Anna S. Jaeger¹, Reyes M. Murrieta², Heather A. Simmons¹, Andres Mejia¹, Michael Fritsch¹, Lea Goren¹, Gregory D. Ebel², Thomas C. Friedrich¹, Matthew T. Aliota¹

¹University of Wisconsin-Madison, Madison, WI, United States, ²Colorado State University, Fort Collins, CO, United States

11:30 a.m.

1478

ANTI-ZIKA VIRUS ANTIBODIES MODULATE VIRUS TRANSPORT ACROSS PLACENTAL CELL MONOLAYERS AND SUBSEQUENT INFECTION OF FC-GAMMA RECEPTOR-BEARING CELLS

Milena Dimitrova¹, Henry Puerta-Guardo¹, Takako Tabata², Matthew Pettit², Chunling Wang¹, Davide Corti³, Lenore Pereira², Eva Harris¹

¹Division of Infectious Diseases and Vaccinology, School of Public Health, University of California Berkeley, Berkeley, CA, United States, ²Department of Cell and Tissue Biology, School of Dentistry, University of California San Francisco, San Francisco, CA, United States, ³Humabs SA, a subsidiary of Vir Biotechnology, Bellinzona, Switzerland

11:45 a.m.

1479

MATERNAL DENGUE ANTIBODIES AND RISK FOR CONGENITAL ZIKA SYNDROME-ASSOCIATED MICROCEPHALY

Nivison R. Nery Jr.¹, Federico Costa¹, Adeolu Aromolaran², Jaqueline S. Cruz³, Manoel Sarno⁴, Bruno Freitas⁴, Adriana Mattos⁴, Gustavo Baltazar⁴, Kleber Pimentel⁴, Ricardo Khouri³, João R. Maltez⁴, Jamarly Oliveira-Filho¹, Danielle B. Oliveira⁵, Edison L. Durigon⁵, Daniele F. Henriques⁶, Pedro F. Vasconcelos⁶, Nikos Vasilakis⁷, Antonio R. Almeida¹, Mitermayer G. Reis³, Albert I. Ko²

¹Federal University of Bahia, Salvador, Brazil, ²Yale School of Public Health, New Haven, CT, United States, ³Oswaldo Cruz Foundation, Brazilian Ministry of Health, Salvador, Brazil, ⁴Hospital Geral Roberto Santos, Salvador, Brazil, ⁵University of São Paulo, São Paulo, Brazil, ⁶Evandro Chagas Institute, Ananindeua, Brazil, ⁷University of Texas Medical Branch, Galveston, TX, United States

Symposium 125

Reducing Cholera Illness and Deaths in the Most Vulnerable Populations

Sheraton - Grand Ballroom A/B (5th Floor)

Wednesday, October 31, 10:15 a.m. - Noon

Despite advances in access to safe water, sanitation and hygiene facilities (WASH), and oral cholera vaccines, cholera remains a global threat. The annual global burden of cholera is estimated at around 2.9 million cases, resulting in 95,000 deaths. Due to several large, protracted cholera outbreaks, including Yemen, South Sudan, Tanzania, and the Democratic Republic of Congo, these estimates may be far exceeded in 2018. Certain special populations and vulnerable groups are at a higher risk of morbidity and mortality from cholera compared with the general public. In particular, those with pre-existing conditions such as pregnancy and severe acute malnutrition (SAM) are fragile populations in whom cholera

is difficult to detect and to manage due to manifestations of their underlying condition and opportunistic infections. Groups with inconsistent or poor access to adequate WASH and rapid medical attention, such as populations displaced by conflict and prisoners, are also at risk for acquiring cholera and for complications from the disease. This symposium will discuss cholera in these vulnerable and high-risk populations and challenges in disease detection, response, and control. Furthermore, it will highlight how cholera surveillance, case management, and preparedness trainings can be adapted and specialized for these populations at greatest risk. In October 2017, the Global Task Force on Cholera Control (GTFCC) partners launched an initiative titled Ending Cholera: A Global Roadmap to 2030, with the objectives to reduce by 90 percent the number of deaths from cholera worldwide and to eliminate the disease in at least 20 countries by 2030. The session will open with a description and update of the GTFCC Cholera Roadmap. Presentations describing cholera in vulnerable populations will then follow given by experts from various organizations.

CHAIR

Rupa Narra
Baylor College of Medicine and Texas Children's Hospital, Houston, TX, United States

Louise C. Ivers
Massachusetts General Hospital Center for Global Health, Boston, MA, United States

10:15 a.m. OVERVIEW OF THE GLOBAL TASK FORCE ON CHOLERA CONTROL ENDING CHOLERA ROADMAP

Dominique Legros
World Health Organization, Geneva, Switzerland

10:30 a.m. CHOLERA IN SEVERE ACUTE MALNUTRITION

Rupa Narra
Baylor College of Medicine and Texas Children's Hospital, Houston, TX, United States

10:45 a.m. CHOLERA IN PREGNANCY

Iza Ciglenecki
Médecins Sans Frontières Switzerland, Geneva, Switzerland

11 a.m. DOUBLE JEOPARDY: CHOLERA OUTBREAKS IN PRISONS

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

11:15 a.m. CHOLERA IN POPULATIONS DISPLACED BY CONFLICT

Natalie Roberts
Médecins Sans Frontières, Paris, France

Symposium 126

Recent Advances in Viral Hemorrhagic Fever Research

Sheraton - Grand Ballroom C (5th Floor)
Wednesday, October 31, 10:15 a.m. - Noon

The 2013-2016 West African Ebola Virus Outbreak highlighted the potential impact of viral hemorrhagic fevers (VHFs) to public health around the world. This increased awareness led to a rapid growth in VHF research. While much of this work focused on Ebola Virus Disease, including clinical management and vaccine development, much remains unknown about other VHFs. These gaps in knowledge include endemic VHFs, such as Lassa fever, and epidemic VHFs, such as Crimean-Congo Hemorrhagic Fever and Rift Valley Fever. These diseases continue to pose a significant health care burden throughout sub-Saharan Africa and Asia. This symposium is designed to update attendees on recent advances in Rift Valley Fever, Crimean-Congo Hemorrhagic Fever, and Lassa Fever as well as current approaches to the treatment of acutely ill VHF patients.

CHAIR

John S. Schieffelin
Tulane University, New Orleans, LA, United States

Daniel Bausch
UK Public Health Rapid Support Team, London, United Kingdom

10:15 a.m. RECENT ADVANCES IN CRIMEAN-CONGO HEMORRHAGIC FEVER

Thomas E. Fletcher
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

10:30 a.m. NEW INSIGHTS INTO RIFT VALLEY FEVER

Desiree LaBeaud
Stanford University, Stanford, CA, United States

10:50 a.m. A NEW APPROACH TO THE TREATMENT OF VHFS

David Brett-Major
Uniformed Services University, Bethesda, MD, United States

11:10 a.m. UNRAVELING LASSA FEVER EPIDEMIOLOGY

John S. Schieffelin
Tulane University, New Orleans, LA, United States

Symposium 127

Bumps in the Road to MDA-Based Schistosomiasis Control: Why Some Regions Will (and Others Will Not) Reach the 2020 or 2025 WHO Roadmap Goals

Marriott - La Galerie 1/2 (2nd Floor)
Wednesday, October 31, 10:15 a.m. - Noon

For global control of the disease schistosomiasis, the World Health Organization (WHO) recommends delivery of the anti-helminthic drug, praziquantel, via mass drug administration (MDA), with attempts at local elimination where possible. Unlike the very effective MDA experience obtained for other helminthic NTDs such as onchocerciasis and lymphatic filariasis, there remain significant concerns about the feasibility of schistosomiasis control using MDA alone. Recent experience indicates that praziquantel MDA

has been unable to interrupt schistosomiasis transmission in many endemic areas, even after a decade or more of repeated MDA. This failure to disrupt transmission has often been marked by a significant rebound of infection prevalence following termination of MDA. The highly uneven landscape distribution of suitable intermediate host snail habitat combined with weather- and climate-related seasonal differences in snail abundance mean that there is often a quite varied patchwork of efficient transmission zones within any given region slated for schistosomiasis control. Understanding the mechanisms that drive infection rebound is crucial for the development and implementation of more efficient control strategies in the near future. Rapid rebound of parasite burden following treatment serves to impede long-term progress towards elimination goals, and will necessitate additional MDA effort and/or introduction of complementary environmental control measures to achieve parasite elimination. This symposium will discuss the critical problem of obtaining control in persistently high prevalence areas that are detected in the face of broad-based coverage during community-wide or school age MDA. Speakers will relate their new findings on: i) The uncovering of ‘persistent hot spots’ in control areas as overall prevalence and intensity of infection are reduced during MDA; ii) what such persistence implies regarding the achievable results of MDA-only approaches; iii) how local environmental factors enhance ongoing transmission and maintain prevalence of infection; and iv) how parasite reproductive biology and individual-level human factors can foster continuance of hot spot transmission. Recommendations for policy changes will be discussed by the panel.

CHAIR

Charles H. King
Case Western Reserve University, Cleveland, OH, United States
Daniel G. Colley
University of Georgia, Athens, GA, United States

10:15 a.m.

DIFFERENT VIEWS FROM 30,000 FEET AND FROM 3 FEET: HOW SCORE PROJECT OUTCOMES CAN INFORM SCHISTOSOMIASIS CONTROL POLICY DECISIONS BOTH AT THE REGIONAL LEVEL AND THE LOCAL LEVEL

Daniel G. Colley
University of Georgia, Athens, GA, United States

10:40 a.m.

PROJECTIONS OF ‘NEXT GENERATION’ MODELING OF CONTROL: INFLUENCE OF PERSISTENT HOT SPOTS, LOCAL SNAIL FACTORS, AND THE POTENTIAL ROLE FOR SNAIL CONTROL OR A POSSIBLE VACCINE

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

11:05 a.m.

THE KENYA FACTOR STUDY: COMMUNITY FEATURES THAT DO OR DO NOT FOSTER CONTINUED TRANSMISSION OF *S. MANSONI* IN THE FACE OF ANNUAL MDA

Rosemary Musuva
Kenya Medical Research Institute, Kisumu, Kenya

11:25 a.m.

POPULATION GENETICS INSIGHTS FOR CONTROL POLICY: OBSERVATIONS ON DENSITY-DEPENDENT EFFECTS THAT FOSTER CONTINUED *SCHISTOSOMA* TRANSMISSION, AND INFERENCE ABOUT REINTRODUCTION VS. PERSISTENCE DURING MDA

Joanne P. Webster
Royal Veterinary College, Hatfield, United Kingdom

Symposium 128

Sanitation at Scale: Implementation, Outcomes and Equity

Marriott - La Galerie 3 (2nd Floor)

Wednesday, October 31, 10:15 a.m. - Noon

Poor sanitation is a risk for several diseases, including diarrhea and neglected tropical diseases including, but not limited to, schistosomiasis, soil-transmitted helminths and trachoma. According to the WHO/UNICEF Joint Monitoring Program for Water Supply, Sanitation and Hygiene (JMP), in 2015, 68% of the population used at least a basic sanitation facility, but 2.3 billion people were lacking access to sanitation and almost 900 million practiced open defecation. Several recent experimental studies of sanitation, characterized by low uptake of the sanitation intervention, did not show the expected health impact. Achieving sustainable sanitation changes within poor communities is a difficult task, with ongoing research contributing to understand the complexity, time, resources and effort required. Low-cost solutions, demand for improved sanitation, and lasting behavior change are crucial to the sustainability and scaling up of sanitation programs in resource-poor areas. Demand-side approaches, such as community led total sanitation (CLTS), rely on generating community demand and social norms change to move up the sanitation ladder, while market-based solutions and supply side models focus on improving access to products or subsidy. Ongoing monitoring of community latrine access and use after the implementation of sanitation programs is important in order to observe effectiveness and sustainability of any of these approaches. This symposium will include experts in the field of WASH research who will present findings that aim to provide evidence on best practices for the implementation of sanitation interventions at scale based on experience from different countries. This will include a mixed-methods study in Timor-Leste, based on monitoring data from the different NGOs implementing sanitation programs and stakeholders opinions on the best approaches to end open defecation. Additionally, longitudinal data analysis from an 11-country intervention

to promote sanitation in resource-poor communities will be presented. This analysis aims to support program improvements to achieve sustained open defecation free communities. Another presentation will highlight efforts to systematically investigate the effects of CLTS-type programs on sanitation-related norms, behaviors, and habits in multiple country programs funded by the Global Sanitation Fund. Finally, the session will present the RINEW study and the process of adapting and pilot-testing an integrated package of WASH, child stimulation, maternal and child nutrition and lead prevention for eventual implementation at scale in rural Bangladesh.

CHAIR

Susana Vaz Nery
University of New South Wales, Sydney, Australia

Pavani Ram
State University of New York at Buffalo, Buffalo, NY, United States

10:15 a.m.

UPTAKE AND SUSTAINABILITY OF SANITATION INTERVENTIONS IN TIMOR-LESTE: A CASE STUDY ON STAKEHOLDERS' OPINIONS ON CLTS AND SUBSIDIZED SANITATION

Susana Vaz Nery
University of New South Wales, Sydney, Australia

10:35 a.m.

EQUITY OF UPTAKE AND ACHIEVING ODF AS PART OF AN INTEGRATED SANITATION PROGRAM IN 11 COUNTRIES

Joshua Garn
Emory University, Atlanta, GA, United States

10:55 a.m.

BEYOND ODF: EFFECTS OF GLOBAL SANITATION FUND PROGRAMS ON SANITATION AND HANDWASHING NORMS, HABITS, AND BEHAVIORS

Pavani Ram
State University of New York at Buffalo, Buffalo, NY, United States

11:15 a.m.

ADAPTING WASH INTERVENTIONS FOR AT SCALE IMPLEMENTATIONS IN RURAL BANGLADESH

Md. Mahbubur Rahman
International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

Symposium 129

Cryptic Reservoirs of *T.B.gambiense*: A Threat to HAT Elimination?

Marriott - La Galerie 4/5/6 (2nd Floor)
Wednesday, October 31, 10:15 a.m. - Noon

Human African trypanosomiasis (HAT), also called sleeping sickness, used to be a severely neglected tropical disease (NTD) that ravaged rural populations in sub-Saharan and West Africa. The causal pathogen of the most common type of HAT, *Trypanosoma brucei gambiense*, is transmitted from HAT patients to non-infected humans by tsetse flies. Thanks to intense control efforts, the incidence of HAT has been decreasing steadily. The World Health Organization (WHO) aims at elimination of HAT as a public

health problem by 2020 and interruption of its transmission by 2030. These targets are included in the London Declaration on NTDs. Recently, after more than ten years of no cases, a twelve-year old child was diagnosed with gambiense-HAT in Ghana - illustrating the capacity for re-emergence and the importance of investigating how such re-emergence occurs in so-called extinct *foci*. For the less common rhodesiense-HAT, the notion of animal reservoirs, both cattle and wild animals, and their role in disease epidemiology is accepted. This is the reason why today, most *T.b. rhodesiense* infections occur among people living around and those visiting wildlife conservation areas, or those living in proximity to livestock (Franco et al. 2014). For *T.b. gambiense*, it is unknown how long animals can carry the infection, whether tsetse can transmit the infections from these animals to human, or whether it is the other way round. Therefore, experts have recently flagged two critical knowledge gaps whose understanding will determine whether HAT elimination will be possible or not (Informal Expert Group on Gambiense HAT Reservoirs, 2018). Firstly, the extent to which human reservoirs or latent carriers contribute to the persistent endemicity of gambiense-HAT. Secondly, the extent to which animals, both domestic and sylvatic, act as reservoirs of gambiense-HAT. Experts in gambiense-HAT epidemiology, diagnostics and mathematical modelling will overview current knowledge of cryptic reservoirs in humans and animals, whilst highlighting the limitations in our understanding. The speakers will explore the way in which these cryptic reservoirs can be characterised, measured, and discuss their potential importance to transmission, particularly in the context of elimination targets.

CHAIR

Joseph Ndung'u
Foundation for Innovative New Diagnostics (FIND), Geneva, Switzerland
Marleen Boelaert
Institute of Tropical Medicine, Antwerp, Belgium

10:15 a.m.

IS THERE A RESERVOIR OF HUMAN LATENT CARRIERS FOR *T.B. GAMBIENSE*?

Bruno Bucheton
IRD, Montpellier, France

10:35 a.m.

STATE OF THE ART ON POTENTIAL ANIMAL RESERVOIRS FOR *T.B. GAMBIENSE*

Gustave Simo
University of Dschang, Dschang, Cameroon

10:55 a.m.

THE EPIDEMIOLOGICAL SIGNIFICANCE OF DOMESTIC AND WILD ANIMAL RESERVOIR HOSTS FOR *T.B. GAMBIENSE*

Dieter Mehlitz
Free University of Berlin, Berlin, Germany

11:15 a.m.

PREDICTING THE IMPACT OF CRYPTIC RESERVOIRS ON THE FUTURE OF SLEEPING SICKNESS: LESSONS LEARNED FROM MATHEMATICAL MODELLING

Kat S. Rock

University of Warwick- Zeeman Institute: SBIDER (Systems Biology and Infectious Disease Epidemiology Research), Warwick, United Kingdom

Symposium 130

Moving Beyond Passive Case Detection: Evidence-Based Approaches to Planning and Implementing Active Surveillance Strategies in Malaria Elimination Settings

Marriott - Mardi Gras D (3rd Floor)

Wednesday, October 31, 10:15 a.m. - Noon

Strong health systems are essential to achieving malaria elimination. Prompt detection and effective treatment of malaria cases are key to reducing transmission, while robust surveillance systems ensure case detection and inform the understanding of malaria transmission. In many malaria endemic areas, limited access to health services and timely surveillance, due to geographic, sociocultural, economic or political barriers, presents challenges to achieving elimination. As a result, the World Health Organization and national malaria programs have recognized the need to extend and strengthen surveillance and case management at the community level and within the private sector to advance malaria elimination efforts. Strategies to address these gaps, such as increasing access to diagnosis and treatment through community health worker programs and active case detection within the private sector, require targeting and effective resource allocation to achieve their aim. The use of data can inform the design, targeting and evaluation of the impact of case management and active surveillance interventions. Capitalizing on data-driven approaches, such as use of remotely-sensed environmental data and advanced analytical methods for high resolution mapping, provides novel approaches to stratification for improved intervention planning. Mathematical modeling allows for analysis of the potential impact of these targeted interventions on malaria transmission. Further, collection and analysis of surveillance and programmatic data can serve to strengthen the implementation of interventions and to monitor their success. This symposium will describe malaria case detection and management in elimination settings and the relevance of active surveillance strategies for achieving elimination. It will present four examples to demonstrate how data can be used to extend access to health services and to improve case detection. The symposium will first highlight how mathematical modeling can be used to predict the impact of community health worker programs on malaria transmission. The second example will describe active surveillance carried out by community health workers in Zambia. The example from Guatemala will demonstrate the utility of surveillance data

to extend case detection to sugar cane plantations in order to reach both community members and seasonal migrants. The final example from Cambodia will highlight novel approaches to active case detection on plantations such as through de-worming campaigns and contact tracing. The experiences shared by programs and partners will offer practical insight into the use of data-driven approaches to inform and implement elimination activities.

CHAIR

Darlene Bhavnani

Clinton Health Access Initiative, Panama City, Panama

Richard Steketee

U.S. President's Malaria Initiative, Washington, DC, United States

10:15 a.m.

MODELING THE IMPACT OF COMMUNITY HEALTH WORKERS ON MALARIA ELIMINATION

Emilie Pothin

Swiss Tropical and Public Health Institute, Basel, Swaziland

10:35 a.m.

COMMUNITY HEALTH WORKERS: SCALABLE FOOT SOLDIERS FOR ACTIVE SURVEILLANCE AND CASE MANAGEMENT FOR MALARIA ELIMINATION IN ZAMBIA

Marie-Reine I. Rutagwera

PATH, Lusaka, Zambia

10:55 a.m.

TARGETING POPULATIONS AT RISK FOR MALARIA WITH ACTIVE SURVEILLANCE ON SUGAR CANE PLANTATIONS IN GUATEMALA

Graziella Scudu

Clinton Health Access Initiative, Guatemala City, Guatemala

11:15 a.m.

PLANTATION-BASED CASE MANAGEMENT IN CAMBODIA: A DATA-DRIVEN EVOLUTION

Sarath Mak

Population Services International, Phnom Penh, Cambodia

Scientific Session 131

Malaria: Vaccines

Marriott - Mardi Gras EFGH (3rd Floor)

Wednesday, October 31, 10:15 a.m. - Noon

CHAIR

Meta Roestenberg

PfSPZ-GA1 Consortium, Leiden, Nijmegen, Netherlands

Moriya Tsuji

Aaron Diamond AIDS Research Center/Rockefeller University, New York, NY, United States

10:15 a.m.

1480

SAFETY, IMMUNOGENICITY AND EFFICACY OF THE FIRST INJECTABLE, GENETICALLY ENGINEERED MALARIA VACCINE PFSPZ-GA1 VACCINE

Meta Roestenberg

PfSPZ-GA1 Consortium, Leiden, Nijmegen, Netherlands

10:30 a.m.

1481

SAFETY, FEASIBILITY AND EFFICACY OF RADIATION-ATTENUATED *PLASMODIUM FALCIPARUM* SPOOROZITE (PFSPZ) VACCINE ADMINISTERED BY DIRECT VENOUS INOCULATION IN A PHASE 2 TRIAL IN INFANTS IN WESTERN KENYA

Martina Oneko¹, Laura C. Steinhardt², Yego R. Cherop¹, Kephas O. Otieno¹, Tony Sang¹, Ryan E. Wiegand², Gail Potter³, Dorcas Akach¹, Julie R. Gutman², Aaron M. Samuels², Simon Kariuki¹, Paul N. Oloo¹, Allan Dungani¹, Dennis K. Bii¹, Elizabeth L. Nzuu¹, Ginnie Abarbanell⁴, David Styers³, Adam J. Ruben⁵, Kim L. Sim⁵, Peter F. Billingsley⁵, Patrick S. Kachur², Eric R. James⁵, Thomas L. Richie⁵, Stephen L. Hoffman⁵, Robert A. Seder⁶
¹Kenya Medical Research Institute/ Centre for Global Health Research, Kisumu, Kenya, ²Centers for Disease Control and Prevention, Atlanta, GA, United States, ³Emmes Corporation, Rockville, MD, United States, ⁴Washington University School of Medicine, St. Louis, MO, United States, ⁵Sanaria, Rockville, MD, United States, ⁶National Institutes of Health, Bethesda, MD, United States

10:45 a.m.

1482

MODELLING THE RELATIVE ROLES OF ANTIBODY TITRE AND AVIDITY IN PROTECTION FROM *P. FALCIPARUM* INFECTION FOLLOWING RTS,S VACCINATION IN A HUMAN CHALLENGE STUDY

Hayley A. Thompson¹, Alexandra B. Hogan¹, Patrick G. Walker¹, Michael T. White², Aubrey J. Cunningham¹, Chris F. Ockenhouse³, Azra C. Ghani¹
¹Imperial College London, London, United Kingdom, ²Institute Pasteur, Paris, France, ³PATH Malaria Vaccine Initiative, Washington, DC, United States

11 a.m.

1483

TOWARDS GENERATING A GENETICALLY-ENGINEERED REPLICATION-COMPETENT WHOLE *PLASMODIUM FALCIPARUM* PARASITE VACCINE THAT CONFERS BROAD AND DURABLE PROTECTION AGAINST INFECTION

Debashree Goswami¹, Navinder K. Gurmit Singh¹, Sean C. Murphy², Ashley M. Vaughan¹, Stefan H. Kappe¹
¹Centre for Infectious Disease Research, Seattle, WA, United States, ²Department of Laboratory Medicine, University of Washington, Seattle, WA, United States

(ACMCIP Abstract)

11:15 a.m.

1484

EFFECT OF DELAYED AND FRACTIONAL DOSING ON THE TITERS, FINE SPECIFICITY, AVIDITY AND BIOLOGICAL ACTIVITY OF RHESUS ANTIBODIES AGAINST A CIRCUMSPOROZITE PROTEIN BASED VACCINE FMP013

Sheetij Dutta¹, Alicia Cawfield¹, Christopher J. Genito¹, Zoltan Beck¹, Alexis Bitzer¹, Elke Bergman Leitner¹, Robert V. Gerbasi², Xiaoyan Zou², Sri H. Hadiwidjojo², Norman C. Waters¹, Viseth Ngauy¹, Carl Alving¹, Gary E. Matyas¹
¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Naval Medical Research Center, Silver Spring, MD, United States

11:30 a.m.

1485

A PHASE IA/B STUDY TO ASSESS THE SAFETY AND IMMUNOGENICITY OF PLACENTAL MALARIA VACCINE CANDIDATE: PRELIMINARY RESULTS OF THE PRIMALVAC TRIAL

Amadou Konate¹, Laura Richert², Arnaud Chêne³, Jean-Philippe Semblat³, Gwenaëlle Roguet⁴, Nadine Benhamouda⁵, Mathilde Bahuaud⁵, Nicolas Havelange⁷, Alexis Kuppers⁸, Cécilia Champion², Valérie Boilet², Sonia Gueguen⁸, Pierre Loulergue⁴, Odile Leroy⁷, Frederic Batteux⁶, Eric Tartour⁵, Nicola K. Viebig⁷, Rodolphe Thiebaut², Sodiomon B. Sirima¹, Odile Launay⁴, **Benoit Gamain**³

¹Centre National de Recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso, ²EUCLID/F-CRIN, Université, CHU Bordeaux, INSERM, Bordeaux Population Health Research Center, UMR1219, Bordeaux, France, ³INSERM U1134, Université Paris Diderot Sorbonne Paris-Cité, Paris, France, ⁴Université Paris Descartes, Sorbonne Paris cité, Paris, France; Inserm CIC 1417, Paris, France; Assistance Publique Hôpitaux de Paris, CIC Cochin-Pasteur, Paris, France, ⁵INSERM U970, Université Paris Descartes Sorbonne Paris-Cité, Hôpital Européen Georges Pompidou, Paris, France, ⁶Université Paris Descartes, Sorbonne Paris Cité AP-HP, Département d'Immunologie Biologique, Groupe Hospitalier Cochin Broca Hôtel-Dieu, Paris, France, ⁷European Vaccine Initiative, UniversitätsKlinikum Heidelberg, Heidelberg, Germany, ⁸INSERM PRC, Paris, France

11:45 a.m.

1486

TOLERABILITY, SAFETY AND PROTECTIVE EFFICACY OF DIRECT VENOUS INOCULATION OF CONDENSED VACCINATION REGIMEN OF PFSPZ VACCINE IN TANZANIAN ADULTS INCLUDING HIV INFECTED VOLUNTEERS

Said A. Jongo¹, Thomas L. Richie², Claudia A. Daubenberger³, Peter F. Billingsley², Kamaka Kassimu¹, Gloria Nyaulingo¹, B. K. Sim², Saumu Ahmed¹, Florence A. Milando¹, Mohammed Rashid¹, Tobias Schindler⁴, Anneth Tumbo¹, Thabit Athuman¹, Khalfan Kiure¹, Beatus Simon¹, Selina Aloyce¹, Ramla Rashid¹, Jescica Mfaume¹, Theresia Ngonyani¹, Bakary Mwalimu¹, Kathleen Walker², Sumana Chakravarty², Eric James², Maximilian Mpina¹, Ally Olotu¹, Marcel Tanner³, Salim Abdulla¹, Stephen L. Hoffman²
¹Ifakara Health Institute, Dar es Salaam, United Republic of Tanzania, ²Sanaria Inc., Rockville, MD, United States, ³Swiss TPH, Basel, Switzerland, ⁴Swiss TPH, Rockville, Switzerland

Scientific Session 132

Mosquitoes: Molecular Genetics and Genomics

Marriott - Balcony IJK (3rd Floor)

Wednesday, October 31, 10:15 a.m. - Noon

CHAIR

Michelle Riehle
Medical College of Wisconsin, Milwaukee, WI, United States

Seth N. Redmond
Broad Institute, Cambridge, MA, United States

10:15 a.m.

1487

HOMOLOGS OF HUMAN DENGUE-RESISTANCE GENES, FKBP1B AND ATCAI, CONFER ANTIVIRAL RESISTANCE IN *Aedes aegypti* MOSQUITOES

Seokyoung Kang¹, Dongyoung Shin², Berlin Londono-Renteria³, Mi Young Noh⁴, Tonya M. Colpitts⁵, Rhoel R. Dinglasan¹, Yeon Soo Han⁴, Young S. Hong⁶
¹University of Florida, Gainesville, FL, United States, ²University of Florida, Vero Beach, FL, United States, ³Kansas State University, Manhattan, KS, United States, ⁴Chonnam National University, Gwangju, Republic of Korea, ⁵Boston University, Boston, MA, United States, ⁶Access Bio, Inc, Somerset, NJ, United States

(ACMCIP Abstract)

10:30 a.m.

1488

A GLOBAL POPULATION GENOMIC SURVEY OF Aedes Aegypti VARIATION

Seth N. Redmond¹, Atashi Sharma², Igor Sharakhov², Zhijian Tu², Carolyn S. McBride³, Jeffrey R. Powell⁴, Bruce W. Birren¹, Maria Sharakhova², Daniel E. Neafsey⁵

¹Broad Institute, Cambridge, MA, United States, ²Virginia Tech, Blacksburg, VA, United States, ³Princeton University, Princeton, NJ, United States, ⁴Yale University, New Haven, CT, United States, ⁵Harvard School of Public Health, Boston, MA, United States

10:45 a.m.

1489

STARR-SEQ IN ANOPHELES: QUERYING NON-CODING DNA FOR FUNCTION

Michelle M. Riehle¹, Luisa Nardini², Inge Holm², Emmanuel Bischoff², Adrien Pain², Kenneth D. Vernick²

¹Medical College of Wisconsin, Milwaukee, WI, United States, ²Institut Pasteur, Paris, France

11 a.m.

1490

THE HI-C APPROACH IMPROVED GENOME ASSEMBLIES AND REVEALED PRINCIPLES OF 3D GENOME ORGANIZATION IN MALARIA VECTORS

Igor V. Sharakhov¹, Varvara Lukyanchikova¹, Veniamin Fishman², Miroslav Nuriddinov², Nariman Battulin², Jiangtao Liang¹, Oleg L. Serov²

¹Virginia Tech, Blacksburg, VA, United States, ²Institute of Cytology and Genetics, Novosibirsk, Russian Federation

11:15 a.m.

1491

20-HYDROXYECDYSONE (20E) ACTIVATES MOSQUITO CELLULAR IMMUNITY AND LIMITS PLASMODIUM OOKINETE SURVIVAL

Rebekah Reynolds, Hyeog-Sun Kwon, Ryan Smith
Iowa State University, Ames, IA, United States

11:30 a.m.

1492

DUAL ACTION LARVICIDAL-ADULTICIDAL SIRNA INSECTICIDES FOR BIORATIONAL MOSQUITO CONTROL

Keshava Mysore¹, Limb K. Hapairai¹, Longhua Sun¹, Jacob S. Realey¹, Azad Mohammed², David W. Severson³, Molly Duman Scheel¹

¹Indiana University School of Medicine, Notre Dame, IN, United States, ²The University of the West Indies, St. Augustine, Trinidad and Tobago, ³The University of Notre Dame, Notre Dame, IN, United States

11:45 a.m.

1493

A WHOLE-GENOME TAXONOMIC SURVEY OF DIVERSE SOUTHEAST ASIAN MALARIA VECTORS

Brandyce St. Laurent¹, Christopher Clarkson¹, Nicholas Harding², Michael Fontaine³, Jorge E. Amaya Romero³, Robert Waterhouse⁴, Sonia Goncalves¹, Mara Lawniczak¹, Dominic Kwiatkowski¹, Alistair Miles²

¹Wellcome Sanger Institute, Hinxton, United Kingdom, ²University of Oxford Big Data Institute, Oxford, United Kingdom, ³Groningen Institute for Evolutionary Life Sciences, Groningen, Netherlands, ⁴UNIL, Lausanne, Switzerland

Exhibit Hall Open and Light Lunch

Sheraton - Napoleon Ballroom (3rd Floor)

Wednesday, October 31, Noon - 2:30 p.m.

Poster Session 133

Poster Session C: Presentations and Light Lunch

Marriott - Grand Ballroom (3rd Floor)

Wednesday, October 31, Noon - 1:45 p.m.

Poster Session C Directory

Global Health: #1494 – 1524

Arthropods/Entomology – Other: #1525 - 1539

Ectoparasite-Borne Disease – Other: #1540 – 1552

Mosquitoes – Insecticide Resistance and Control: #1553 – 1569

Mosquitoes – Vector Biology – Epidemiology: #1570 – 1594

Alphaviruses (Includes Chikungunya): #1595 - 1603

Flaviviridae – Dengue: #1604 – 1632

Flaviviridae – Other: #1633 – 1661

Viruses – Other: #1662 – 1679

Malaria – Biology and Pathogenesis: #1680 – 1695

Malaria – Chemotherapy and Drug Resistance: #1696 – 1711

Malaria – Diagnosis: #1712 – 1726

Malaria – Drug Development – Clinical Trials: #1727 - 1739

Malaria – Epidemiology: #1740 – 1765

Malaria – Genetics/Genomics: #1766 – 1777

Malaria – Immunology: #1778 – 1791

Malaria – Modeling: #1792 – 1805

Malaria – Other: #1806 – 1822

Malaria – Strategies for Elimination: #1823 - 1849

Malaria – Vaccines: #1850 – 1863

Malaria – Vector Control: #1864 – 1877

Bacteriology – Enteric Infections: #1878 – 1888

Bacteriology – Other Bacterial Infections: #1889 – 1898

Clinical Tropical Medicine: #1899 – 1934

Helminths – Nematodes – Filariasis (Clinical): #1935 – 1939

Helminths – Nematodes – Filariasis (Epidemiology):

#1940 – 1952

Helminths – Nematodes – Intestinal Nematodes:

#1953 – 1966

HIV and Tropical Co-Infection: #1967 – 1979

Kinetoplastida – Epidemiology (Including *Leishmania* and Trypanosomes): #1980 – 1992

One Health: Interface of Human Health/Animal Diseases: #1993 - 2002

Pneumonia, Respiratory Infections and Tuberculosis: #2003 – 2013

Schistosomiasis and Other Trematodes – Immunology, Pathology, Cellular and Molecular Biology: #2014 – 2025

Water, Sanitation, Hygiene and Environmental Health: #2026 – 2039

Global Health

1494

REGIONAL FORUM ON CANDIDA AURIS: BUILDING PUBLIC HEALTH PARTNERSHIPS FOR THE PREVENTION, DETECTION AND RESPONSE OF EMERGING MULTIDRUG-RESISTANT FUNGAL INFECTIONS IN THE AMERICAS

Andres Espinosa-Bode¹, Diego H. Cáceres², Patricia Barrientos³, Beatriz Lopez¹, Herberth Maldonado⁴, Kristin Delea⁵, Brendan Jackson², Benjamin Park⁶, Tom Chiller², Alejandro Solis Martinez³, Loren Cadena¹

¹Division of Global Health Protection, Central American Regional Office, US Centers for Disease Control and Prevention, Guatemala City, Guatemala, ²Mycotic Diseases Branch, National Center for Emerging and Zoonotic Infectious Diseases, US Centers for Disease Control and Prevention, Atlanta, GA, United States, ³Council of Ministers of Health of Central America and Dominican Republic Secretariat, San Salvador, El Salvador, ⁴Center of Health Studies, Universidad del Valle de Guatemala, Guatemala City, Guatemala, ⁵Division of Global Health Protection, US Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁶Division of Healthcare Quality Promotion, National Center for Emerging and Zoonotic Infectious Diseases, US Centers for Disease Control and Prevention, Atlanta, GA, United States

1495

ADAPTING THE POPULAR OPINION LEADERS (POL) MODEL TO PROMOTE FAMILY PLANNING AND ZIKA PREVENTION BEHAVIORS AMONG ADOLESCENTS IN SANTA ANA, EL SALVADOR

Mathias Pollock¹, James Ayers¹, Jose Ivan Fuentes², Carmen Suarez³, Amanda Kalamar¹, Ashley Sorgi¹

¹Population Services International, Washington, DC, United States, ²Pan American Social Marketing Organization, San Salvador, El Salvador, ³Population Services International, San Salvador, El Salvador

1496

CHALLENGES OF ACHIEVING EFFECTIVE CONTRACEPTION WOMEN OF REPRODUCTIVE POTENTIAL IN MALARIA VACCINE TRIALS IN EQUATORIAL GUINEA

Basilio Micha¹, Esther Eburu¹, Ally Olotu², Antonio E. Sama¹, Stephen R. Manock³, Carl D. Maas⁴, Guillermo A. Garcia⁵, Carlos Cortez², Salim Abdullah⁶, Stephen L. Hoffman³

¹MCDI, Malabo, Equatorial Guinea, ²EGMVI, Malabo, Equatorial Guinea, ³Sanaria, Maryland, MD, United States, ⁴Marathon EG Production Ltd, Malabo, Equatorial Guinea, ⁵MCDI, Silver Spring, MD, United States, ⁶IHI, Bagamoyo, United Republic of Tanzania

1497

DIAGNOSTIC LANDSCAPE FOR OUTBREAK DISEASES - AN OVERVIEW OF THE CHALLENGES

Laura T. Mazzola¹, Devy M. Emperador¹, Virginia Benassi², Marie-Pierre Preziosi², Cassandra Kelly-Cirino¹

¹Foundation for Innovative New Diagnostics, Geneva, Switzerland, ²World Health Organization, Geneva, Switzerland

1498

MATHEMATICAL MODEL FOR QUANTIFYING THE IMPACT OF CONTROLLING DIABETES ON THE SPREAD OF TUBERCULOSIS

Emily E. Meyer, Latha Rajan, James M. Hyman
Tulane University, New Orleans, LA, United States

1499

THE EFFECTIVENESS OF FILM-BASED EDUCATION AND OUTREACH FOR MONKEYPOX IN THE CONGO BASIN

Stephanie Tran¹, Clever Demokolo², Benjamin Monroe³, Cuc Tran³, Joelle Kabamba⁴, Toutou Likafi⁵, Robert Shongo Lushima⁶, Saturnin Ibata⁷, Mary

G. Reynolds³, Cynthia Moses², Andrea M. McCollum³

¹Center of Disease Control and Oak Ridge Institute for Science and Education, Atlanta, GA, United States, ²International Conservation and Education Fund, Kinshasa, Democratic Republic of the Congo, ³Center of Disease Control, Atlanta, GA, United States, ⁴Center of Disease Control, Kinshasa, Democratic Republic of the Congo, ⁵Kinshasa School of Public Health, Kinshasa, Democratic Republic of the Congo, ⁶Ministry of Health, Kinshasa, Democratic Republic of the Congo, ⁷International Conservation and Education Fund, Washington, DC, United States

1500

BUILDING BETTER GLOBAL HEALTH DELIVERY: THE EXECUTIVE NURSE LEADER

Viola Karanja¹, Graciela Cadet², Angeline Charles³, Emmanuel Dushimimana³, Shelia Davis⁴, Marc Julmisse², Cory McMahon⁴, Melissa Ojemeni⁴

¹Partners in Health, Monrovia, Liberia, ²Partners in Health, Mirebalais, Haiti, ³Ministry of Health, Butaro, Rwanda, ⁴Partners in Health, Boston, MA, United States

1501

THE GLOBAL BURDEN OF HELMINTH POLYPARASITISM: A SYSTEMATIC REVIEW AND META-ANALYSIS

Rose E. Donohue, Edwin Michael
University of Notre Dame, South Bend, IN, United States

1502

REACHING THE UNREACHABLE-LEVERAGING LESSONS LEARNED FROM MALARIA SERVICE DELIVERY PROGRAMS TO EXPAND INTEGRATED COMMUNITY CASE MANAGEMENT IN REMOTE AREAS OF PAPUA NEW GUINEA

Carrie M. Gheen, Shannon McVey
Population Services International, Port Moresby, Papua New Guinea

1503

ROLE OF HEALTH-SEEKING BEHAVIOR AND NON-ADHERENCE IN ELIMINATION AND ON DISEASE DYNAMICS OF VISCERAL LEISHMANIASIS IN BIHAR, INDIA

Mugdha Thakur, Anuj Mubayi
Arizona State University, Tempe, AZ, United States

1504

CONNECTING GLOBAL AND LOCAL PUBLIC HEALTH: WHY GLOBAL HEALTH SECURITY MATTERS TO LOCAL JURISDICTIONS IN THE U.S.

Zara Ahmed, Megan Ramsden, Rebecca Bunnell
US Centers for Disease Control and Prevention, Atlanta, GA, United States

1505

PREGNANT WOMEN AND VACCINES AGAINST EMERGING PATHOGENS: ETHICS GUIDANCE ON AN INCLUSIVE AND RESPONSIVE RESEARCH AGENDA AND EPIDEMIC RESPONSE

Carleigh Krubiner¹, Ruth Faden¹, Ruth Karron², Margaret Little³, Anne Drapkin Lyerly⁴, The PREVENT Working Group⁵
¹Johns Hopkins Berman Institute of Bioethics, Baltimore, MD, United States, ²Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ³Georgetown University Kennedy Institute of Ethics, Washington, DC, United States, ⁴Center for Bioethics at University of North Carolina, Chapel Hill, NC, United States, ⁵various institutions

1506

INTERNATIONAL BIOLOGICAL REFERENCE PREPARATIONS FOR EMERGING INFECTIOUS DISEASES: VITAL TOOLS IN EPIDEMIC PREPAREDNESS

Tommy Rampling¹, Mark Page², Peter Horby³

¹University College London, London, United Kingdom, ²National Institute of Biological Standards and Control, Potters Bar, United Kingdom, ³University of Oxford, Oxford, United Kingdom

1507

IMPROVING PRECISION OF HEALTH CAMPAIGNS THROUGH AN API FOR IDENTIFYING RESIDENTIAL BUILDINGS

Kehsin Su¹, Ricardo Andrade-Pacheco², Evelyn Li¹, Legeng Liu¹, Max Feng¹, Hugh J. Sturrock²

¹University of California Berkeley, Berkeley, CA, United States, ²University of California San Francisco, San Francisco, CA, United States

1508

MULTI-LEVEL CORRELATES INFLUENCING PROVIDER DEVIATIONS FROM ESTABLISHED PEDIATRIC TREATMENT GUIDELINES: A SYSTEMATIC REVIEW AND META-ANALYSIS

Chantal L. Donahue¹, Dorothy L. Mangale², Kirk D. Tickell², Donna M. Denno², Judd L. Walson², Arianna R. Means²

¹University of Washington, Seattle, WA, United States, ²University of Washington, Childhood Acute Illness and Nutrition Network, Seattle, WA, United States

1509

USING PARTICIPATORY WORKSHOPS TO ASSESS COMMUNITY ALIGNMENT OR TENSION FOR CHILD MORTALITY SURVEILLANCE INVOLVING MINIMALLY INVASIVE TISSUE SAMPLING

Ahoua Kone¹, Emily Lemon¹, John Blevins¹, Saquina Cossa², Faruq Hussain³, Kennedy Ochola⁴, Yosef Zegeye⁵, Zerihun Girma⁵, Nonhlanhla Ngwenya⁶, Maria Maixenchs⁷, Elizabeth O'Mara⁸

¹Rollins School of Public Health, Emory University, Atlanta, GA, United States, ²Centro de investigacao de Saude de Manhica, Manhica, Mozambique, ³International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ⁴Kenya Medical Research Institute, Kisumu, Kenya, ⁵Haramaya University, Harar, Ethiopia, ⁶Medical Research Council: Respiratory and Meningeal Pathogens Research Unit, University of the Witwatersrand, Johannesburg, South Africa, ⁷Barcelona Institute for Global Health, Barcelona, Spain, ⁸Centers for Disease Control and Prevention, Atlanta, GA, United States

1510

FOCUSING BEHAVIOR CHANGE EFFORTS TO MAXIMIZE USAID-LED ZIKA PREVENTION EFFORTS IN CENTRAL AMERICA AND THE CARIBBEAN: LESSONS FOR FUTURE PUBLIC HEALTH EMERGENCIES

Jessie Pinchoff¹, Alice Payne Merritt², Arianna Serino³, Martha Silva⁴, Priya Parikh², Gabrielle Hunter², Paul Hewett⁵

¹Population Council, New York, NY, United States, ²Johns Hopkins Center for Communication Programs, Baltimore, MD, United States, ³United States Agency for International Development, Washington, DC, United States, ⁴Tulane University, New Orleans, LA, United States, ⁵Population Council, Washington, DC, United States

1511

THE USE OF A CAMPAIGN INFORMATION MANAGEMENT SYSTEM FOR RAPID AND EFFICIENT MASS DISTRIBUTION AND MONITORING OF LONG LASTING INSECTICIDAL NETS IN AN URBAN SETTING OF BOKO ISLAND

Jose Osa Nfumu¹, Godwin Fuseini¹, Jordan Smith¹, Jeremias Nzamio¹, Brent Atkinson¹, Carlos Cortes Falla¹, Wonder Philip Phiri¹, Christopher Schwabe², Guillermo Garcia²

¹Medical Care Development International, Malabo, Equatorial Guinea, ²Medical Care Development International, Silver Spring, MD, United States

1512

FINE-SCALE MAPPING OF LOCALITIES HOUSEHOLDS TO PLAN, IMPLEMENT, MONITOR AND EVALUATE MALARIA CONTROL CAMPAIGNS ON BOKO ISLAND, EQUATORIAL GUINEA

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ASSESSING IRS PERFORMANCE AND BARRIERS IN A GENDER-INTEGRATED VECTOR CONTROL PROGRAM ON BOKO ISLAND, EQUATORIAL GUINEA

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Phaik Yeong Cheah¹, Nattapat Jatupornpimol¹, Borimas Hanboonkunupakarn², Napat Khirikoekekong¹, Nicholas P. Day¹, Michael Parker³, Susan Bull³

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Jhonatan R. Mejia¹, Ángel J. Quincho-Estares¹, Jessica E. Barrientos-Cochachi¹, **Antonio M. Quispe**²

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Donatien Ntambue

Catholic Relief Services, Conakry, Guinea

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(ACMCIP Abstract)

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Joel Lutomiah¹, Hellen Koka², Edith Koskei², Albert Nyunja², James Mutisya², Francis Mulwa², Samuel Owaka², James Mancuso², Fredrick Eyase², Rosemary Sang¹

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Austin L. Drury, Travis C. van Warmerdam, Federico Hoffman, Jerome Goddard, Jonas King

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Danielle Ladzekpo¹, Charlotte A. Addae¹, Janice A. Tagoe¹, Joseph W. Diclaro II², Andrew Letizia³, Seth Offei Addo¹, Mba-Tihssommah Mosore¹, Eric Behene¹, Mawuli Dzodzomenyo⁴, Shirley Nimo-Paintsil³, Samuel K. Dadzie¹

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Marisa E. Lozano¹, Liz J. Espada¹, **Victor O. Zorrilla**¹, Michael Y. Kosoy², Clifton D. McKee², Lynn M. Osikowicz², Heriberto Arevalo³, Mario Troyes⁴, Craig A. Stoops¹, Michael L. Fisher¹, Gissella M. Vasquez¹

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Danspaïd M. Paul¹, Krystal Birungi¹, Matilda C. Collins², Jonathan Kayondo¹

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Sujata Balasubramanian, Rachel Curtis-Robles, Bhagath Chirra, Lisa D. Auckland, Charles D. Johnson, Richard P. Metz, Shichen Wang, Gabriel L. Hamer, Sarah A. Hamer

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Estefani A. Piedrahita-Hernández¹, Mariano Altamiranda-Saavedra¹, Carlos Marcelo Scavuzzo², Margarita M. Correa-Ochoa¹

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(ACMCIP Abstract)

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Nils Pilotte¹, Corrado Minetti², Darren A. Cook², Michael F. Zulch¹, Lisa J. Reimer², Steven A. Williams¹

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Ectoparasite-Borne Disease - Other

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Alison M. Binder, Amy E. Peterson, Paige A. Armstrong

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SITUATIONAL ANALYSIS OUTCOME OF SCABIES CONTROL PROGRAM IN ETHIOPIA

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Addo¹, Mba-tihssommah Mosore¹, Clara Yeboah¹, Bright Agbodzi¹, Danielle Danielle Ladzekpo¹, Janice Tagoe¹, Eric Eric Benehe¹, Courage Defeamekor³, Osbourne Osbourne Quaye⁴, Shirley Nimo-Paintsil⁵, Hanayo Arimoto⁶, Andrew Letizia⁵, Joseph W. Diclaro II⁷, Samuel Dadzie¹

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Yanina Maza¹, Georgina Fronza², Sergio Wasilewsky³, Patricia Lobbia⁴, **Diego Weinberg⁵**, Mariela Fabiani¹, Carolina Remón⁴, Marcelo C. Abri⁵, Gastón Mougabure Cueto⁴, Paula Sartor¹

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Michael E. von Fricken¹, Rui-Ruo Jiang², Barbara Qurollo³, Bazartseren Boldbaatar⁴, Ya-Wei Wang², Sukhbaatar Lkhagvatseren⁴, Jeffery W. Koehler⁵, Thomas C. Moore⁶, Pagbajab Nymadawa⁷, Benjamin D. Anderson⁶, Graham Matulis⁸, Jia-Fu Jiang², Gregory C. Gray⁶

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Juan A. Segura

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TICK-PATHOGEN INTERACTION: CONNECTING THE DOTS BETWEEN INNATE IMMUNITY AND REDOX SIGNALING PATHWAYS

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CANINE SENTINELS OF VECTOR-BORNE DISEASE IN TEXAS, USA: HIGH-RISK DOGS INFECTED WITH DIVERSE AGENTS INCLUDING TRYPANOSOMA CRUZI, BUT LITTLE EVIDENCE OF BORRELIA BURGDORFERI

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Guillermo Barquero-Ureña¹, Dione E. Palma-Carranza¹, Rolando D. Moreira-Soto¹, Catherine Santanello², Luis M. Romero-Vega¹, Adriana Troyo¹
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Katja Fischer¹, Charlotte Bernigaud¹, Martha Zakrzewski¹, Martha Zakrzewski¹, Pearl M. Swe¹, Anthony T. Papenfuss², Ehtesham Mofiz², Françoise Botterel³, M.G. Karmarkar⁴, Deborah Holt⁵, Bart Currie⁶, Olivier Chosidow⁷

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AGENT-BASED MODELLING OF TICK-BORNE DISEASE EXPOSURE IN MONGOLIAN LIVESTOCK AND HERDERS

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Mosquitoes – Insecticide Resistance and Control

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EFFECTS OF AERIAL ADULTICIDE SPRAYING ON THE RELATIVE ABUNDANCE OF CULEX TARSALIS AND CULEX PIPIENS

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1555**IMPACT OF VOLATILE METOFLUTHRIN ON ANOPHELES DARLINGI BEHAVIOR EVALUATED IN EXPERIMENTAL HUTS IN ZUNGAROCCHA, LORETO, PERÚ****Fanny Castro-Llanos¹**, Víctor Lopez-Sifuentes¹, Craig A. Stoops¹, Michael L. Fisher¹, Scott A. Ritchie², Gissella M. Vásquez¹, Gregor J. Devine³¹*U.S. Naval Medical Research Unit No. 6, Bellavista, Peru*, ²*James Cook University (JCU), Queensland, Australia*, ³*Mosquito Control Laboratory, Queensland Institute of Medical Research (QIMR), Berghofer Medical Research Institute, Queensland, Australia*

1556**FIELD TESTING INSECTICIDE-TREATED BARRIER SCREENS FOR PROTECTION FROM HOST-SEEKING, EXOPHILIC MOSQUITOES IN THE NORTHERN PERUVIAN AMAZON****Victor M. Lopez-Sifuentes**, Karin S. Escobedo-Vargas, Hugo Jaba, Michael L. Fisher, Craig A. Stoops, Gissella M. Vasquez*U.S. Naval Medical Research Unit No. 6, Bellavista, Peru*

1557**TOXIC, ANTIFEEDANT, AND REPELLENT ACTIVITY OF DRIMANE SESQUITERPENES FROM THE MEDICINAL PLANT CINNAMOSMA FRAGRANS AGAINST AEADES AEGYPTI MOSQUITOES****Edna A. Inocente¹**, H. Liva Rakotondraibe², Peter M. Piermarini¹¹*The Ohio State University, Wooster, OH, United States*, ²*The Ohio State University, Columbus, OH, United States*

1558**CO-OCURRENCE OF THE V1,016I AND F1,534C MUTATIONS IN AEADES AEGYPTI POPULATIONS RESISTANT TO PYRETHROIDS AND DDT FROM THE COLOMBIAN CARIBBEAN REGION****Ronald Maestre-Serrano¹**, Paula Pareja-Loaiza², Doris Gómez-Camargo², Gustavo Ponce-García³, Adriana E. Flores³¹*Universidad Libre, Barranquilla, Colombia*, ²*Universidad de Cartagena, Cartagena, Colombia*, ³*Universidad Autónoma de Nuevo León, San Nicolás de los Garza, NL, Mexico*

1559**PARALLEL EVOLUTION OF VGSC MUTATIONS AT DOMAINS IS6, IIS6 AND IIIS6 IN PYRETHROID RESISTANT AEADES AEGYPTI FROM MEXICO****Karla L. Saavedra-Rodriguez¹**, Farah Vera Maloof¹, Corey L. Campbell¹, Julian Garcia-Rejon², Audrey Lenhart³, Patricia Penilla⁴, Americo Rodriguez⁴, Arturo Acero⁴, Adriana E. Flores⁵, Gustavo Ponce⁵, Saul Lozano¹, William C. Black IV¹¹*Colorado State University, Fort Collins, CO, United States*, ²*Centro de Investigaciones Regionales Dr. Hideyo Noguchi, Universidad Autónoma de Yucatán, Mérida, Mexico*, ³*Division of Parasitic Diseases and Malaria, Centers for Disease Control and Prevention, Atlanta, GA, United States*, ⁴*Centro Regional de Investigación en Salud Pública, Instituto Nacional de Salud Pública, Tapachula, Mexico*, ⁵*Facultad de Ciencias Biológicas, Universidad Autónoma de Nuevo León, San Nicolás de los Garza, Mexico*

1560**EFFICIENT ALLELIC DRIVE DEMONSTRATED IN DROSOPHILA WITH POSSIBLE APPLICATIONS IN INSECTICIDE RESISTANCE ERADICATION****Raja Babu Singh Kushwah¹**, Annabel Guichard², Tisha Haque², Marketta Bobik², Xiang-Ru S. Ru², Valentino Gantz², Ethan Bier²¹*Tata Institute for Genetics & Society, Bangalore, India*, ²*University of California San Diego, San Diego, CA, United States*

1561**INGESTED INSECTICIDE TO CONTROL AEADES AEGYPTI: DEVELOPING A NOVEL DRY ATTRACTIVE BAIT STATION (DABS) FOR INTRA-DOMICILIARY USE****Galo Rivera¹**, David A. Larsen², Anna M. Stewart-Ibarra³, Robert S. Hikida⁴, María de los Ángeles López⁵, Alex Aguirre⁶, Bianca Morejón⁶, **Marco Neira⁶**¹*Vector Biology Group, The Max Planck Institute for Infection Biology, Berlin, Germany*, ²*Syracuse University, Syracuse, NY, United States*, ³*Department of Medicine and Center for Global Health and Translational Science, State University of New York Upstate Medical University, Syracuse, NY, United States*, ⁴*Ohio University, Athens, OH, United States*, ⁵*Universidad de las Américas – UDLA, Quito, Ecuador*, ⁶*Center for Research on Health in Latin America (CISEAL), Pontificia Universidad Católica del Ecuador, Quito, Ecuador*

1562**SELECTION FOR PERMETHRIN RESISTANCE IN AEADES ALBOPICTUS FROM CHIAPAS, MEXICO****Ashley J. Janich¹**, Karla L. Saavedra-Rodriguez¹, Farah Z. Vera-Maloof¹, Americo D. Rodriguez-Ramirez², Patricia Penilla-Navarro², Alma D. Lopez-Solis², Francisco Solis-Santoyo², William C. Black¹¹*Colorado State University, Fort Collins, CO, United States*, ²*Centro Regional de Investigación en Salud Pública, Tapachula, Mexico*

1563**UPDATE ON THE INSECTICIDE RESISTANCE PROFILE OF AEADES AEGYPTI FROM CENTRAL AMERICA AND THE CARIBBEAN****Nelson Grisales¹**, Dereje Dengela¹, Melany Murillo¹, Sayra Chanquin¹, Gabriel Orellana¹, Lorence Jean¹, Gavino Guzman¹, Magdiel Rivera¹, Sara Brujan¹, Denis Escobar², Zoraida Morales³, Eduardo Romero⁴, Jean F. Lemoine⁵, Allison Belemvire⁶, Carolina Torres Gutierrez¹¹*Abt Associates, Rockville, MD, United States*, ²*Secretaría de Salud Honduras, Tegucigalpa, Honduras*, ³*Ministerio de Salud Pública y Asistencia Social de Guatemala, Ciudad de Guatemala, Guatemala*, ⁴*Ministerio de Salud de El Salvador, San Salvador, El Salvador*, ⁵*Ministère de la Santé Publique et de la Population, Port au Prince, Haiti*, ⁶*United States Agency for International Development, Arlington, VA, United States*

1564**YEAST-ENCAPSULATION OF CITRUS-DERIVED ESSENTIAL OILS AS AN ENVIRONMENTALLY FRIENDLY LARVICIDE****Michael J. Workman¹**, Scott Matthews¹, Linnea Ista², Fernando Genta³, Ravi Durvasula⁴, Ivy Hurwitz¹¹*University of New Mexico Health Science Center, Center for Global Health, Albuquerque, NM, United States*, ²*University of New Mexico, Center for Biomedical Engineering, Albuquerque, NM, United States*, ³*Oswaldo Cruz Institute, Rio de Janeiro, Brazil*, ⁴*Loyola University Medical Center, Maywood, IL, United States*

1565**IMPROVING THE EVIDENCE BEHIND ENTOMOLOGICAL THRESHOLDS FOR INTEGRATED VECTOR MANAGEMENT OF WEST NILE VIRUS****Pascale C. Stiles**, Christopher M. Barker*University of California Davis, Davis, CA, United States*

1566**LOSS OF PYRETHROID RESISTANCE IN AEADES AEGYPTI FROM SOUTHERN MEXICO AFTER EIGHT GENERATIONS WITHOUT INSECTICIDE EXPOSURE****Farah Z. Vera-Maloof¹**, Karla L. Saavedra-Rodriguez¹, Ashley Janich¹, Francisco Solis-Santoyo², Alma D. Lopez-Solis², Patricia Penilla-Navarro², Americo Rodriguez², Pablo Manrique³, Felipe Dzul⁴, William C. Black¹¹*Colorado State University, Fort Collins, CO, United States*, ²*Centro Regional de Investigación en Salud Pública, Tapachula, Mexico*, ³*Universidad Autónoma de Yucatán, Mérida, Mexico*, ⁴*Centro Nacional De Programas Preventivos y Control De Enfermedades, Mexico City, Mexico*

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NOVEL STRATEGIES TO ANALYZE INSECTICIDE RESISTANCE GENES OF LATIN AMERICAN MALARIA VECTORS

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CONSTANT SPATIAL PATTERNS OF HIGH DENSITY OF Aedes Aegypti EGGS AND THEIR CORRELATION WITH SURROUNDING ROOFED AREA OBTAINED FROM SATELLITE IMAGES

Adrian Vasquez-Mejia¹, Johans A. Arica-Gutierrez², Edwar J. Pozo³, Salvador Villegas-Tirado⁴, Monica Melendez-Marón⁵, Carlos Culquichicón¹, Andres G. Lescano¹

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THE GENETIC BASIS FOR OUTDOOR HOST-SEEKING BEHAVIOR IN ANOPHELES COLUZZII DURING THE BIKO ISLAND MALARIA CONTROL PROJECT

Jacob I. Meyers¹, Giri Athrey¹, Godwin Fuseini², Abrahan Matias², Guillermo Garcia², Hans Overgaard³, Vani Kulkarni¹, Vamsi Reddy¹, Christopher Schwabe², Immo Kleinschmidt⁴, Michel Slotman¹

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Mosquitoes – Vector Biology- Epidemiology

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SURVEY FOR VIRAL SYMBIONTS IN MOSQUITOES FROM TEXAS, USA AND THEIR INFLUENCE ON VECTOR COMPETENCE OF ZONOTIC ARBOVIRUSES

Estelle Martin¹, Selen Garcia-Luna¹, Andrew Golnar¹, Wendy Tang¹, Monica Borucki², Megan Wise de Valdez³, Matthias Frank², Gabriel Hamer¹

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HIGH RISK OF MALARIA TRANSMISSION BY NYSSORHYNCHUS DARLINGI IN THE MAZAN DISTRICT, IN THE PERUVIAN AMAZON

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THE ROLE OF THE MIDGUT BARRIER IN DETERMINING MOSQUITO COMPETENCE FOR ZIKA VIRUS

Hannah J. MacLeod, Yeseinia I. Angleró-Rodríguez, George Dimopoulos Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

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Virgile Gnanguenon¹, Anatolie Ndashyimiye², Gilbert Ntampuhwe¹, Denis Sinzinkayo², Lievin Nsabiyumva³, Mary Hadley³, Akilu Seyoum⁴, Christen Fornadel⁵

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SIGNIFICANT REDUCTION OF MALARIA VECTOR TRANSMISSION FROM 2001 TO 2016 A REAL HOPE OF A FUTURE NONE SEVER MALARIA IN MALI

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THE IMPACT OF CO-CIRCULATING PARASITES ON WEST NILE VIRUS TRANSMISSION

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A NOVEL APPROACH FOR PRODUCING FIELD-BASED ESTIMATES OF ANOPHELES GAMBIAE BITING BEHAVIOR AND DISPERSAL ABILITY

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ACOUSTICS BEHAVIOR OF THE MALARIA VECTOR ANOPHELES ALBIMANUS

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VECTOR MOSQUITOES AND COMMUNITY KNOWLEDGE, ATTITUDES, AND PRACTICES DURING HURRICANE RESPONSE AND RECOVERY IN THE UNITED STATES VIRGIN ISLANDS

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Carolina Torres Gutierrez¹, Dereje Dengela¹, Melany Murillo¹, Tanya Cortez¹, Gabriel Orellana¹, Orlando Urrutia¹, Sayra Chanquin¹, Marianela Menes¹, Lorence Jean¹, Denis Escobar², Zoraida Morales³, Eduardo Romero⁴, Jean F. Lemoine⁵, Paula Wood¹, Allison Belemvire⁶, Nelson Grisales¹
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Christine M. Jones¹, Jennifer C. Stevenson¹, Ilinca I. Ciubotariu¹, James Lupiya², David Mbewe², Mbanga Muleba², Douglas Norris¹
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Ilinca I. Ciubotariu, Jennifer C. Stevenson, Tamaki Kobayashi, Giovanna Carpi, Christine M. Jones, Douglas E. Norris
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AMERICAN ROBINS AND COMMON GRACKLES EXPERIMENTALLY INFECTED WITH WEST NILE VIRUS DIFFER IN THEIR INFECTIVENESS TO CULEX PIPIENS MOSQUITOES

Jefferson A. Vaughan¹, Elizabeth S. Andrews², Juanita M. Hinson², Michael J. Turell²
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IDENTIFICATION OF PUTATIVE MOSQUITO VECTORS IN AN ARBOVIRAL ENDEMIC AREA OF COSTA RICA

Luis M. Romero-Vega¹, Daniel Barrantes², Martha Piche-Ovares¹, Claudio Soto-Garita¹, Adriana Troyo¹, Eugenia Corrales-Aguilar¹
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Wezi E. Mkwaila¹, Edward Walker², Charles Mangani³, Leo Zulu², Terrie Taylor², Don Mathanga³, Themba Mzilahowa³
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APPLICATION OF A NOVEL HIGH-THROUGHPUT MOLECULAR APPROACH FOR VECTOR-BORNE DISEASE SURVEILLANCE TO MALIAN AND GUINEAN MOSQUITOES

Haikel N. Bogale¹, Matthew Cannon¹, Kalil Keita², Denka Camara², Yaya Barry², Moussa Keita², Mark Travassos¹, Seth Irish³, David Serre¹
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DIVERSITY OF ANOPHELES MOSQUITOES FROM ANTHROPIC LANDSCAPES OF AN ENDEMIC MALARIA REGION OF COLOMBIA

Juan C. Hernandez, Daniel Rincon, Nelson Naranjo, Stiven Quintero, Alba Marin, Margarita M. Correa
Universidad de Antioquia, Medellin, Colombia

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Aditi Kulkarni, Wanqin Yu, Jennifer Curtiss, Jiannong Xu
New Mexico State University, Las Cruces, NM, United States

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Sarah M. Short, Hannah J. MacLeod, George Dimopoulos
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Alphaviruses (Includes Chikungunya)

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Kasen K. Riemersma, Cody Steiner, Anil Singapuri, Lark L. Coffey
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Patrick Gérardin¹, Olivier Rollot², Victorine Lenclume², Adrian Fianu³, Corinne Mussard², Sylvaine Porcherat², Karim Boussaid², Olivier Maillard⁴, Laetitia Huiart⁵, Catherine Marimoutou²
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Laura I. Levi, James Lucarelli-Weger, Veronica Rezelj, Pierre Lechat, Veronika Bernhauerova, Annabelle Henrion-Lacritick, Enzo Poirier, Thomas Vallet, Gonzalo Moratorio, Carla Saleh, Marco Vignuzzi
Pasteur Institut, Paris, France

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IMMUNOLOGICAL INSIGHTS BASED ON ANTIBODY BINDING EPITOPES ON THE CHIKUNGUNYA VIRUS ENVELOPE

Rachel H. Fong¹, Rebecca Rimkunas¹, Jin Jing², Graham Simmons², Michael S. Diamond³, Benjamin J. Doranz¹
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UNDERSTANDING THE ROLE OF RECOMBINATION IN ARBOVIRUS EVOLUTION

Veronica V. Rezelj, Dinh Tran, Thomas Vallet, Laura Levi, Marco Vignuzzi
Institut Pasteur, Pasteur, France

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PRECLINICAL DEVELOPMENT OF A COMBINATION ZIKA AND CHIKUNGUNYA VIRUS-LIKE PARTICLE VACCINE

Lo Vang, Ben Guenther, Carla Uranga, Jason Mendy, Elena Betancourt, Danielle Thompson, Jayavani Aruri, Jonathan Smith, Jeffery Alexander
PaxVax, Inc., San Diego, CA, United States

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DEVELOPMENT OF A HIGH THROUGHPUT LUCIFERASE-BASED CHIKUNGUNYA NEUTRALIZATION ASSAY

Jason A. Mendy¹, Matt Hickman¹, Elena Betancourt¹, Danielle Thompson¹, Lo Vang¹, Doug Haney¹, Holly Stoddard¹, Sean Bennett¹, Lisa Danzig¹, Jo Cox², Julie Ledgerwood², Kimberly Dowd³, Ted Pierson³, Barney Graham², Marc Gurwith¹, Jonathan Smith¹, Jeffery Alexander¹
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FIRST REPORT OF MADARIAGA VIRUS FROM A CLAY-COLORED TRUSH (TURDUS GRAYI) IN GUANACASTE, COSTA RICA

Marta Piche-Ovares¹, Daniel Barrantes², Mario Romero-Vega¹, Claudio Soto-Garita¹, Alejandro Alfaro-Alarcón², Carlos Jiménez-Sánchez³, Eugenia Corrales-Aguilar¹
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THE CHIKUNGUNYA VIRUS OUTBREAK IN GRENADA 2013 - EVOLUTION, EPIDEMIC ACTIVITY, AND PHYLODYNAMICS

Sean V. Edgerton¹, Sarah Ohashi², Katherine R. Lane³, Claire J. Heath⁴, Trevor P. Noël⁵, Calum Macpherson⁵, George Mitchell⁶, Thomas Morrison⁷, Angelle Desirée LaBeaud⁴, Shannon N. Bennett¹
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Wednesday
October 31

Flaviviridae - Dengue

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CHARACTERIZATION OF PROTECTIVE MECHANISMS BY ANTIBODIES AGAINST DENGUE VIRUS NS1

Diego A. Espinosa¹, Dustin R. Glasner¹, Henry Puerta-Guardo¹, Chunling Wang¹, Milena Dimitrova¹, David L. Akey², Jamie Konwerski², W. Clay Brown², Janet L. Smith², P. Robert Beatty¹, Eva Harris¹
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UNRECOGNIZED DENGUE AND CHIKUNGUNYA HUMAN TRANSMISSION IN WESTERN AND COASTAL KENYA

A. Desiree LaBeaud¹, Francis M. Mutuku², Elysse N. Grossi-Soyster¹, David M. Vu¹, Amy R. Krystosik¹, Justin Lee¹, Dunstan Mukoko³, Charles H. King⁴, Bryson A. Ndenga⁵
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COULD VIRAL CO-INFECTION OF MOSQUITOES IMPACT VECTOR CONTROL? A NEW DEVELOPMENT FOR BIOLOGICAL VECTOR CONTROL

Avian White
East Carolina University, Washington, NC, United States

(ACMCIP Abstract)

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CONTRIBUTION OF TYPE-SPECIFIC VERSUS CROSS-REACTIVE ANTIBODIES TO NEUTRALIZATION FOLLOWING REPEAT DENGUE VIRUS INFECTIONS

Daniela V. Andrade¹, Ciara Gimblet-Ochieng², Paulina Andrade¹, Magelda Montoya¹, Leah C. Katzelnick¹, Sandra Henein², Aravinda de Silva², Eva Harris¹
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COMPREHENSIVE MUTAGENESIS OF DENGUE VIRUS ENVELOPE PROTEINS TO MAP ANTIBODY EPITOPES AND IDENTIFY RESIDUES ESSENTIAL FOR FUNCTION

Edgar Davidson, Tabb Sullivan, Jen M. Pfaff, Srikar Reddy, Benjamin J. Doranz
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QUALITY OF THE ANTIBODY RESPONSE INDUCED BY A LIVE ATTENUATED TETRAVALENT DENGUE VACCINE IN NAIVE AND DENGUE EXPOSED INDIVIDUALS

Laura J. White¹, Mark Stoops¹, Jessica Swannstrom¹, Ellen Young¹, Swati Mukherjee², Hansi Dean², Ralph S. Baric¹, Aravinda M. de Silva¹
¹University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, ²Takeda Vaccines Inc., Cambridge, MA, United States

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PRE-EXISTING T CELL SUBSETS AND THEIR ASSOCIATION WITH SUBSEQUENT SUBCLINICAL VERSUS SYMPTOMATIC DENGUE INFECTION

Heather Friberg¹, Anuja Mathew², Kathryn B. Anderson³, Damon Ellison⁴, Louis R. Macareo⁴, Timothy Endy⁵, Richard G. Jarman¹, Alan L. Rothman², Jeffrey R. Currier¹
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DTK-DENGUE: A NEW AGENT-BASED MODEL OF DENGUE VIRUS TRANSMISSION DYNAMICS

James Soda¹, Sean M. Moore¹, Guido España¹, Jonathan Bloedow², Benoît Raybaud², Benjamin M. Althouse², Michael A. Johansson³, Edward A. Wenger², Philip A. Welkhoff⁴, Alex Perkins¹, Quirine A. ten Bosch⁵
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SURVEILLANCE OF DENGUE VIRUS INFECTION IN NEPAL IN 2015

Melanie D. McCauley¹, Krishna Das Manandhar², Birendra Gupta², Simona Zompi³, October Sessions⁴, Sujan Shrestha⁵
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CHARACTERIZATION OF SERA FROM DENGUE INACTIVATED VACCINE PRIMED VOLUNTEERS THAT HAD IMPROVED NEUTRALIZING ANTIBODY RESPONSES AFTER LIVE ATTENUATED DENGUE VACCINE BOOSTING

Gregory D. Gromowski, Caitlin H. Kuklis, Qiong Chen, David A. Barvir, Rafael De La Barrera, Tao Li, Wiriya Rutvisuttinunt, Michael K. McCracken, Kenneth H. Eckels, Leyi Lin, Michael A. Koren, Richard G. Jarman
Walter Reed Army Institute of Research, Silver Spring, MD, United States

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SAFETY, EFFICACY AND IMMUNOGENICITY OF DENGUE VACCINES: SYSTEMATIC REVIEW AND NETWORK META ANALYSIS OF RANDOMIZED CONTROLLED TRIALS

Nourin Ali Sherif¹, **Zaheer Ahmad Qureshi**², Mina Fransawy Alkomos³, Ahmed Mohammed Alhusseiny¹, Khaled Mosaad Elhusseiny³, Islam Ashraf Mohyeldin⁵, Abdelrahman Awad Zakzouk⁶, Yasmien Sherif Morsy⁷, Mohamed Ashraf Mokhtar⁸, Mohamed El Sayed Farrag⁹, Nguyen Tien Huy¹⁰
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COST-EFFECTIVENESS OF DENGVAIXIA VACCINATION OF PEOPLE WITH PRIOR DENGUE VIRUS EXPOSURE IN TEN LATIN AMERICAN AND ASIAN COUNTRIES

Yutong Yao, Guido España, Alex Perkins
University of Notre Dame, South Bend, IN, United States

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POST-VACCINATION ANTIBODY RESPONSE OF DENGUE SEROTYPE 3 BREAKTHROUGH INFECTIONS

Cameron R. Adams, Ellen Young, Emily Gallichotte, Sandra Henein, Ralph Baric, Aravinda de Silva
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EMERGENCE OF A DENGUE VIRUS SEROTYPE 2 CAUSING A LARGE DENGUE EPIDEMIC IN SRI LANKA

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MAGNITUDE AND FUNCTIONALITY OF NS1-SPECIFIC ANTIBODY RESPONSE ELICITED BY TAKEDA'S TETRAVALENT DENGUE VACCINE CANDIDATE

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CO-DEVELOPING CLIMATE SERVICES FOR PUBLIC HEALTH: STAKEHOLDER NEEDS AND PERCEPTIONS FOR THE PREVENTION AND CONTROL OF Aedes-TRANSMITTED DISEASES IN THE CARIBBEAN

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CLINICAL AND ANALYTICAL PERFORMANCE OF THE TRIOPLEX REAL TIME RT-PCR ASSAY DURING THE 2016 ZIKA EPIDEMIC IN PUERTO RICO

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IMPROVEMENT OF THE DENGUE NON-HUMAN PRIMATE MODEL VIA A REVERSE TRANSLATIONAL APPROACH BASED ON DENGUE VACCINE CLINICAL EFFICACY DATA

Veronique Barban, Nathalie Mantel, Aymeric De Montfort, Anke Pagnon, Fabrine Pradezynski, Jean Lang, Florence Boudet
Sanofi Pasteur, Marcy L'Etoile, France

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IDENTIFICATION OF NOVEL TYPE-SPECIFIC NEUTRALIZING ANTIBODY EPITOPES IN THE DENGUE VIRUS TYPE 3 ENVELOPE GLYCOPROTEIN

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POTENCY AND BREADTH OF HUMAN IMMUNE SERA FOLLOWING PRIMARY DENGUE VIRUS INFECTION

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SEROLOGICAL DISCRIMINATION OF DENGUE AND ZIKA INFECTIONS

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CHARACTERIZATION OF A MURINE MODEL OF NON-LETHAL, SYMPTOMATIC DENGUE VIRUS INFECTION

Vanessa V. Sarathy, Mellodee White, Li Li, Jaclyn A. Kaiser, Gerald A. Campbell, Gregg N. Milligan, Nigel Bourne, Alan D. Barrett
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ENDEMICITY AND EMERGENCE OF ARBOVIRUSES IN PIEDECUESTA, COLOMBIA

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AVIAN IGY ANTIBODIES RECOGNIZE NOVEL DENGUE NS1 EPITOPES WITH THE ABILITY TO NEUTRALIZE INFECTION AND REDUCE VASCULAR LEAKAGE WITHOUT INDUCING ANTIBODY DEPENDENT ENHANCEMENT

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Wednesday
October 31

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TOWARDS THE DEVELOPMENT OF A FEASIBLE DENGUE FORECASTING SYSTEM IN AN ENDEMIC COUNTRY

Katia Charland¹, Elaine Nsoesie², Mabel Carabali³, Gloria Jaramillo Ramirez⁴, Cesar Balaguera⁴, Mathieu Maheu-Giroux³, Audrey Smargiassi¹, Moritz UG Kraemer⁵, Erin Rees⁶, Linda Vrbova⁷, Alexandra Schmidt³, **Kate Zinszer**¹

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VALIDATION OF CLINICAL ALGORITHMS FOR THE DIAGNOSIS OF DENGUE IN ENDEMIC AREAS OF COLOMBIA

Diana M. Caicedo, José R. Tovar, Lyda Osorio
University of Valle, Cali, Colombia

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DIMER-DEPENDENT QUATERNARY EPITOPES ENHANCE QUALITATIVE IMMUNE RESPONSES IN FLAVIVIRUS E-SUBUNIT VACCINE CANDIDATES

Stefan W. Metz, Ashlie Thomas, Xianwen Yi, Jason Coffman, Jillian Perry, Michael J. Miley, Shaomin Tian, Aravinda M. de Silva
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METABOLIC BIOSIGNATURES DEFINE THE PATHOGENIC STATE OF FLAVIVIRAL DISEASE

Rushika Perera¹, Rebekah C. Gullberg¹, Barbara Andre¹, Kimberly Anderson¹, Stephanie Mills¹, Elena Lian¹, Kristen Krieger¹, Lionel Gresh², Raquel Burger-Calderon³, Amber Hopf-Jannasch⁴, Angel Balmaseda⁵, Barry Beaty¹, Eva Harris⁶, Carol Blair¹

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FIRST ISOLATION OF DENGUE VIRUS SEROTYPE 3 IN A NORTH REGION OF PERU: MOLECULAR DIAGNOSIS AND CLINICAL CHARACTERISTICS

Miguel A. Aguilar-Luis¹, Johanna Martins-Luna², Wilmer Silva-Caso³, Claudia Weigl², Fernando Mazulis², Luis del Valle⁴, Fernando Vásquez-Achaya², Jorge Bazán-Mayra⁵, Víctor Zavaleta⁵, Homero Bazán-Zurita⁶, Juana del Valle-Mendoza³

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Flaviviridae - Other

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ANTIBODY PERSISTENCE AND IMMUNE MEMORY RESPONSE FOLLOWING VACCINATION WITH LIVE ATTENUATED SA 14-14-2 JAPANESE ENCEPHALITIS VACCINE [CD.JEVAX, CHENGDU INSTITUTE OF BIOLOGICAL PRODUCTS]

K. Zaman¹, Md. Yunus¹, **Jodi Feser**², Asma B. Aziz¹, Jessica Mooney², Yuxiao Tang², Damon W. Ellison³, Lei Zhang⁴, G. William Letson², Anthony A. Marfin²
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ZIKA VIRUS FORECASTING AND PREDICTION STUDIES: A SYSTEMATIC REVIEW AND EVALUATION OF THEIR UTILITY DURING A GLOBAL HEALTH EMERGENCY

Pei-Ying Kobres¹, Jean-Paul Chretien², Cecile Viboud³, Matthew Biggerstaff⁴, Talia Quandelacy⁵, Pai-Yei Whung⁶, Jeffrey Morgan⁷, Michael Johansson⁴, Simon Pollett⁸

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EFFECT OF TEMPERATURE ON THE EXTRINSIC INCUBATION PERIOD OF ZIKA VIRUS IN Aedes Aegypti

Olivia C. Winokur, Bradley J. Main, Jay Nicholson, Christopher M. Barker
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CONTRASTING THE VALUE OF TARGETED VERSUS AREA-WIDE MOSQUITO CONTROL SCENARIOS TO LIMIT ZIKA VIRUS TRANSMISSION FOR DIFFERENT TROPICAL URBAN POPULATION CENTERS

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THE EFFECT OF TIMELY INTENSIVE SPACE SPRAY ON DISEASE CONTROL IN TWO ZIKA VIRUS OUTBREAKS IN SOUTHERN THAILAND

Theerut Densathaporn¹, Somchai Nakthungtao², Virasakdi Chongsuvivatwong¹, Rassamee Sangthong¹, Mekkla Thompson³
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ARBOVIRAL DISEASE IN PAKISTAN: 2015-2017

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IDENTIFYING ENVIRONMENTAL RISK FACTORS AND MAPPING THE RISK AND OF HUMAN WEST NILE VIRUS

Andrea Hess, Justin K. Davis, Michael C. Wimberly
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SURVEILLANCE OF FLAVIVIRUSES IN MOSQUITOES, CARIBBEAN REGION OF COLOMBIA, 2017-2018

Salim Mattar¹, María Atencia-Pineda¹, Hector Contreras¹, Joel Montgomery², Stephanie Salyer², Nicholas Komar³
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ZIKA VIRUS PERSISTENCE AND VIRAL LOAD IN BODY FLUIDS OBTAINED FROM INFECTED PATIENTS

María E. Silva¹, Julia S. Ampuero¹, David Guerrero², Carrion Gladys¹, Carolina Guevara¹, Yojani Aguilar³, Dina Popuche¹, Alfredo Huaman¹, Crystyan Siles¹, Juan Wong⁴, Christopher Mores¹
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ZIKA VIRUS NS1 PROTEIN MODULATES THE BARRIER FUNCTION OF HUMAN PLACENTAL EXPLANTS AND HUMAN TROPHOBLAST CELL LINES

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ZIKA VIRUS TRANSMISSION IN SRI LANKA

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EVALUATION OF ZIKV POTENTIAL TO INFECT VERTEBRATES AND MOSQUITOES IN AN URBAN-SYLVATIC INTERFACE IN COLOMBIA

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INCIDENCE OF GUILLAIN-BARRÉ SYNDROME IN LATIN AMERICA AND THE CARIBBEAN FOLLOWING THE 2015-2016 ZIKA EPIDEMIC

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ZIKA VIRUS INFECTION IN OLIGOSYMPTOMATIC AND ASYMPTOMATIC CLOSE CONTACTS IN PERU

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ARBOVIRUS CO-INFECTIONS PROLONG DISEASE DURATION AND DELAY VIRAL CLEARANCE

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VACCINATION FOR JAPANESE ENCEPHALITIS IN THE PHILIPPINES: A COST-EFFECTIVENESS ANALYSIS

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RAPID DIAGNOSIS OF CHIKUNGUNYA VIRUS BY MOLECULAR TECHNIQUES RT-PCR AND RT-LAMP IN FEBRILE PATIENTS FROM MACHALA, ECUADOR AND TUMBES, PERU

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IMPACT OF JAPANESE ENCEPHALITIS VACCINE INTRODUCTION, UTTAR PRADESH, INDIA, 2006-2017

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ASSESSING THE IMPACT OF HOUSE ABANDONMENT ON Aedes Aegypti-TRANSMITTED DISEASE RISK TWO YEARS AFTER THE 2016 EARTHQUAKE IN BAHÍA DE CARÁQUEZ, ECUADOR

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USE OF DISPERSION INDEX TO IDENTIFY KEY CONTAINERS RESPONSIBLE FOR Aedes Aegypti BREEDING IN SELECT COMMUNITIES OF GUATEMALA

Julie Buekens¹, Julie Niemczura de Carvalho¹, Megan Perry¹, Jose Ernesto Monzon², Arturo Sanchez², Juan Arredondo³, Luis Benavente¹

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EVALUATION OF COMMUNITY-LEVEL VECTOR CONTROL ACTIVITIES AND Aedes Aegypti EGG DENSITY INDICES IN GUATEMALA

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URBANIZATION INCREASE THE POPULATION ABUNDANCE OF EARED DOVE (ZENaida AURICULATA), AMPLIFYING HOST OF ST. LOUIS ENCEPHALITIS VIRUS (SLEV, FLAVIVIRUS)

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FITNESS OF ZIKA VIRUS MUTATIONS CIRCULATING IN THE AMERICAS

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ENABLING HEALTHCARE ACCESS FOR HEPATITIS C THROUGH COMMUNITY-BASED SCREENING AND LINKAGE TO CARE

Austin T. Jones, Keanan M. McGonigle, Tess F. Carley, Linda Nix, Morris M. Kim, Sonal G. Mallya, Meaghan O. Coyne, Frances Lee, Joseph M. Kanter, Patricia Kissinger, Latha Rajan

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COINFECTION OF PLACENTAS FROM CONGENITAL ZIKA VIRUS INFECTION WITH HUMAN CYTOMEGALOVIRUS IN BABIES WITH AND WITHOUT MICROCEPHALY

Lenore Pereira¹, Matthew Pettit¹, Anna Gajewski², June Fang-Hoover¹, Liliam Llufrío², David Schwartz³, Angel Balmaseda⁴, Eva Harris⁵

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GROWTH AND DEVELOPMENTAL OUTCOMES OF CONGENITAL ZIKA INFECTION DURING FOLLOW-UP OF A CHILD COHORT FROM SALVADOR, BRAZIL

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KINETICS OF ANTI ZIKA-IGG ANTIBODIES DURING FOLLOW-UP OF INFANTS EXPOSED TO ZIKA VIRUS IN UTERO

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IMPLICATIONS OF CONGENITALLY ACQUIRED AND EARLY EXPOSURE TO ZIKA VIRUS INFECTION ON CHILD NEURODEVELOPMENT

Shiara M. Ortiz Pujols¹, Eveling L. Martinez Rosales², Barbara D. Goldman³, Matt Collins¹, Meylin Chavarria Tórriz², Leyla Rosales Quintana², Yaoska Reyes², Omar Zepeda², Aravinda de Silva¹, Filemon Bucardo², Sylvia Becker-Dreps¹, Elizabeth Stringer¹, Natalie Bowman¹

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Viruses - Other

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EXPLORING THE DIFFERENCES IN IMMUNE RESPONSES BETWEEN SURVIVORS AND NONSURVIVORS OF ZAIRE EBOLA VIRUS CHALLENGE IN CYNOMOLGUS MACAQUES VACCINATED WITH A RECOMBINANT SUBUNIT BASED VACCINE

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STANDARDIZATION OF A FOUR-PLEX FORMAT REVERSE TRANSCRIPTION REAL TIME PCR FOR THE SIMULTANEOUS DETECTION OF ZIKA, CHIKUNGUNYA, DENGUE AND YELLOW FEVER IN PERU

Oscar Escalante-Maldonado, Maria Paquita Garcia, Adolfo Marcelo, Cesar Cabezas, Ronnie Gustavo Gavilan
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DEVELOPMENT OF THERMOSTABLE FILOVIRUS VACCINES BASED ON RECOMBINANT INSECT CELL EXPRESSED SUBUNITS

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SPATIOTEMPORAL HETEROGENEITY IN THE DISTRIBUTION OF CHIKUNGUNYA AND ZIKA VIRUS CASE INCIDENCES AND RISK FACTORS DURING THEIR EPIDEMICS IN BARRANQUILLA (COLOMBIA) BETWEEN 2014 AND 2016

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TRENDS IN INFLUENZA AND OTHER RESPIRATORY VIRUSES IN SOUTHERN PUERTO RICO, 2012-2017

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1667

A RECOMBINANT VESICULAR STOMATITIS VIRUS EXPRESSING THE JUNIN VIRUS GLYCOPROTEIN PROTECTS GUINEA PIGS FROM LETHAL JUNIN VIRUS CHALLENGE

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1668

DIAGNOSTIC NEEDS FOR LASSA FEVER OUTBREAK DETECTION, CLINICAL CARE, AND VACCINE DEVELOPMENT

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1669

ISOLATION OF CHIKUNGUNYA VIRUS FROM HUMANS IN CHIAPAS, MEXICO

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1670

GENOMIC EPIDEMIOLOGY OF RABIES VIRUS IN THE EASTERN UNITED STATES

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1671

ISOLATION OF BACTERIOPHAGES FROM THE PERUVIAN AMAZON RIVER BASIN AGAINST CLINICALLY RELEVANT MULTI-DRUG RESISTANT (MDR) KLEBSIELLA PNEUMONIA IN SUPPORT OF PHAGE THERAPEUTIC DEVELOPMENT

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(ACMCIP Abstract)

1672

CYTOMEGALOVIRUS-RELATED CHANGES IN T CELL PHENOTYPE ARE ASSOCIATED WITH REDUCED VACCINE RESPONSES IN YOUNG ADULTS IN THE UK AND SENEGAL

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1673

A GLOBAL SUCCESS STORY: THE INCREDIBLE DECLINE OF POLIOMYELITIS INCIDENCE, PREVALENCE, AND MORTALITY. RESULTS FROM THE GLOBAL BURDEN OF DISEASE STUDY 2017

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1674

FRUIT BAT ECTOPARASITES OF BUNDIBUGYO DISTRICT, UGANDA HOST DIVERSE RHABDOVIRUSES: IMPLICATIONS FOR VECTORBORNE TRANSMISSION OF “BAT-ASSOCIATED” VIRUSES

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DETERMINING THE EFFICACY, SAFETY, AND SUITABILITY OF DISINFECTANTS TO PREVENT EMERGING INFECTIOUS DISEASE TRANSMISSION

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1676

MAPPING ROTAVIRUS DIARRHEA IN CHILDREN AT THE 5 X 5 KM SCALE ACROSS AFRICA, 2000 - 2016

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ASSOCIATION OF ADENOVIRUSES 40-41 AND AICHIVIRUS TO DIARRHEA IN MEDICALLY-ATTENDED CHILDREN IN PERU

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1678

ISOLATION, SUBTYPE DETERMINATION AND ALTENUATION OF LASSA FEVER VIRUS FROM WILD RODENTS IN SOUTHWEST NIGERIA

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1679

7-HYDROXYSTAUROSPORINE, UCN-01, IS AN EFFECTIVE INHIBITOR OF LIPID ENVELOPED VIRUS REPLICATION

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Malaria –Biology and Pathogenesis

1680

ATORVASTATIN REDUCES MALARIA LIVER STAGE DEVELOPMENT IN A RODENT MODEL

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1681

CASE OF SYMPTOMATIC P. VIVAX INFECTION WITH PARASITE DENSITY HIGHER THAN COMMONLY OBSERVED IN DUFFY BLOOD GROUP NEGATIVE PATIENT IN MALI, WEST AFRICA

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1682

EXPLORATION OF CROSSTALK BETWEEN INFLAMMATION, COAGULATION, AND OXIDATIVE STRESS HOST RESPONSES IN MALARIA-INDUCED MIDGESTATIONAL PREGNANCY LOSS IN A RODENT MODEL

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(ACMCIP Abstract)

1683

ZINC AND OTHER METAL CONCENTRATIONS IN UGANDAN CHILDREN WITH SEVERE MALARIAL ANEMIA COMPARED TO COMMUNITY CHILDREN

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1684

EXTRACELLULAR FLUX ANALYSIS REVEALS THE MAJOR METABOLIC SHIFT AND DIFFERENTIAL SUBSTRATE UTILIZATION FOR OXPHOS ACTIVITY DURING GAMETOCYTE DEVELOPMENT

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1685

DISSECTING THE MECHANISMS OF MALARIA INDUCED ANEMIA IN RODENT MALARIA MODELS

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(ACMCIP Abstract)

1686

AN ER-RESIDENT HSP40 IS REQUIRED FOR THE ASEYUAL DEVELOPMENT OF THE MALARIA PARASITE P. FALCIPARUM

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1687

MALIAN CHILDREN WITH HEMOGLOBIN C OR S TRAIT RECOGNIZE FEWER EXTRACELLULAR PFEMP1S THAN CHILDREN WITH HEMOGLOBIN AA, BUT DIFFER IN RECOGNITION OF CD36-BINDING PFEMP1S

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1688

REVERSIBLE BRAIN SWELLING IN EXPERIMENTAL CEREBRAL MALARIA

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1689

MALARIA IN PREGNANCY INCREASES THE RISK OF PRETERM BIRTH IN ASSOCIATION WITH LONGITUDINAL CHANGES IN ANGIOGENIC, METABOLIC, AND INFLAMMATORY PATHWAYS

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1690

INVESTIGATING THE ROLE OF VASCULAR ALPHA GLOBIN IN EXPERIMENTAL CEREBRAL MALARIA

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1691

THE ASSOCIATION OF BLOOD TRANSFUSION WITH OUTCOME AMONG AFRICAN CHILDREN HOSPITALIZED WITH PLASMODIUM FALCIPARUM MALARIA

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1692

MORPHOLOGICAL CHARACTERIZATION AND IDENTIFICATION OF CONSERVED PLASMODIUM BLOOD STAGE PROTEINS IN COLPODELLA SP., FREE-LIVING RELATIVES OF APICOMPLEXANS

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1693

DO ALPHA GLOBIN GENE VARIANTS AFFECT ENDOTHELIAL FUNCTION IN PATIENTS WITH SEVERE MALARIA?

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1694

THERE IS RIBOSOME STALLING IN PLASMODIUM FALCIPARUM

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1695

IS COMPLICATED MALARIA AN IMPORTANT CAUSE OF ILLNESS AMONG ADULTS IN KAMPALA, UGANDA?

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Malaria – Chemotherapy and Drug Resistance

1696

PREVALENCE OF MOLECULAR MARKERS ASSOCIATED WITH ARTEMISININ, LUMEFANTRINE AND AMODIAQUINE RESISTANCE IN PRE-TREATMENT ISOLATES FROM TWO THERAPEUTIC EFFICACY MONITORING SITES IN GUINEA, 2016

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1697

GENOMIC PROFILE OF PLASMODIUM FALCIPARUM PARASITES LACKING HISTIDINE-RICH PROTEIN (PFHRP2) FROM ERITREA

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1698

EFFICACY OF ARTESUNATE-AMODIAQUINE IN THE TREATMENT OF FALCIPARUM UNCOMPLICATED MALARIA IN MADAGASCAR

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1699

ARTEMISININ RESISTANCE? MIND THE TRAFFIC ...

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1700

TARGETED DEEP AMPLICON SEQUENCING ANALYSIS OF KELCH 13 AND CYTOCHROME B GENES IN PLASMODIUM FALCIPARUM ISOLATES FROM ERITREA

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1701

DISTRIBUTION AND ORIGINS OF PFCRT MUTATIONS ASSOCIATED WITH PIPERAQUINE RESISTANCE IN CAMBODIA

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1702

ACQUISITION OF POINT MUTATIONS IN DIHYDROPTEROATE SYNTHETASE GENE DRIVE COPY NUMBER VARIATIONS OF GTP-CYCLOHYDROLASE 1 (GCH1) GENE IN GHANAIAN PLASMODIUM FALCIPARUM ISOLATES

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1703

DRUG SENSITIVITIES AND MECHANISMS OF RESISTANCE IN UGANDAN PLASMODIUM FALCIPARUM ISOLATES TO LEAD ANTIMALARIALS IN THE MEDICINES FOR MALARIA VENTURE DEVELOPMENT PIPELINE

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1704

IDENTIFICATION OF A DUAL LIVER-ASEXUAL STAGE ANTIMALARIAL TARGETING PFDHODH

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DISAPPEARANCE OF CHLOROQUINE RESISTANT PLASMODIUM FALCIPARUM IN EASTERN UGANDA

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1706

EFFECT OF THE QUINOLINE RING SUBSTITUTION PATTERN ON THE ACTIVITY OF REVERSED CHLOROQUINE COMPOUNDS

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1707

MOLECULAR SURVEILLANCE FOR ARTEMISININ RESISTANCE ASSOCIATED KELCH 13 MUTATIONS IN PLASMODIUM FALCIPARUM SAMPLES FROM THE STATE OF RORAIMA, BRAZIL

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1708

**THE ACT PARTNER DRUG MOLECULAR SURVEYOR:
ONLINE MAPPING DATABASE FOR *PLASMODIUM
FALCIPARUM* DRUG RESISTANT MOLECULAR MARKERS**

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1709

**EFFICACY OF ARTEMETHER-LUMEFANTRINE FOR
THE TREATMENT OF UNCOMPLICATED *PLASMODIUM
FALCIPARUM* MALARIA IN KLOUEKANMEY AND
DJOUGOU, REPUBLIC OF BENIN**

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1710

**USE OF DRUGS IN MANAGEMENT OF UNCOMPLICATED
MALARIA IN RURAL, URBAN HEALTH CENTERS, AND
REFERRAL HOSPITALS IN DEMOCRATIC REPUBLIC OF
THE CONGO**

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1711

***PLASMODIUM FALCIPARUM* ARTEMISININ IN VIVO
EFFICACY MONITORING AND MOLECULAR DRUG-
RESISTANCE SURVEILLANCE IN A PRE-ELIMINATION
SETTING IN SABAH, MALAYSIA**

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Malaria - Diagnosis

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**EVALUATION OF ACCURACY OF MAGNETO-OPTICAL
METHOD FOR THE DETECTION OF MALARIA PARASITES**

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**SHERLOCKING MALARIA: A SENSITIVE, ISOTHERMAL,
NUCLEIC ACID-BASED DIAGNOSTIC CAPABLE OF
DISTINGUISHING *PLASMODIUM* SPECIES**

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(ACMCIP Abstract)

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**TRACKING HEMOZOIN LEVELS OVER TIME IN
SYNCHRONOUS CULTURES OF *P. FALCIPARUM* USING
MAGNETO-OPTICAL DETECTION, MOD**

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**EVALUATION OF A SINGLE SCREEN AND TREAT
STRATEGY FOR PREGNANT WOMEN AT SELECT HEALTH
FACILITIES IN LINDI REGION, TANZANIA**

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**MODELING HRP2 DYNAMICS AND THE IMPLICATIONS
FOR A NEW ULTRA-SENSITIVE RAPID DIAGNOSTIC TEST
(U-RDT)**

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Wednesday
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1717**PERFORMANCE OF A NEW MULTIPLEX FEVER PATHOGEN RAPID TEST TO DETECT MALARIA WHEN USED BY HEALTH WORKERS IN PERU AND NIGERIA**

Sandra Incardona¹, Katherine Torres², Wellington Oyibo³, Stefano Ongarello¹, Aurélien Macé¹, Freddy Alava², Sabine Dittrich¹, Javan Esfandari⁴, Dionicia Gamboa², Angelo Gunasekera⁴, Uche Igbasi³, Paul Lambotte⁴, Oladosu Oladipo³, Louise Sigismondi⁴, Ifeoma Udenze³, Iveth J. Gonzalez¹, Cassandra Kelly¹, Bill Rodriguez¹

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1718**DETECTION OF PLASMODIUM INFECTION UTILIZING DRIED BLOOD SPOTS AND SIMPLIFIED MICROCAPILLARY CYTOMETRY**

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1719**TOWARDS A GLOBAL MAP OF P. FALCIPARUM HRP2 DELETION FOR THE SELECTION OF OPTIMAL RDTs FOR MALARIA DIAGNOSIS**

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1720**MODELLING THE IMPACT OF AN ULTRA-SENSITIVE PLASMODIUM FALCIPARUM RAPID DIAGNOSTIC TEST (U-RDT): DETECTING ASYMPTOMATIC INFECTIONS AND THE POTENTIAL FOR OVERTREATMENT**

Hannah C. Slater, Ruiyun Li, Patrick G. Walker, Azra Ghani
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1721**MOLECULAR DIAGNOSIS FOR SURVEILLANCE OF ASYMPTOMATIC MALARIA IN THE PERUVIAN AMAZON**

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1722**EVALUATION OF A MULTIPLEXED PLASMODIUM LACTATE DEHYDROGENASE BASED ASSAY USING SIMPLIFIED CYTOMETRY ON MUSE® CELL ANALYZER**

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1723**CROSS REACTION OF ANTI-PLASMODIUM FALCIPARUM PLDH ANTIBODIES WITH PLASMODIUM MALARIAE PLDH USING THE RAPID DIAGNOSTIC TEST SD BIOLINE MALARIA PF/PF/PV (05FK123)**

Silvia M. Di Santi, Giselle F. Lima, Juliana Inoue, Maria J. Costa-Nascimento, Maria L. Farinas, Maria Carmen A. Sanchez
São Paulo University, São Paulo, Brazil

1724**REFINING OPERATIONAL STRATEGIES TO DETECT IMPORTATION AND ELIMINATE RESIDUAL FOCI OF MALARIA TRANSMISSION IN KWAZULU-NATAL, SOUTH AFRICA**

Jaishree Raman¹, Laura Gast², Basil Brooke¹, Rajendra Maharaj³, Givemore Munhenga¹, Power Tshikae¹, Vishan Lakan³, Ryleen Balawanth², Craig Davies², Lindi Sangweni⁴, Moses Mkhabela⁴, Nompumelelo Zondo⁴, Zuziwe Nyawo⁴, Siphon Msimang⁵, Rebecca Graffy², Bheki Qwabe⁴, Devanand P. Moonasar⁶

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1725**IDENTIFICATION OF THE ZOONOTIC MALARIA SPECIES PLASMODIUM KNOWLESI IN ACEH PROVINCE, INDONESIA: DIAGNOSTIC SENSITIVITY, TRUE BURDEN AND IMPLICATIONS FOR ELIMINATION**

Farah N. Coutrier¹, Martha G. Silaen¹, Iska Zarlinda¹, Chris Cotter², Iqbal RF Elyazar³, Lenny L. Ekawati³, Bimandra A. Djaafara³, Cut Maneh⁴, Abdul Fatah⁵, Dita Ramadona⁶, Maria E. Sumiwi⁷, Ferdinand D. Laihadi⁷, Elvieda Sariwati⁸, Adam Bennett², Jennifer L. Smith², Rintis Noviyanti¹
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(ACMCIP Abstract)

1726**THE PREVALENCE AND DISTRIBUTION OF PLASMODIUM SPECIES AMONG CHILDREN AT MALABO REGIONAL HOSPITAL ON BIKO ISLAND, EQUATORIAL GUINEA**

Leonor Ada Okenve¹, Consuelo Ndong Avomo¹, Gninoussa Akadir², Matilde Riloha Rivas¹, Ramona Mba Andeme¹, Mariluz Mangué¹, Mariluz Mangué¹, Godwin Fuseini², Wonder Philip Phiri², Carlos Cortes Falla², Guillermo Garcia³
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Malaria – Drug Development – Clinical Trials

1727**THE HEMATOLOGICAL RESPONSE FOLLOWING CHLOROQUINE TREATMENT OF PLASMODIUM VIVAX WITH OR WITHOUT PRIMAQUINE: A POOLED ANALYSIS OF INDIVIDUAL PATIENT DATA**

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INTERMITTENT PREVENTIVE THERAPY WITH SULPHADOXINE-PYRIMETHAMINE VERSUS DIHYDROARTEMISININ-PIPERAQUINE FOR THE PREVENTION OF MALARIA AND IMPROVEMENT OF BIRTH OUTCOMES

Richard Kajubi¹, Teddy Ochieng¹, Abel Kakuru¹, Prasanna Jagannathan², Miriam Nakalembe³, Theodore Ruel⁴, Bishop Opira¹, Harriet Ochokoru¹, John Ategeka¹, Patience Nayebara¹, Tamara D. Clark⁴, Diane V. Havlir⁴, Moses R. Kamya³, Grant Dorsey⁴

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A RANDOMIZED CONTROLLED TRIAL OF REGULARLY DOSED PARACETAMOL (ACETAMINOPHEN) TO REDUCE RENAL DYSFUNCTION IN *PLASMODIUM KNOWLESII* MALARIA VIA REDUCTION OF CELL FREE HEMOGLOBIN MEDIATED OXIDATIVE DAMAGE; PACKNOW

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HEPATIC SAFETY OF REPETITIVE TREATMENT WITH PYRONARIDINE-ARTESUNATE (PA) AND ARTEMETHER-LUMEFANTRINE (AL) IN PATIENTS WITH UNCOMPLICATED MALARIA IN BOBO-DIOULASSO, BURKINA FASO

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EFFICACY AND SAFETY OF PYRONARIDINE-ARTESUNATE AND ARTEMETHER-LUMEFANTRINE TREATMENT OF UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA AND MOLECULAR DETECTION OF RESIDUAL PARASITEMIA IN KENYAN CHILDREN

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DRUG RESISTANCE ASSESSMENT OF *PLASMODIUM FALCIPARUM* AND *PLASMODIUM VIVAX* MALARIA IN NINH THUAN PROVINCE, SOUTH-CENTRAL VIETNAM

Nguyen C. Phong¹, Marina Chavchich², Huynh H. Quang³, Nguyen N. San¹, Nguyen V. Thanh¹, Geoffrey W. Birrell², Ilin Chuang⁴, Nicolas J. Martin⁵, Nguyen D. Manh¹, **Michael D. Edstein**²

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THE EFFECT OF DIFFERENT DOSING REGIMENS ON THE ANTIMALARIAL EFFICACY OF ARTESUNATE-MEFLUQUINE: A POOLED ANALYSIS OF INDIVIDUAL PATIENT DATA

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IMPACT OF CYP2D6 ON PRIMAQUINE AND TAFENOQUINE EFFICACY IN *PLASMODIUM VIVAX* MALARIA PHASE 3 CLINICAL TRIALS

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SAFETY, EFFICACY, TOLERABILITY AND PHARMACOKINETICS OF AZITHROMYCIN PLUS PIPERAQUINE AS A CANDIDATE FOR INTERMITTENT PREVENTIVE TREATMENT FOR MALARIA IN PREGNANCY

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HEMOGLOBIN DECLINE IN G6PD NORMAL *P. VIVAX* PATIENTS TREATED WITH CHLOROQUINE AND TAFENOQUINE OR PRIMAQUINE IN THE PHASE 3 TAF112582 (DETECTIVE) STUDY

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DEALING WITH INDETERMINATE OUTCOMES IN ANTIMALARIAL EFFICACY TRIALS: A COMPARISON BETWEEN COMPLETE CASE ANALYSIS, MULTIPLE IMPUTATION AND INVERSE PROBABILITY WEIGHTING

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TAFENOQUINE FOR MALARIA PREVENTION

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ASYMPTOMATIC MALARIA IN HOUSEHOLD MEMBERS OF FEBRILE CHILDREN ATTENDING CLINIC IN COASTAL TANZANIA

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POTENTIAL FOR CELLPHONES TO ACCELERATE MALARIA ELIMINATION IN THE GREATER MEKONG SUBREGION, NE INDIA AND BANGLADESH

Richard James Maude¹, Ipsita Sinha¹, Olivo Miotto¹, Rob van der Pluijm¹, Lorenz von Seidlein¹, Dominic Kwiatkowski², Nicholas P. Day¹, Md A. Hossain³, M. A. Faiz⁴, Naomi Waitira¹, Pasathorn Sirithiranont¹, Pasathorn Sirithiranont¹, Arjen M. Dondorp¹, Caroline Buckee⁵

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THE IMPACT OF MATERNAL MALARIA INFECTION DURING PREGNANCY ON INFANT MALARIA RISK: A COHORT STUDY IN WESTERN KENYA

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PLASMODIUM FALCIPARUM MULTIPLICITY OF INFECTION IN MALAWI

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OPPORTUNITIES AND CHALLENGES TO STRENGTHEN DISEASE SURVEILLANCE TO SUPPORT MALARIA ELIMINATION IN THE PHILIPPINES

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FACTORS ASSOCIATED WITH MALARIA PARASITEMIA AND ANEMIA IN UGANDA: CROSS-SECTIONAL SURVEY OF 48 DISTRICTS

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CONTRIBUTION OF RAPID DIAGNOSIS TEST IN MALARIA CASE MANAGEMENT STRATEGY IN SENEGAL

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THE BURDEN OF ANTIMALARIAL TREATMENT FAILURE IN AFRICA: EVIDENCE FROM HOUSEHOLD SURVEYS

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REAL-TIME PCR ASSAYS FOR THE DETECTION, SPECIATION AND QUANTIFICATION OF PLASMODIUM FALCIPARUM, P. VIVAX, P. OVALE, AND P. MALARIAE

David M. Rockabrand¹, Deborah Stiffler¹, Nathaniel Dizon¹, Alexander Iteen¹, Emily Parsons¹, Carolyne Kifude², Priya Venkatesan¹, Robin H. Miller¹, Shirley Luckhart³, V. Ann Stewart¹

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THE EMERGING OF *PLASMODIUM OVALE* IN KWANZA NORTE PROVINCE, ANGOLA

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EFFECTIVE COMMUNITY SURVEILLANCE REDUCES SEVERE MALARIA IN RURAL MADAGASCAR

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COMMUNITY PERCEPTIONS ABOUT MALARIA RISK AND INFECTIONS IN A REGION OF HIGH MALARIA TRANSMISSION, WESTERN KENYA

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PLASMODIUM FALCIPARUM HAPLOTYPE INFERENCE FROM AMPLICON DEEP SEQUENCING TO IDENTIFY MICRO-SCALE PARASITE POPULATION MIXING

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EXPANSION OF INSECTICIDE TREATED NETS OWNERSHIP ASSOCIATED WITH REDUCTION OF ALL-CAUSE CHILDHOOD MORTALITY IN KENYA, 2012 - 2014: EVIDENCE FROM INDIVIDUAL LEVEL ANALYSIS

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IRRIGATION AND MALARIA IN MALAWI: MALARIA INFECTION INTERACTS WITH POVERTY AT BWANJE VALLEY IRRIGATION SCHEME

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UNDERSTANDING THE EPIDEMIOLOGY OF IMPORTED MALARIA CASES IN VIETNAM AMONG RETURNING INTERNATIONAL LABORERS

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MALARIOMETRIC SURVEY IN GUINEA-BISSAU

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PREVALENCE OF ASYMPTOMATIC AND SYMPTOMATIC MALARIA IN A REMOTE TRIBAL POPULATION OF ASSAM, NE INDIA

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MALARIA SURVEILLANCE FOR ELIMINATION: A PHASED ROLL OUT OF A CASE-BASED INFORMATION SYSTEM USING DHIS2 IN HONDURAS

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1760

RISK FACTORS FOR MALARIA POSITIVITY AMONG FEBRILE CHILDREN AT FOUR HETEROGENEOUS KENYAN CLINICS

Melisa M. Shah¹, Amy R. Krystosik², Jamie M. Caldwell³, Francis M. Mutuku⁴, Bryson A. Ndenga⁵, Victoria Otuka⁵, Charles Ronga⁵, Philip K. Chebii⁶, Priscillah W. Maina⁶, Zainab Jembe⁷, Kelsey Ripp⁸, Rashmi Vora², Prasanna Jagannathan¹, Desiree LaBeaud²
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**Wednesday
October 31**

1761**ASSESSING COMMUNITY HEALTH WORKER PERFORMANCE FROM ROUTINE DATA**

Caitlin A. Bever¹, John M. Miller², Kammerle Schneider³, Busiku Hamainza⁴, Michael Hainsworth³, Maya Fraser³, Edward Wenger¹
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1762**TRENDS IN ITN, IPTP-SP USAGE AND MALARIA PREVALENCE AND ANEMIA IN PREGNANT WOMEN ON BIOKO ISLAND, EQUATORIAL GUINEA**

Norberto Bosepa Cubacuba¹, Gninoussa Akadiri¹, Godwin Fuseini¹, Wonder Philip Phiri¹, Matilde Riloha Rivas², Carlos Cortes Falla¹, Christopher Schwabe³, Guillermo Garcia³
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1763**EARLY FOCAL MALARIA UPSURGE DETECTION AND RESPONSE IN KISORO, A LOW TRANSMISSION, UNSTABLE MALARIA SETTING OF UGANDA**

Damian Rutaazana¹, Daniel J. Kyabayinze¹, Godfrey Muntu¹, Edward Mugwanya², Stephen Nsabiymva³, Jimmy Opigo¹
¹National Malaria Control Programme, Kampala, Uganda, ²RHITE SW, Kisoro, Uganda, ³Kisoro District Local government, Kisoro, Uganda

1764**EARLY DETECTION OF MALARIA UPSURGES AT SUB-NATIONAL LEVELS IN UGANDA**

Paul Mbaka¹, Daniel J. Kyabayinze², Damian Rutaazana², Jimmy Opigo²
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1765**IMPROVING THE USE OF MALARIA SURVEILLANCE DATA FOR COUNTY LEVEL DECISION-MAKING BY ADDRESSING GAPS IN DATA SUPPLY AND BARRIERS TO DATA DEMAND IN KENYA**

James Njeru¹, Patrick Njoka², Henry Muinde³, Luke Baertlein¹, Rebecca Goldstein¹, Deepa Pindolia¹, Patricia Njiri¹
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Malaria – Genetics/Genomics

1766**HUMORAL IMMUNE RESPONSES AGAINST THE MALARIA VACCINE CANDIDATE ANTIGEN *PLASMODIUM VIVAX* CSP AND *IL-1* PLUS *IL-2* GENE POLYMORPHISMS IN INDIVIDUALS LIVING IN AN ENDEMIC AREA OF THE BRAZILIAN AMAZON**

Marcela P. Capobianco¹, Gustavo C. Cassiano², Adriana A. Furini³, Luciane M. Melo⁴, Tamirys S. Pimenta⁵, Ana Paula D. Rodrigues⁶, José Eduardo G. Arruda⁵, Andrea R. Baptista⁷, Joseli Oliveira-Ferreira⁸, Claudia R. Bonini-Domingos¹, Ricardo L. Machado⁷
¹IBILCE/UNESP, São José do Rio Preto, Brazil, ²UNICAMP, Campinas, Brazil, ³UNIRP, São José do Rio Preto, Brazil, ⁴Universidade Federal do Sergipe, Aracaju, Brazil, ⁵Universidade Federal do Pará, Belém, Brazil, ⁶Instituto Evandro Chagas, Ananindeua, Brazil, ⁷Universidade Federal Fluminense, Niterói, Brazil, ⁸FIOCRUZ/RJ, Rio de Janeiro, Brazil

(ACMCI Abstract)

1767**TAKING MALARIA GENOMIC TECHNOLOGY TO THE FIELD: A TWO-STEP PROTOCOL OF SELECTIVE WHOLE GENOME AMPLIFICATION AND TARGETED AMPLICON DEEP SEQUENCING (SWG-TADS) FOR CHARACTERIZING LOW PARASITAEMIA AND LOW QUALITY *P. FALCIPARUM* INFECTIONS**

Andreea Waltmann¹, Travis Fulton¹, Ulrika Morris², Andreas Mårtensson³, Billy Ngasala⁴, Anders Bjorkman², Steven R. Meshnick⁵, Jonathan J. Juliano⁵
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1768**GENETIC EVIDENCE OF CLONAL SPREAD, PARASITE EXCHANGE, AND UNIQUE SIGNATURES OF RELATEDNESS AMONG *PLASMODIUM FALCIPARUM* SAMPLES FROM HAITI**

Rachel Fath Daniels¹, Seth Redmond¹, Stella Chenet², Eric Rogier², Curtis S. Huber², Camelia Herman³, Baby Pierre⁴, Jean Frantz Lemoine⁴, Jacques Boncy⁴, Daniel E. Neafsey¹, Michelle Chang⁵, Dyann F. Wirth¹, Venkatachalam Udhayakumar², Sarah K. Volkman¹
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(ACMCI Abstract)

1769**PROBABILISTIC CLASSIFICATION OF *PLASMODIUM VIVAX* RELAPSE AND REINFECTION USING MICROSATELLITE GENOTYPING DATA FOR IMPROVED ESTIMATION OF RADICAL CURATIVE EFFICACY**

Aimee R. Taylor¹, James Watson², Caroline O. Buckee¹, Mallika Imwong², Cindy S. Chu², Nicholas J. White²
¹Harvard T.H. Chan School of Public Health, Boston, MA, United States, ²Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

1770**POPULATION GENOMICS OF *VIVAX* MALARIA IN THE GREATER MEKONG SUBREGION**

Awtum M. Brashear¹, Qi Fan², Liwang Cui¹
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1771**EUPATHDB: FREE, ONLINE OMICS RESOURCES FOR EUKARYOTIC PATHOGENS**

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¹University of Georgia, Athens, GA, United States, ²University of Pennsylvania, Philadelphia, PA, United States

1772

REPEATED INDOOR RESIDUAL SPRAYING REDUCES *P. FALCIPARUM* EFFECTIVE POPULATION SIZE AND INCREASES INBREEDING IN A VERY HIGH TRANSMISSION AREA OF UGANDA

Sofonias K Tessema¹, John Rek², Anna Chen¹, Noam Teyssier¹, Yoon Lee¹, Emmanuel Arinaitwe², Joaniter I. Nankabirwa², Sarah G. Staedke³, Moses R. Kamya⁴, Grant Dorsey¹, Isabel Rodriguez-Barraquer¹, Bryan Greenhouse¹
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1773

EVALUATION OF AMPLICON SEQUENCING ON MOCK COMPLEX *PLASMODIUM FALCIPARUM* INFECTIONS

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1774

TARGETED DEEP SEQUENCING OF MALARIA INFECTIONS IMMEDIATELY POOLED AT COLLECTION TIME EFFICIENTLY PROVIDES ACCURATE FREQUENCIES OF DRUG RESISTANCE MUTATIONS IN GHANA

Anita Ghansah
Noguchi Memorial Institute for Medical Research, University of Ghana, Legon, Ghana

1775

QUANTIFYING POPULATION STRUCTURE OF MALARIA PARASITES USING EPIDEMIOLOGICAL AND GENOMIC DATA

Hsiao-Han Chang¹, Amy Wesolowski², Ipsita Sinha³, Christopher Jacob⁴, Amir Hossain⁵, Abul Faiz⁶, Olivo Miotto³, Dominic Kwiatkowski¹, Richard Maude³, Caroline Buckee¹
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1776

UTILIZING *IN SILICO* TOOLS TO PERFORM B CELL EPIOTOPE PREDICTION IN *PLASMODIUM FALCIPARUM*

Gillian Mbambo, Kara Moser, Mark Travassos, Andrea Berry, Shannon Takala-Harrison, Amed Ouattara, Kirsten Lyke, Joana C. Silva
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(ACMCIP Abstract)

1777

IDENTIFYING A MINIMAL SET OF SNPS FROM MALARIA PARASITE GENOME DATA THAT CHARACTERIZES THE SPATIO-TEMPORAL ORIGIN OF A SAMPLE

Joshua L. Proctor, Kyle Gustafson, Edward Wenger
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Malaria - Immunology

1778

SUPPRESSION OF B CELL IMMUNE RESPONSES SUBSEQUENT TO LOW DOSES OF CHLOROQUINE AND PYRIMETHAMINE; IMPLICATIONS FOR STUDYING B CELL IMMUNITY IN MALARIA MURINE MODELS

Hayley Joseph¹, Emily Eriksson¹, Louis Schofield²
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1779

LOW ANTIBODY TITERS AGAINST MALARIA VACCINE CANDIDATES RH5, RIPR AND CYRPA IN NATURALLY INFECTED PEOPLE IN AN ENDEMIC AREA OF MALI

Alexandra Willcox¹, Kazutoyo Miura¹, Rebecca A. Dabbs², Jing Jin², David J. Pattinson², Mahamadou Diakite³, Simon J. Draper², Carole A. Long¹
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1780

INDUCTION OF IL-10 PRODUCING REGULATORY MACROPHAGES EXPRESSING PDL-1 AND ILT3 BY *PLASMODIUM* SPOROZOITES

Béatrice M. Winkel¹, Munisha S. Ganesh¹, Leonard R. Pelgrom¹, Carola Feijt¹, Séverine C. Chevalley-Maurel¹, Marijke C. Langenberg¹, Heleen Gerritsma¹, Geert-Jan van Gemert², Els Baalbergen¹, Clarize M. de korne¹, Fijs W. van Leeuwen¹, Chris J. Janse¹, Maria Yazdanbakhsh¹, Blandine Franke-Fayard¹, Bart Everts¹, Meta Roestenberg¹
¹Leiden University Medical Center, Leiden, Netherlands, ²Radboud University Medical Center, Nijmegen, Netherlands

(ACMCIP Abstract)

1781

SERORECOGNITION AND SEROREACTIVITY TO PEPTIDES WITHIN THE SEMI-CONSERVED AND VARIABLE REGIONS OF STEVORS REFLECT CUMULATIVE AND SEASONAL MALARIA EXPOSURE IN MALIAN ADULTS AND CHILDREN

Albert E. Zhou¹, Andrea A. Berry¹, Jason A. Bailey¹, Andrew A. Pike¹, Antoine Dara¹, Sonia Agrawal¹, Amed Ouattara¹, Drissa Coulibaly², Kristen Lyke¹, Matthew B. Laurens¹, Matthew Adams¹, Shannon Takala Harrison¹, Jozelyn Pablo³, Algis Jasinskas³, Rie Nakajima³, Amadou Niangaly², Bourema Kouriba², Abdoulaye K. Kone², Alexandra Rowe⁴, Ogobara K. Doumbo², Mahamadou A. Thera², Jigar J. Patel⁵, John C. Tan⁵, Phillip L. Felgner³, Christopher V. Plowe⁶, Mark A. Travassos¹
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1782

E3 UBIQUITIN LIGASE MARCH1 IS MASTER REGULATOR OF IMMUNE RESPONSES TO MALARIA INFECTION

Jian Wu
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1783

MALARIA INFECTION-INDUCED SYSTEMIC INFLAMMATION IN PREGNANT WOMEN LIVING WITH HIV RECEIVING CART AND DAILY PROPHYLACTIC TRIMETHOPRIM-SULFAMETHOXAZOLE

Chloe McDonald¹, Andrea Weckman², Andrea Conroy³, Peter Olwoch⁴, Paul Natureeba⁴, Moses Kanya⁴, Diane Havlir⁵, Grant Dorsey⁶, Kevin Kain¹
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1784

T-FOLLICULAR HELPER CELLS IN THE INDUCTION OF FUNCTIONAL ANTIBODIES IN CHILDREN IN HIGH MALARIA TRANSMISSION AREAS

Jo-Anne Chan¹, **Lauren E. de la Parte**², Gao Feng³, Rek John⁴, James Beeson³, Margaret Feeney⁵, Bryan Greenhouse⁶, Grant Dorsey⁶, Moses Kanya⁷, Isaac Ssewanyana⁴, Prasanna Jagannathan², Michelle J. Boyle¹
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(ACMCIP Abstract)

1785

INNATE IMMUNE ACTIVATION IN HEALTHY MALARIA-IMMUNE ADULTS FROM WESTERN KENYA

Katherine R. Dobbs¹, Slim Fourati¹, Paula Embury¹, Peter Sumba Odada², Bruce A. Rosa³, Makedonka Mitreva³, Rafick-Pierre Sekaly¹, James W. Kazura¹, Arlene E. Dent¹
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1786

DYSREGULATION OF PRO-AND ANTI-INFLAMMATORY CYTOKINES AND CHEMOKINES AND ANGIOGENIC FACTORS IN INDIVIDUALS IN AREAS OF STABLE AS COMPARED TO UNSTABLE *PLASMODIUM FALCIPARUM* TRANSMISSION

Katrina Co¹, Elizabeth Fernander¹, George Ayodo², Lindsey B. Turnbull¹, Eliud O. Onyango², Chandy C. John¹
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1787

THE IMPACT OF SEX AND HOST VARIABILITY IN THE OUTCOMES OF IMMUNIZATIONS WITH *PLASMODIUM VIVAX* DUFFY BINDING PROTEIN DBP II IN MICE

Sai Lata De¹, Siriruk Changrob², Shulin Xu¹, Francis Ntumngia¹, John H. Adams¹
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(ACMCIP Abstract)

1788

MALARIA CONTROL IN GHANA: PREVALENCE OF PARASITE AND HOST FACTOR

Aminata Lam, Aminata Lo, Aida Gaye, Isaac Akhenaton Manga, Marie Pierre Diouf, Omar Gaye, Babacar Faye
Parasitology and Mycology Service of UCAD, Dakar, Senegal

(ACMCIP Abstract)

1789

CONTROLLED HUMAN MALARIA INFECTION INDUCES TRAINED INNATE IMMUNE RESPONSES IN HEALTHY VOLUNTEERS

Jona Walk, Charlotte L. de Bree, Rob J. Arts, Bas A. Blok, Mihai G. Netea, Robert W. Sauerwein
Radboud University Medical Center, Nijmegen, Netherlands

1790

ROLE OF THE KUPFFER CELL CD68, A *PLASMODIUM* SPOOROZOITE RECEPTOR, IN MODULATION OF EXPERIMENTAL CEREBRAL MALARIA (ECM)

Sung-Jae Cha, Marcelo Jacobs-Lorena
Johns Hopkins University, Baltimore, MD, United States

(ACMCIP Abstract)

1791

USING MACHINE LEARNING TO IDENTIFY DISTINCT IMMUNE SIGNATURES INDUCED BY NOVEL ADJUVANT FORMULATIONS

Sidhartha Chaudhury¹, Elizabeth H. Duncan², Tanmaya Atre², Casey K. Storme², Stephen Kaba², Kevin Beck³, David E. Lanar², **Elke S. Bergmann-Leitner**²
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(ACMCIP Abstract)

Malaria - Modeling

1792

MODELING THE IMPACT OF DIFFERENT LARVICIDING DEPLOYMENT REGIMENS TO INFORM STRATEGIC PLANNING

Manuela Runge¹, Salum Mapua², Fredros Okumu², Tom Smith¹, Emilie Pothin¹
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1793

WARMER TEMPERATURES AND SPATIALLY COUPLED TRANSMISSION DYNAMICS IN HIGHLAND MALARIA

Amir S. Siraj¹, Edward B. Baskerville², Menno J. Bouma³, John H. Huber¹, Damtew Yadeta⁴, Paul C. Sutton⁵, Alex Perkins¹, Mercedes Pascual²
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1794

MODELING THE ADDED BENEFITS OF SUPPLEMENTAL INTERVENTION TOOLS ON MALARIA TRANSMISSION IN ENDEMIC SETTINGS IN WESTERN KENYA HIGHLAND

Ming-Chieh Lee, Amruta Dixit, Guiyun Yan
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1795

ESTIMATING THE HEALTH IMPACT OF A SEASONAL MALARIA CHEMOPREVENTION INTERVENTION IN MALI IN 2017: MODELING DEATHS AVERTED, CASES AVERTED AND DISABILITY ADJUSTED LIFE YEARS (DALYS) AVERTED

Keith Esch¹, Matt Hamilton², Eline Korenromp², Joseph Lewinski¹, Amy Ratcliffe¹

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1796

MALARIA PROPHYLAXIS EVALUATION OF LONG-TERM ANTIMALARIAL AGENTS USING PHARMACOKINETICS AND PHARMACODYNAMICS CONSIDERATIONS

Qigui Li, Lisa Xie, Jason Sousa, Jangwoo Lee, Chad Black, Mara Kreishman Deitrick

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1797

ANTIBODY DENSITY MODEL OF MALARIA TRANSMISSION: PRACTICAL IMPLEMENTATION IN HAITI

Michael C. Collins, Maria Emelianenko, Jenna Krall, Julia Painter, Padmanabhan Seshaiyer, Michael E. von Fricken

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1798

DEVELOPING AN INVESTMENT CASE FOR MALARIA ELIMINATION IN KWAZULU-NATAL, LIMPOPO, AND MPUMALANGA, SOUTH AFRICA USING MATHEMATICAL MODELLING

Aparna Kollipara¹, Katie Fox¹, Sheetal Silal², Lisa White³, Joseph Njau⁴, Rebecca Graffy⁵, Eric Mabunda⁶, Gillian Malatje⁷, Bheki Qwabe⁸, Yogan Pillay⁹, Devanand Moonasar⁹

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1799

MODELING THE AGREEMENT AND COST OF INDOOR RESIDUAL SPRAY IMPLEMENTATION STRATEGIES TO CONTROL MALARIA TRANSMISSION

Sadie J. Ryan¹, David A. Larsen², Anne C. Martin³, Derek Pollard³, Busiku Hamainza⁴, Anna Winters³, Anna Winters³

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1800

ASSESSING THE COURSE OF INFECTION OF DIFFERENT RODENT MALARIA PARASITES IN GRAMMOMYS SURDASTER (GRAMMOMYS DOLICHURUS)

Solomon Conteh, Jacqueline Kolasny, Yvette L. Robbins, Javonn Musgrove, Brandi Butler, Lynn Lambert, Patrick E. Duffy

National Institutes of Health/ National Institute of Allergy and Infectious Diseases, Rockville, MD, United States

1801

INFERRING THE PARASITE RESERVOIR: UNDERSTANDING THE FORCES THAT SHAPE INDIVIDUAL MALARIA INFECTIONS

Jonathan Russell¹, Andre Lin Ouedraogo¹, Isabel Rodriguez-Barraquer², Moses Kanya³, Joaniter Nankabirwa³, John Rek⁴, Sarah Staedke⁵, Isaac Ssewanyana⁵, Grant Dorsey², David L. Smith⁶, Bryan Greenhouse², Edward A. Wenger¹, Jaline Gerardin¹

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1802

ASSESSING AND PROJECTING THE ROLE OF DISTANCE FROM LOCAL HEALTH FACILITIES ON EARLY CHILDHOOD MALARIA PREVALENCE: A CASE EXAMPLE FROM NORTHERN GHANA

Justin Millar¹, Paul Psychas¹, Benjamin Abuamu², Punam Amratia¹, Kwadwo Koram², Kok Ben Toh¹, Denis Valle¹

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1803

THE USE OF REMOTE SENSING FOR ESTIMATING THE RISK OF TRANSMISSION AND PREDICTING CASES OF MALARIA IN ARGENTINA

Ana Cuéllar¹, María Julia Dantur-Juri², Sylvie Manguin³, Mirta Santana⁴, Camilo Rotella⁵, Mario Zaidenberg⁶

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1804

ESTIMATING MOBILE FOREST WORKERS' CONTRIBUTION TO MALARIA TRANSMISSION IN SOUTHEAST ASIA: A MATHEMATICAL MODELING APPROACH

Francois Rerolle¹, Jennifer Smith¹, Andrew Lover¹, Bouasy Hongvanthong², Sophia Hocini¹, Emily Dantzer¹, Iqbal Elyazar³, John Marshall⁴, Adam Bennett¹

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1805

MGDRIVE: A SIMULATION FRAMEWORK FOR GENE DRIVE IN SPATIALLY-EXPLICIT MOSQUITO POPULATIONS AND ITS APPLICATION TO THRESHOLD-DEPENDENT SYSTEMS

Hector M. Sanchez C., Sean L. Wu, Jared B. Bennett, John Marshall
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Wednesday
October 31

Malaria - Other

1806

VALIDATING FUNCTIONAL HEALTH FACILITIES AND CAPACITY FOR IMPROVED DISEASE SURVEILLANCE THROUGH DHIS2: EXPERIENCE FROM KANO AND ZAMFARA STATES, NIGERIA

Usaini Bala¹, Olufemi Ajumobi¹, Amina Abdullahi Umar¹, Adewole Adefisoye¹, Ndadilnasiya Waziri¹, Saheed Gidado¹, Isaac Igbaver¹, Gideon Ugbenyo¹, Edwin Simple¹, Muhammad Gurusu¹, Mathew Binjing¹, Abdulkarim Zubair¹, Yusuf Jega¹, Talatu Tadi¹, Tasiu Sani Habib¹, Fatima Shuayb¹, Mohammed Nura Yahaya¹, Jafar Abubakar¹, Alhassan Da'u¹, Audu B. Mohammed², Perpetua Uhomoibhi², Basheer Muhammad³, Munira Ismail⁴, Shelby Cash⁵, Kwame Asamoah⁵

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1807

PLASMODIUM VIVAX MONO-INFECTION AS MAIN CAUSE OF SEVERE MALARIA IN A CO-ENDEMIC REGION FOR P. VIVAX AND P. FALCIPARUM IN THE PERUVIAN AMAZON

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1808

CLOSING THE LOOP: IMPROVING MALARIA TREATMENT CARE AT THE COMMUNITY LEVEL IN MADAGASCAR

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1809

MALARIA AND THE MICROBIOME: A SYSTEMATIC REVIEW

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(ACMCIP Abstract)

1810

HOW DO THE REPORTS TRANSLATE INTO FIELD PERFORMANCE? CROSS-VALIDATION OF DATA FROM ROUTINE REPORTING VS MYSTERY CLIENT VISITS AMONG PRIVATE SECTOR MALARIA PROVIDERS IN MYANMAR

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1811

IMPACT OF CODON USAGE ON SEQUENCE VARIANT COMPOSITIONS OF P. FALCIPARUM CELTOS

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1813

HEMATOLOGICAL DETERMINANTS FOR A G6PD DEFICIENCY AND DRUG-RELATED HEMOLYTIC RISK REGRESSION-BASED MODEL

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1814

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(ACMCIP Abstract)

1815

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1816

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1817

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1818

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1819

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1820

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1821

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1822

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1823

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1824

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1825

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1826

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1827

MALARIA ELIMINATION IN LOW INCOME COUNTRIES: DOES IT MATTER WHEN, WHERE, AND HOW WE SLEEP?

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1828

IMPLEMENTING MALARIA MASS DRUG ADMINISTRATION: EXPERIENCE FROM A HIGH TRANSMISSION SETTING IN NORTHEASTERN UGANDA

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1829

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1830

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1831

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1832

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1833

MULTIPLE APPROACHES FOR MALARIA CASE MANAGEMENT IN THE STRUGGLE TO REACH PRE-ELIMINATION OF MALARIA

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1834

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Pere Millat-Martínez¹, Rhoda Ila¹, Moses Laman², Leanne Robinson³, Harin Karunajeewa⁴, Camila González-Beiras¹, Haina Abel⁵, Kevin Pulai⁵, Sergi Sanz⁶, Laurens Manning⁷, Brioni Moore⁸, Quique Bassat⁶, Oriol Mitjà⁶

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1835

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1836

LOW RISK OF SUDDEN UNEXPLAINED DEATH AFTER DIHYDROARTEMISININ-PIPERAQUINE: A SYSTEMATIC REVIEW AND BAYESIAN META-ANALYSIS

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1837

PUTTING EVOLUTION IN ELIMINATION: WINNING OUR ONGOING BATTLE WITH EVOLVING MALARIA MOSQUITOES AND PARASITES

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1838

MALARIA PREVALENCE AMONG ASYMPTOMATIC PARTICIPANTS DURING MALARIA CASE MANAGEMENT PROMOTION CAMPAIGN IN THE PRIVATE SECTOR IN KINSHASA, DEMOCRATIC REPUBLIC OF THE CONGO

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1839

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1840

VOICES FROM THE FRONT LINE: RESULTS FROM INTERVIEWS WITH EMPLOYEES AT WORKSITES IN HIGH-MALARIA BURDEN DISTRICTS REGARDING MALARIA AWARENESS AND PRACTICES

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1841

UNDERSTANDING THE DRIVERS AND DETERMINANTS OF AN EFFECTIVE MALARIA RESPONSE IN A CHALLENGING OPERATING ENVIRONMENT: THE BURUNDI CASE STUDY

Walter M. Kazadi
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1842

PREPARING FOR THE NEXT GLOBAL THREAT - A CALL FOR TARGETED, IMMEDIATE DECISIVE ACTION IN SOUTHEAST ASIA TO PREVENT THE NEXT PANDEMIC IN AFRICA

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1843

EVALUATING THE FEASIBILITY AND ACCEPTABILITY OF INTEGRATING NOVEL APPROACHES TARGETING HIGH RISK POPULATIONS INTO ROUTINE PROGRAM ACTIVITIES IN ACEH PROVINCE, INDONESIA

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1844

A HEALTH COMMUNICATION PACKAGE TO INCREASE DRUG ADHERENCE AMONG VIVAX MALARIA PATIENTS WITHOUT G6PD DEFICIENCY ON THE INTERNATIONAL BORDERS OF NORTHERN THAILAND

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1845

ADAPTING REACTIVE CASE DETECTION FOR MALARIA IN FOREST WORKERS IN ACEH, INDONESIA

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1846

MASS DRUG ADMINISTRATION COMBINED WITH INDOOR RESIDUAL SPRAYING FOR ACCELERATED REDUCTION OF MALARIA IN A HIGH TRANSMISSION SETTING IN NORTHEASTERN UGANDA: PRELIMINARY RESULTS

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1847

AFGHANISTAN MOVING TOWARD MALARIA ELIMINATION

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1848

AN ORIGINAL FRAMEWORK FOR SETTING IMPROVED MALARIA STRATEGIC INTERVENTION PACKAGES AND RELATED TARGETS IN MAINLAND TANZANIA

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1849

INTEGRATING ROUTINELY COLLECTED SURVEILLANCE DATA WITH SURVEY INFORMATION TO MAP AREAS OF MALARIA TRANSMISSION AND INFORM INTERVENTIONS TARGETING

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Malaria - Vaccines

1850

EFFICACY OF THE NOVEL *PLASMODIUM FALCIPARUM* BLOOD-STAGE VACCINE RH5.1/AS01B IN A PHASE I/IIA CLINICAL TRIAL

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1851

ANTIBODIES AGAINST PYMIGS, A NOVEL TRANSMISSION-BLOCKING VACCINE CANDIDATE, REDUCE THE MOTILITY OF MICROGAMETES

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1852

IN SILICO T CELL EPITOPE PREDICTION IDENTIFIES HIGH VALUE RH5 EPITOPES THAT CORRELATE WITH RESPONSE IN VACCINEES

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1853

CLINICAL ILLNESSES IN A HEALTHY POPULATION AT A MALARIA TRANSMISSION BLOCKING VACCINE TRIAL SITE IN MALI

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1854

DOES CHALLENGE ROUTE MATTER? AN INVESTIGATION INTO THE CHALLENGE MODEL ELEMENT IN MOUSE MALARIA PROTECTION STUDIES

Katherine L. Mallory, Kathryn D. Walker, Neeraja M. Punde, Christopher J. Mann, Sarah C. Smith, Tatyana Savranskya, Evelina Angov
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1855

INFORMING TARGET PRODUCT PROFILES FOR A SECOND-GENERATION CHILDHOOD MALARIA VACCINE: A MODELLING STUDY

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1856

EVALUATION OF PROTEIN CARRIERS FOR TRANSMISSION BLOCKING VACCINE ANTIGENS

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1857

THE FIRST HUMAN MONOCLONAL ANTIBODY AGAINST THE SEXUAL STAGE *PLASMODIUM FALCIPARUM* ANTIGEN PFS230

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(ACMCIP Abstract)

1858

INVESTIGATION OF TWO VACCINE-DELIVERY PLATFORMS TO ENHANCE IMMUNOGENICITY AND TRANSMISSION-BLOCKING ACTIVITY OF MALARIA VACCINE CANDIDATE PVS25

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1859

HETEROLOGOUS ADENOVIRAL IMMUNIZATIONS PROVIDE STERILIZING PROTECTION AGAINST *P. VIVAX* IN A SURROGATE MURINE MODEL

Jessica N. McCaffery¹, Jairo A. Fonseca¹, Luis E. Muñoz¹, Elena Kashentseva², Balwan Singh³, Igor P. Dmitriev², David T. Curiel², Fidel P. Zavala⁴, Alberto Moreno¹

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(ACMCIP Abstract)

1860

THE INFLUENCE OF SOCIO-ECONOMIC STATUS ON PERFORMANCE OF THE RTS,S MALARIA VACCINE AMONG CHILDREN WHO PARTICIPATED IN THE PRE-LICENSURE TRIAL

Stephaney Gyaase

Kintampo Health Research Centre, Kintampo, Ghana

1861

EXPLORATION OF VHH NANOBODIES AS STRUCTURAL MIMICS OF PLASMODIUM VIVAX INVASION EPITOPES AS A VACCINE

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(ACMCIP Abstract)

1862

“PRIME-TARGET” IMMUNIZATION WITH VIRAL VECTORS FOR ENHANCED EFFICACY OF LIVER-STAGE MALARIA VACCINES

Katie Ewer, Daniel Silman, Georgina Bowyer, Anita Gola, Duncan Bellamy, Catherine Mair, Mehreen Dattoo, Ian Poulton, Rachel Roberts, Alison Lawrie, Alexandra Spencer, Adrian V. Hill

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(ACMCIP Abstract)

Malaria – Vector Control

1863

ACCOUNTING FOR EVERY LLIN: THE CASE OF LLIN ACCOUNTABILITY SYSTEM IN TANZANIA

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1864

LONG LASTING INSECTICIDAL BED NETS OWNERSHIP, ACCESS AND USE IN A HIGH MALARIA TRANSMISSION SETTING BEFORE AND AFTER A MASS DISTRIBUTION CAMPAIGN IN UGANDA

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1865

LESSONS LEARNED FROM MONITORING INDOOR RESIDUAL SPRAYING (IRS) IN ATACORA DISTRICT, BENIN, 2011-2016

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1866

AGE GRADING MALARIA TRANSMITTING MOSQUITOES USING FEED FORWARD ARTIFICIAL NEURAL NETWORKS

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1867

RESPONSE OF TWO POPULATIONS OF ANOPHELES GAMBIAE S.L. EXPOSED TO DELTAMETHRIN, PERMETHRIN, AND PERMETHRIN WITH PBO AND DEF SYNERGISTS USING WHO AND CDC BIOASSAYS

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1868

PREDICTIVE MODELING FOR ASSESSING BIO-EFFICACY OF LONG LASTING INSECTICIDE NETS IN GUATEMALA USING SEGMENTED REGRESSION

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1869

IS BIKO GETTING THE HANG OF IT? EVALUATION OF A UNIVERSAL LONG-LASTING INSECTICIDAL NET (LLIN) DOOR-TO-DOOR DISTRIBUTION AND HANG-UP CAMPAIGN IN EQUATORIAL GUINEA

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1870

RAPID REDUCTION OF MALARIA TRANSMISSION AFTER INTRODUCING A THIRD GENERATION INDOOR RESIDUAL SPRAYING PRODUCT IN PREVIOUSLY UNSPRAYED DISTRICTS OF MOPTI REGION, MALI IN 2017

Joseph Wagman¹, Christelle Gogue¹, Kenzie Tynuv¹, Jules Mihigo², Seydou Fomba³, Elie Bankineza⁴, Mamadou Bah⁴, Diadier Diallo⁵, Andrew Saibu⁶, Jason Richardson⁷, Laurence Slutsker¹, Molly Robertson¹

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1871

FACTORS ASSOCIATED WITH REFUSAL AND RELUCTANCE TO INDOOR RESIDUAL SPRAYING ON BIKO ISLAND, EQUATORIAL GUINEA

Olivier Tresor Donfack¹, Charity Okoro Eribo¹, Lucas Ondo Nze¹, Liberato Motobe¹, Jordan Smith¹, Wonder Philip Phiri¹, Carlos Cortes Falla¹, Luis Tam², Christopher Schwabe², Guillermo Garcia²

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1872

FOLLOW-UP OF LLIN'S SOON AFTER A MASS DISTRIBUTION CAMPAIGN IN TWO URBAN DISTRICTS IN MALABO, EQUATORIAL GUINEA

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1873

COMMUNITY ENGAGEMENT AND THE USE OF HOUSEHOLD MAPPING TO TARGET SENSITIZATION AND IMPROVE IRS COVERAGE ON BIKO ISLAND

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1874

UTILIZING A CAMPAIGN INFORMATION MANAGEMENT SYSTEM AND HIGH PERFORMANCE LIQUID CHROMATOGRAPHY FOR IMPROVED QUALITY CONTROL OF INDOOR RESIDUAL SPRAYING WITH ACTELIC 300 CS ORGANOPHOSPHATE INSECTICIDE ON BIKO ISLAND OF EQUATORIAL GUINEA

Raul Nguema Ncogo¹, Godwin Fuseini², Hanafy Ismail³, Wonder Philip Phiri², Liberato Motobe², Carlos Cortes Falla², Guillermo Garcia², Mark J. Paine³
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1875

OBSERVATIONAL ANALYSIS OF THE IMPACT OF THE REINTRODUCTION OF IRS IN DISTRICTS OF THE NORTHERN AND UPPER EAST REGIONS OF GHANA IN 2017

Christelle Gogue¹, Joseph Wagman¹, Kenzie Tynuv¹, Andrew Saibu², Keziah Malm³, Wahjib Mohamed³, Samuel Asiedu³, Anthony Ofosu⁴, Welbeck Akplu⁴, Kwame Bimpeh⁴, Jason Richardson⁵, Molly Robertson¹
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1876

TESTING THE DURABILITY AND PERFORMANCE OF PERMANET 2.0 LONG-LASTING INSECTICIDE NETS AFTER THREE YEARS OF USE IN GUATEMALA

María E. Castellanos¹, Jose G. Juarez², Soledad Rodas², Lucrecia Vizcaino³, Zoraida Morales⁴, Jody Vanden³, Steve Smith³, Audrey Lenhart³, Norma Padilla²
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1877

WATER-LEVEL MANAGEMENT REDUCES MALARIA MOSQUITO ABUNDANCE AROUND LARGE DAMS IN SUB-SAHARAN AFRICA

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Bacteriology – Enteric Infections

1878

INCIDENCE AND ETIOLOGY OF DIARRHEA IN CHILDREN: A TWO-YEAR ACTIVE SURVEILLANCE IN AN URBAN COMMUNITY OF VIETNAM

Nhi T. Le¹, Lam K. Phung¹, Corinne Thompson¹, Phat V. Voong¹, Nhu D. Tran¹, Trung D. Pham¹, Tuyen T. Ha¹, Nhan T. Nguyen¹, Tuyet T. Hoang², Chau V. Nguyen³, Vi L. Lu³, Tien T. Bui², Guy Thwaites¹, Stephen G. Baker¹
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1879

GEO-SPATIAL REPORTING OF CEFTRIAXONE RESISTANT SALMONELLA TYPI OUTBREAK INVESTIGATION IN HYDERABAD, PAKISTAN

Abdul Momin Kazi, Ayub Kazi, Tahir Yousafzai, Muhammad Khalid, Sultan Karim, Furqan Kabir, Shahida Qureshi, Farah Naz
Aga Khan University, Karachi, Pakistan

1880

MANAGEMENT OF DIARRHEA IN MALI: ASSESSMENT OF THE ADHERENCE TO WHO RECOMMENDATIONS IN THE VACCINE IMPACT ON DIARRHEA IN AFRICA (VIDA) STUDY

Doh Sanogo¹, Adama Mamby Keita¹, Anna Roose², Boubou Tamboura¹, Uma U. Onwuchekwa¹, Hellen Powell², Brehima Coulibaly¹, Milagritos D Tapia², Nasrin Dilruba², Samba Sow¹, Karen Kotloff²
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1881

EVALUATING CHANGES IN DIARRHEA INCIDENCE AFTER 20 YEARS AMONG CHILDREN 0-59 MONTHS IN OSHIKHANDASS, GILGIT-BALTISTAN, PAKISTAN

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1882

SYSTEMIC REVIEW OF OUTBREAKS DUE TO SALMONELLA TYPHI AND PARATYPHI IN AFRICA AND ASIA; CHALLENGES AND LIMITATIONS

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1883

USING ARCGIS AND SATSCAN SOFTWARE TO INVESTIGATE EPIDEMIOLOGY AND RISK FACTORS OF ENTERIC INFECTIONS IN MIRPUR, BANGLADESH USING DATA FROM THE PROVIDE STUDY

Emily McPhee¹, Rashidul Haque², Mami Taniuchi³, William A. Petri Jr³, Beth Kirkpatrick⁴, Priya Duggal¹, Poonum Korpe¹
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1884

TRANSFER OF HEALTHY GUT FLORA FOR RESTORATION OF INTESTINAL MICROBIOTA VIA ENEMA (THRIVE) FOR THE REHABILITATIVE PHASE OF SEVERE ACUTE MALNUTRITION: METHODOLOGY FOR A NOVEL PILOT STUDY EVALUATING SAFETY, MICROBIAL ENGRAFTMENT AND NUTRITIONAL OUTCOMES

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1885

ETIOLOGY, CLINICAL SEVERITY AND ENTEROAGGREGATIVE *ESCHERICHIA COLI* ASSOCIATED WITH DIARRHEAL DISEASES IN INFANTS AT SEMIARID REGION IN BRAZIL: A CASE-CONTROL STUDY

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1886

THE CRITICAL ROLE OF ZINC IN A NEW MURINE MODEL OF ENTEROTOXIGENIC *ESCHERICHIA COLI* DIARRHEA

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1887

CAMPYLOBACTER *JEJUNI* INFECTION AND HOUSEHOLD-LEVEL FACTORS ARE ASSOCIATED WITH CHILDHOOD GROWTH IN MIRPUR, BANGLADESH: AN ANALYSIS OF THE MAL-ED STUDY

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1888

IDENTIFYING TRANSMISSION ROUTES FOR CHOLERA INFECTIONS AMONG HOUSEHOLD CONTACTS OF CHOLERA PATIENTS IN RURAL BANGLADESH

Christine Marie George¹, Khaled Hasan¹, Shirajum Monira², Zillur Rahman², K. M. Saif-Ur-Rahman², Mahamud Rashid², Fatema Zohura², Tahmina Parvin², Md. Sazzadul Islam Bhuyian², Toslim T Mahmud², Jamie Perin¹, Shan Li³, Camille Morgan¹, Munshi Mustafiz², R. Bradley Sack¹, David Sack¹, Colin Stine³, Munirul Alam²
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Bacteriology – Other Bacterial Infections

1889

MODELLING THAI POPULATION DYNAMICS AND SEASONAL MOVEMENT TO ASSESS AND PREDICT THE BURDEN OF MELIOIDOSIS

Wiriya Mahikul
Mahidol University, Bangkok, Thailand

1890

SPATIOTEMPORAL DYNAMICS OF *STREPTOCOCCUS PNEUMONIAE* IN RURAL PAKISTAN

Benjamin M. Althouse¹, Imran Nisar², Fyezah Jehan², Sheraz Ahmed Ahmed², Furqan Kabir², Sadia Shakoor², Asad Ali², Najeeha Iqbal², Hao Hu¹
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1891

DEVELOPMENT AND EVALUATION OF A LABORATORY-DEVELOPED TAQMAN ARRAY CARD (TAC) FOR ANTIMICROBIAL RESISTANCE (AMR) DETECTION

Suporn Pholwat¹, Jie Liu¹, Mami Taniuchi¹, Iyarit Thaipisutikul², Parnthep Ratanakorn³, Suporn Foongladda², Eric Houpt¹
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1892

DRY REAGENT-BASED LOOP-MEDIATED ISOTHERMAL AMPLIFICATION FOR CONFIRMATION OF BURULI ULCER USING A PORTABLE FLUORIMETER

Marcus Beissner¹, Dziejdom K. de Souza², Issaka Maman³, Malkin Saar¹, Katrin Zwirgmaier⁴, Franz X. Wiedemann⁵, Gisela Bretzel¹, Joseph M. Ndung'u⁶, Israel Cruz⁶, Anthony Ablordey²
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1893

MOLECULAR MARKERS OF ANTIMICROBIAL RESISTANCE IN *NEISSERIA GONORRHOEAE* ISOLATES FROM GHANA

Naiki Attram¹, Bright Agbodzi², Helena Dela², Eric Behene², Edward Owusu Nyarko³, Nicholas Nana Adjei Kyi³, Kennedy Kwasi Addo², Christopher Anthony Duplessis⁴, Nehkonti Adams⁵, Andrew Gordon Letizia⁶
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1894

SURVEILLANCE OF ESBL-PRODUCING *KLEBSIELLA PNEUMONIAE* IN SAMPLES OBTAINED FROM TWO HOSPITALS IN THE PERUVIAN AMAZON

Rosa Burga¹, Ricardo Abadie¹, Claudio Rocha¹, Cesar Ramal², James Regeimbal¹, Andrea McCoy¹
¹Naval Medical Research Unit-6, Lima, Peru, ²Hospital Regional de Loreto, Iquitos, Peru

1895

PREVALENCE OF ESKAPE PATHOGENS AND THEIR ANTIMICROBIAL RESISTANT IN WOUND INFECTIONS FROM HOSPITALIZED PATIENTS IN THE PERUVIAN AMAZON CITY OF IQUITOS

Ricardo E. Abadie Saenz¹, Rosa Burga¹, Claudio Rocha¹, Karla Vilela¹, Cesar Ramal², Moises Sihuinchu³, Veronica Chicata⁴, James Regeimbal¹, Andrea McCoy¹

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1896

RESURGENCE OF DIPHTHERIA IN HAITI: OBSERVATIONS FROM THE NATIONAL EPIDEMIOLOGIC SURVEILLANCE SYSTEM: 2014 - 2018

Stanley Juin

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1897

WHOLE-GENOME ANALYSIS OF BURKHOLDERIA PSEUDOMALLEI ISOLATE ASSOCIATED WITH A CONFIRMED CASE OF MELIOIDOSIS IN PERU

Ronnie G. Gavilan, Eduardo Juscamayta-Lopez, Juan J. Ramirez
Instituto Nacional de Salud, Lima, Peru

1898

EMERGING BARTONELLA BACILLIFORMIS, LEPTOSPIRA SPP., AND RICKETTSIA SPP. IN THE SOUTHEASTERN PERUVIAN AMAZON BASIN

Juana M. del Valle¹, Fiorella Ricapa-Antay¹, Katia Díaz-Melón¹, Fernando Vásquez-Achaya², Wilmer Silva-Caso², Miguel Angel Aguilar-Luis³, Luis J. del Valle⁴, Carlos Palomares-Reyes², Pablo Weigl¹, Carlos Manrique⁵

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Clinical Tropical Medicine

1899

RETROSPECTIVE COHORT STUDY OF TYPHOID AND PARATYPHOID FEVER AT REFERRAL CENTER FOR TRAVEL AND TROPICAL DISEASES IN JAPAN

Taichiro Kobayashi¹, Masatomo Morita², Kazuaki Fukushima¹, Masaru Tanaka¹, Noritaka Sekiya³, Keishiro Yajima¹, Atsushi Ajisawa¹, Hidemasa Izumiya², Akifumi Imamura¹

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1900

HIGH-THROUGHPUT INTEGRATED DISEASE SEROSURVEILLANCE USING A ONESTEP MULTIPLEX BEAD ASSAY

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1901

INJURY AS A REASON FOR EMERGENCY DEPARTMENT VISITS IN THE AFTERMATH OF HURRICANE MARÍA IN A SOUTHERN PUERTO RICAN HOSPITAL

Carene A. Oliveras García¹, Laura E. Adams², Kyle Ryff², Vivian Pérez Gómez¹, Luis Rivera González¹, Wilmer E. Morales Hernández¹, Nicole Irizarry Del Valle¹, Jonathan Figueroa Jiménez¹, Freddie Guzmán Cruz¹, Michelle Surillo González¹, Verónica M. Frasier¹, Carlos García Gubern¹, Lilliana Sánchez-González², Gabriela Paz-Bailey², Luisa I. Alvarado¹
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1902

PREVALENCE OF FLOOD-ASSOCIATED INFECTIOUS DISEASES: A SYSTEMATIC REVIEW AND META-ANALYSIS

Sherief Ghazy¹, Mahmoud Dibas², Tarek Turk³, Sarah Ibrahim Ahmed⁴, Mohammad Rashidul Hashan⁵, Ghada Mohamed Elhoseny⁶, Ahmed Abdelaziz Eisa⁷, Tagreed Tarek Abd-elraoof⁸, Alaa Alaa El-din⁹, Kenji Hirayama¹⁰, Nguyen Tien Huy¹¹

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1903

ELECTROCARDIOGRAPHIC FINDINGS IN ADULTS WITH DENGUE FEVER

Walter Taylor¹, Ana Bonell², Annette Fox², Kinh V. Nguyen³, Mavuto Mukaka¹, Hoai T. Nguyen⁴

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1904

A 6 YEAR REVIEW COMPARISON PROFILES OF INFECTIOUS DISEASES IN UNDERNOURISHED AND WELL-NOURISHED CHILDREN IN RURAL SUB-SAHARAN AFRICA PRIMARY CARE CENTER

Yorro Bah, Fatai Momodu Akemokwe, Abdoulie Faal, Ousman Bajinka
Medical Research Council Unit The Gambia at London School of Hygiene & Tropical Medicine, Banjul, Gambia

1905

THE LAST STEP BEFORE STOPPING TRACHOMA MDAS IN CAMEROON

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1906

CHARACTERIZING UNDERNUTRITION AMONG INFANTS AGED 1 TO 6 MONTHS IN HIGH MORTALITY AFRICAN SITES WITHIN THE CHILD HEALTH AND MORTALITY PREVENTION SURVEILLANCE (CHAMPS) NETWORK

Jessica H. Watson¹, Amanda L. Wilkinson¹, Rebecca P. Philipsborn², Quique Bassat³, Peter N. Onyango⁴, Shabir A. Madhi⁵, Richard Chawana⁵, Dianna M. Blau¹, Pratima L. Raghunathan¹, Robert F. Breiman for the CHAMPS Network²

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1907

ALTERNATIVE STRATEGY FOR THE DEWORMING OF SCHOOL-AGED CHILDREN IN THE NORTHWEST AND THE SOUTHWEST REGIONS OF CAMEROON IN AN INSECURE SOCIO-POLITICAL CONTEXT

Victor Mbome Njie¹, Manjo Mathilda¹, Tchuem Tchuente¹, Joseph Oye², Serge Akongo², Julie Akame³, Patrick Mbia³, Carine Fokam³, Michel Hendji³, Yaobi Zhang⁴, Steven Reid⁵

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1908

SCREENING FAILURES: HOW TO IMPROVE COVERAGE OF VACCINATION

Antonio E. Sama¹, Vicente Urbano², Esther Eburu¹, Stephen Manock³, Carl Maas³, Carlos Cortes¹, Matilde Riloha², Stephen L. Hoffman³, Salim Abdullah⁵

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1909

A POST MASS DRUG ADMINISTRATION COVERAGE EVALUATION AND KNOWLEDGE, ATTITUDES AND PRACTICES SURVEY IN TWO HEALTH DISTRICTS IN MALI

Mahamadou Traoré¹, Boubacar Guindo², Mama Niélé Doumbia², Issa Yalcouyé³, Harouna Ninag⁴, Seydou Goita², Modibo Keita², Massitan Dembélé¹, Abdoulaye Guindo¹, Abdoul Karim Sidibé¹, Steven Reid⁵, Mohamed Lamine Yattara², Marilyn Knieriemen², Benoit Dembele², Yaobi Zhang⁶

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1910

TRACHOMA SITUATION IN 2017 ONE YEAR BEFORE ELIMINATION DATE IN MALI

Lamine Traoré¹, Modibo Keita², Benoit Dembele², Famolo Coulibaly¹, Mamadou Dembele¹, Dramane Traore², Brehima Mariko¹, Seydou Goita², Abdoul Karim Sidibé¹, Steven Reid³, Fama Kondo², Mama Niélé Doumbia², Mohamed Lamine Yattara², Marilyn Knieriemen², Yaobi Zhang⁴

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1911

MONOCYTE SUBSETS AND CO-STIMULATORY MOLECULES IN LEPROSY REACTIONS

Paulo R. Machado, Mayume Shibuya, Giovana Bergheme, Sara Passos, Jamile Rêgo, Lucas P. Carvalho
Federal University of Bahia, Salvador, Brazil

1912

A CROSS-SECTIONAL STUDY OF HEMATOLOGIC AND INFECTIOUS MORBIDITY IN KENYAN CHILDREN WITH SICKLE CELL ANEMIA

Sarah A. Korwa¹, Joseph K. Kirui¹, Casey Silver², Sheila Clapp³, Wendy P. O'Meara⁴, Festus Njuguna¹, Steve M. Taylor²

¹Moi University, Eldoret, Kenya, ²Duke University, Durham, NC, United States, ³Duke Clinical Research Institute, Durham, NC, United States, ⁴Duke Global Health Institute, Durham, NC, United States

1913

EMERGENCY VISITS TO A HOSPITAL SYSTEM IN SOUTHERN PUERTO RICO IN THE AFTERMATH OF HURRICANE MARIA

Veronica M. Frasqueri¹, Xiomara Torres¹, Luzeida Vargas¹, Laura E. Adams², Nicole M. Perez-Rodriguez¹, Angel L. Perez¹, Kyle Ryff², Liliana Sanchez-Gonzalez², Gabriela Paz-Bailey², Luisa I. Alvarado¹

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1914

SCHISTOSOMIASIS AND SOIL-TRANSMITTED HELMINTHS CONTROL IN SCHOOL-AGED CHILDREN IN NIGER

Issa Ghandou¹, Issoufou Mounkaila², Youssouf Yaye², Tourawa Ramatou¹, Amadou Sahadatou¹, Abdoulaye Mariama¹, Amy Vienoglou³

¹Ministry of Health, Niamey, Niger, ²Helen Keller International, Niamey, Niger, ³Helen Keller International, New York, NY, United States

1915

INAPPROPRIATE ANTIBIOTIC PROVISION FOR DIARRHEA AMONG HEALTH PROVIDERS IN RURAL MALI

Emily Treleaven¹, Jenny Liu², Eric Schatzkin², Caroline Whidden³, Nancy Padian⁴, Souleymane Cissouma⁵, Yacouba Samake³, Youssouf Keita³, Djoumé Diakite³, Mohamed Traore³, Naïmatou Kone³, Ari Johnson³, Kassoum Kayentao⁶

¹University of Michigan, Ann Arbor, MI, United States, ²University of California San Francisco, San Francisco, CA, United States, ³Muso, Bamako, Mali, ⁴University of California Berkeley, Berkeley, CA, United States, ⁵Ministry of Health, Bamako, Mali, ⁶Malaria Research and Training Center, Bamako, Mali

1916

A POST MASS DRUG ADMINISTRATION COVERAGE SURVEY FOR TRACHOMA TREATMENT IN GUINEA

André Géopogui¹, Christelly Badila Flore², Mamadou Siradiou Baldé¹, Cece Nieba¹, Brian Fuller³, Jean Jacques Ngamaleu Tougoue², Lamah Lamine², Bamba Fountotin Ibrahim²

¹Ministry of Health, Conakry, Guinea, ²Helen Keller International, Conakry, Guinea, ³RTI International, Washington, DC, United States

1917

TORCH SEROPREVALENCE IN PREGNANT WOMEN FROM PERI-URBAN IQUITOS IN THE AMAZON JUNGLE OF PERU

Luis Cabrera-Sosa¹, David Durand¹, Anika Eca¹, Nohelia Gamboa², Jorge Parraguez², Martín Casapia², Cesar Ugarte-Gil¹, David Kimberlin³, Theresa J. Ochoa¹

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1918

IDENTIFICATION OF BARRIERS TO HYDROCELE SURGERY: CASE STUDY OF THE BIREME AND KARA-HAY HEALTH DISTRICTS IN CAMEROON

Biholong Benjamin¹, Julie Akame², Yannick Nkoumou², Michel Hendji², Zeina Sifri³, Stephanie Parker³, Medesse Sonou³, Whitney Goldman⁴, Stefania Slabyj³, Emily Gower⁴
¹Ministry of Public Health, Yaounde, Cameroon, ²Helen Keller International, Yaounde, Cameroon, ³Helen Keller International, New York, NY, United States, ⁴University of North Carolina, Chapel Hill, NC, United States

1919

STRENGTHENING THE QUALITY OF TRACHOMATOUS TRICHIASIS SURGICAL SERVICES: USING AN INTEGRATED SUPPORTIVE SUPERVISION APPROACH

Sabrina LaTorre¹, Yannick Nkoumou², Issouf Bamba³, Whitney Goldman⁴, Medesse Sonou⁴, Emily Gower⁵, Zeina Sifri⁴, Stephanie Parker⁴, Stefania Slabyj⁴
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1920

MALARIA AND VIRAL INFECTIONS OF THE UPPER RESPIRATORY TRACT IN CHILDREN PRESENTING WITH RESPIRATORY DISTRESS AT TWO DISTRICT HOSPITALS IN GHANA: EXPLORING HOW CLINICAL PRESENTATIONS RELATE CONFIRMED DIAGNOSES

Frank Baiden¹, Justice Slyverken², Kwadwo Nyarko-Jectey³, Rachel Moresky⁴, Harry Tagbor⁵, Patrick Wilson⁴
¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²Komfo Anokye Teaching Hospital, Kumasi, Ghana, ³Mampong Government Hospital, Ashanti-Mampong, Ghana, ⁴Mailman School of Public Health, Columbia University, New York, NY, United States, ⁵School of Medical Sciences, University of Health and Allied Sciences, Ho, Ghana

1921

HIGH PREVALENCE OF ANXIETY AND DEPRESSION AMONG PATIENTS WITH DENGUE AND NON-DENGUE ACUTE FEBRILE ILLNESS IN SRI LANKA

Champica K. Bodinayake¹, Gayani L. Tillekeratne², Wasana S. Ranaweera Arachchige¹, Aruna H. Pushpakumara¹, Piumi K. Wijayaratna¹, Bhagya N. Jayasekera¹
¹Faculty of Medicine, University of Ruhuna, Galle, Sri Lanka, ²Duke University School of Medicine, Durham, NC, United States

1922

DELIVERING CAUSE OF DEATH INFORMATION AT HOUSEHOLD LEVEL IN THE CHILD HEALTH AND MORTALITY PREVENTION SURVEILLANCE (CHAMPS) IN MOZAMBIQUE: IMPLICATIONS FOR MORTALITY SURVEILLANCE DESIGN AND ACTION

Inacio Mandomando¹, Madalena Ripinga¹, Rui Guilaze¹, Carla Carrilho², Estevão Mucavele¹, Maria Maixenchs³, Antonio Siteo¹, Rosauero Varo⁴, Jaime Ordí⁴, Elizabeth O'Mara⁵, John Blevins⁵, Navit Salzberg⁵, Pratima Raghunathan⁵, Robert Breiman⁵, Diana Blau⁵, Quique Bassat⁴, Clara Menendez⁴, Khatia Munguambe¹
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1923

FEBRILE PATIENT MANAGEMENT WORLDWIDE: ANALYSIS OF EXISTING GUIDELINES AND ALGORITHMS TO INFORM NOVEL DIAGNOSTIC AND ALGORITHMIC SOLUTIONS

John Barber¹, Jen Osborn¹, Oscar Bernal², Ethan Guillen², Cassandra Kelly-Cirino¹, Sabine Dittrich¹
¹Foundation for Innovative New Diagnostics, Geneva, Switzerland, ²Doctors Without Borders (MSF), New York, NY, United States

1924

HEMECHIP: A PORTABLE, AFFORDABLE POINT-OF-CARE DIAGNOSTIC TECHNOLOGY FOR DETECTING HEMOGLOBIN DISORDERS

Umut A. Gurkan¹, Muhammad N. Hasan¹, Arwa Fraiwan¹, Priyaleela Thota², Peter Galen²
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1925

QUANTIFYING THE BURDEN OF DIARRHEA AMONG CHILDREN AND ADULTS: INCIDENCE, HOSPITALIZATIONS, AND MORTALITY IN THE GLOBAL BURDEN OF DISEASE STUDY 2017

Ibrahim Khalil, Christopher Troeger, Brigette Blacker, Gregory M. Garcia, Scott Swartz, Simon I. Hay, Robert C. Reiner
Institute for Health Metrics and Evaluation, Seattle, WA, United States

1926

PRELIMINARY PERFORMANCE OF THE BIOFIRE® FILMARRAY® TRAVEL-RELATED FEBRILE ILLNESS PANEL AT THE MAHOSOT HOSPITAL IN VIENTIANE, LAOS

Matthew T. Robinson¹, **Mike Vaughn**², Nerissa Spampinato², Brandon Hanberg², Crystal Smith², Robert Trauscht², Ashley Hillman², Prukha Nawtaisong¹, Soulignasak Thongpaseuth¹, Malavanh Vongsouvath¹, Ooyanong Phonemixay¹, Neeranuch Thangnimitchok¹, Bart Kensinger², Paul Newton¹, Robert Crisp²
¹Laos-Oxford-Mahosot Hospital-Wellcome Trust Research Unit (LOMWRU), Microbiology Laboratory, Mahosot Hospital, Vientiane, Lao People's Democratic Republic, ²BioFire Diagnostics, Salt Lake City, UT, United States

1927

SUSCEPTIBILITY OF CANDIDA ISOLATES FROM FEMALES PRESENTING WITH CANDIDAL VAGINITIS AT THREE GHANAIAN HOSPITALS TO FORMULATIONS OF CRYPTOLEPIS SANGUIOLENTA ROOT

Sylvester Kaminta¹, Mark A. Appenteng¹, Gloria Adjapong¹, Jerry Aseidu-Larbi¹, Augustine A. Ocloo², Olga Quarsie², Doris Kumadoh², Abdul-Salim Musah³, Maxwell Antwi⁴, Francis Ahireng⁴, Felix C. Mills-Robertson⁵
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1928

IMPACT OF MALARIA, PNEUMONIA AND DIARRHEAL ILLNESS ON CHILD GROWTH IN PAPUA NEW GUINEA

Maria A. Ome-Kaius¹, Sophie G. Zaloumis², Patricia Rarau², Thomas Obadia³, Mary Salib⁴, Doris Manong⁴, Stephen Rogerson², Ivo Mueller¹, Leanne J. Robinson¹
¹Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia, ²University of Melbourne, Melbourne, Australia, ³Institut Pasteur, Paris, France, ⁴PNG Institute of Medical Research, Madang, Papua New Guinea

1929

RETURNING TRAVELER WITH AN ULCERATING BUG BITE: LEISHMANIASIS MISDIAGNOSED AS SQUAMOUS CELL CARCINOMA

Sigrid M. Collier, Cuong V. Nguyen, Daniel D. Miller
University of Minnesota, Minneapolis, MN, United States

1930

THE ETIOLOGIES AND OUTCOMES OF SEPSIS IN PATIENTS WITH ACUTE FEBRILE ILLNESS IN INDONESIA: RECOMMENDATIONS FOR FUTURE DIRECTIONS

Rizka Humardewayanti Asdie¹, Khie Chen Lie², Sudirman Katu³, Mochamad Helmi Aziz⁴, Usman Hadi⁵, I. Made Utama⁶, Nurhayati Nurhayati⁴, Muhammad Karyana⁷, Herman Kosasih⁴, Emiliana Tjitra⁴, Bacht Alisjahbana⁸, M. Hussein Gasem⁹, for INA-RESPOND Network⁴
¹Gadjah Mada University/Dr. Sardjito Hospital, Yogyakarta, Indonesia, ²University of Indonesia/Dr. Cipto Mangunkusumo Hospital, Jakarta, Indonesia, ³Hasanuddin University/Dr. Wahidin Sudirohusodo Hospital, Makassar, Indonesia, ⁴Indonesia Research Partnership on Infectious Disease (INA-RESPOND), Jakarta, Indonesia, ⁵Airlangga University/Dr. Soetomo Hospital, Surabaya, Indonesia, ⁶Udayana University/Sanglah Hospital, Denpasar, Indonesia, ⁷National Institute of Health Research and Development (NIHRD), Ministry of Health Republic of Indonesia, Jakarta, Indonesia, ⁸Padjajaran University/Dr. Hasan Sadikin Hospital, Bandung, Indonesia, ⁹Diponegoro University/Dr. Kariadi Hospital, Semarang, Indonesia

1931

EFFECT OF COMORBIDITIES ON LINEAR GROWTH: A COHORT STUDY OF CHILDREN AT RISK FOR ENVIRONMENTAL ENTERIC DYSFUNCTION

Zehra Jamil¹, Najeeha Iqbal¹, Sana Syed², Kamran Sadiq¹, T. Akhund¹, Fayaz Umrani¹, Najeeb Rahman¹, Shahida Qureshi¹, Syed Ali¹
¹Aga Khan University, Karachi, Pakistan, ²Aga Khan University, University of Virginia School of Medicine, WV, United States

1932

PERSISTENTLY LOW VIRAL LOAD FOR HBV IN PATIENTS WITH HEPATOCARCINOMA IN PERU 2013 - 2015

Cesar Cabezaq¹, Johanna Balbuena², Eloy Ruiz³
¹Instituto Nacional de Salud, Lima, Peru, ²Instituto Nacional de Salud, Lima, Peru, ³Instituto Nacional de Enfermedades Neoplasicas, Lima, Peru

1933

UTILITY OF Q PCR ASSAY AS A CLINICALLY RELEVANT DIAGNOSTIC TEST

R.M I. Senavirathna¹, Y. P. Warnasekara², J. M. Jayasundara³, D. A. Hettiarachchi², M. Matthias⁴, J. M. Vinetz⁴, S. B. Agampodi²
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1934

SCALING-UP ACCESS TO OXYGEN IN 3 STATES IN NIGERIA: A PROGRAM EVALUATION

Felix Lam¹, Chizoba Fashanu², Tinsae Mekonnen³, Katherine Schroder¹, Owens Wiwa²
¹Clinton Health Access Initiative, Boston, MA, United States, ²Clinton Health Access Initiative, Abuja, Nigeria, ³Clinton Health Access Initiative, Addis Ababa, Ethiopia

1935

FLUBENDAZOLE: ROBUST PRECLINICAL DATA SUPPORT DECISION TO DISCONTINUE DEVELOPMENT IN FILARIAL WORM INFECTIONS

Benny Baeten¹, Marc Engelen¹, Sophie Lachau-Durand¹, Lieve Lammens¹, Petros Psathas², Ludo Quiryren¹, Lieven Stuyver¹, Fetene Tekle¹, Melissa Tokosh²
¹Janssen R&D & Global Public Health, Beerse, Belgium, ²Janssen R&D & Global Public Health, Raritan, NJ, United States

1936

ATYPICAL PATTERNS OF LOA LOA MICROFILARIA DENSITIES IN GABON

Luzia Veletzky¹, Jennifer Hergeth², Daniel Stelzl², Matthew McCall², Rella Zoleko-Manego², Johannes Mischlinger¹, Ghyslain Mombo-Ngoma², Wolfram Metzger³, Ayôla A. Adegnika², Peter G. Kremsner³, Benjamin Mordmüller³, Michael Ramharter¹
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1937

A BURDEN OF DISEASE ASSESSMENT OF LOA LOA INFECTION IN GABON

Luzia Veletzky¹, Jennifer Hergeth², Daniel Stelzl², Rella Zoleko-Manego², Lia B. Mbaginga², Ghyslain Mombo-Ngoma², Christine Budke³, Johannes Mischlinger¹, Ayôla A. Adegnika², Wolfram Metzger⁴, Pierre B. Matsiegui⁵, Heimo Lagler⁶, Peter G. Kremsner⁴, Benjamin Mordmüller⁴, Michael Ramharter¹
¹Bernhard-Nocht-Institute for Tropical Medicine and University Medical Center Hamburg-Eppendorf, Hamburg, Germany, ²Centre de Recherches Médicales de Lambaréné, Lambaréné, Gabon, ³Texas A&M University, College Station, TX, United States, ⁴Institut für Tropenmedizin, Universität Tübingen, Tübingen, Germany, ⁵Centre de Recherches Médicales de la Ngounié, Fougamou, Gabon, ⁶Medical University of Vienna, Vienna, Austria

1938

MASS DRUG ADMINISTRATION FOR LYMPHATIC FILARIASIS IN AN URBAN AREA OF CROSS RIVER STATE NIGERIA

Thomas Igbang¹, Benjamin Nwobi², Samson Olorusongo², Wangeci Thuo³, Michael French³
¹Cross River State Ministry Of Health, Calabar, Nigeria, ²RTI International, Abuja, Nigeria, ³RTI International, Washington, DC, United States

1939

A RANDOMIZED CLINICAL TRIAL TO STUDY THE IMPACT OF TREATMENT WITH SEMIANNUAL ALBENDAZOLE FOR LYMPHATIC FILARIASIS IN COTE D'IVOIRE

Aboulaye Meite¹, Catherine M. Bjerum², Allassane Ouattara³, Benjamin Koudou⁴, Koffi Marius Vanga³, Olivier Kouadio³, Gary Weil⁵, Christopher King²
¹Programme national de la lutte contre l'onchocercose, la schistosomiase, les geohelminthiases et la filariose lymphatique, Abidjan, Côte D'Ivoire, ²Case Western Reserve University, Cleveland, OH, United States, ³Centre Suisse de Recherche Scientifique en Côte d'Ivoire, Abidjan, Côte D'Ivoire, ⁴Liverpool School of Tropical Medicine, Abidjan, United Kingdom, ⁵Infectious Diseases Division, Department of Internal Medicine, Washington University School of Medicine, St. Louis, MO, United States

1940

IDENTIFYING RESIDUAL TRANSMISSION OF LYMPHATIC FILARIASIS AFTER MASS DRUG ADMINISTRATION - COMPARING SCHOOL-BASED VERSUS COMMUNITY-BASED SURVEILLANCE, AMERICAN SAMOA, 2016

Meru Sheel¹, Sarah Sheridan¹, Katherine Gass², Kimberly Y. Won³, Saipale Fuimaono⁴, Martyn Kirk¹, Amor Gonzales⁵, Shannon Hedtke⁶, Patricia M.

Graves⁷, Colleen L. Lau¹

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1941

POST-ELIMINATION SURVEILLANCE OF LYMPHATIC FILARIASIS IN SRI LANKA: CAN SEX- AND AGE-STRATIFIED CASE DATA BE USED TO DEMONSTRATE TRANSMISSION INTERRUPTION?

Emma L. Davis¹, Joaquin Prada², Indeewarie Gunaratna³, Deirdre Hollingsworth⁴

¹University of Warwick, Coventry, United Kingdom, ²University of Surrey, Surrey, United Kingdom, ³Anti Filariasis Campaign, Ministry of Health, Colombo, Sri Lanka, ⁴Big Data Institute, University of Oxford, Oxford, United Kingdom

1942

LYMPHATIC FILARIASIS ELIMINATION IN NEPAL: IDENTIFYING THE BARRIERS AND SOLUTIONS FOR THE LAST MILE

Pradip Rimal¹, Bibek K. Lal¹, Sudip R. Khatiwada², Achut B. Ojha², Dharmal P. Raman², Joshua Sidwell³, Michael French⁴, Molly Brady⁴

¹Epidemiology and Disease Control Division, Ministry of Health, Kathmandu, Nepal, ²RTI International, Kathmandu, Nepal, ³RTI International, Durham, NC, United States, ⁴RTI International, Washington, DC, United States

1943

PROGRESS IN STOPPING MASS DRUG ADMINISTRATION FOR ONCHOCERCIASIS - A REPORT FROM THE CARTER CENTER

Emily Griswold¹, Emmanuel Miri², Moses Katabarwa¹, Peace Habomugisha³, Zerihun Tadesse⁴, Mauricio Sauerbrey⁵, Nabil Aziz⁶, Abel Eigege², Lindsay Rakers¹, Lauri Hudson-Davis¹, Frank Richards¹

¹The Carter Center, Atlanta, GA, United States, ²The Carter Center, Jos, Nigeria, ³The Carter Center, Kampala, Uganda, ⁴The Carter Center, Addis Ababa, Ethiopia, ⁵Onchocerciasis Elimination Program of the Americas, Guatemala City, Guatemala, ⁶The Carter Center, Khartoum, Sudan

1944

REVAMPING THE STRATEGY FOR MASS DRUG ADMINISTRATION FOR LYMPHATIC FILARIASIS IN URBAN METROPOLITAN AREAS OF PORT AU PRINCE, HAITI

Alain Javel¹, Carl Fayette¹, Franck Monestime¹, Eurica Denis¹, Ellen Knowles², Sarah Craciunoiu², Cudjoe Bennett², Jean-Frantz Lemoine³, Abdel Direny⁴

¹IMA World Health, Port-au-Prince, Haiti, ²IMA World Health, Washington, DC, United States, ³National Program to Eliminate Lymphatic Filariasis, Ministry of Public Health and Population, Port-au-Prince, Haiti, ⁴RTI International, Washington, DC, United States

1945

IMPACT OF ENHANCED MDA WITH DEC PLUS ALBENDAZOLE FOR ELIMINATION OF LYMPHATIC FILARIASIS IN COASTAL GALLE DISTRICT, SRI LANKA

Indeewarie E. Gunaratna¹, Dammika de Mel¹, Gowri J. De Silva¹, Tharanga D. Dassanayake¹, Manjula W. Punchihewa², Channa T. Yahathugoda³, Ramakrishna Rao⁴, Mirani V. Weerasooriya³, Gary J. Weil⁴, Devika Mendis¹

¹Anti-Filariasis Campaign, Ministry of Health, Colombo, Sri Lanka, ²Regional Anti-Filariasis Unit, Ministry of Health, Galle, Sri Lanka, ³Faculty of Medicine, University of Ruhuna, Galle, Sri Lanka, ⁴Washington University School of Medicine, St. Louis, MO, United States

1946

LYMPHATIC FILARIASIS ELIMINATION IN URBAN AFRICA: MICRO-STRATIFICATION OVERLAP MAPPING, RISK DELINEATION AND TRANSMISSION ASSESSMENT SURVEYS

Upendo Mwingira¹, Maria Chikawe¹, Cecilia Uisso¹, Wilfred Mandara¹, Alpha Malishee¹, Mwele Malecela², Mark Taylor³, Hayley E. Mablesen³, Louise A. Kelly-Hope³

¹National Institute of Medical Research, Tanzania, Dar es Salaam, Tanzania, ²United Republic of, ³WHO Regional Office for Africa, Brazzaville, Republic of the Congo, ³Department of Parasitology, Liverpool School of Tropical Medicine, Liverpool, United Kingdom

1947

RETHINKING ELIMINATION STRATEGIES FOR LYMPHATIC FILARIASIS TRANSMISSION HOT SPOTS IN HAITI

Carl Fayette¹, Alain Javel¹, Franck Monestime¹, Eurica Denis¹, Ellen Knowles², Sarah Craciunoiu², Cudjoe Bennett², Jean-Frantz Lemoine³, Abdel Direny⁴, Abdel Direny⁴

¹IMA World Health, Port-au-Prince, Haiti, ²IMA World Health, Washington, DC, United States, ³National Program to Eliminate Lymphatic Filariasis, Ministry of Public Health and Population, Port-au-Prince, Haiti, ⁴RTI International, Washington, DC, United States

1948

ADVERSE EVENTS FOLLOWING SINGLE DOSE TREATMENT OF LYMPHATIC FILARIASIS: OBSERVATIONS FROM A REVIEW OF THE LITERATURE

Philip Budge, Carly Herbert, Britt Andersen, Gary Weil

Washington University in St. Louis, St. Louis, MO, United States

1949

EVALUATING THE IMPACT OF 17 YEARS OF ANNUAL IVERMECTIN MASS DRUG ADMINISTRATION IN THE MAHENGE ONCHOCERCIASIS TRANSMISSION FOCUS IN TANZANIA

Andreas Nshala¹, Maria Chikawe², Cecilia Uisso², Oscar Kaitaba², Sarah Craciunoiu³, Paul Cantey⁴, William Kisoka⁵, Mathias Kamugisha⁵, Upendo Mwingira²

¹IMA World Health, Dar es Salaam, Tanzania, United Republic of, ²Tanzania Neglected Tropical Disease Control Program, Dar es Salaam, Tanzania, United Republic of, ³IMA World Health, Washington, DC, United States, ⁴WHO, Geneva, Switzerland, ⁵National Institute for Medical Research, Dar es Salaam, United Republic of Tanzania

1950

COST-EFFECTIVENESS OF INTEGRATED VECTOR CONTROL FOR LYMPHATIC FILARIASIS ELIMINATION IN TAMIL NADU, INDIA

Donald S. Shepard¹, Aung K. Lwin¹, Sunish I. Pulikkottil², Mariapillai Kalimuthu³, Natarajan Arunachalam³, Brij K. Tyagi³, Graham B. White⁴

¹Brandeis University, Waltham, MA, United States, ²Indian Council on Medical Research, Port Blair, India, ³Indian Council on Medical Research, Madurai, Tamil Nadu, India, ⁴University of Florida, Gainesville, FL, United States

1951

THE RELATIVE SAFETY OF A PROMISING TRIPLE DRUG MASS DRUG ADMINISTRATION REGIMEN VERSUS A TWO-DRUG REGIMEN FOR LYMPHATIC FILARIASIS ELIMINATION IN INDIA

Jambulingam Purushothaman¹, Vijesh Sreedhar Kuttiatt¹, Subramanian Swaminathan¹, Krishnamoorthy Kaliannagounder¹, Srividya Adinarayanan¹, Gary J. Weil²

¹ICMR-Vector Control Research Centre, Puducherry, India, ²Washington University School of Medicine, St. Louis, MO, United States

1952

FIELD IMPLEMENTATION OF A NOVEL TOOL FOR THE COLLECTION OF MOSQUITO EXCRETA AND FECES FOR THE MOLECULAR XENOMONITORING OF FILARIAL WORMS AND MALARIA IN GHANA

Corrado Minetti¹, Nils Pilotte², Darren Cook¹, Mike Yaw Osei-Atweneboana³, Steven A. Williams², Lisa J. Reimer¹
¹Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²Smith College, Northampton, MA, United States, ³Council for Scientific and Industrial Research, Accra, Ghana

Helminths – Nematodes – Intestinal Nematodes

1953

HUMORAL IMMUNE RESPONSE INDUCED BY HELMINTH AND MALARIA PARASITE COINFECTION IN CENTRAL GHANA

Dennis Adu-Gyasi¹, Seth Owusu-Agyei², Margaret T. Frempong³, Dennis Konadu Gyasi¹, David Dosoo¹, Jones Opoku-Mensah¹, Rupert Delmini², Ben Gyan⁴, Kwaku Poku Asante¹
¹Kintampo Health Research Centre, Kintampo North, Ghana, ²University of Health & Allied Sciences, Ho, Ghana, ³Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, ⁴Noguchi Memorial Institute for Medical Research, Accra, Ghana

1954

MOLECULAR EPIDEMIOLOGY OF ANISAKIS SPP. IN BLUE WHITING MICROMESISTIUS POUTASSOU IN EASTERN WATERS OF SPAIN, WESTERN MEDITERRANEAN SEA

Dolores Molina-Fernández, Daniel Rubio-Calvo, Francisco Javier Adroher, Rocío Benítez
Departamento de Parasitología, Facultad de Farmacia, Universidad de Granada, Granada, Spain

1955

ANTHELMINTIC TREATMENT RESPONSE AND EMERGENCE OF ANTHELMINTIC RESISTANCE IN HUMAN POPULATION OF SOUTHERN MOZAMBIQUE INFECTED WITH SOIL-TRANSMITTED HELMINTHS

Berta Grau-Pujol¹, Maria Martinez-Valladares², Jorge Cano³, Anelcio Cossa⁴, Charfudin Saco⁵, Jose Muñoz⁶
¹Institut de Salut Global de Barcelona (ISGlobal); Centro de Investigação em Saúde de Manhiça (CISM), Mozambique; Fundación Mundo Sano, Argentina, Vila de Manhiça, Mozambique, ²Instituto de Ganadería de Montaña (CSIC-Universidad de León), Department of Animal Health, Leon, Spain, ³London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁴Centro de investigação em Saúde da Manhiça (CISM), Vila de Manhiça, Mozambique, ⁵Centro de Investigação em Saúde de Manhiça (CISM), Vila de Manhiça, Mozambique, ⁶Institut de Salut Global de Barcelona (ISGlobal); Centro de Investigação em Saúde de Manhiça (CISM), Mozambique, Barcelona, Spain

1956

SCHISTOSOMIASIS AND SOIL-TRANSMITTED HELMINTHS IN TWO HEALTH DISTRICTS OF THE KWILU PROVINCE, DEMOCRATIC REPUBLIC OF THE CONGO: EVALUATION OF THE PREVALENCE AMONG SCHOOLCHILDREN AND IN THE COMMUNITY

Raquel Inocencio da Luz¹, Clementine Roucher¹, Sylvie Linsuke², Epcó Hasker¹, Katja Polman¹, Marleen Boelaert¹
¹Institute of Tropical Medicine, Antwerp, Belgium, ²Institut National de Recherche Biomédicale, Kinshasa, Democratic Republic of the Congo

1957

RISK FACTORS FOR HUMAN HOOKWORM INFECTION IN A TRIBAL POPULATION: RESULTS FROM THE BASELINE SURVEY OF THE DEWORM3 INDIA STUDY SUBSITE

Saravanakumar Puthupalayam Kaliappan¹, Jasmine Farzana¹, Dilip Abraham¹, Malathi Manuel¹, Chinnadurai Pandi¹, Katherine E. Halliday², William Oswald², Mira Emmanuel-Fabula³, Sean Galagan³, Kristjana H. Ásbjörnsdóttir³, Sitara Ajjampur¹, Gagandeep Kang¹, Judd L. Walson³
¹Christian Medical College, Vellore, India, ²The London School of Hygiene & Tropical Medicine, London, United Kingdom, ³University of Washington, Seattle, WA, United States

1958

PARASITES DETECTED BY METAGENOMIC BARCODING BOTH CONFIRM MICROSCOPY AND IDENTIFY ADDITIONAL ORGANISMS

Leah A. Owens¹, Sagan Friant², Sarah Phillips-Garcia³, Melissa Emery-Thompson³, Tony L. Goldberg¹
¹University of Wisconsin-Madison, Madison, WI, United States, ²Hunter College-City University of New York, New York, NY, United States, ³University of New Mexico, Albuquerque, NM, United States

(ACMCIP Abstract)

1959

POOLING STRATEGY VALIDATION AND PREVALENCE-BASED MODELING FOR COST-EFFECTIVE AND EFFICIENT MONITORING OF SOIL-TRANSMITTED HELMINTH INFECTIONS

Marina Papaiaikovou¹, Nils Pilotte², Jessica R. Grant², James Wright³, Fabian Schaer⁴, Iain Gardiner⁴, Raju Misra¹, Judd L. Walson⁵, Steven A. Williams², Tim Littlewood¹
¹Natural History Museum, London, United Kingdom, ²Smith College, Northampton, MA, United States, ³Imperial College, London, United Kingdom, ⁴Deworm3, Natural History Museum, London, United Kingdom, ⁵University of Washington, Seattle, WA, United States

1960

DEWORM3 INDIA STUDY SITE: DESCRIPTION OF THE STUDY POPULATION AND PREVALENCE OF SOIL-TRANSMITTED HELMINTHS

Sitara Ajjampur¹, Saravanakumar Puthupalayam Kaliappan¹, Jasmine Farzana¹, Dilip Abraham¹, Malathi Manuel¹, Rajeshkumar Rajendiran¹, Sridhar Doss¹, Chinnadurai Pandi¹, Katherine E. Halliday², William Oswald², David Kennedy², Mira Emmanuel-Fabula³, Sean Galagan³, Kristjana H. Ásbjörnsdóttir³, Gagandeep Kang¹, Judd L. Walson³
¹Christian Medical College, Vellore, India, ²The London School of Hygiene & Tropical Medicine, London, United Kingdom, ³University of Washington, Seattle, WA, United States

1961

HIGH PREVALENCE AND INTENSITY OF HOOKWORM IN AN INDIGENOUS COMMUNITY FROM PUERTO IGUAZU, MISIONES, ARGENTINA

Ernesto Candela-Senti¹, Carolina Goizueta², Marta Cabrera³, Carla Muñoz-Antoli¹, **Maria V. Periago**⁴
¹Departamento de Farmacia y Tecnología Farmacéutica y Parasitología, Facultad de Farmacia, Universidad de Valencia, Valencia, Spain, ²Fundación Mundo Sano, Puerto Iguazú, Misiones, Argentina, ³Instituto Nacional de Enfermedades Infecciosas, Administración Nacional de Laboratorios e Institutos de Salud “Dr. Carlos G. Malbrán”, Buenos Aires, Argentina, ⁴Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Fundación Mundo Sano, Buenos Aires, Argentina

Wednesday
October 31

1962

EXPLORING SOCIOECONOMIC EQUITY IN THE REDUCTION OF HOOKWORM INFECTION PREVALENCE AND INTENSITY DURING THE TUMIKIA TRIAL

Emma Beaumont¹, Katherine Halliday¹, William Oswald¹, Elizabeth Allen¹, Stella Kepha¹, Stefan Witek-McManus¹, Charles Mwandawiro², Sammy Njenga², Carlos Mcharo², Paul M. Gichuki², Simon Brooker¹, Rachel Pullan¹
¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²KEMRI (ESACIPAC), Nairobi, Kenya

1963

THE IMPACT OF DATA UNCERTAINTY ON MODEL PREDICTIONS FOR SOIL-TRANSMITTED HELMINTHS

Marleen Werkman, Roy M. Anderson
Imperial College London, London, United Kingdom

1964

QPCR DIAGNOSTICS FOR ASCARIS LUMBRICOIDES: CHARACTERIZING THE CONNECTION BETWEEN QPCR, KATO KATZ AND WORM BURDEN

James Truscott¹, Alice Easton²
¹Imperial College London, London, United Kingdom, ²National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

1965

PREVALENCE OF STRONGYLOIDIASIS IN SOLID ORGAN TRANSPLANT PATIENTS AND POST-TREATMENT TEST-OF-CURE EFFICACY

Haley Pritchard, Vagish Hemmige, Alejandro Restrepo, Rojelio Mejia
Baylor College of Medicine, Houston, TX, United States

1966

PREVALENCE OF STRONGYLOIDIASIS IN GUATEMALA INCLUDING AN AT-RISK IMMUNOSUPPRESSED POPULATION

Paul Arkell¹, Miriam Canet², Iris Cazali³, Philip Cooper¹, Rojelio Mejia⁴
¹St. George's, University of London., London, United Kingdom, ²Hospital Roosevelt, Guatemala City, Guatemala, ³Hospital Roosevelt, Guatemala City, Guatemala, ⁴Baylor College of Medicine, Houston, TX, United States

HIV and Tropical Co-Infection

1967

DETECTING THE PREVALENCE OF CHAGAS DISEASE AMONG PEOPLE LIVING WITH HIV/AIDS IN LOS ANGELES COUNTY, CALIFORNIA

Tyler B. Evans¹, Quoc Phung T. Than², Leonardo Colemon¹, Adam C. Sukhija-Cohen¹, Otto O. Yang³
¹AIDS Healthcare Foundation, Los Angeles, CA, United States, ²California State University Northridge, Northridge, CA, United States, ³University of California Los Angeles, Los Angeles, CA, United States

1968

ASSOCIATION OF FUNCTIONAL GENOTYPES AND HAPLOTYPES IN ADIPONECTIN GENE WITH BMI, VIRAL LOAD AND CD4⁺ T CELL COUNT AMONG HIV-1 INFECTED KENYAN INJECTION SUBSTANCE USERS

Nathan Shaviya
Masinde Muliro University of Science and Technology, Kakamega, Kenya

1969

FACTORS ASSOCIATED WITH PMTCT UTILIZATION AMONG HIV-INFECTED WOMEN

Mutinta Hamahuwa¹, Yvonne Phiri¹, Pauline Manyepa¹, Nkumbula Moyo¹, Jane Mutanga¹, Phil E. Thuma¹, William J. Moss², Catherine G. Sutcliffe²
¹Macha Research Trust, Choma, Zambia, ²Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

1970

THE USE OF DIGITAL DATA CAPTURE SYSTEMS IN EVALUATING THE IMPACT OF COMMUNITY HEALTH WORKERS INTERVENTION ON ANTIRETROVIRAL THERAPY RETENTION AND ADHERENCE IN TANZANIA

Neema S. Gamasa
Ifakara Health Institute, Dar es Salaam, United Republic of Tanzania
(ACMCIP Abstract)

1971

COINFECTIONS OF SCHISTOSOMA HAEMATOBIIUM AMONGST HIV-SEROPOSITIVE AND -SERONEGATIVE WOMEN: KISANTU HEALTH ZONE, DEMOCRATIC REPUBLIC OF CONGO

Gisele M. Mvumbi¹, Adva Gadoth², Nicole A. Hoff², Kamy Musene¹, Patrick Mukadi³, Rachel A. Martin-Blais⁴, Emile Okitolonda-Wemakoy¹, Jean-Jacques Muyembe³, Anne Rimoin²
¹Kinshasa School of Public Health, Kinshasa, Democratic Republic of the Congo, ²Fielding School of Public Health, University of California Los Angeles, Los Angeles, CA, United States, ³Institut National de Recherche Biomédicale, Kinshasa, Democratic Republic of the Congo, ⁴Department of Pediatrics, University of California Los Angeles, Los Angeles, CA, United States

1972

IMPROVING CONTINUUM OF CARE IN DOMINICAN REPUBLIC FOR HIV-INFECTED PATIENTS CO-INFECTED WITH HEPATITIS B AND C

Leandro Tapia¹, Paola Peña¹, Laura Manosalvas¹, Angiolina Camilo², Jean-Pierre Routy³, Robert Paulino-Ramirez¹
¹Institute for Tropical Medicine and Global Health, Universidad Iberoamericana, Santo Domingo, Dominican Republic, ²School of Medicine, Universidad Iberoamericana, Santo Domingo, Dominican Republic, ³Division of Hematology and Chronic Viral Illness, McGill University Health Center, Montreal, QC, Canada

1973

IMPROVING THE MONITORING OF TUBERCULOSIS INFECTIONS IN PEOPLE LIVING WITH HIV IN THE DOMINICAN REPUBLIC: A CASCADE OF CARE MODEL

Jaimee Esperanza King, Angela Baez, Leandro Tapia, Robert Paulino-Ramirez
Institute for Tropical Medicine and Global Health, Universidad Iberoamericana, Santo Domingo, Dominican Republic

1974

A RARE CAUSE OF OLECRANON BURSITIS IN AN IMMUNOCOMPROMISED PATIENT: PROTOTHECA WICKERHAMII

Kruti Yagnik, Raphaël Bossé, Rachel Butts, Jennifer Reppucci, Shehla Islam, Anthony Cannella
University of Florida, Gainesville, FL, United States

1975

CRACK LUNG MIMICKING MILIARY TUBERCULOSIS AND FUNGAL DISEASES IN A HIV-INFECTED PATIENT

Andréa B. Doltrário, Lude B. Silveira, Rafael F. Silva, Fernando C. Vilar, Anna Christina T. Silva, Mariana C. Salomão, Rivian C. Faiolla, Joel Del Pádua, **Benedito A. Fonseca**, Roberto Martinez
School of Medicine of Ribeirão Preto, Ribeirão Preto, S.P., Brazil

1976

SUCCESSFUL TREATMENT OF DISSEMINATED STRONGYLOIDIASIS WITH SUBCUTANEOUS IVERMECTIN

Lude B. Silveira, Andréa B. Doltrário, Rafael F. Silva, Fernando C. Vilar, Anna Christine T. Silva, Mariana C. Salomão, Rivian C. Faiolla, Alexandre T. Fabro, **Benedito A. Fonseca**, Roberto Martinez
School of Medicine of Ribeirão Preto, Ribeirão Preto, S.P., Brazil

1977

ANTIBIOTIC RESISTANCE IN CHRONIC SUPPURATIVE OTITIS MEDIA IN A HIGH PREVALENCE HIV SETTING IN SWAZILAND: TIME FOR CHANGE

Bongani Chirigo, **Jessica A. Kumar**
Baylor International Pediatric AIDS Initiative Baylor College of Medicine, Mbabane, Swaziland

1978

CARBON NANOTUBE AS A NOVEL HIV-1 VACCINE ANTIGEN VECTOR FOR MUCOSAL IMMUNITY STIMULATION

Yang Xu¹, Brad Brooks¹, Ziyou Zhou¹, Tammy Ferguson¹, Xiangpeng Kong²
¹Luna Innovations Inc, Danville, VA, United States, ²New York University School of Medicine, New York, NY, United States

1979

IMPLEMENTATION OF AN EXTERNAL QUALITY CONTROL PROGRAM FOR HIV RAPID TEST IN THE PERUVIAN ARMED FORCES

Diana Vega¹, Rose M. Sagastegui², Fernando Ruiz², Alejandro Mercado², Carley Simpson³, Mark. P. Simons⁴, Jorge Alarcon⁵, Silvia M. Montano⁴
¹U.S. Naval Medical Research Unit No. 6 (NAMRU-6) and Asociacion Benefica PRISMA, Lima, Peru, ²Peruvian Armed Forces and Police Committee for the Prevention of HIV/AIDS (COPRECOS), Lima, Peru, ³DoD HIV/AIDS Prevention Program (DHAPP), San Diego, CA, United States, ⁴U.S. Naval Medical Research Unit No. 6 (NAMRU-6), Lima, Peru, ⁵Universidad Nacional Mayor de San Marcos, Lima, Peru

Kinetoplastida – Epidemiology (Including *Leishmania* and Trypanosomes)

1980

CHAGAS DISEASE. A SYSTEMATIC REVIEW OF CASE REPORTS THROUGH THE XXI CENTURY

Diego Abelardo Álvarez Hernández¹, María José Díaz Huizar², Alberto Manuel González Chávez², Rodolfo García Díaz Arana³, Jorge Alberto Ascencio Aragón³, Yolanda Hernández Ponce³, Mariana Álvarez Sánchez³, Emmanuel Estefan Melgarejo³, Rosalino Vázquez López³, Ana María Fernández Presas⁴
¹Fundación Carlos Slim, Mexico City, Mexico, ²Hospital Español de México, Mexico City, Mexico, ³Universidad Anáhuac México Campus Norte, Mexico State, Mexico, ⁴Universidad Nacional Autónoma de México, Mexico City, Mexico

1981

CHAGAS DISEASE AND MEXICAN IMMIGRANTS LIVING IN SOUTHERN CALIFORNIA

Alba R. Valdez-Tah
University of California, Irvine, CA, United States

1982

GEOSPATIAL-TEMPORAL DISTRIBUTION OF TEGUMENTARY LEISHMANIASIS IN COLOMBIA (2007 - 2016)

Giovanny Herrera¹, Aníbal Teherán², Iván Pradilla³, Mauricio Vera⁴, Juan David Ramírez¹
¹Grupo de Investigaciones Microbiológicas - Universidad del Rosario, Bogota, Colombia, ²Fundación Universitaria Juan N Corpas, Bogota, Colombia, ³Grupo NeUros, Universidad del Rosario, Bogota, Colombia, ⁴Ministry of Health and Social Protection, Bogota, Colombia

1983

THE PROBLEM OF HUMAN AND EQUINE AFRICAN TRYPANOSOMIASIS: THE ARMY MEDICAL VETERINARY CORPS AND THE ROYAL ARMY MEDICAL CORPS IN THE AFRICAN CAMPAIGNS DURING THE GREAT WAR

Valerie Adams¹, David Adams², Colette Rysset³, Jessmarie Gonzalez³, Autumn Davis⁴, Femi Taiwo⁵
¹Georgia Southern University, Statesboro, GA, United States, ²Point University, Savannah, GA, United States, ³South University, Savannah, GA, United States, ⁴Kennesaw State University, Kennesaw, GA, United States, ⁵Texas A & M University, College Station, TX, United States

1984

CARRIAGE RATES OF *TRYPANOSOMA CRUZI* AMONG KISSING BUGS (*TRITOMA* SPP.) IN SOUTHERN ARIZONA

Norman L. Beatty¹, Nicole Behrens-Bradley², Maria Love², Shannon Smith¹, Justin O. Schimdt³, Patricia L. Dorn⁴, Nafees Ahmad², Stephen A. Klotz¹
¹University of Arizona College of Medicine, Department of Medicine, Division of Infectious Diseases, Tucson, AZ, United States, ²University of Arizona College of Medicine, Department of Immunobiology, Tucson, AZ, United States, ³Southwestern Biological Institute, Tucson, AZ, United States, ⁴Loyola University New Orleans, Department of Biological Sciences, New Orleans, LA, United States

(ACMCIP Abstract)

1985

A CROSS-SECTIONAL STUDY OF CHAGAS DISEASE AND VECTOR EXPOSURE IN A HIGH-RISK POPULATION OF TEXAS HUNTERS

Sarah M. Gunter¹, Micaela Sandoval², Kimberly Coffman², Shannon E. Ronca¹, Rodion Gorchakov¹, Lauren Leining¹, Kristy O. Murray¹, Melissa S. Nolan¹
¹Baylor College of Medicine, Houston, TX, United States, ²The University of Texas Health Science Center, Houston, TX, United States

1986

***TRYPANOSOMA CRUZI* IN DOMESTIC AND WILD RESERVOIRS OF THE DEPARTMENT OF CÓRDOBA**

Catalina Tovar Acero¹, Dina Ricardo Caldera¹, Lyda Espitia Perez¹, Julio Chacón², Miguel Doria³
¹Universidad del Sinú, Montería, Colombia, ²Universidad de Córdoba, Montería, Colombia, ³Fundación Colombia Mía, Montería, Colombia

Wednesday
October 31

1987

PREVALENCE AND RISK FACTORS OF CHAGAS DISEASE AMONG AGRICULTURAL WORKERS IN NORTHWESTERN NICARAGUA

Megan L. McKenna¹, Sarah Gunter¹, Melissa Nolan¹, Rebecca S. Fischer¹, Denis Chavarria², Lesbia Palma², Kristy O. Murray¹

¹Baylor College of Medicine, Houston, TX, United States, ²Gerencia de Salud Ocupacional, Ingenio San Antonio, Nicaragua Sugar Estates Limited, Chichigalpa, Nicaragua

1988

DECREASING THE IMPACT OF CHAGAS DISEASE THROUGH MODELLING: THE DICTUM FRAMEWORK FOR RETRIEVING, COLLATING, AND ANALYSING SEROSURVEY DATA FOR CHAGAS DISEASE ACROSS LATIN AMERICA

Julia B. Halder¹, Denys Prociuk¹, Pierre Nouvellet², Maria-Gloria Basáñez¹, Zulma M. Cucunubá¹

¹Imperial College London and London Centre for Neglected Tropical Disease Research, London, United Kingdom, ²University of Sussex, Brighton, Imperial College London, and London Centre for Neglected Tropical Disease Research, London, United Kingdom

1989

COMPARISON OF COSTS BETWEEN TWO STRATEGIES OF ACTIVE CASE FINDING OF HUMAN AFRICAN TRYPANOSOMIASIS IN THE DEMOCRATIC REPUBLIC OF THE CONGO

Rian Snijders¹, Alain Fukinsia², Yves Claeys¹, Epcó Hasker¹, Alain Mpanya², Erick Miaka², Pascal Lutumba³, Filip Meheus⁴, Marleen Boelaert¹

¹Institute of Tropical Medicine Antwerp, Antwerp, Belgium, ²Programme National de Lutte Contre la Trypanosomiase Humaine Africaine, Kinshasa, Democratic Republic of the Congo, ³Tropical Medicine Department, Kinshasa University, Kinshasa, Democratic Republic of the Congo, ⁴International Agency for Research on Cancer, Lyon, France

1990

THE VALUE OF HAT STAGING BEYOND TREATMENT

Cody A. Palmer, Caitlin A. Bever

Institute For Disease Modeling, Bellevue, WA, United States

1991

INVESTIGATING THE GENETIC DIVERSITY OF TRYPANOSOMA CRUZI FROM PROCYON LOTOR IN LOUISIANA USING A NEXT-GENERATION SEQUENCING APPROACH

Alicia Majeau¹, Nikki Anderson², Gary Balsamo³, Dawn Wesson¹, Eric Dumonteil¹, Claudia Herrera¹

¹Tulane University, New Orleans, LA, United States, ²Louisiana Department of Wildlife and Fisheries, Baton Rouge, LA, United States, ³Office of Public Health, Louisiana Department of Health, New Orleans, LA, United States

1992

COMPANION DOGS LIVING IN UNDERSERVED COMMUNITIES ALONG THE US MEXICO-BORDER SERVE AS RESERVOIR HOSTS FOR TRYPANOSOMA CRUZI, AN INCREASING PUBLIC HEALTH THREAT

Italo B. Zecca, Lisa D. Auckland, Ester Carbajal, Sarah Hamer
Texas A&M University, College Station, TX, United States

One Health: Interface of Human Health/Animal Diseases

1993

ASSESSING BEHAVIORAL RISK FACTORS FOR DISEASE TRANSMISSION AT THE HUMAN-ANIMAL INTERFACE IN LAIKIPIA COUNTY, KENYA - 2017

Lindsey M. Shields¹, Joseph Kamau², Peris Ambala², Allan Kwallah³, Elizabeth Ashby⁴, Megan Vodzak¹, Suzan Murray¹, Dawn Zimmerman¹
¹Smithsonian Institution, Washington, DC, United States, ²Institute of Primate Research, Nairobi, Kenya, ³Kenya Medical Research Institute, Nairobi, Kenya, ⁴George Mason University, Fairfax, VA, United States

1994

DO SPOROTRICHOSIS ETIOLOGICAL AGENTS EQUALLY DISPLAY POTENTIAL VIRULENCE ATTRIBUTES?

Pâmella A. Macêdo-Sales¹, Ricardo Luiz D. Machado¹, Lucieri O. Souza², Simone R. Souto¹, Leila Maria Lopes-Bezerra³, Elisabeth M. Rocha¹, Hector M. Mora-Montes⁴, Andre Luis S. Santos², **Andrea Regina S. Baptista¹**

¹Universidade Federal Fluminense, Niteroi, Brazil, ²Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil, ³Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brazil, ⁴Universidad de Guanajuato, Guanajuato, Mexico

1995

ZOONOTIC THREATS OF MONGOLIAN HERDING HOUSEHOLDS: A ONE HEALTH APPROACH TO IDENTIFYING RISK FACTORS AND DISEASE PERCEPTIONS

Amber N. Barnes¹, Uyanga Baasandagva², Anu Daavasuren², Battsetseg Gonchigoo², Gregory C. Gray¹

¹Duke University, Durham, NC, United States, ²Institute of Veterinary Medicine, Ulaanbaatar, Mongolia

1996

COMPARING SURVEYS ON TICK BITE HISTORY TO EVIDENCE OF TICK-BORNE DISEASE EXPOSURE AMONG NOMADIC MONGOLIAN HERDERS

Kathryn M. Hogan¹, Sukhbaatar Lkhagvatseren², Bazartseren Boldbaatar², Ben Anderson³, Laura Pulscher³, Gregory C. Gray³, Michael E. von Fricken¹

¹Department of Global and Community Health, George Mason University, Fairfax, VA, United States, ²Institute of Veterinary Medicine, Ulaanbaatar, Mongolia, ³Division of Infectious Disease, Duke Global Health Institute, Duke University, Durham, NC, United States

1997

THE COEVOLUTION EFFECT: A HYPOTHESIS TO EXPLAIN ZOONOTIC PATHOGEN SPILLOVER

Sarah Zohdy, Tonia S. Schwartz, Jamie R. Oaks
Auburn University, Auburn, AL, United States

1998

ANTIMICROBIAL SUSCEPTIBILITY OF ARCOBACTER, AN EMERGING ZOONOTIC PATHOGEN ISOLATED FROM FECAL HUMAN AND ANIMAL SAMPLES (CATTLE AND PIGS)

Rito Zerpa¹, Jorge O. Alarcón¹, Debora E. Alvarado², Astrid A. Laguna³, Elizabeth A. Ortega³, Javier O. Soto⁴

¹Instituto de Medicina Tropical, Lima, Peru, ²Biology Faculty, San Marcos University, Lima, Peru, ³Faculty of Medicine, San Marcos University, Lima, Peru, ⁴Instituto Materno Infantil San Bartolomé, Lima, Peru

1999

COXIELLA BURNETII WITHIN SMALL LIVESTOCK HERDS IN AN AREA OF SEDENTARY PASTORALISTS IN LAIKIPIA, KENYA: HERDING BEHAVIORS, SOCIOECONOMICS AND SEROPREVALENCE

Peter S. Larson¹, Rebecca Hardin¹, Johannes Foufopoulos¹, Christine A. Wang¹, Leon Espira¹, Eric Fevre², Springer Browne³, Joseph N. Eisenberg¹
¹University of Michigan, Ann Arbor, MI, United States, ²International Livestock Research Institute, Nairobi, Kenya, ³Massey University, Auckland, New Zealand

2000

CHARACTERIZING THE RISK OF BAT-BORNE VIRUS EXPOSURE AT POPULAR CAVE DESTINATIONS IN SOUTHEAST ASIA FOR PREVENTION AND RESPONSE

Heather S. Davies¹, Alexis C. Garretson², Kathryn M. Hogan³, Faris Naimi², Megan E. Vodzak⁴, Dawn Zimmerman⁴, Marc Valitutto⁴, A. Alonso Aguirre¹, Michael von Fricken³
¹Department of Environmental Science and Policy, George Mason University, Fairfax, VA, United States, ²Department of Biology, George Mason University, Fairfax, VA, United States, ³Department of Global and Community Health, George Mason University, Fairfax, VA, United States, ⁴Global Health Program, Smithsonian Conservation Biology Institute, Washington, DC, United States

2001

ONE HEALTH APPROACH AND MOLECULAR EPIDEMIOLOGY OF MELIOIDOSIS IN SOUTHERN THAILAND

Apichai Tuanyok¹, Jedsada Kaewrakmuk², Vannarat Saechan², Pacharapong Khongsri¹, Somporn Sretrirutchai², Thanaporn Hortiwakul², Phuwadol Suwanna³, Michael H. Norris¹, Yuta Kinoshita⁴, Treenate Jiranantasak¹, Mohammad S. Rahman-Khan¹, Sarah Parker¹, Aleeza T. Kessler¹, Chompoonoot Koonrunsesomboon¹, Sarunyou Chusri²
¹University of Florida, Gainesville, FL, United States, ²Prince of Songkla University, Hatyai, Thailand, ³Songkhla Zoo, Songkhla, Thailand, ⁴Equine Research Institute, Tochigi, Japan

2002

UNDERDIAGNOSES OF RODENT-BORNE DISEASES IN PATIENTS HOSPITALIZED WITH ACUTE FEVER IN INDONESIA

Usman Hadi¹, Bacht Alisjahbana², Dewi Lokida³, Khie Chen Lie⁴, I made Susila⁵, Ninny Meutia Pelupessy⁶, Tri Wibawa⁷, Herman Kosasih⁸, Emiliana Tjitra⁹, Muhammad Karyana⁹, Muhammad Husein Gasem¹⁰
¹RSUD dr Soetomo, Surabaya, Indonesia, ²RSUP dr Hasan Sadikin, Bandung, Indonesia, ³RSU Kab Tangerang, Tangerang, Indonesia, ⁴RSUPN dr Cipto Mangunkusumo, DKI Jakarta, Indonesia, ⁵RSUP Sanglah, Denpasar, Indonesia, ⁶RSUP dr Wahidin Sudirohusodo, Makassar, Indonesia, ⁷RSUP dr Sardjito, Yogyakarta, Indonesia, ⁸INA-RESPOND, DKI Jakarta, Indonesia, ⁹National Institute of Health Research and Development, DKI Jakarta, Indonesia, ¹⁰RSUP dr Kariadi, Semarang, Indonesia

Pneumonia, Respiratory Infections and Tuberculosis

2003

USE OF AN INDUCIBLE EXPRESSION SYSTEM TO EVALUATE THE EFFECT OF MUTATIONS IN PNCA ON THE PYRAZINAMIDE SUSCEPTIBILITY IN MYCOBACTERIUM TUBERCULOSIS

Yudith Cauna Orocollo¹, Patricia Sheen Cortavarría¹, Robert Gilman², Mirko Zimic Peralta¹
¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²Johns Hopkins University, Baltimore, MD, United States

2004

WILLINGNESS TO VACCINATE AGAINST INFLUENZA A (H1N1)PDM09 AMONG UNIVERSITY EMPLOYEES IN BRAZIL

Guilherme L. Werneck¹, Eduardo Faerstein²
¹Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil, ²Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brazil

2005

DEMOGRAPHIC AND CLINICAL CHARACTERISTICS OF CHILDREN WITH INVASIVE PNEUMOCOCCAL DISEASE IN LIMA, PERU

Franco Castillo-Tokumori¹, Erik Mercado¹, Madhelli Marcelo¹, Olguita Del Aguila², Isabel Reyes³, Francisco Campos⁴, Maria Castillo⁵, Andres Saenz⁶, Eduardo Chaparro⁷, Roger Hernandez⁷, Theresa Jean Ochoa⁸
¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²Hospital Nacional Edgardo Rebagliati Martins, Lima, Peru, ³Hospital de Emergencias Pediátricas, Lima, Peru, ⁴Hospital Nacional Docente Madre-Niño San Bartolome, Lima, Peru, ⁵Instituto Nacional de Salud del Niño, Lima, Peru, ⁶Hospital Daniel A. Carrion, Lima, Peru, ⁷Hospital Cayetano Heredia, Lima, Peru, ⁸University of Texas School of Public Health, Houston, TX, United States

2006

GENOTYPING AND DRUG RESISTANT PREVALENCE OF MYCOBACTERIUM TUBERCULOSIS IN SOUTHERN PENINSULA OF HAITI

Md Siddiqur Rahman Khan¹, Michael Lauzardo², Madsen Beau de Rochars³, Chie Nakajima⁴, Muhammad Manjurul Karim⁵, John Glenn Morris, JR⁶, Apichai Tuanyok¹
¹Emerging Pathogens Institute, Department of Infectious Diseases and Immunology, University of Florida, Gainesville, FL, United States, ²Emerging Pathogens Institute, Southeastern National Tuberculosis Center, Department of Medicine, Division of Infectious Diseases and Global Medicine, University of Florida, Gainesville, FL, United States, ³Emerging Pathogens Institute, College of Public Health and Health Professions, University of Florida, Gainesville, FL, United States, ⁴Research Center for Zoonosis Control, Division of Bioresources, Hokkaido University, Sapporo, Japan, ⁵University Dhaka, Dhaka, Bangladesh, ⁶Emerging Pathogens Institute, College of Medicine, University of Florida, Gainesville, FL, United States

2007

COMPARISON OF TWO DECONTAMINATION METHODS OF SPUTUM SAMPLES FOR THE DIAGNOSIS OF TUBERCULOSIS BY MODS SYSTEM

Adrián J. Quintana Bedoya, Elisa D. Roncal Rios, Hector J. Arteaga Pillaca, Jorge Coronel Herrera, Mirko Zimic Peralta, Patricia Sheen Cortavarría
Universidad Peruana Cayetano Heredia, Lima, Peru

2008

SMS FOR PHARMACIES AS AN EDUCATIONAL TOOL TO IMPROVE THE KNOWLEDGE ON PREVENTION AND EARLY DETECTION OF MULTIDRUG-RESISTANT TUBERCULOSIS IN A DISTRICT OF LIMA, PERU

Jorge G. Hernandez-Cordova¹, Virgilio Failoc Rojas²
¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²Pedro Ruiz Gallo University, Chiclayo, Peru

2009

DETERMINATION OF RESISTANCE TO PYRAZINAMIDE BY QUANTITATIVE WAYNE FROM SPUTUM SAMPLES FROM PATIENTS WITH TUBERCULOSIS

Emily Toscano¹, Mirko Zimic¹, Adrian Quintana¹, Hector Arteaga¹, Katherine Vallejos², Ricardo Antiparra¹, Yudith Cauna¹, Eduardo Ticona², Luz Huaroto², Raquel Muguza², Patricia Sheen¹
¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²Tuberculosis Working group, Lima, Peru

2010

EVALUATION OF THE ROLE OF MSMEG_0232 GENE IN THE EFFLUX OF PIRAZINOIC ACID IN *MYCOBACTERIUM SMEGMATIS*

Luz Saavedra, Ricardo Antiparra, Marco Santos, Mirko Zimic, Patricia Sheen
Universidad Peruana Cayetano Heredia, Lima, Peru

2011

HIGH PREVALENCE OF RESPIRATORY VIRUS AND ATYPICAL BACTERIUM AMONG CHILDREN WITH A PROBABLE DIAGNOSIS OF PERTUSSIS

Jorge Valverde¹, Stephanie Saiki¹, Angela I. Cornejo-Tapia¹, Maria E. Castillo², Miguel A. Aguilar-Luis³, Fernando Vásquez-Achaya¹, Wilmer G. Silva-caso¹, Olguita del Aguila⁴, Carlos Bada⁵, Erico Cieza-Mora⁶, Juana M. del Valle-Mendoza⁷
¹*Universidad Peruana de Ciencias Aplicadas, Lima, Peru*, ²*Instituto Nacional de Salud del Niño, Lima, Peru*, ³*Universidad Peruana de Ciencias Aplicadas, Instituto de Investigación Nutricional, Instituto de Investigación de Enfermedades Infecciosas, Lima, Peru*, ⁴*Hospital de Emergencias Pediátricas, Lima, Peru*, ⁵*Hospital Edgardo Rebagliati Martins, Lima, Peru*, ⁶*Hospita Regional Docente de Cajamarca, Cajamarca, Peru*, ⁷*Universidad Peruana de Ciencias Aplicadas, Instituto de Investigación Nutricional, Lima, Peru*

2012

BORDETELLA PERTUSSIS IN CHILDREN HOSPITALIZED WITH A RESPIRATORY INFECTION. CLINICAL CHARACTERISTICS AND PATHOGEN DETECTION IN HOUSEHOLD CONTACTS

Juana M. del Valle-Mendoza¹, Wilmer Silva-Caso¹, Miguel A. Aguilar-Luis¹, Cristina del Valle-Vargas², Erico Cieza-Mora³, Andrea Silva⁴, Johanna Martin-Luna⁵, Ronald Aquino-Ortega¹, Jorge Bazán-Mayra⁶, Pablo Weigl⁵
¹*Universidad Peruana de Ciencias Aplicadas, Instituto de Investigación Nutricional, Lima, Peru*, ²*Univesidad de Barcelona, Barcelona, Spain*, ³*Hospital Docente Regional de Salud de Cajamarca, Lima, Peru*, ⁴*Instituto de Investigación Nutricional (IIN), Lima, Peru*, ⁵*Universidad Peruana de Ciencias Aplicadas, Lima, Peru*, ⁶*Dirección Regional de Salud de Cajamarca (DIRESA), Lima, Peru*

2013

MECHANISM OF POST-DISCHARGE DEATH AND “SECOND HIT” INFECTIONS: THE EFFECT OF INTESTINAL INFECTIONS ON LUNG IMMUNITY

Shubhanshi Trivedi, Daniel T. Leung
The University of Utah, Salt Lake City, UT, United States

Schistosomiasis and Other Trematodes – Immunology, Pathology, Cellular and Molecular Biology

2014

TRANSCRIPTIONAL RESPONSES OF THE VECTOR SNAIL *BIOMPHALARIA GLABRATA* TO *SCHISTOSOMA MANSONI* AND TWO ADDITIONAL RELEVANT PARASITES: A COMPARATIVE APPROACH TO UNDERSTANDING SNAIL IMMUNITY

Lijun Lu¹, Lijing Bu¹, Si-Ming Zhang¹, Sarah K. Buddenborg², Eric S. Loker¹
¹*The University of New Mexico, Albuquerque, NM, United States*, ²*Wellcome Sanger Institute, Hinxton, United Kingdom*

(ACMCIP Abstract)

2015

DIFFERENTIAL GENE EXPRESSION OF PIWI IN *BIOMPHALARIA GLABRATA* SNAILS WITH VARYING SUSCEPTIBILITY TO *SCHISTOSOMA MANSONI*

Andrea P. Borns¹, Carolyn Cousin¹, Freddie Dixon¹, Matty Knight²
¹*University of the District of Columbia, Washington, DC, United States*, ²*University of the District of Columbia and George Washington University, Washington, DC, United States*

(ACMCIP Abstract)

2016

TRANSCRIPTS ENCODING HUMAN SIGLEC HOMOLOGS IN *BIOMPHALARIA GLABRATA* SNAILS ARE REGULATED IN RESPONSE TO *SCHISTOSOMA MANSONI* INFECTION: A MODEL SYSTEM TO STUDY EVASION OF INNATE IMMUNITY IN CANCER

Olyemi G. Akinyele
University of the District of Columbia, Washington, DC, United States

(ACMCIP Abstract)

2017

EXPLORING THE ROLES OF SMJNK AND SMP38 IN *SCHISTOSOMA MANSONI* AND ITS POTENTIAL AS THERAPEUTIC TARGETS AGAINST SCHISTOSOMIASIS

Sandra Grossi Gava¹, Naiara Clemente Tavares¹, Izabella Cristina Batista¹, Karina Barbosa Queiroz², Lodewijk Dekker³, Franco Harald Falcone³, Guilherme Oliveira⁴, Marina Moraes Mourão¹
¹*René Rachou Institute, Belo Horizonte, Brazil*, ²*Universidade Federal de Ouro Preto, Ouro Preto, Brazil*, ³*University of Nottingham, Nottingham, United Kingdom*, ⁴*Vale Institute of Technology, Belém, Brazil*

(ACMCIP Abstract)

2018

STUDY OF CHANGES IN THE TRANSCRIPTOME OF MOUSE BLADDER FOLLOWING BLADDER WALL INJECTION OF *SCHISTOSOMA HAEMATOBIIUM* EGGS

Kenji Ishida, Evaristus Mbanefo, Loc Le, Michael Hsieh
Biomedical Research Institute, Rockville, MD, United States

(ACMCIP Abstract)

2019

USE OF THE *BIOMPHALARIA GLABRATA*, *SCHISTOSOMA MANSONI* HOST- PATHOGEN MODEL SYSTEM AS SURROGATE TO STUDY METASTATIC CANCER AS A PARASITIC DISEASE

Swara B. Yadav
University of the District of Columbia, Washington, DC, United States

2020

COMPARISON OF METHODS FOR EVALUATING THE MOTILITY, INFECTIVITY AND VIABILITY OF SCHISTOSOME CERCARIAE IN WATER

Laura Braun¹, Lucinda Hazell¹, Fiona Allan², Aidan M. Emery², Michael R. Templeton¹
¹*Imperial College London, London, United Kingdom*, ²*Natural History Museum, London, United Kingdom*

2021

DETECTION OF *SCHISTOSOMA MANSONI* SPOROCYST STAGE IN *BIOMPHALARIA GLABRATA* MOLLUSK IN EXPERIMENTAL CONDITIONS

Márcia Oliveira Casotti¹, Roseli Tuan², Michele Gomes¹, Expedito José Albuquerque Luna³, Emmanuel Dias-Neto¹, Fabiana Martins Paula¹, João Renato Rebelo Pinho¹, Flair José Carrilho¹, Ronaldo Cesar Borges Gryscek¹, Maria Cristina C. Espírito-Santo¹
¹*Faculdade de Medicina da Universidade de São Paulo, São Paulo, Brazil*

²Superintendência de Controle de Endemias (SUCEN), São Paulo, Brazil, ³Instituto de Medicina Tropical-Faculdade de Medicina/Universidade de São Paulo/Faculdade de Medicina da Universidade de São Paulo, São Paulo, Brazil

(ACMCIP Abstract)

2022

CYTOKINES AS PREDICTORS OF SCHISTOSOMA MANSONI INFECTION INTENSITIES AND REINFECTION RATES

Rachel Francoeur¹, Aaron Atuhaire², Moses Arinaitwe², Nankasi Andrina², Aidah Womboko², Fred Besigye², Candia Rowel², Poppy H. Lamberton¹
¹University of Glasgow, Glasgow, United Kingdom, ²Ugandan Ministry of Health, Kampala, Uganda

2023

PROTEOMIC ANALYSIS AND IDENTIFICATION OF SCHISTOSOMA MANSONI CERCARIAL TAIL PROTEINS

Sreemoyee Acharya, Gunnar R. Mair, Michael J. Kimber, Timothy A. Day
Iowa State University, Ames, IA, United States

(ACMCIP Abstract)

2024

COMPARATIVE GENOMICS PROVIDES INSIGHT INTO THE EVOLUTION OF TREMATODES IN THE FAMILY FASCIOLIDAE

Young-Jun Choi¹, Peter U. Fischer¹, Thanh Hoa Le², David Blair³, Paul J. Brindley⁴, Jose F. Tort⁵, Miguel M. Cabada⁶, Makedonka Mitreva¹
¹Washington University School of Medicine, St. Louis, MO, United States, ²Vietnam Academy of Science and Technology, Hanoi, Vietnam, ³James Cook University, Townsville, Australia, ⁴George Washington University School of Medicine and Health Sciences, Washington, DC, United States, ⁵Universidad de la República, Montevideo, Uruguay, ⁶University of Texas Medical Branch, Galveston, TX, United States

(ACMCIP Abstract)

2025

EXPRESSION OF EMBRYONIC SOXB IN SCHISTOSOMES AFTER HOST INVASION

Stephanie Wood¹, Kenji Ishida², James Hagerty¹, Anida Karahodza¹, Janay Jones³, Emmitt R. Jolly¹
¹Case Western Reserve University, Cleveland, OH, United States, ²Biomedical Research Institute, Rockville, MD, United States, ³Wilkes Community College, Wilkesboro, NC, United States

(ACMCIP Abstract)

Water, Sanitation, Hygiene and Environmental Health

2026

THE "GESHIARO" PROJECT PROTOCOL: DEVELOPING A SCALABLE AND COST-EFFECTIVE MODEL OF INTERVENTIONS FOR THE INTERRUPTION OF TRANSMISSION OF SOIL-TRANSMITTED HELMINTHS AND SCHISTOSOMIASIS IN ETHIOPIA

Anna E. Phillips
Imperial College, London, United Kingdom

2027

QUANTITATIVE BIAS ANALYSIS TO ACCOUNT FOR MISCLASSIFIED PEDIATRIC DIARRHEA IN A CLUSTER-RANDOMIZED WATER INTERVENTION TRIAL

Kristen Aiemojy¹, Solomon Aragie², Sintayehu Gebresilliasie², Dionna M. Fry¹, Meslew Chanyalew³, Zerihun Tadesse², Aisha Stewart⁴, Kelly Callahan⁴, Elizabeth Rose Mayeda⁵, Jeremy Keenan¹
¹University of California San Francisco, San Francisco, CA, United States,

²The Carter Center, Addis Ababa, Ethiopia, ³Amhara Regional Health Bureau, Bahir Dar, Ethiopia, ⁴The Carter Center, Atlanta, GA, United States, ⁵University of California Los Angeles, Los Angeles, CA, United States

2028

E. COLI DETECTION, GROWTH, AND DIVERSITY IN HOUSEHOLD SOILS FROM HARARE, ZIMBABWE AND MIRZAPUR, BANGLADESH

Timothy R. Julian¹, Maria Camila Montealegre¹, Tala Navab Daneshmand², Subarna Roy³, Muhammad Iqbal Hossain³, Franziska Böni¹, Max N. Friedrich¹, Marja Gächter¹, Linn Mlambo⁴, Lea Caduff¹, Val F. Lanza⁵, Tamuka Nihwatiwa⁴, Hans Joachim Mosler¹, Mohammad Aminul Islam³
¹Eawag, Swiss Federal Institute of Aquatic Science and Technology, Dübendorf, Switzerland, ²Oregon State University, Corvallis, OR, United States, ³International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ⁴University of Zimbabwe, Harare, Zimbabwe, ⁵Hospital Universitario Ramón y Cajal, Madrid, Spain

2029

EFFECT OF A BEHAVIOR CHANGE INTERVENTION TO IMPROVE PERI-URBAN SANITATION QUALITY IN LUSAKA, ZAMBIA: A RANDOMIZED CONTROLLED TRIAL

James B. Tidwell¹, Robert Aunger¹, Roma Chilengi², Jenala Chipungu²
¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²Center for Infectious Disease Research in Zambia, Lusaka, Zambia

2030

DEVELOPMENT OF RECOMMENDATIONS FOR FOMITE DISINFECTION IN CHOLERA OUTBREAKS

Karin Gallandat, Daniele Lantagne
Tufts University, Medford, MA, United States

2031

HUMAN WASTES MANAGEMENT IN THE MANGROVE AREAS OF EASTERN OBOLO LGA, NIGER-DELTA, NIGERIA

Inyang A. Atting, Idorenyin D. Usip, Gabriel Umoh
University of Uyo, Uyo - Nigeria, Uyo, Nigeria

2032

SANIPATH-TYPHOID AND ENVIRONMENTAL SURVEILLANCE FOR TYPHOID: A PROTOTYPE FOR LARGE SCALE DEPLOYMENT IN CITIES IN LOW- AND MIDDLE-INCOME COUNTRIES

Suman Kanungo¹, Shanta Dutta¹, Jamie Green², Yuke Wang², Ashutosh Wadhwa², Pranab Chatterjee¹, Suraja Raj², Renuka Kapoor², James Ebdon³, Asish Mukhopadhyay¹, Jayanto Saha¹, Christine Moe²
¹ICMR National Institute of Cholera and Enteric Diseases, Kolkata, India, ²Emory University, Atlanta, GA, United States, ³University of Brighton, Brighton, United Kingdom

2033

SUCCESSFUL APPLICATION OF MICROBIAL SOURCE TRACKING USING GB-124 BACTERIOPHAGE AS AN INDICATOR OF HUMAN FECAL CONTAMINATION IN ENVIRONMENTAL SAMPLES IN KOLKATA, INDIA

Ashutosh Wadhwa¹, Shanta Dutta², James Ebdon³, Goutam Chowdhary², Renuka Kapoor¹, Yuke Wang¹, Asish Mukhopadhyay², Suman Kanungo², Pranab Chatterjee², Christine L. Moe¹
¹Emory University, Atlanta, GA, United States, ²National Institute of Cholera and Enteric Diseases, Kolkata, India, ³University of Brighton, Brighton, United Kingdom

2034

IMPACT OF A LARGE HEALTH SYSTEMS STRENGTHENING PROJECT ON THE PREVALENCE OF DIARRHEAL DISEASE IN UNDER-FIVE CHILDREN IN THE DEMOCRATIC REPUBLIC OF THE CONGO

Andrea L. Smith¹, Janna Wisniewski¹, Leslie Craig¹, Sara Iguodala¹, David Hotchkiss¹, Paul Lusamba², Joshua Yukick¹

¹Tulane University, New Orleans, LA, United States, ²Tulane International L.L.C., Kinshasa, Democratic Republic of the Congo

2035

THE OROMIA TRACHOMA F AND E STRATEGY: A CASE EXAMPLE OF EMERGING PREFERRED PRACTICE

Sarity Dodson¹, Anne Heggen², Amanuel Atomsa², Cindiya Sivasubramaniam³, Zelalem Jemel², Virginia Sarah⁴, Hirpa Miecha⁵

¹The Fred Hollows Foundation, Melbourne, Australia, ²The Fred Hollows Foundation, Addis Ababa, Ethiopia, ³The Fred Hollows Foundation, Sydney, Australia, ⁴The Fred Hollows Foundation, London, United Kingdom, ⁵Oromia Regional Health Bureau, Addis Ababa, Ethiopia

2036

THE ASSOCIATION BETWEEN COMMUNITY-LEVEL SANITATION ACCESS AND ANEMIA IN WOMEN AGE 15-49 YEARS

Brittany L. Kmush¹, Anushruta Neupane¹, Carolina F. Mendez-Rodriguez¹, Catherine Dobens¹, Mahwish Iqbal², David A. Larsen¹

¹Syracuse University, Syracuse, NY, United States, ²SUNY Upstate Medical University, Syracuse, NY, United States

2037

WATER, SANITATION, AND HYGIENE ACCESS IN SOUTHERN SYRIA: ANALYSIS OF SURVEY DATA AND RECOMMENDATIONS FOR RESPONSE

Mustafa Sikder¹, Umar Daraz², Daniele Lantagne¹, Roberto Saltori³

¹Tufts University, Medford, MA, United States, ²UNICEF, Amman, Jordan, ³Independent consultant, Amman, Jordan

2038

A SPATIALLY EXPLICIT RISK ASSESSMENT OF FACTORS IMPACTING DRINKING WATER QUALITY IN RURAL BANGLADESH

Varun Goel¹, Md. Sirajul Islam², Md. Yunus², Griffin Bell¹, Sumati Sridhar¹, Michael E. Emch¹, Mark D. Sobsey¹

¹University of North Carolina Chapel Hill, Chapel Hill, NC, United States, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

2039

QUALITATIVELY DIFFERENT ENTERIC PATHOGEN RESERVOIRS AND TRANSMISSION PATHWAYS ARE ASSOCIATED WITH CHILDHOOD GROWTH IN THE KENYAN AND GAMBIAN SITES; AN ANALYSES OF THE GLOBAL ENTERIC MULTICENTER STUDY

Kurt Z. Long¹, Abu S. Faruque², Chris Stride³, Inong R. Gunanti¹, J. Johanna Sanchez⁴, Salvador Zamora⁵, Georgina Mora⁶, James P. Nataro⁷, Dilruba Nasrin⁸, Myron Levine⁸, Karen Kotloff⁹

¹Swiss Tropical and Public Health Institute, Basel, Switzerland, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ³The Institute of Work Psychology, University of Sheffield, Sheffield, United Kingdom, ⁴Child Health Research Centre, Faculty of Medicine and Biomedical Sciences, University of Queensland, Brisbane, Australia, ⁵Mathematics Department, UNAM, Mexico City, Mexico, ⁶Secretariat of Health, Xalapa, Mexico, ⁷Department of Pediatrics, University of Virginia School of Medicine, Charlottesville, VA, United States, ⁸Department of Medicine, University of Maryland School of Medicine, Baltimore, MD, United States, ⁹Development and Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD, United States

CTropMed® Exam Committee Meeting

Marriott - Preservation Hall Studio 1 (2nd Floor)

Wednesday, October 31, 12:15 p.m. - 1:30 p.m.

Membership Committee Meeting

Marriott - Preservation Hall Studio 2 (2nd Floor)

Wednesday, October 31, 12:15 p.m. - 1:30 p.m.

Late-Breaker Abstract Session 134

Late-Breakers in Malaria

Marriott - Mardi Gras D (3rd Floor)

Wednesday, October 31, 12:15 p.m. - 1:30 p.m.

This session is specifically designed for brief presentations of new data obtained after the closing date for abstract submission. See the Late-Breaker Abstract Schedule booklet in your registration packet for the presentation schedule.

CHAIR

Urszula Krzych

Walter Reed Army Institute of Research, Silver Spring, MD, United States

Meet the Professors 135

Meet the Professors C: Engimatic and Teaching Cases

Marriott - Balcony LMN (3rd Floor)

Wednesday, October 31, 12:15 p.m. - 1:30 p.m.

Students and trainees are especially encouraged to attend these interactive sessions, which are open to all meeting attendees. The speakers will present a clinical case of a tropical disease specific to a particular region that they have found a challenge to manage or diagnose. The Professors will discuss how their career has developed as examples for students and trainees.

CHAIR

David R. Boulware

University of Minnesota, Minneapolis, MN, United States

PRESENTER

Emili Letang

ISGlobal, Barcelona Institute for Global Health, Barcelona, Spain

Poster Session C Viewing

Marriott - Grand Ballroom (Third Floor)

Wednesday, October 31, 1:45 p.m. - 4 p.m.

Symposium 136

Re-Emergence of a Neglected Bacterial Enteric Disease: *Campylobacter*, an Old Pathogen with New Problems

Sheraton - Waterbury (2nd Floor)

Wednesday, October 31, 1:45 p.m. - 3:30 p.m.

Campylobacters are well known causative agents of severe diarrheal disease, particularly in travelers and children, and are responsible for the instigation

of Guillain-Barre Syndrome, which has now become the most common cause of paralysis since efforts to eradicate polio have reached advanced stages. Recent studies are also demonstrating the high prevalence of campylobacter infection in infants in low-and middle-income countries (LMIC) and the link to growth stunting and other associated long-term effects of infection in these children. Unfortunately no licensed vaccine to protect against *Campylobacter* exists. Many of the isolated campylobacters from clinical cases and asymptomatic infections are non-*jejuni*, non-*coli*, emphasizing the need to speciate the organism to design effective intervention mechanisms. This year, the World Health Organization has included *Campylobacter* on the list of high priority antibiotic resistant pathogens, recognizing that resistance rates have increased substantially and treatment is becoming more difficult with only limited options remaining. Given the greater appreciation of its growing public health importance, there is renewed interest in developing better intervention strategies to prevent human campylobacteriosis. Much of this effort has been directed toward reduction of *C. jejuni* in poultry, a major source of human infection, but alternative strategies are required to prevent infection in LMICs where campylobacters are ubiquitous. This workshop will review the emerging burden and health impact of *Campylobacter* and present and discuss new prevention and control strategies that may serve to reduce its burden particularly in LMICs.

CHAIR

Christine Szymanski
University of Georgia, Athens, GA, United States

Lou Bourgeois
PATH, Washington, DC, United States

1:45 p.m. CAMPYLOBACTER INDUCED GUILLAIN-BARRÉ SYNDROME

Hubert Endtz
Erasmus University, Rotterdam, Netherlands

2:05 p.m. UNEXPECTED FINDINGS ASSOCIATED WITH CAMPYLOBACTERIOSIS IN PERU

Margaret Kosek
Johns Hopkins University, Baltimore, MD, United States

2:25 p.m. ANTIMICROBIAL RESISTANCE DEVELOPMENT AMONG CAMPYLOBACTERS

Qijing Zhang
Iowa State University, Ames, IA, United States

2:45 p.m. PROMISING VACCINES TO REDUCE CAMPYLOBACTERIOSIS

Christine Szymanski
University of Georgia, Athens, GA, United States

Symposium 137

Travel Medicine Challenges for the Practitioner

Sheraton - Rhythms (2nd Floor)

Wednesday, October 31, 1:45 p.m. - 3:30 p.m.

Travel medicine practitioners must be able to adapt to new diseases, vaccines, and medications, as well as continued increases in number of travelers, including those who have conditions that put them at increased risk of travel-related illness. This session will address current challenges in travel medicine, including high-risk travelers (immunocompromised, children, pregnant), new diseases and increasing range of familiar ones (Zika virus, yellow fever outbreaks in new locations), management of travel-associated illness (malaria, flaviviruses), and new data about travel vaccines.

CHAIR

Elizabeth D. Barnett
Boston Medical Center, Boston, MA, United States

Anne McCarthy
University of Ottawa, Ottawa, Canada

1:45 p.m. PREVENTION AND MANAGEMENT OF TRAVEL-ASSOCIATED MALARIA

Anne McCarthy
University of Ottawa, Ottawa, Canada

2:05 p.m. TRAVEL MEDICINE AND CHILDREN: NOT “SHOULD THEY GO?” BUT “HOW CAN THEY GO MORE SAFELY?”

Elizabeth Barnett
Boston Medical Center, Boston, MA, United States

2:25 p.m. MANAGING THE HIGH-RISK TRAVELER

Lin Chen
Mount Auburn Hospital, Cambridge, MA, United States

2:45 p.m. PERSONALIZING TRAVEL VACCINE DECISIONS: ALWAYS, SOMETIMES, OR NEVER

David Shlim
Jackson Hole Travel and Tropical Medicine, Jackson Hole, WY, United States

Symposium 138

Insights from Prospective Cohort Studies to Understand the Epidemiology of Severe Dengue and Inform Dengue Vaccine Evaluations

Sheraton - Grand Ballroom C (5th Floor)

Wednesday, October 31, 1:45 p.m. - 3:30 p.m.

Sanofi-Pasteur, the manufacturer of Dengvaxia®, the first dengue vaccine to be licensed in any country, recently announced that the vaccine should only be administered to individuals with prior dengue virus infection. This recommendation resulted from the finding of increased

risk of hospitalization and severe dengue (which includes dengue hemorrhagic fever and dengue shock syndrome) in dengue-naïve individuals who received the vaccine. This finding has complicated dengue vaccine considerations, and several countries have already either halted vaccination campaigns or refined regulations regarding who should receive the vaccine. These updated Dengvaxia® field trial findings underscore our incomplete understanding of the epidemiology and immunology of severe dengue, including risk factors for severe dengue. While multiple studies have established secondary infection as a risk factor for severe dengue and a number of studies implicate antibody dependent enhancement as a mechanism, not all secondary dengue virus infections result in severe disease and severe disease is not limited to secondary infections. Therefore, many questions remain that are relevant to evaluation of dengue vaccines. Such questions include: what are additional risk factors for developing severe dengue (e.g., underlying illnesses, sequence or timing of DENV infections, infecting DENV genotype, host genetics)?; what is the incidence of severe dengue in individuals with primary, secondary, and post-secondary infections?; is there interplay between flaviviruses that affects risk of severe dengue?; are there immune correlates of disease severity? and, what are the determinants of different manifestations of severe dengue (e.g., shock vs. hemorrhage vs. major organ involvement)? Three major prospective cohort studies have been in operation for a decade or more in Nicaragua, Peru, and Thailand. Each has provided important insights into dengue virus transmission, risk factors for infection and illness, the immune responses to dengue virus infection, and the pathogenesis of severe dengue. However, given the relative infrequency of severe dengue among dengue virus-infected individuals, as well as region-specific differences that affect risk of severe dengue, each study alone is limited in its ability to provide a comprehensive understanding of the epidemiology of severe dengue. Comparing and potentially combining observations and findings from all three studies may reveal valuable insights relevant to vaccinologists, public health professionals, academicians, and others. The primary objective of this symposium will be to review the gaps in the understanding of the clinical epidemiology of severe dengue, and specifically how prospective cohort studies may be utilized to fill them.

CHAIR

Tyler M. Sharp
Centers for Disease Control and Prevention, San Juan, PR, United States
Steve H. Waterman
Centers for Disease Control and Prevention, San Juan, PR, United States

1:45 p.m.

THE ROLE OF PRE-EXISTING ANTIBODIES AND OTHER RISK FACTORS FOR SEVERE DENGUE IN A NICARAGUAN COHORT

Eva Harris
University of California Berkeley, School of Public Health, Berkeley, CA, United States

2:05 p.m.

FINDING THE SIGNAL IN THE NOISE: 20 YEARS OF COHORT STUDIES IN THAILAND AIMING TO DISENTANGLE THE COMPLEXITIES OF DENGUE DISEASE AND TRANSMISSION

Kathryn Anderson
Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand

2:25 p.m.

INSIGHTS ON SEVERE DENGUE FROM A COHORT STUDY IN IQUITOS, PERU

Amy Morrison
University of California Davis, Davis, CA, United States

2:45 p.m.

MODELLING DATA FROM MULTIPLE COHORT STUDIES TOGETHER TO GAIN INSIGHT INTO THE EPIDEMIOLOGY OF SEVERE DENGUE

Hannah Clapham
Oxford University Clinical Research Unit, Ho Chi Minh City, Vietnam

Symposium 139

Challenges and Solutions When Nearing Elimination of the Kinetoplastid Diseases

Marriott - La Galerie 1/2 (2nd Floor)

Wednesday, October 31, 1:45 p.m. - 3:30 p.m.

Current control programs for the three core kinetoplastid diseases aim at decreasing the case numbers of Chagas disease (caused by *Trypanosoma cruzi*), Human African trypanosomiasis (HAT, caused by *Trypanosoma brucei*), and visceral leishmaniasis (caused by *Leishmania* spp.). These kinetoplastid parasites can cause a spectrum of chronic disease causing high morbidity in the affected populations and can be fatal if left untreated. This group of diseases severely affects human health and places a high socioeconomic burden on patients and their families in less developed countries. Although several large-scale control programs (e.g. visceral leishmaniasis elimination as a public health problem on the sub-Indian continent and the Southern Cone Initiative for Chagas) have contributed to a decline in the number of new cases in endemic areas, major questions now arise about the role of asymptomatic infections (latent carriers) in transmission. Moreover, barriers to identification of these asymptomatic cases in endemic areas are a shared challenge, due to factors such as geographical remoteness, imperfect sensitivity of diagnostics, lack of treatment, and lack of disease awareness/screening uptake in the population. A strategic change to win the end game, from 'control to elimination' of the kinetoplastid diseases is needed, using a multidisciplinary approach aiming for new strategies to reach and sustain the elimination targets. While each disease has its specific strategies and challenges, combining insights and efforts may provide new opportunities for innovative multidisciplinary tools and strategies. This symposium brings three key speakers together of each of the kinetoplastid diseases, and concludes with an overall vision from the World Health Organization (WHO) of integrated control strategies to

target these diseases, by which a platform for discussion and expertise-sharing will be created. Insights of at least four different themes will be shared, which are transferable to each of the diseases: case finding and detection, surveillance, diagnostics, and public awareness. The session will close with a broad discussion in order to share knowledge and experiences with other experts in the field.

CHAIR

Daniel Argaw Dagne
World Health Organization, Geneva, Switzerland

Natalie Vivian Vinkeles Melchers
Erasmus Medical Centre Rotterdam, Rotterdam, Netherlands

1:45 p.m.
THE CONTRIBUTIONS OF ECO-BIO-SOCIAL RESEARCH TO THE REMAINING CHALLENGES OF CHAGAS DISEASE CONTROL

Maria Pilar Fernandez
University of Buenos Aires/Earth Institute, Columbia University, Buenos Aires, Argentina

2:05 p.m.
INNOVATIVE STRATEGIES AND CHALLENGES FOR ELIMINATION OF HUMAN AFRICAN TRYPANOSOMIASIS

Marleen Boelaert
Institute of Tropical Medicine, Antwerp, Belgium

2:25 p.m.
REACHING AND SUSTAINING LOW VL INCIDENCE ON THE INDIAN SUBCONTINENT

Epke A. Le Rutte
Erasmus Medical Centre Rotterdam, Rotterdam, Netherlands

2:45 p.m.
SURVEILLANCE AND OTHER CROSS-CUTTING ELIMINATION ACTIVITIES OF KINETOPLASTID DISEASES

Daniel Argaw Dagne
World Health Organization, Geneva, Switzerland

Scientific Session 140

Pneumonia, Respiratory Infections and Tuberculosis I

Marriott - La Galerie 4/5/6 (2nd Floor)
Wednesday, October 31, 1:45 p.m. - 3:30 p.m.

CHAIR

Robert Breiman
Emory University, Atlanta, GA, United States

Gayani Tillekeratne
Duke University, Durham, NC, United States

1:45 p.m. **2040**

FINE-SCALE SPATIO-TEMPORAL VARIATION IN PNEUMOCOCCAL PNEUMONIA BURDEN IN CHILDREN IN AFRICA IN THE ERA OF THE PNEUMOCOCCAL CONJUGATE VACCINE

Robert C. Reiner, Daniel Casey, Christopher Troeger, Mat Baumann, Brigette Blacker, Jon Mosser, Steven Lim, Simon Hay
University of Washington, Seattle, WA, United States

2 p.m. **2041**

A GENE EXPRESSION SIGNATURE ACCURATELY IDENTIFIES VIRAL ACUTE RESPIRATORY INFECTIONS IN A SRI LANKAN POPULATION

L. Gayani Tillekeratne¹, Sunil Suchindran¹, Emily R. Ko¹, Elizabeth A. Petzold¹, Champica K. Bodinayake², Ajith Nagahawatte², Vasantha Devasiri², Ruvini Kurukulasooriya², Megan E. Reller¹, Bradly P. Nicholson¹, Micah T. McClain¹, Thomas Burke¹, Ephraim L. Tsalik¹, Ricardo Henao¹, Geoffrey S. Ginsburg¹, Christopher W. Woods¹
¹*Duke University, Durham, NC, United States*, ²*Faculty of Medicine, University of Ruhuna, Galle, Sri Lanka*

2:15 p.m. **2042**

MAPPING LOWER RESPIRATORY INFECTIONS IN SPACE AND TIME ACROSS AFRICA, 2000 - 2016

Daniel C. Casey, Scott J. Swartz, Christopher E. Troeger, Brigette F. Blacker, Mat M. Baumann, Nicholas Graetz, Simon I. Hay, Robert C. Reiner
IHME, Seattle, WA, United States

2:30 p.m. **2043**

CLIMATE VARIABILITY AND CHILDHOOD PNEUMONIA IN RURAL BANGLADESH: A TIME SERIES ANALYSIS

Mohammad Zahid Hossain¹, Al Fazal Khan², Wenbiao Hu¹
¹*Queensland University of Technology, Australia, Brisbane, Australia*, ²*International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh*

2:45 p.m. **2044**

DEVELOPING A NOVEL DEEP LEARNING BASED CAVITY DETECTION ALGORITHM FOR TUBERCULOSIS SCREENING ON CHEST XRAYS

Justy Anthony Chiramal, Preetham Putha, Manoj TLD, Bhargava Reddy T, Prashant Warier
quire.ai, Mumbai, India

3 p.m. **2045**

INFLUENZA INCIDENCE, PREVALENCE, AND MORTALITY ONE HUNDRED YEARS AFTER THE 1918 GLOBAL PANDEMIC: RESULTS FROM THE GLOBAL BURDEN OF DISEASE 2017

Christopher Troeger, Ibrahim Khalil, Brigette Blacker, Stephanie R. Zimsen, Jonathan Brown, Nicholas Kassebaum, Simon I. Hay, Robert C. Reiner
Institute for Health Metrics and Evaluation, Seattle, WA, United States

3:15 p.m. **2046**

HARNESSING MOBILE PHONES TO DEVELOP A RESPIRATORY DISEASES EVENT-BASED SURVEILLANCE SYSTEM IN RURAL BANGLADESH: A PILOT STUDY

Md. Golam Dostogir Harun¹, Syeda Mah-E- Muneer¹, Kamal Hossain¹, Md. Habibullah Fahad¹, Md. Habibur Rahman¹, Md. Hafizur Rahman¹, Dr. Sharifa Nasreen², Nadia Ali Rimi¹
¹*Programme for Emerging Infections, Infectious Diseases Division, International Centre for Diarrhoeal Disease Research, Bangladesh (icddr), Dhaka, Bangladesh*, ²*Department of Epidemiology and Biostatistics, Schulich School of Medicine and Dentistry, Western University, Canada, Dhaka, Bangladesh*

Symposium 141

IRS and Drug-Based Malaria Control: Interaction, Timing and Next Steps

Marriott - Mardi Gras D (3rd Floor)

Wednesday, October 31, 1:45 p.m. - 3:30 p.m.

This symposium will review observational evidence and modeling that show the benefits of combining indoor residual spraying (IRS) for malaria vector control with drug-based interventions, including mass drug administration (MDA) and seasonal malaria chemoprevention (SMC), for malaria parasite control. Results from a community-based trial carried out in Southern Province, Zambia from 2014-2016 to assess the impact of four rounds of MDA on top of high coverage of IRS with Actellic-CS and improved access to diagnosis and treatment will be discussed. Preliminary results from an ongoing prospective non-randomized multi-year study (2016-2019) in a high transmission setting in northeast Uganda to assess the impact of 4 rounds of population-based IRS with Actellic-CS, alone or in combination with MDA, on key malaria indicators will also be discussed. A retrospective, observational, time-series analysis of RDT-confirmed cases of malaria reported by the routine health system showing the complementary effect of IRS and SMC on malaria incidence in Mali will also be presented. Finally, a transmission model for malaria that captures how *Plasmodium falciparum* is passed between mosquitoes and people will be presented. The transmission model can be used to broadly predict RCT results testing different IRS products or net types in the context of various anti-malaria drug interventions. This evidence presented from Zambia, Uganda, and Mali, along with the transmission model, indicate a potential combined effect for simultaneously using IRS for vector control and drug-based interventions for parasite control in a variety of settings for malaria control and elimination.

CHAIR

Larry Slutsker

PATH, Washington, DC, United States

Molly Robertson

PATH, Washington, DC, United States

1:45 p.m.

SMC AND IRS IN THE SEGOU REGION OF MALI

Seydou Fomba

National Malaria Control Program, Mali, Bamako, Mali

2:05 p.m.

IRS AND MDA IN SOUTHERN ZAMBIA

Thomas Eisele

Tulane University, New Orleans, LA, United States

2:25 p.m.

IRS AND MDA IN UGANDA

Dorothy Echodu

Pilgrim Africa, Seattle, WA, United States

2:45 p.m.

MODELING IRS AND MASS DRUG ADMINISTRATION

Ellie Sherrard-Smith

Imperial College of London, London, United Kingdom

Symposium 142

Naturally Acquired Immunity to Malaria - Updates From the Field

Marriott - Mardi Gras EFGH (3rd Floor)

Wednesday, October 31, 1:45 p.m. - 3:30 p.m.

Despite immense progress, malaria remains a major health burden and the declining trend in malaria cases and deaths observed in the last decade has stalled. Understanding the development and maintenance of natural immunity to malaria is critical to achieving the ultimate goal of eradication. This knowledge assists in interpreting surveillance data and targeting interventions, and is essential for development of an effective malaria vaccine and novel therapeutics that reduce disease severity, decrease transmission, and/or maintain effective immunity in the face of improved malaria control. A hallmark of malaria infections in naïve individuals is the intense inflammatory response during blood stage infection that can contribute to severe forms of the disease. Individuals with repeated exposure to the parasite eventually develop “clinical immunity” to malaria, and are protected against symptoms, but commonly harbor parasites as asymptomatic and transmitting carriers. However, it takes years of repeated infections to develop this immunity, and at least part of this protection is short-lived, such that a degree of susceptibility to symptomatic infection is regained after only a few months or years without exposure to malaria-infected mosquitoes. Although our understanding of the mechanisms that underlie clinical immunity remains incomplete, new insights have been gained through analysis of host immune response to the parasite in endemic settings with varying exposure intensities and on different continents. This symposium will update the audience about advances in field-based research aiming to increase knowledge and detailed understanding of naturally acquired immunity to malaria in different epidemiologic settings. The session will address the current state of knowledge and present new data obtained at, and in collaboration with, research sites in Malawi, Kenya, Uganda and Papua New Guinea. The topics will cover both innate immunity, including the novel field of innate immune memory, and adaptive immunity to *P. falciparum* malaria. Concepts and data shared in this symposium will be of interest not only to the malaria community, but also to attendees who are interested in chronic infections and immune evasion of other pathogens.

CHAIR

Prasanna Jagannathan

Stanford University, Stanford, CA, United States

Anton Goetz

National Institutes of Health/National Institute of Allergy and Infectious Diseases, Rockville, MD, United States

1:45 p.m.

MASS CYTOMETRY AND ANTIBODY PROFILING REVEAL CORRELATES OF CLINICAL IMMUNITY TO *PLASMODIUM FALCIPARUM* IN RESIDENTS OF AN ENDEMIC REGION IN MFERA, MALAWI

Johanna Daily
Albert Einstein College of Medicine, Bronx, NY, United States

2:05 p.m.

CORRELATES OF PROTECTIVE IMMUNITY AGAINST *PLASMODIUM FALCIPARUM* FROM MULTICENTER COHORT STUDIES IN AFRICA

Faith Osier
KEMRI-Wellcome Trust Research Programme, Kilifi, Kenya

2:25 p.m.

GAMMA DELTA T CELL RESPONSES TO OPSONIZED MALARIA PARASITES IN CHILDREN LIVING IN PAPUA NEW GUINEA

Emily Eriksson
The Walter and Eliza Hall Institute of Medical Research, Parkville, Victoria, Australia

2:45 p.m.

IMMUNOLOGIC CONSEQUENCES OF ANTIMALARIAL CHEMOPREVENTION

Prasanna Jagannathan
Stanford University, Stanford, CA, United States

SCIENTIFIC SESSION 143

Genomic Tools and Insights into Malaria Transmission and Host Susceptibility

Marriott - Balcony IJK (3rd Floor)

Wednesday, October 31, 1:45 p.m. - 3:30 p.m.

CHAIR

Giovanna Carpi
Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States

Shannon Takala Harrison
University of Maryland School of Medicine, Baltimore, MD, United States

1:45 p.m.

2047

***PLASMODIUM FALCIPARUM* GENOME DIVERSITY AND ECOLOGICAL DYNAMICS IN *ANOPHELES FUNESTUS* MOSQUITOES FROM NORTHERN ZAMBIA**

Giovanna Carpi¹, Sha J. Zhu², Jacob Almagro-Garcia², Julia C. Pringle¹, Mbanga Muleba³, Jennifer C. Stevenson⁴, Mike Chaponda³, Modest Mulenga³, William J. Moss⁵, Douglas E. Norris¹
¹Johns Hopkins Malaria Research Institute, Department of Molecular Microbiology and Immunology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Big Data Institute, Li Ka Shing Centre for Health Information and Discovery, University of Oxford, Oxford, United Kingdom, ³Tropical Diseases Research Center, Ndola, Zambia, ⁴Johns Hopkins Malaria Institute, Department of Molecular Microbiology and Immunology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ⁵Johns Hopkins Malaria Research Institute, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

2 p.m.

2048

HAPLOTYPES OF AUTOPHAGY RELATED-GENE 10 (*ATG10*) PROMOTER POLYMORPHISMS INFLUENCE SUSCEPTIBILITY TO SEVERE MALARIAL ANEMIA IN KENYAN CHILDREN FROM A HOLOENDEMIC TRANSMISSION REGION

Caroline Ndege¹, Qiuying Cheng², Karol Dokladny², Elly O. Munde¹, Angeal O. Achieng¹, Evans Raballah³, Collins Ouma¹, Christophe G. Lambert², Prakasha Kempaiah², Douglas J. Perkins²
¹Maseno University, Maseno, Kenya, ²University of New Mexico, Albuquerque, NM, United States, ³Masinde Muliro University of Science and Technology, Kakamega, Kenya

2:15 p.m.

2049

***PLASMODIUM* EVOLUTION AND GENETIC DETERMINANTS OF HOST SPECIFICITY IN ESSENTIAL INVASION GENES**

Sasha V. Siegel, Francis Galaway, Gavin J. Wright, Julian C. Rayner
Wellcome Trust Sanger Institute, Hinxton, United Kingdom

(ACMCIP Abstract)

2:30 p.m.

2050

A NOVEL METHOD FOR IDENTIFYING PREDOMINANTLY EXPRESSED *VARS* FROM WHOLE BLOOD CLINICAL SAMPLES

Emily Stucke¹, Antoine Dara¹, Ankit Dwivedi¹, Theresa Hodges¹, Drissa Coulibaly², Abdoulaye K. Koné², Karim Traoré², Bouréima Guindo², Bourama M. Tangara², Amadou Niangaly², Modibo Daou², Issa Diarra², Issa Diarra², Youssouf Tolo², Mody Sissoko², Matthew B. Laurens¹, Amed Ouattara¹, Bourema Kouriba², Ogobara K. Doumbo², Shannon Takala-Harrison¹, Mahamadou A. Thera², Mahamadou A. Thera², Mahamadou A. Thera², Christopher V. Plowe³, Mark A. Travassos¹, Joana C. Silva¹
¹University of Maryland School of Medicine, Baltimore, MD, United States, ²University of Sciences, Techniques and Technologies of Bamako, Bamako, Mali, ³Duke Global Health Institute, Duke University, Durham, NC, United States

2:45 p.m.

2051

EXTREME DIVERSITY AND POPULATION STRUCTURE OF *VAR* GENES CAN EXPLAIN WHY IMMUNITY TO THE BLOOD STAGES OF *PLASMODIUM FALCIPARUM* IS NON-STERILIZING

Shazia Ruybal-Pesántez¹, Kathryn E. Tiedje¹, Gerry Tonkin-Hill², Shai Pilosof³, Abraham R. Oduro⁴, Michael F. Duffy¹, Kwadwo A. Koram⁵, Mercedes Pascual³, Karen P. Day¹
¹University of Melbourne, Melbourne, Australia, ²Walter and Eliza Hall Institute, Melbourne, Australia, ³University of Chicago, Chicago, IL, United States, ⁴Navrongo Health Research Centre, Navrongo, Ghana, ⁵Noguchi Memorial Institute for Medical Research, Legon, Ghana

3 p.m.

2052

MALARIA AND MARITIME TRAFFIC ON THE COLOMBIAN PACIFIC COAST

Aimee R. Taylor¹, Diego F. Echevarry², Timothy J. Anderson³, Daniel E. Neafsey¹, Caroline O. Buckee¹
¹Harvard T.H. Chan School of Public Health, Boston, MA, United States, ²Purdue University, West Lafayette, IN, United States, ³Texas Biomedical Research Institute, San Antonio, TX, United States

3:15 p.m.

2053

EXPLORATION OF *PLASMODIUM VIVAX* TRANSMISSION AND RECURRENT INFECTIONS IN THE PERUVIAN AMAZON

Annie N. Cowell¹, Hugo O. Valdivia², Danett K. Bishop², Elizabeth A. Winzeler¹

¹University of California, San Diego, CA, United States, ²U.S. Naval Medical Research Unit 6, Lima, Peru

(ACMCIP Abstract)

Annual Business Meeting Session 144

ASTMH Annual Business Meeting

Sheraton - Rodrigue Gallery (1st Floor)

Wednesday, October 31, 1:45 p.m. - 2:45 p.m.

Open to all attendees! Come learn about the work ASTMH is doing on your behalf.

Please note the ASTMH President's Address will be held on Wednesday, October 31 at 6:15 p.m. in Sheraton – Grand Ballroom C (5th Floor).

CHAIR

David R. Hill

Quinnipiac University, Hamden, CT, United States

Karen A. Goraleski

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

TropStop Career Chats

Sheraton - Lagniappe (2nd Floor)

Wednesday, October 31, 3 p.m. - 4 p.m.

The TropStop schedule features a daily one-hour afternoon session to meet professionals in the fields of tropical medicine and global health who will share their career stories and discuss topics and strategies to help you along your career path.

WORK-LIFE INTEGRATION: BRINGING YOUR KIDS TO THE FIELD

Jessica K. Fairley

Emory University School of Medicine, Atlanta, GA, United States

A. Desiree LaBeaud

Stanford University, Stanford, CA, United States

Break

Wednesday, October 31, 3:30 p.m. - 4 p.m.

Poster Session C Dismantle

Marriott - Grand Ballroom (3rd Floor)

Wednesday, October 31, 4 p.m. - 5 p.m.

Symposium 145

Supporting Quality and Child Friendly Malaria Interventions

Sheraton - Rodrigue Gallery (1st Floor)

Wednesday, October 31, 4 p.m. - 5:45 p.m.

In 2010 the WHO updated its standard treatment guidelines, recommending the use of injectable artesunate as treatment of choice. In situations where this treatment is not immediately available, the use of a single dose of rectal artesunate (RAS) for pre-referral treatment is recommended. As a result of these updates, the standard of care has greatly improved. While successful scale-up and use of critical antimalarial interventions, including medicines, has contributed to a 60% reduction in malaria-related deaths between 2000 and 2015, in 2017 malaria still led to over 440,000 deaths, of which most were children under 5. In addition, an estimated eight million cases of uncomplicated malaria progress to severe malaria each year. These cases represent the greatest current burden of the disease but very little is known about risk factors and circumstances at community level. Left untreated, these can readily result in patient death. Understanding the results of recent studies and assessment reveal gaps in patient management that will help address the high malaria incidence and mortality rate and will help countries strengthen their case management. Furthermore, the increased availability of quality assured, child-friendly medication has the potential to improve the outcomes of case management if advocated for and used correctly. Highlighting key learnings from recent quality assurance developments will help support the importance and benefits to countries endorsing quality assured medicine use.

CHAIR

Pierre Hugo

Medicines for Malaria Venture (MMV), Geneva, Switzerland

Martin de Smet

Médecins Sans Frontières, Brussels, Belgium

4 p.m.

ENSURING A CONDUCIVE ENVIRONMENT FOR THE INTRODUCTION OF QUALITY, CHILD FRIENDLY MEDICATION

Suzanne Hill

World Health Organization, Geneva, Switzerland

4:20 p.m.

REDUCING THE MALARIA BURDEN IN COMMUNITY SETTINGS: SYNERGISM ACROSS VARYING TRANSMISSION SETTINGS

Elizabeth Chizema

Ministry of Health Zambia, Lusaka, Zambia

4:40 p.m.

MANAGEMENT OF SEVERE MALARIA CASES: LEARNINGS AND CHALLENGES FROM THE FIELD

Manuel Hetzel

Swiss Tropical and Public Health Institute, Basel, Switzerland

5 p.m.

SEVERE MALARIA RAPID ASSESSMENTS: KNOWLEDGE, ATTITUDES AND PRACTICES

Tendayi Kureya

Development Data, Harare, Zimbabwe

Symposium 146

Onchocerciasis Associated Epilepsy: An Important Neglected Public Health Problem

Sheraton - Waterbury (2nd Floor)

Wednesday, October 31, 4 p.m. - 5:45 p.m.

The possibility that onchocerciasis, also known as river blindness, may cause epilepsy has been suggested since 1938, but an etiological link was never universally accepted. It was considered that *Onchocerca volvulus* microfilariae cannot penetrate the brain in order to cause epilepsy. Recent studies suggest that nodding syndrome (NS) may only be one of the clinical manifestations in the spectrum of onchocerciasis associated epilepsy (OAE). Recent epidemiological data on the prevalence and incidence of epilepsy from onchocerciasis endemic regions in the Democratic Republic of the Congo (DRC), Cameroon, Uganda, and Tanzania will be presented. Results from an observational study in northern Uganda and randomized clinical trial performed in Ituri, DRC, assessing the effect of ivermectin on the frequency of seizures in persons with OAE and data of an ongoing postmortem study in Uganda of individuals who died of OAE/NS will be presented. There is epidemiological evidence that mass treatment with ivermectin for onchocerciasis may decrease the incidence of OAE. However, there are some geographical sites in the DRC, Cameroon, and Tanzania, where despite many years of mass drug administration (MDA) with ivermectin, studies indicate a high level of onchocerciasis transmission, together with a high prevalence and incidence of epilepsy. In addition, pathophysiological mechanisms of OAE will be discussed, including the role of anti-Leiomodin 1 antibodies. Para-infectious processes, including immune-mediated events, are possible mechanisms driving *O. volvulus* neurologic manifestations. Recent findings on the characterization of autoimmune responses associated with NS and the distribution of the autoantigen in the human CNS, as well as data from animal models investigating the neurologic consequences of these immune processes, will be presented. Estimates for the burden of disease due to OAE will be presented, in terms of expected number of cases, Years of Life lived with Disability (YLDs), and required financial resources for the treatment of OAE cases. The different clinical manifestations of OAE (NS, other forms of epilepsy and Nakalanga features) will be described and guidelines shall be presented on how to optimally organize surveillance and treatment/care for persons with epilepsy in onchocerciasis endemic regions. A clinical case definition for OAE will be presented. The symposium will also discuss the unmet medical needs of patients with onchocerciasis: i.e. the need for more efficacious and safe drugs, the problem of access to

treatment for onchocerciasis patients outside MDA, and the lack of a pediatric indication/formulation for ivermectin.

CHAIR

Maria Gloria Basáñez

Imperial College London, London, United Kingdom

Thomas B. Nutman

National Institutes of Health, Bethesda, MD, United States

4 p.m.

IS ONCHOCERCA VOLVULUS ABLE TO CAUSE EPILEPSY INCLUDING NODDING SYNDROME?

Robert Colebunders

University of Antwerp, Global Health Institute, Antwerp, Belgium

4:20 p.m.

ONCHOCERCIASIS ASSOCIATED EPILEPSY A NEURO-IMMUNOLOGICAL DISEASE?

Tory Johnson

Johns Hopkins University, Baltimore, MD, United States

4:40 p.m.

THE BURDEN OF ONCHOCERCIASIS-ASSOCIATED EPILEPSY IN AFRICA

Nathalie Vinkeles Melchers

Erasmus MC, University Medical Center Rotterdam, Rotterdam, Netherlands

5 p.m.

CLINICAL MANAGEMENT OF PERSONS WITH ONCHOCERCIASIS ASSOCIATED EPILEPSY INCLUDING NODDING SYNDROME

Richard Idro

Makerere University, College of Health Sciences, Kampala, Uganda

Symposium 147

Real-Time Epidemic Analysis and Forecasting

Sheraton - Rhythms (2nd Floor)

Wednesday, October 31, 4 p.m. - 5:45 p.m.

Public health bodies need to rapidly assess the possible scale of outbreaks and take appropriate measures to limit their impact. Over-reaction can be very costly, whereas under-reaction can have devastating public health consequences, as demonstrated by the West African Ebola epidemic. Given the delays inherent in scaling up any response due to logistical challenges, and the rapidly evolving epidemiological situation that typifies most outbreaks, there is a need to make these decisions rapidly, when data are often scarce and unreliable. Mathematical models combine data and assumptions into a coherent and explicit framework and can be used to provide situational awareness and assess the likelihood of possible future epidemic trajectories, with or without interventions. It is understandable, therefore, that public health authorities are increasingly turning to these techniques to help them take these difficult decisions. At the outset of an epidemic, when the need for information for decision-making is greatest, model results will inevitably rely more heavily on assumptions and prior belief, than on information emerging from the current outbreak. Indeed, some critical data streams may not be available at all.

Hence, model results are usually very uncertain and potentially misleading at the early stages of an epidemic. This symposium will bring a number of the foremost epidemiological analysts and modellers together with leading practitioners to review progress in the field and assess the value of computational models in emergencies. The session will cover a range of methods from statistical tools to monitor epidemic progress and estimate key quantities such as the basic reproduction number, to spatial statistics and epidemic forecasting. Applications of these methods will include Ebola, cholera and diphtheria. What is the future of real-time epidemic modelling? Will it become an essential pillar of the epidemiological response or will it remain an academic exercise of limited value in the field?

CHAIR

John Edmunds
London School of Hygiene & Tropical Medicine, London, United Kingdom
Neil Ferguson
Imperial College, London, United Kingdom

4 p.m. REAL-TIME ASSESSMENT OF THE WEST AFRICAN EBOLA EPIDEMIC

Christl Donnelly
Oxford University, Oxford, United Kingdom

4:20 p.m. SPACE MATTERS TOO: USING RISK MAPS TO INFORM CHOLERA OUTBREAK RESPONSES

Andrew Azman
Johns Hopkins University, Baltimore, MD, United States

4:40 p.m. OPERATIONAL MODELLING FOR OUTBREAK RESPONSE: EXAMPLE FROM THE LIKATI EBOLA OUTBREAK, 2017

Thibaut Jombart
Imperial College, London, United Kingdom

5 p.m. THE USE OF MATHEMATICAL MODELS IN HUMANITARIAN EMERGENCIES

Ruby Siddiqui
Medicines Sans Frontiers, London, United Kingdom

Symposium 148

International Zika Cohort Studies

Sheraton - Grand Ballroom A/B (5th Floor)
Wednesday, October 31, 4 p.m. - 5:45 p.m.

Understanding Zika infection during pregnancy and adverse maternal/fetal health outcomes and the risk of vertical transmission requires large cohort studies. These cohort studies are challenging to design and implement during an outbreak. This symposium aims to provide an update on the status of several ongoing Zika cohort studies, new developments in diagnostics and modeling efforts for outbreak detection.

CHAIR

Nahida Chakhtoura
NICHD/National Institutes of Health, Bethesda, MD, United States

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

4 p.m. NIH ZIKA COHORT STUDIES

Cristina Cassetti
National Institutes of Health, Rockville, MD, United States

4:20 p.m. CDC ZIKA COHORT STUDIES

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

4:40 p.m. EU ZIKA COHORT STUDIES

Thomas Jaenisch
Heidelberg University Hospital, Heidelberg, Germany

5 p.m. MODEL-GUIDED SITE SELECTION FOR ZIKA CLINICAL STUDIES

Keya Joshi
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

Symposium 149

Technological Innovations for Enhancing the Performance of Tropical Disease Control Programs

Sheraton - Grand Ballroom C (5th Floor)
Wednesday, October 31, 4 p.m. - 5:45 p.m.

Tropical disease control programs are faced with many challenges related to identifying where and when interventions are needed, the delivery of an intervention, and its subsequent monitoring and evaluation. While huge progress continues to be made in reducing the public health impact of many diseases, if control and elimination goals are to be met, new tools and technologies are needed. This session will present a range of innovations that have practical applications within the tropical disease control domain, with a focus on providing information relevant to national and local-level disease control planning, implementation and evaluation. Innovation is a multidisciplinary process involving both the development of new technologies or the repurposing of currently existing technologies for new applications. This symposium will demonstrate this by bringing together examples of technologies whose origins lie in climate sciences, engineering and the military. Experiences will be shared on the role these technologies have the potential to play in controlling vector-borne diseases in low-resource settings. These include the development of low-cost 'smart' traps for mosquito surveillance, approaches to providing disease-relevant climate information to national control programs, the role of drones in the design of vector control strategies and the application of electromagnetic sensors for evaluating the quality of vector control efforts

CHAIR

Michelle Stanton
Lancaster University, Lancaster, United Kingdom

Margaret Glancey
John Hopkins University, Baltimore, United States

4 p.m.
VECTORWEB: A NETWORK OF CLOUD-CONNECTED SMART TRAPS FOR AUTOMATED MOSQUITO SURVEILLANCE

Soumyadipta Acharya
John Hopkins University, Baltimore, MD, United States

4:20 p.m.
ENHANCING NATIONAL CLIMATE SERVICES (ENACTS)- NEW DATA AND TOOLS FOR HEALTH DECISION-MAKING IN AFRICA

Madeleine Thomson
Columbia University, New York, United States

4:40 p.m.
THE ROLE OF DRONES IN TROPICAL DISEASE CONTROL: AN EXAMPLE OF VECTOR BREEDING SITE MAPPING

Michelle Stanton
Lancaster University, Lancaster, United Kingdom

5 p.m.
OPTIMIZING INDOOR RESIDUAL SPRAYING PERFORMANCE USING ELECTROMAGNETIC SENSOR TECHNOLOGY

Rinki Deb
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Symposium 150

Proactive Community Case Detection and Management of Malaria, Diarrhea, Pneumonia and Malnutrition

Sheraton - Grand Ballroom D/E (5th Floor)
Wednesday, October 31, 4 p.m. - 5:45 p.m.

A proactive approach to community case management is being studied in an increasing number of sub-Saharan African countries. Proactive community case management strategies deploy community health workers (CHWs) to make frequent home visits to identify people needing care, offer malaria rapid diagnostic tests for those with fever, and provide first-line therapy to those with positive tests or referral if needed. Programs may integrate diagnosis, treatment, referral, and follow-up of children with diarrhea, pneumonia, or malnutrition with diagnosis and monitoring of pregnancy, post-partum and newborns, and family planning services. In Senegal in 2013, the National Malaria Control Program (NMCP) piloted weekly home visits (called PECADOM Plus) in a rural area with seasonal malaria transmission. The proportion of malaria cases treated at the community level in the PECADOM Plus pilot was more than double that during passive case detection by CHWs, and after 20 weeks, there were sixteen-fold fewer cases of malaria diagnosed in intervention villages than in comparison villages. The NMCP scaled PECADOM Plus from 132 villages in three districts in 2014 to over 2000 villages in 40 districts in 2017, increasing the number of malaria cases treated by CHWs by over 300%. In peri-urban Bamako, proactive case detection

and management combined with other barrier-reduction interventions was associated with a decline in all-cause under-five child mortality from 155/1000 at baseline to 7/1000 in year seven, a halving of fever prevalence, and a doubling of prompt effective fever treatment ($p < 0.0001$). In Madagascar, following fortnightly home visits, population parasite prevalence fell from 8.0% to 4.7% in intervention villages, compared to a decrease from 6.8% to 5.8% in control villages. Research is ongoing to study the contribution of proactive case detection to reductions in malaria transmission and child mortality, and to identify appropriate applications for this strategy. In Mali, the impact of proactive case detection for malaria, diarrhea, pneumonia, and malnutrition on all-cause child mortality is being evaluated in a cluster-randomized trial in a rural zone with seasonal high malaria transmission. In Uganda, a four-arm trial is underway to compare proactive case detection to passive community case management for maintenance of decreased malaria burden after indoor residual spraying, with and without mass drug administration. Questions remain regarding optimal visit interval, appropriate settings, and logistical issues for proactive community case detection. The symposium will provide more detail about the programs described above and other pilot programs, and provide time for a discussion about the optimal application and implementation of this type of strategy.

CHAIR

Julie I. Thwing
Centers for Disease Control and Prevention, Atlanta, GA, United States
Ari Johnson
University of California San Francisco, San Francisco, CA, United States

4 p.m.
PILOT AND SCALE UP OF PECADOM PLUS IN SENEGAL

Seynabou Gaye
National Malaria Control Program, Dakar, Senegal

4:20 p.m.
CONTRIBUTION OF PROACTIVE COMMUNITY CASE MANAGEMENT TO REDUCTION OF ALL CAUSE UNDER 5 MORTALITY IN MALI

Kassoum Kayentao
Malaria Research and Training Centre, Bamako, Mali

4:40 p.m.
IMPACT OF PECADOM PLUS ON POPULATION PARASITE PREVALENCE IN MADAGASCAR

Laurence Baril
Institut Pasteur, Antananarivo, Madagascar

5 p.m.
PROACTIVE COMMUNITY TREATMENT AFTER INDOOR RESIDUAL SPRAYING (IRS) AND MASS DRUG ADMINISTRATION TO MAINTAIN DECREASES IN TRANSMISSION IN UGANDA

Dorothy Echodu
Pilgrim Africa, Seattle, WA, United States

Symposium 151

Accelerating Malaria Elimination through Private Sector Engagement: Dynamic Strategies to Better Localize Cases to Test, Treat and Track in the Greater Mekong Subregion (GMS)

Marriott - La Galerie 1/2 (2nd Floor)

Wednesday, October 31, 4 p.m. - 5:45 p.m.

The Greater Mekong Subregion, an area with widespread resistance to artemisinin-combination therapies (ACT) used for the treatment of malaria, has been targeted for elimination of both *P. falciparum* and *P. vivax* malaria by 2030, primarily driven by the goal of protecting these drugs for continued use in control and elimination activities worldwide. In response to implementation of effective interventions, the number of cases has dropped substantially in the last decade. As caseloads drop, *foci* of transmission, even among traditionally high-risk populations, become smaller and more difficult to identify. Approaches to testing, treating, and reporting therefore have to constantly be refined in response to a more elusive target. In the GMS, approximately 40-60% of populations access care in the private sector; therefore governments must have access to private sector surveillance data for resource planning and targeting elimination efforts. WHO works regionally with governments to achieve this better target efforts. They will share successes and challenges that governments in the region face in developing elimination-ready surveillance systems that integrate data from across the public, private and community sectors. PSI Cambodia has developed a dynamic and data-driven strategy for worksites, such as rubber plantations, a traditional 'hot spot', to better stratify and identify high-risk characteristics, more successfully find cases through better targeted testing, and more effectively target resources. The National Center for Entomology, Parasitology and Malaria Control in Lao PDR, with support from WHO and the University of Oslo (UiO), has strengthened its national surveillance system in DHIS2. As cases have dropped below 10,000 per year, Lao PDR has leveraged electronic integration with DHIS2 to enable reporting of geolocated case-based data from the private sector within 24 hours. UiO will discuss how interoperability with DHIS2 can help to overcome common challenges to accessing community and private sector data in national surveillance systems to support better targeting of response efforts. PSI Myanmar, recognizing that cases are increasingly localized in populations that have limited service delivery point access, has engaged the country's large informal network of private providers. With the government's support, they have increased reporting, improved quality of case management, and replaced oral artemisinin monotherapies with ACTs, helping providers become reliable partners in malaria elimination efforts. The symposium will demonstrate the importance of engaging the private sector if elimination is to be achieved, and how dynamic, innovative, and reliable strategies to do so.

CHAIR

Melto James Eliades
PSI, Yangon, Myanmar

Abigail Pratt
Bill & Melinda Gates Foundation, Seattle, WA, United States

4 p.m.

THE IMPORTANCE OF COMPLETE AND INTEGRATED PUBLIC AND PRIVATE SECTOR REPORTING INTO NATIONAL SURVEILLANCE SYSTEMS FOR MALARIA ELIMINATION

Rabindra Abeyasinghe
World Health Organization, Manila, Philippines

4:20 p.m.

WORKSITE DYNAMICS: TALES OF THE UNEXPECTED FROM FOUR COUNTRY CONTEXTS

Kemi Tesfazghi
PSI Cambodia, Phnom Penh, Cambodia

4:40 p.m.

INTEROPERABILITY OF DHIS2 TO SUPPORT MALARIA ELIMINATION AND RESPONSE EFFORTS

Jose Garcia Munoz
University of Oslo, Oslo, Norway

5 p.m.

THE CONTRIBUTION OF THE NON-FORMAL PRIVATE SECTOR TO ACCELERATING MALARIA ELIMINATION IN MYANMAR

Manuela Tolmino
PSI, Yangon, Mozambique

Scientific Session 152

Kinetoplastida: Molecular Biology and Immunology

Marriott - La Galerie 3 (2nd Floor)

Wednesday, October 31, 4 p.m. - 5:45 p.m.

CHAIR

Hira L. Nakhasi
Food and Drug Administration, Bethesda, MD, United States

Paul Nguewa
University of Navarra, Institute of Tropical Health, Pamplona, Spain

4 p.m.

2054

GLYBURIDE, A NLRP3 INHIBITOR REDUCES INFLAMMATORY RESPONSE AND IMMUNOPATHOLOGY IN LEISHMANIA BRAZILIENSIS INFECTION

Augusto M. Carvalho¹, Fernanda Novais², Camila I. De Oliveira³, Lucas P. Carvalho¹, Phillip Scott², Edgar M. Carvalho¹
¹Federal University of Bahia, Salvador, Brazil, ²University of Pennsylvania, Philadelphia, PA, United States, ³Instituto Gonçalo Moniz, FIOCRUZ, Salvador, Brazil

(ACMCIP Abstract)

4:15 p.m.

2055

TYPE I INTERFERONS SUPPRESSES ANTI-PARASITIC CD4⁺T CELL RESPONSES IN VISCERAL LEISHMANIASIS

Rajiv Kumar¹, Patrick Bunn², Fabian Rivera², Neetu Singh¹, Shyam Sundar¹, Christian Engwerda²

¹Banaras Hindu University, Varanasi, India, ²QIMR Berghofer Medical Research Institute, Brisbane, Australia

(ACMCIP Abstract)

4:30 p.m.

2056

ROLE OF EXOSOMAL MICRORNAS IN SHAPING PROTECTIVE IMMUNITY INDUCED BY LIVE ATTENUATED LEISHMANIA PARASITE VACCINES

Sreenivas Gannavaram, Maysum Chaudhri, Parna Bhattacharya, Hira Nakhasi

US Food and Drug Administration, Silver Spring, MD, United States

(ACMCIP Abstract)

4:45 p.m.

2057

CHAGAS DISEASE CARDIOMYOPATHY: ASSOCIATION WITH IL-17 AND IL-18 GENETIC POLYMORPHISMS

Alexandra Gomes dos Santos¹, Daiane Tomomi Ferreira², Jamile Oliveira¹, Claudia Silva Oliveira¹, Edimar Bocchi³, Cristina Novaes⁴, Fatima Cruz³, Noemia Carvalho¹, Paula Keiko Sato², Vera Lucia Freitas², Maria Aparecida Shikanai-Yasuda¹

¹Departamento de Doenças Infecciosas e Parasitárias, Faculdade de Medicina, University of São Paulo, Sao Paulo, Brazil, ²Laboratory of Immunology, Hospital das Clínicas, Faculdade de Medicina, University of São Paulo, Sao Paulo, Brazil, ³Heart Institute, Hospital das Clínicas, Faculdade de Medicina, University of São Paulo, Sao Paulo, Brazil, ⁴Divisão de Moléstias Infecciosas e Parasitárias, Faculdade de Medicina, University of São Paulo, Sao Paulo, Brazil

(ACMCIP Abstract)

5 p.m.

2058

INNATE AND ADAPTIVE IMMUNE RESPONSE PLAY DIFFERENT ROLES IN THE PATHOGENESIS OF CUTANEOUS LEISHMANIASIS

Augusto P. Carvalho¹, Luiz H. Guimarães², Iana Prates¹, Rúbia S. Costa¹, Fábio Peixoto¹, Maira Saldanha³, Lucas P. Carvalho¹, Sérgio Arruda³, Edgar M. Carvalho¹

¹Federal University of Bahia, Salvador, Brazil, ²Universidade Federal do Sul da Bahia, Teixeira de Freitas, Brazil, ³Instituto Gonçalo Moniz - Fiocruz, Salvador, Brazil

(ACMCIP Abstract)

5:15 p.m.

2059

INSULIN-LIKE GROWTH FACTOR-I AS EFFECTOR ELEMENT OF IL-4 EFFECT LEADING TO SUSCEPTIBILITY TO LEISHMANIA MAJOR INFECTION

Hiro Goto¹, Luiza C. Reis¹, Eduardo M. Ramos-Sanchez¹, Fabricio Petitto-Assis¹, Audun H. Nerland², Maria Hernandez-Valladares², Frode Selheim², Lucile M. Floeter-Winter¹

¹Universidade de São Paulo, São Paulo, Brazil, ²University of Bergen, Bergen, Norway

(ACMCIP Abstract)

5:30 p.m.

2060

INVOLVEMENT OF TH17 RESPONSES IN HUMAN VISCERAL LEISHMANIASIS

Om Prakash Singh¹, Nasim Ansari², Rajiv Kumar¹, Susanne Nysten³, Madhukar Rai¹, David Sacks², Shyam Sundar¹

¹Institute of Medical Sciences, Banaras Hindu University, Varanasi,

India, ²Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ³Karolinska Institutet, Department of Microbiology Tumor and Cell Biology, Stockholm, Sweden

(ACMCIP Abstract)

Scientific Session 153

Pneumonia, Respiratory Infections and Tuberculosis II

Marriott - La Galerie 4/5/6 (2nd Floor)

Wednesday, October 31, 4 p.m. - 5:45 p.m.

CHAIR

W. Abdullah Brooks

Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States

Fyezah Jehan

Aga Khan University, Karachi, Pakistan

4 p.m.

2061

BUBBLE CONTINUOUS POSITIVE AIRWAY PRESSURE FOR CHILDREN WITH SEVERE PNEUMONIA AND SEVERE MALNUTRITION, HUMAN IMMUNODEFICIENCY VIRUS INFECTION OR EXPOSURE, OR SEVERE HYPOXEMIA IN MALAWI: AN OPEN LABEL RANDOMIZED CONTROLLED TRIAL

Eric D. McCollum¹, Tisungane Mvalo², Andrew G. Smith³, Michelle Eckert⁴, Davie Kondowe⁵, Norman Lufesi⁶, Alfred Chalira⁶, Dhananjay Vaidya¹, Innocent Mofolo², Mina C. Hosseinipour²

¹Johns Hopkins School of Medicine, Baltimore, MD, United States,

²University of North Carolina-Chapel Hill, Chapel Hill, NC, United States,

³University of Utah School of Medicine, Salt Lake City, UT, United States,

⁴University of Cincinnati College of Medicine, Cincinnati, OH, United States,

⁵University of North Carolina Project, Lilongwe, Malawi, ⁶Malawi Ministry of Health, Lilongwe, Malawi

4:15 p.m.

2062

OUTCOME OF POST TRIAL IMPLEMENTATION OF BUBBLE CPAP IN TREATING CHILDHOOD SEVERE PNEUMONIA AND HYPOXEMIA IN BANGLADESH

Mohammad J. Chisti, KM Shahunja, Abu S. Shahid, Tahmeed Ahmed International Centre for Diarrhoeal Disease Research, Bangladesh (icddr), Dhaka, Bangladesh

4:30 p.m.

2063

RESULTS FROM A RECENTLY CONCLUDED COMMUNITY BASED RANDOMIZED NON-INFERIORITY TRIAL OF AMOXICILLIN VERSUS PLACEBO IN FAST BREATHING PNEUMONIA IN LOW INCOME COMMUNITIES IN PAKISTAN

Fyezah Jehan, Imran Nisar, Benazir Baloch, Salima Kerai, Najeeb-ur-Rahman, Arjumand Rizvi, Nick Brown, Anita K. Zaidi Aga Khan University, Karachi, Pakistan

4:45 p.m.

2064

PROGNOSTIC BIOMARKERS IN UGANDAN CHILDREN WITH RESPIRATORY SYNCYTIAL VIRUS RESPIRATORY TRACT INFECTION

Julia Sawatzky¹, Andrea L. Conroy², Sophie Namasopo³, Robert O. Opoka⁴, Michael T. Hawkes¹

¹University of Alberta, Edmonton, AB, Canada, ²Indiana University School of Medicine, Indianapolis, IN, United States, ³Jinja Regional Referral Hospital, Jinja, Uganda, ⁴Mulago Hospital and Makerere University, Kampala, Uganda

5 p.m.

2065

RISK OF TUBERCULOSIS IN HOSPITAL ENVIRONMENTS IN A COUNTRY WITH HIGH ENDEMICITY

Antonio M. Quispe¹, Alfredo Arróspide Medina², Mirtha Valladares Fernández², Cleopatra Huapaya Pizarro², Joshi Acosta Barriga¹

¹Instituto de Evaluación de Tecnologías de Salud e Investigación, EsSalud, Lima, Peru, ²Gerencia Central de Prestaciones de Salud, EsSalud, Lima, Peru

5:15 p.m.

2066

DIFFERENCES IN CLINICAL SEVERITY OF MONO AND MULTIPLE RESPIRATORY VIRAL INFECTIONS IN HOSPITALIZED CHILDREN IN NHA TRANG, VIETNAM

Benjamin M. Althouse¹, Stefan Flasche², Michiko Toizumi³, Hien-Anh Thi Nguyen⁴, Hien Minh Vo⁵, Minh Nhat Le⁴, Masahiro Hashizume³, Koya Ariyoshi³, Dang Duc-Anh⁴, Gail L. Rodgers⁶, Keith P. Klugman⁶, Hao Hu¹, Lay-Myint Yoshida³

¹Institute for Disease Modeling, Bellevue, WA, United States, ²London School of Hygiene & Tropical Medicine, London, United Kingdom, ³Nagasaki University, Nagasaki, Japan, ⁴National Institute of Hygiene and Epidemiology, Hanoi, Vietnam, ⁵Khanh Hoa General Hospital, Nha Trang, Vietnam, ⁶Bill & Melinda Gates Foundation, Seattle, WA, United States

5:30 p.m.

2067

LOWER RESPIRATORY INFECTIONS ARE THE LEADING INFECTIOUS CAUSE OF DEATH GLOBALLY: INCIDENCE, HOSPITALIZATIONS, AND MORTALITY IN THE GLOBAL BURDEN OF DISEASE STUDY 2017

Christopher Troeger, **Brigette Blacker**, Ibrahim Khalil, Stephanie R. Zimsen, Jonathan Brown, Nicholas Kassebaum, Simon I. Hay, Robert C. Reiner
Institute for Health Metrics and Evaluation, Seattle, WA, United States

Scientific Session 154

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Malaria - Genome Scale Approaches

Marriott - Mardi Gras D (3rd Floor)

Wednesday, October 31, 4 p.m. - 5:45 p.m.

Supported with funding from the Burroughs Wellcome Fund

CHAIR

Silvia Portugal
Heidelberg University Hospital, Heidelberg, Germany

David Serre
University of Maryland, Baltimore, MD, United States

4 p.m.

2123

INVITED SPEAKER FROM THE WOODS HOLE MOLECULAR PARASITOLOGY MEETING HELD IN SEPTEMBER 2018. SEE THE MEETING APP FOR SPEAKER INFORMATION.

4:15 p.m.

2124

INVITED SPEAKER FROM THE WOODS HOLE MOLECULAR PARASITOLOGY MEETING HELD IN SEPTEMBER 2018. SEE THE MEETING APP FOR SPEAKER INFORMATION.

4:30 p.m.

2068

DRY SEASON *P. FALCIPARUM* RESERVOIR

Carolina Andrade¹, Hannah Fleckenstein¹, Safiatou Doumbo², Julia Hibbert¹, Richard Thomson-Luque¹, Carrie Anderson¹, Nathalia F. Lima¹, Shanping Li³, Christine Hopp³, Didier Doumtabe², Nuno Osorio⁴, Dan Sturdevant⁵, Craig Martens⁶, Kassoum Kayentao², Ogobara K. Doumbo², Thomas Lavstsen⁶, Aissata Ongoiba², Boubacar Traore², Peter D. Crompton³, **Silvia Portugal**¹

¹Heidelberg University Hospital, Heidelberg, Germany, ²Mali International Center of Excellence in Research, Bamako, Mali, ³National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States, ⁴School of Health Sciences, University of Minho, Braga, Portugal, ⁵Rocky Mountain Laboratory Research Technologies Section, National Institutes of Health, Hamilton, MT, United States, ⁶University of Copenhagen, Copenhagen, Denmark

4:45 p.m.

2069

TRANSCRIPTOME PROFILING UNRAVELS NOVEL LIGANDS REQUIRED FOR *PLASMODIUM VIVAX* INFECTIONS IN SAIMIRI MONKEY - IMPLICATIONS ON *PLASMODIUM VIVAX* INFECTIONS IN AFRICA

Karthigayan Gunalan¹, Juliana M. Sa¹, Roberto R. de Moraes Barros¹, Kishore Kanakabandi², Sarah L. Anzick², Ramoncito L. Caleon¹, J. Patrick Mershon¹, Craig Martens², Thomas E. Wellems¹, Louis H. Miller¹

¹National Institutes of Health, Rockville, MD, United States, ²National Institutes of Health, Hamilton, MT, United States

(ACMCIP Abstract)

5 p.m.

2070

CHARACTERIZATION OF *PLASMODIUM VIVAX* GENE EXPRESSION DURING CLINICAL INFECTIONS AND UPON CHLOROQUINE TREATMENT

David Serre

University of Maryland, Baltimore, MD, United States

5:15 p.m.

2071

A SYSTEMS BIOLOGY APPROACH TO CHARACTERIZING *PLASMODIUM FALCIPARUM* RESPONSES TO HIGH PARASITE DENSITY

Evelyn S. Chou¹, Anna E. Sexton², Dovile Anderson², Kim-Anh Le Cao³, Darren J. Creek², Michael F. Duffy¹, Karen P. Day¹

¹Bio21 Institute for Molecular Science and Biotechnology and School of BioSciences, University of Melbourne, Parkville, VIC, Australia, ²Drug Delivery Disposition and Dynamics, Monash Institute of Pharmaceutical Sciences, Monash University, Parkville, VIC, Australia, ³School of Mathematics and Statistics, Melbourne Integrative Genomics, University of Melbourne, Parkville, VIC, Australia

(ACMCIP Abstract)

5:30 p.m.

2072

REFINED SUB-STRUCTURE OF *PLASMODIUM FALCIPARUM* POPULATIONS IN SUB-SAHARAN AFRICA AND THE IMPLICATIONS FOR THE EMERGENCE AND SPREAD OF ARTEMISININ RESISTANCE

Edwin Kamau¹, Alfred Amambua-Ngwa², Lucas Amenga-Etego³, Deus Ishengoma⁴, Ben Andagalu⁵, Abdoulaye A. Djimde⁶

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Medical Research Council, Gambia Unit, Banjul, Gambia, ³Navrongo Health Research Centre, Navrongo, Ghana, ⁴National Institute for Medical Research, Tanga, United Republic of Tanzania, ⁵KEMRI/United States Army Medical Research Unit-Kenya, Kisumu-Narobi, Kenya, ⁶Malaria Research and Training Centre, Bamako, Mali

Symposium 155

The Nexus of Poop and Public Health: Harnessing the Human Gut Microbiome for Global Health

Marriott - Mardi Gras EFGH (3rd Floor)

Wednesday, October 31, 4 p.m. - 5:45 p.m.

The human gut microbiome has emerged as a key driver for human health. Advances in our understanding of human host-microbiome interactions are shifting the paradigm of how we can manipulate the microbiome for human health. These insights have revolutionized our approach to *C. difficile* and continue to open avenues for diseases linked to the gut microbiome, including inflammatory bowel disease, multi-drug resistant organisms, metabolic syndrome and even mental health. This rapid growth in translational research has been driven by expanded access to genome sequencing technologies and innovative, cost-effective models to scale up methods that can manipulate the gut microbiome, such as fecal microbiota transplantation. There is a widening global disparity in gut microbiome research with the vast majority of work being conducted in North America and Europe. Given the importance of local environmental and host factors on the host-microbiome interaction, there is a growing need to highlight the ongoing work of researchers in low and middle-income countries (LMICs) and share cutting-edge methods and research findings. There is emerging evidence that perturbations in the gut microbiota are causally related to malnutrition, cholera susceptibility, typhoid carriage and environmental enteric dysfunction. Through presentations by experts in the field, this session will highlight the potential of translational microbiome research to accelerate the discovery and development of novel interventions for neglected tropical diseases and undernutrition.

CHAIR

Majdi Osman

OpenBiome, Harvard Medical School, Somerville, MA, United States

Donna Denno

University of Washington, Seattle, WA, United States

4 p.m.

CULTURING THE UNCULTURABLE: AN OVERVIEW OF NOVEL FUNCTIONAL AND THERAPEUTIC OPPORTUNITIES WITH THE HUMAN MICROBIOTA

Trevor Lawley

Wellcome Sanger Institute, Hinxton, United Kingdom

4:20 p.m.

THE POTENTIAL OF GUT MICROBIOME MANIPULATION IN MALNUTRITION AND ENVIRONMENTAL ENTERIC DYSFUNCTION

Shrish Budree

University of Cape Town, Cape Town, South Africa

4:40 p.m.

SUCCESSION AND SUSCEPTIBILITY: THE GUT MICROBIOME IN *VIBRIO CHOLERA*E INFECTION

Ana Weil

Massachusetts General Hospital, Boston, MA, United States

5 p.m.

CONFRONTING TYPHOID AND ANTIMICROBIAL RESISTANCE: GENOMICS, METAGENOMICS AND THE MICROBIOME

Sam Kariuki

Kenya Medical Research Institute, Nairobi, Kenya

Symposium 156

Cell-to-Cell Communications Underlying Malarial Life Cycle Transitions

Marriott - Balcony IJK (3rd Floor)

Wednesday, October 31, 4 p.m. - 5:45 p.m.

Human malaria parasites possess a complex life-cycle that cycles between mosquitoes and the human host. The parasites infect a diverse range of host tissues including the vector gut and salivary glands and the liver, blood, and bone marrow of the human host. The parasites must constantly sense host tissue environments and adjust their genetic and epigenetic programs to ensure survival. Host tissues are equipped with diverse surveillance and immune response mechanisms that strive to eliminate the parasite. Decoding and intercepting the large complex array of cell-to-cell communication pathways are important to combat malaria. In this symposium, speakers with expertise in different malaria-host models will discuss intercellular communications between *Plasmodium*-infected cells and the host. Topics include quorum sensing in malarial infections, the human bone marrow as a niche for parasite commitment to transmission, exploring human erythroid micro-vesicle release for parasite communication, studying human liver cells for parasite development, and the mosquito-parasite interaction. The session plans a global view of the bi-directional cell-to-cell communications between the parasites and hosts that are critical for the life cycle completion and disease pathogenesis.

CHAIR

Rays Jiang

University of South Florida, Tampa, FL, United States

Kami Kim

University of South Florida, Tampa, FL, United States

4 p.m.

DENSITY SENSING IN *PLASMODIUM FALCIPARUM*

Karen Day

Bio21 Institute and School of BioSciences, University of Melbourne, Melbourne, Australia

4:25 p.m.

REGULATION OF PATHOGEN-HOST INTERACTIONS BY EXTRACELLULAR VESICLES DURING MALARIA

Pierre-Yves Mantel

Université de Fribourg, Fribourg, Switzerland

4:50 p.m.

MALARIAL DEVELOPMENT AND SEXUAL COMMITMENT IN THE HUMAN LIVER

Rays Jiang

University of South Florida, Tampa, United States

5:15 p.m.

PLASMODIUM INTERACTION AND EVASION OF MOSQUITO INNATE IMMUNITY

Carolina Barillas-Mury

National Institutes of Health, Rockville, MD, United States

Symposium 157

Advancing a Spatial Repellent Category for Public Health Use: New Insights, Considerations and Remaining Challenges

Marriott - Balcony LMN (3rd Floor)

Wednesday, October 31, 4 p.m. - 5:45 p.m.

Mosquito control is a critical component to malaria and *Aedes*-borne disease prevention. Although gains have been made using existing strategies, new vector control delivery systems and/or products are warranted. Spatial repellents, products that release volatile chemicals into a treated space, can repel mosquito movement into a home and/or cause host-seeking inhibition, among other mosquito behaviors. As the mode of action of spatial repellents differ from a residual insecticide spray, in that spatial repellents elicit mosquito responses from chemicals in a vapor phase whereas a residual insecticide spray requires mosquitoes to rest on a chemical treated surface, spatial repellent products are applicable in disease endemic settings with varied housing structures and vector resting behaviors. Spatial repellents have demonstrated proof-of-concept in reducing malaria infection in clinical trials through mechanisms of reduced human-vector contact and recent laboratory studies are furthering insight into the complex array of post-exposure effects of spatial repellents that impact on vector life-traits linked to pathogen transmission and survival. Evidence is gapped, however, in quantifying the effectiveness of spatial repellents under operational use, identifying optimal delivery mechanisms for implementation at scale and the sustainability of the product category in the public health market. These knowledge gaps must be addressed to inform WHO policy recommendation, have national disease control programs adopt the policy and further incentivize innovative spatial repellent R&D. This symposium will provide a brief overview of current evidence criteria and assessment processes for endorsing novel vector control strategies for public health, describe recent evidence of spatial repellent value from laboratory and field studies, and highlight challenges and opportunities towards advancing a spatial repellent product category for public health use recommendation. A panel discussion will follow speaker presentations.

CHAIR

Nicole L. Achee

University of Notre Dame, Notre Dame, IN, United States

John P. Grieco

University of Notre Dame, Notre Dame, IN, United States

4 p.m.

POST-EXPOSURE EFFECTS OF SPATIAL REPELLENTS: LABORATORY EVALUATIONS

John P. Grieco

University of Notre Dame, Notre Dame, IN, United States

4:15 p.m.

ASSESSMENT OF SPATIAL REPELLENTS: CRITERIA AND CONSIDERATIONS

Thomas Scott

University of California Davis, Davis, CA, United States

4:30 p.m.

PROTECTIVE EFFICACY OF A SPATIAL REPELLENT AGAINST MALARIA INFECTIONS IN CHILDREN: RECENT EVIDENCE FROM A CLINICAL TRIAL IN INDONESIA

Din Syafruddin

Eijkman Institute for Molecular Biology, Jakarta, Indonesia

4:45 p.m.

INITIAL PERCEPTIONS OF EFFICACY AND ACCEPTABILITY OF A SPATIAL REPELLENT AGAINST ARBOVIRUS INFECTIONS: RECENT EVIDENCE FROM AN ONGOING CLINICAL TRIAL IN PERU

Amy Morrison

University of California, Davis, CA, United States

5 p.m.

OPERATIONAL IMPLEMENTATION OF SPATIAL REPELLENT PRODUCTS FOR PUBLIC HEALTH: CHALLENGES AND OPPORTUNITIES

Suzanne Van Hulle

Catholic Relief Services, Baltimore, MD, United States

Special Session 158

Moving back Home: Strategies for Returning Back to LMICs after Training Abroad

Sheraton - Bayside A (4th Floor)

Wednesday, October 31, 4 p.m. - 5 p.m.

An informal networking and strategy meeting tailored towards students and early career professionals working in medicine, research and other scientific endeavors. This session will discuss the particular needs of those from low- and middle-income countries who have trained abroad in technologically-advanced countries and want to plan for a move back to their home countries. Ideally suited to participants from sub-Saharan and North Africa, Latin America and relevant Asian countries. Effective strategies for planning a return trip home will be discussed. Participants are expected to help move the discussion along as this is an opportunity to share and learn from one another.

CHAIR

Abiola Fasina

U.S. Military HIV Research Program, Bethesda, MD, United States

Ayman Ahmed

University of Khartoum, Institute of Endemic Diseases, Khartoum, Sudan

Johanna P. Daily

Albert Einstein College of Medicine, Bronx, NY, United States

Linnie Golightly

Weill Cornell Medical College, New York, NY, United States

Plenary Session 159

Plenary Session IV: President's Address

Sheraton - Grand Ballroom C (5th Floor)

Wednesday, October 31, 6:15 p.m. - 7 p.m.

6:15 p.m.

INTRODUCTION

Richard Steketee

U.S. President's Malaria Initiative, Washington, DC, United States

6:30 p.m.

PRESIDENT'S ADDRESS:

THE 13TH GRAPE



N. Regina Rabinovich, MD

ExxonMobil Malaria Scholar in Residence
Harvard T.H. Chan School of Public Health
Director, Malaria Elimination Initiative
ISGLOBAL, University of Barcelona

Regina Rabinovich is the ExxonMobil Malaria Scholar in Residence at Harvard University, and Director of the Malaria Elimination Initiative at ISGLOBAL at the University of Barcelona. She serves as the Chair of the Malaria Eradication Scientific Alliance, hosted at ISGLOBAL, and led the steering committee for the MalERA Refresh. She has over 25 years of experience in global health across research, public health, and philanthropic sectors, with focus on strategy, global health product development, and the introduction and scale-up of tools and strategies resulting in impact on endemic populations. Prior to joining Harvard, Dr. Rabinovich served as Director of the Infectious Diseases division at the Bill & Melinda Gates Foundation, overseeing the development and implementation of strategies for the prevention, treatment, and control of infectious diseases of particular relevance to malaria, pneumonia, diarrhea, and neglected infectious diseases. Dr. Rabinovich was Chief of the Clinical and Regulatory Affairs Branch at the US National Institute of Allergy and Infectious Diseases (NIAID), focusing on the development and evaluation of vaccines through a network of US clinical research units. She participated in the Children's Vaccine Initiative, a global effort to prevent infectious diseases in children in the developing world. In 1999, Dr. Rabinovich became the founding director of the PATH Malaria Vaccine Initiative, a project funded by the Bill & Melinda Gates Foundation to advance efforts to develop promising malaria vaccine candidates. She is currently president of the American Society of Tropical Medicine and Hygiene and serves on the boards of CMMB, and AERAS, a non-profit biotech focused on development of vaccines for tuberculosis, and the Sabin Vaccine Institute. Dr. Rabinovich holds a medical degree from Southern Illinois University and a Masters of Public Health degree from the University of North Carolina.

Thursday, November 1

Registration

Marriott - Preservation Hall (2nd Floor)

Thursday, November 1, 7 a.m. - 10:30 a.m.

Speaker Ready Room

Sheraton - Maurepas (3rd Floor)

Marriott - Mardi Gras ABC (3rd Floor)

Thursday, November 1, 7 a.m. - 10:30 a.m.

Meeting Sign-Up Room

Sheraton - Mid-City and Muses (8th Floor)

Thursday, November 1, 7 a.m. - Noon

ASTMH Council Meeting

Sheraton - Oak Alley (4th Floor)

Thursday, November 1, 7:30 a.m. - 9:30 a.m.

Symposium 160

Redefining Control for Schistosomiasis: Identifying New Targets for Morbidity Control

Sheraton - Rodrigue Gallery (1st Floor)

Thursday, November 1, 8 a.m. - 9:45 a.m.

Schistosomiasis is both an acute and a chronic, water-borne, parasitic disease caused by any of the five species of *Schistosoma* parasite flukes that affect humans, the most common being *S. haematobium* and *S. mansoni*. Adult worms reside in the small veins draining either the bladder (*S. haematobium*) or the intestine (*S. mansoni* and other Schistosome species) where they produce eggs that are either passed into the environment, through urine or feces, or are deposited into various organs (liver, kidney, bladder and lungs) causing inflammation and much of the associated disease morbidity – the greater the intensity of the eggs, the greater the risk of morbidity. For more than 30 years, the stated goal of the WHO strategy for addressing schistosomiasis has been to control morbidity among infected populations. Based principally on preventive chemotherapy using the drug praziquantel, the strategy focuses on mass treatment of children and, in some cases, “high-risk” adults. Founded on studies conducted during the 1970s and 1980s, the strategy relies on identifying the prevalence of infection (the presence of eggs in stool or urine) among school-aged children as a proxy indicator for intensity of infection and, subsequently, risk of morbidity. This association, however, does not apply in all locations. Praziquantel effectively kills the adult worms, but re-infection occurs quickly and often and repeated treatment is required. More recent evidence suggests that the negative effects of schistosomiasis are more widespread than previously understood, affecting both adults and pre-school aged children, causing differential morbidities depending on the species, and potentially causing illness in infected, but egg-negative

individuals. This symposium will look at the origins of the current approach to schistosomiasis morbidity control and new evidence for schistosome-related morbidity and its implications for global strategies for prevention. It will discuss the challenges of measuring morbidity and the limitations of current control program guidance.

CHAIR

Darin S. Evans
United States Agency for International Development, Washington, DC, United States

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

8 a.m.

WHAT GETS MISSED: SHIFTING THE PARADIGMS

Amaya Bustinduy
London School of Hygiene & Tropical Medicine, London, United Kingdom

8:20 a.m.

CHALLENGES IN ASSESSING MORBIDITY IN PROGRAMS: COUNTRY EXPERIENCE

Edridah Muheki
Uganda Ministry of Health, Kampala, Uganda

8:40 a.m.

SCHISTO LIMBO: HOW LOW CAN WE GO?

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

9 a.m.

GETTING OUT OF LIMBO: DEFINING TARGETS FOR MORBIDITY CONTROL

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

Symposium 161

Quality in Clinical Parasite Diagnostics- How Good Is It Really?

Sheraton - Waterbury (2nd Floor)

Thursday, November 1, 8 a.m. - 9:45 a.m.

The need for robust, reproducible and reliable diagnostic techniques in the field of parasitology remains pertinent. Rapid Diagnostic Tests (RDTs) and Molecular techniques now permit accurate species diagnosis in a clinically useful timeframe. However, the sensitivity of RDTs can be too limited for efficient detection of low-density parasitaemia or sub-microscopic infections. Similarly, molecular assays provide better diagnostic performance; however, in low transmission settings, they are prone to reproducibility issues. Alongside, there is an increasing need for quality management and proficiency testing of these emerging methodologies to ensure enhanced performance of diagnostics labs. This symposium panel is comprised of expert parasitologists with added unique know-how in the field of molecular biology and RDTs. Additionally, speakers on the panel run or manage quality assurance schemes for parasitology either in endemic or non-endemic settings. This session will discuss and present emerging trends in the field of parasitology

and the associated quality assurance, especially with respect to learnings, shortfalls and emerging strengths of diagnostic labs. The first presenter will discuss factors that determine the sensitivity and specificity of RDTs, with emphasis on various innovations, which have pushed the limits of detection to low picogram levels. Following will be a discussion of how PCR-level detection of parasites in a familiar, easily manufacturable, and low cost field-applicable format is becoming possible. The second speaker will address government regulations in the United States regarding quality improvement/assurance/control programs, with focus on proficiency testing for periodic quality assessment. The presentation will include the different methods used for clinical parasite diagnostics in the U.S. while highlighting some of the areas where labs do well or have challenges. The next presenter will discuss External Quality Assessment (EQA) of Parasite diagnostics within India, as well as penetration of International EQA programs within India and their impact on enhancing quality of diagnosis within India. The next speaker will discuss findings from molecular EQA scheme of fecal parasites in the Netherlands; with emphasis on learning points for participants, followed by a discussion on how clinical diagnostics labs can perform in-house medical diagnostics while remaining compliant with ISO15189. The final speaker will discuss development of new molecular and RDT schemes to EQA emerging technologies, and present findings from existing Molecular and RDT EQAs which have helped identify challenges and learning point critical for clinical labs within non-endemic settings.

CHAIR

Jaya Shrivastava
Public Health England, London, United Kingdom

Peter L. Chiodini
University College London Hospitals, London, United Kingdom

8 a.m.

NEW RAPID DIAGNOSTIC TESTS TO SUPPORT MALARIA ELIMINATION

Bernhard H. Weigl
Intellectual Ventures/Global Good, Seattle, WA, United States

8:15 a.m.

PARASITE DIAGNOSTICS IN THE USA: HOW GOOD ARE THEY?

Bobbi Pritt
Mayo Clinic, Rochester, MN, United States

8:30 a.m.

QUALITY CONTROL FOR DIAGNOSIS OF PARASITIC INFECTIONS IN INDIA

Sitara S. Ajjampur
Christian Medical College, Vellore, India

8:45 a.m.

QUALITY OF DIAGNOSIS OF INTESTINAL PARASITIC INFECTIONS IN A CLINICAL LABORATORY USING MOLECULAR ASSAYS

Jaco J. Verweij
Elisabeth Tweesteden Hospital, Tilburg, Netherlands

9 a.m.

QUALITY OF MALARIA DIAGNOSTICS IN NON-ENDEMIC CLINICAL SETTINGS

Jaya Shrivastava

Public Health England, London, United Kingdom

Symposium 162

The Impact of Improving Laboratory Services on Public Health

Sheraton - Rhythms (2nd Floor)

Thursday, November 1, 8 a.m. - 9:45 a.m.

The effect of having substandard laboratory resources is often overlooked as a major contributor of global morbidity and mortality throughout the world. This is partly due to the lack of data collected on the impact that either missing laboratory capability or poor laboratory results adds to the errors made by physicians, infection preventionists, and public health policy makers. When laboratories are under-resourced or have poor quality, basic functions in providing patient care, providing disease surveillance, or supporting research are severely compromised. Errors in laboratory process can have catastrophic consequences when caring for patients and the unavailability of laboratory tests can hinder or delay effective treatment for those that are sick. Poor record-keeping or poor quality control within institutions can not only hide systemic problems, but make it difficult to develop budgets, manage resources, or detect ongoing problems or trends within all aspects of the laboratory process. Low-income countries that lack robust laboratory systems are also at a distinct disadvantage in developing effective disease surveillance systems and responding to either epidemics or ongoing chronic diseases such as HIV or tuberculosis. Research is also affected, with researchers hindered by poor data quality and inadequate infrastructure to provide more reliable or advanced testing. Over the last decade the World Health Organization and U.S. Centers for Disease Control and Prevention, along with many other institutions, have made a concerted effort to improve laboratory services and capability to better treat diseases such as HIV/AIDS and to meet 2005 International Health Regulations that would strengthen global biosecurity and better prepare for disease pandemics. This symposium will address this issue in a series of lectures which describe the current progress in improving the capability and quality of laboratories in resource-limited settings and highlight the progress made in particular by the Strengthening Laboratory Management Toward Accreditation (SLMTA) program within Africa, Southeast Asia, and Latin America.

CHAIR

Drake H. Tilley

Naval Medical Center San Diego, San Diego, CA, United States

Silvia M. Montano

Naval Medical Research Unit No. 6, Callo, Peru

8 a.m.

THE SCOPE AND GLOBAL IMPACT OF POOR LABORATORY SERVICES: A CALL TO ACTION!

Drake H. Tilley

Naval Medical Center San Diego, San Diego, CA, United States

8:20 a.m.

HOW TO CHANGE THE CULTURE FOR SUSTAINABLE CHANGE: THE SLMTA EXPERIENCE

Katy Yao

U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States

8:40 a.m.

IMPROVING THE QUALITY OF LABORATORY SERVICES IN LATIN AMERICA: HOW TO MAKE IT A PRIORITY!

Sandra I. Juarez Garrido

Centers for Disease Control and Prevention Central America Region (CDC-CAR), Guatemala City, Guatemala

9 a.m.

IMPROVING THE QUALITY OF LABORATORY SERVICES IN VIETNAM: CHANGE MADE SUSTAINABLE!

Bui T. Hien

U.S. CDC Vietnam Office, Hanoi, Vietnam

Symposium 163

Can We Make Rabies History? One Health Approaches to Controlling a Neglected and Preventable Killer

Sheraton - Grand Ballroom A/B (5th Floor)

Thursday, November 1, 8 a.m. - 9:45 a.m.

Rabies is one of the most important One Health topics, yet one of the most neglected. The belief that rabies is a bygone disease is incorrect: tens of thousands of people still die from rabies every year, ranking it second amongst the neglected tropical diseases. The disease is 100% preventable as there are effective human and animal vaccines, but many hurdles remain in implementing effective programs. Human vaccine access is inadequate and large-scale canine vaccination challenging in many low-income countries across Asia, Africa and Latin America. Post-exposure prophylaxis (PEP) is considered cost-effective for preventing human rabies deaths. GAVI did not adopt PEP in their 2008 and 2013 vaccine investment strategies due to uncertainties regarding the burden of rabies, the effectiveness of PEP and feasibility of implementing improved access to PEP. Mass pre-exposure prophylaxis (PrEP) remains an option, but faces some similar challenges and is less cost-effective. In most settings, dogs are the major source of human infection. Several studies have demonstrated the feasibility and cost-effectiveness of rabies control by dog vaccination. The WHO and others are supporting its expansion, although there are challenges in reaching sufficient coverage at scale and sustaining programs. Most progress has been made towards the regional elimination of dog-mediated rabies in Latin America, however rabies spread by vampire bats remains particularly problematic in this region and requires innovative solutions. The session will look at current and future interventions for most

effectively targeting rabies and feature a panel including some of the world's leading rabies researchers, drawn from high, middle and low-income settings across three continents, and from veterinary, epidemiological, medical and laboratory backgrounds. They will present a diverse, practical and evidence-based series of approaches with the potential to reduce the burden of human and animal rabies across a wide range of settings: areas facing dog-vectoring rabies; areas facing bat-vectoring rabies; and areas with the weakest human and animal health infrastructure. Together, the presentations will provide an optimistic view of how integrated One Health approaches could rid the world of this lethal but wholly preventable disease.

CHAIR

Alexander D. Douglas
University of Oxford, Oxford, United Kingdom

Sarah Cleaveland
University of Glasgow, Glasgow, United Kingdom

8 a.m.

WHAT WILL IT TAKE TO ELIMINATE RABIES IN AFRICA? LESSONS FROM EAST AFRICA

Thumbi Mwangi
Kenya Medical Research Institute, Kenya; and Paul G. Allen School for Global Animal Health, Washington State University, Kisumu, Kenya

8:20 a.m.

MODELING THE POTENTIAL IMPACT OF SCALING UP USE OF HUMAN AND DOG VACCINES TO PREVENT DEATHS FROM DOG-MEDIATED RABIES

Katie Hampson
University of Glasgow, Glasgow, United Kingdom

8:40 a.m.

MASSIVE RABIES PRE-EXPOSURE PROPHYLAXIS: NEW PARADIGM THAT SAVE LIVES WHEN EVERYTHING ELSE FAILS

Sergio Recuenco-Cabrera
Universidad Nacional Mayor de San Marcos, Lima, Peru

9 a.m.

NEW TECHNOLOGIES, INCLUDING AFFORDABLE, THERMOSTABLE SINGLE-DOSE PRE-EXPOSURE PROPHYLAXIS

Alexander D. Douglas
University of Oxford, Oxford, United Kingdom

Symposium 164

Japanese Encephalitis, No Longer Neglected: A Model for Other New Vaccines

Sheraton - Grand Ballroom D/E (5th Floor)
Thursday, November 1, 8 a.m. - 9:45 a.m.

Over the past decade, there has been tremendous progress in the fight against Japanese encephalitis (JE), from advancing the availability of a safe, effective vaccines to scaling up JE surveillance and vaccination programs in endemic countries. This is a unique opportunity from which to learn. The speakers will discuss lessons learned from more than fifteen years of continuous JE vaccine

work, including identifying a vaccine candidate, vaccine production scale-up, optimizing JE vaccine use within a crowded EPI vaccination schedule, and risk-based introduction in multiple countries. This symposium is timely, as major sources of funding for JE vaccine will end in 2019, Gavi-eligible countries graduate, new JE data becomes available, and new vaccines (e.g., HPV, typhoid conjugate vaccine) are introduced. New challenges to JE vaccine sustainability are on the horizon. These will help anticipate challenges to other vaccines. The first speaker will provide a historical overview of the JE vaccine journey, from identifying a viable vaccine candidate in China to achieving WHO PQ through introductions and sustainability. No single organization was responsible for the success – strategic partnerships were key to protecting hundreds of millions of children throughout Asia. The next speaker will discuss a beginning-to-end experience for vaccine introduction at the country level, including surveillance, choosing an introduction strategy, vaccine cost-effectiveness, immunogenicity, introduction strategy, determining target populations, advocating for vaccines, costing analyses, affordability and sustainability, and monitoring vaccine effectiveness and impact. The third presenter will provide an overview of the emerging issues and challenges for JE vaccine sustainability, including expanding endemicity, changes in vaccine effectiveness, adult vaccinations, the potential of risk-based introduction, supply sustainability and more. The final presenter will tie the presentations together and highlight how the JE vaccine experience serves as a model for other vaccines not generally seen as “routine” immunizations, but essential in preventing diseases such as dengue, typhoid and yellow fever.

CHAIR

Anthony A. Marfin
PATH, Seattle, WA, United States

Julie Jacobson
Uniting to Combat NTDs, Seattle, WA, United States

8 a.m.

FROM IDENTIFYING A VACCINE TO SCALING UP: THE CRITICAL ROLE OF PARTNERS

Kathy Neuzil
Center for Vaccine Development, University of Maryland, Baltimore, MD, United States

8:20 a.m.

PROGRESS OF VACCINE INTRODUCTION AND COUNTRY DEMAND

Nihal Abeysinghe
Institute for Research & Development in Health and Social Care, Battaramulla, Sri Lanka

8:40 a.m.

CONTINUING MOMENTUM AND ADDRESSING EMERGING ISSUES

Susan Hills
Centers for Disease Control and Prevention, Fort Collins, CO, United States

9 a.m.

APPLYING BEST PRACTICES AND LESSONS LEARNED FOR NEW VACCINE INTRODUCTIONS

Anthony A. Marfin

PATH, Seattle, WA, United States

Symposium 165

Neglected Tropical Diseases Prevalence Survey Methodologies Used in Refugee Camps: Experiences from Three Countries

Marriott - La Galerie 1/2 (2nd Floor)

Thursday, November 1, 8 a.m. - 9:45 a.m.

South Sudan is endemic for several Neglected Tropical Diseases (NTD) and has witnessed mass displacement of its population since becoming the world's newest country in 2011. Violent conflict, man-made famine and drought have caused displacement of nearly four million South Sudanese, with nearly two million of these as refugees in neighboring Ethiopia, Kenya, Sudan and Uganda. The symposium will focus on three different country experiences in tackling NTD prevalence data collection and provision of services in refugee camps – experiences that can be applied to other disease and refugee contexts. Sudan: In November 2017, a trachoma baseline prevalence survey was conducted in eight refugee camps in White Nile state, Sudan. Multi-level sampling was used in both camps, with sample size dependent on camp population size. In one district with six camps, 18 blocks of 35 households were randomly selected. In another district with two camps, six blocks of 105 households were visited. Both districts' camps showed a greater than 10% prevalence of trichomatous inflammation-follicular (TF) in children 1-9 years and greater than 1% prevalence of trichiasis in those 15 years and above. The Sudan national program plans to conduct drug distribution and surgical campaigns in 2018 in the camps. Ethiopia: In October 2016, the Federal Ministry of Health conducted coordinated baseline surveys of five NTDs in 10 refugee camps. All camps were combined into one enumeration unit with camp "blocks" serving as clusters, targeting 21 clusters of 30 households. In each household, all persons above 1 year of age were screened for trachoma, children aged 5-14 were screened for STH/SCH, and children 9-14 were screened for lymphatic filariasis. Final results showed: trachoma 30.07%, STH 8.72%, SCH 3.87% while OV/LF blood samples are still pending. Mass drug administration has begun in some of the camps based on the mapping results and trachoma impact surveys in two of the camps will be conducted in February 2018. Uganda: In December 2017, the national program conducted trachoma rapid assessments in 27 refugee settlements spread across six districts to determine if population based prevalence surveys (PBPS) were required. In each camp, spot checks for TF and trichiasis were conducted in two camp blocks whereby at least 50 children aged 1-9 years and 50 adults aged 15 years and above were examined at a central site. A total of 3,030 children and 2,980 adults were examined.

In eight refugee settlements, assessment teams found a significant proportion of children with greater than 5% TF and adults with =1% trichiasis. Based on these rapid assessment results, PBPS surveys were conducted in six districts in April/May 2018.

CHAIR

Angelia M. Sanders

University of South Florida, Decatur, GA, United States

Lisa Rotondo

RTI International, Washington DC, United States

8 a.m.

NTDS AND REFUGEES: HOW THE TWO OVERLAP AND ITS POTENTIAL IMPACT ON PROGRAMS

Angelia M. Sanders

University of South Florida, Tampa, FL, United States

8:15 a.m.

CONDUCTING BASELINE SURVEYS IN TWO SOUTH SUDAN REFUGEE CAMPS IN SUDAN: LESSONS FROM THE FIELD

Zeinab Abdalla Admed

The Carter Center, Khartoum, Sudan

8:35 a.m.

COORDINATED MAPPING FOR 5 NTDS IN THE REFUGEE CAMPS OF ETHIOPIA

Scott McPherson

RTI International, Durham, NC, United States

8:55 a.m.

UGANDA'S EXPERIENCE CONDUCTING RAPID ASSESSMENT SURVEYS IN REFUGEE SETTLEMENTS

Gilbert Baayenda

Uganda Ministry of Health, Kampala, Uganda

Symposium 166

Combating Fungal Co-Infections in Advanced HIV Care: What We Need to Know to Be Ready

Marriott - La Galerie 3 (2nd Floor)

Thursday, November 1, 8 a.m. - 9:45 a.m.

Persons living with HIV/AIDS are at high risk of developing multiple opportunistic infections including fungal infections. Clinical signs and symptoms of these infections are often non-specific and thereby difficult to assign an accurate diagnosis. Although recent technological advances have improved diagnostic accuracy of AIDS-related fungal diseases, these technologies are not available in many regions around the world. In addition, these diseases are neglected in HIV programs worldwide, resulting in inadequate health systems planning and missed opportunities to save lives. This clinical session seeks to inform HIV providers, researchers and policymakers of the current state of AIDS-related mycoses. Focus areas are the role of education, networking, and access to accurate laboratory tests used to promptly confirm correct diagnoses and provide appropriate therapies. The session will include an educational and interactive demonstration of current/new point-of-care assays for HIV-related co-infections.

CHAIR

Antoine Adenis
Inserm, Cayenne, French Guiana

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

8 a.m.

MAPPING THE RISK OF HIV-ASSOCIATED HISTOPLASMOSES: THE ESTIMATED BURDEN OF THIS FUNGAL DISEASE IN THE AMERICAS

Mathieu Nacher
Inserm, Cayenne, French Guiana

8:20 a.m.

DIAGNOSING OPPORTUNISTIC INFECTIONS IN PEOPLE LIVING WITH HIV IN LOW AND MIDDLE-INCOME COUNTRIES: CHALLENGES AND OPPORTUNITIES IN GUATEMALA

Blanca Samayoa
Asociación de Salud Integral, Guatemala, Guatemala

8:40 a.m.

WHAT IS KILLING PEOPLE WITH AIDS IN 2018? COINFECTIONS CONTINUE TO REMAIN UNDIAGNOSED KILLERS: MINIMALLY INVASIVE AUTOPSY, RESULTS FROM MOZAMBIQUE

Emily Letang
ISGlobal, Barcelona Institute for Global Health, Barcelona, Spain

9 a.m.

TECHNOLOGY TRANSFERS OF RAPID DIAGNOSTIC TESTS (RDTs) TO DIAGNOSE FUNGAL OPPORTUNISTIC INFECTIONS: INCREASING DETECTION AND DECREASING COMPLICATIONS/MORTALITY (INTERACTIVE DEMONSTRATION OF POINT-OF-CARE DIAGNOSTIC TESTS)

Diego Hernando Caceres Contreras
Centers for Disease Control and Prevention, Atlanta, GA, United States

Symposium 167

Short Course Primaquine Regimen for the Radical Cure of *Plasmodium vivax*

Marriott - La Galerie 4/5/6 (2nd Floor)
Thursday, November 1, 8 a.m. - 9:45 a.m.

Vivax malaria is more difficult to cure than *P. falciparum*, due to its ability to relapse from dormant liver stage (hypnozoites). Delivery of safe and effective radical cure of *P. vivax* remains one of the greatest challenges for the control and ultimate elimination of this parasite. Primaquine is the only currently available hypnozoiticide, but can cause severe drug-induced haemolysis in vulnerable individuals. The efficacy of primaquine radical cure is dependent upon the total dose administered, whereas its tolerability depends upon the daily dose administered and the activity of glucose-6-phosphate dehydrogenase (G6PD) of the individual exposed. The use of primaquine has changed little since it was first introduced over the last 60 years ago. Most countries recommend a 14-day regimen to improve tolerability, but prolonged treatment course is associated with poor adherence and effectiveness. Reducing treatment duration

to 7 days has potential to improve adherence, but to date no clinical trial has compared the 7-day regimen with the standard 14-day regimen, comprehensively. This symposium will explore recent evidence comparing the safety, efficacy and cost-effectiveness of two radical cure regimens: a daily dose of 1mg/kg/day primaquine for 7 days with a daily dose of 0.5mg/kg/day for 14 days. Two complementary randomized controlled trials of patients with *P. vivax* malaria will be presented: one undertaken on the Thai-Myanmar border and the other a multicentred study. In Thailand, patients were randomized to chloroquine or DHA-piperazine with either a 7 or 14-day regimen of primaquine. In the IMPROV study, 2,388 patients were enrolled at nine field sites (in Indonesia, Afghanistan, Vietnam and Ethiopia) and randomized to standard schizontocidal treatment plus either 7 days primaquine, 14 days primaquine or placebo. Both studies followed patients through repeated episodes of malaria for 12 months. The symposium will start with an overview of the challenges of delivering the current 14-day primaquine and how these effect effectiveness and safety in endemic countries. The symposium will include the results of the clinical trials, as well as a presentation of a cost-effective analysis. All presentations will include as yet unpublished data, leaving sufficient time for a dynamic discussion on the public health relevance and significance of the findings.

CHAIR

Ric Price
University of Oxford, Oxford, United Kingdom
Kevin Baird
Eijkman Oxford Clinical Research Unit, Jakarta, Indonesia

8 a.m.

THE CHALLENGES OF DELIVERING SAFE AND EFFECTIVE RADICAL CURE OF *P. VIVAX*

Ayodhia Pasaribu
Universitas Sumatera Utara, Medan, Indonesia

8:20 a.m.

CHLOROQUINE OR DIHYDROARTEMISININ AND 7 DAYS VERSUS 14 DAY PRIMAQUINE IN *PLASMODIUM VIVAX* MALARIA IN NORTHWESTERN THAILAND

Cindy Chu
Shoklo Malaria Research Unit, Mae Sod, Thailand

8:40 a.m.

IMPROVING THE RADICAL CURE OF *P. VIVAX* – THE EFFICACY RESULTS OF THE IMPROV STUDY

Robert Taylor
Mahidol Oxford University Wellcome Trust Tropical Medicine Research Unit (MORU), Bangkok, Thailand

8:55 a.m.

THE SAFETY AND TOLERABILITY OF LOW AND HIGH DOSE PRIMAQUINE

Kamala Thriemer
Menzies School of Health Research, Darwin, Australia

9:10 a.m.
THE COST EFFECTIVENESS OF *P. VIVAX* RADICAL CURE – THE GLOBAL PERSPECTIVE

Angela Devine
University of Melbourne, Melbourne, Australia

Symposium 168

Why is Malaria Transmission Persisting in Some Contexts Despite High Coverage of Vector Control Tools, Such as LLINs and IRS? Results from Recent Studies across Three WHO Regions

Marriott - Mardi Gras D (3rd Floor)
Thursday, November 1, 8 a.m. - 9:45 a.m.

Vector control interventions, namely long-lasting insecticide-treated nets and indoor residual spraying, have contributed to significant reductions in malaria cases and deaths worldwide. While the malaria field has experienced consistent progress, for the first time in years, these gains have leveled off. Evidence is urgently needed to better understand the fundamental limits of core interventions and to guide the prioritization of interventions to target transmission that persists in the context of high vector control coverage. This session will bring together a diverse panel of speakers to present results from recent studies in Africa, the Americas, and Western Pacific Regions. The presentations will highlight key issues contributing to ongoing malaria transmission including residual malaria transmission, insecticide resistance, and implementation quality. Vector metrics such as biting and feeding behavior, transmission dynamics, and species composition, as well as human factors such as nighttime activities, sleeping patterns, migration, use of prevention measures, and the human infection reservoir will be discussed. The session will also feature innovative methods used for measuring and characterizing transmission drivers. Finally, this session will describe the latest toolbox of vector control technologies and interventions available now and in the pipeline. This will include findings from transmission modeling on optimizing combination vector control across diverse eco-epidemiological settings.

CHAIR

April Monroe
Johns Hopkins University, Baltimore, MD, United States

Florence Fouque
WHO Special Program for Research and Training on Tropical Diseases, Geneva, Switzerland

8 a.m.
INVESTIGATING THE MAGNITUDE AND DRIVERS OF RESIDUAL MALARIA TRANSMISSION IN ZANZIBAR

Abdullah Ali
Zanzibar Malaria Elimination Program, Zanzibar, United Republic of Tanzania

8:15 a.m.
UNDERSTANDING HUMAN, PARASITE, VECTOR AND ENVIRONMENTAL DRIVERS OF RESIDUAL MALARIA TRANSMISSION IN PAPUA NEW GUINEA

Daniela Rodriguez-Rodriguez
Swiss Tropical and Public Health Institute (SwissTPH)/Papua New Guinea Institute of Medical Research (PNGIMR), Basel, Switzerland

8:30 a.m.
CHARACTERIZING RESIDUAL MALARIA TRANSMISSION IN THE PERUVIAN AMAZON

Marta Moreno
University of California San Diego School of Medicine, La Jolla, CA, United States

8:45 a.m.
RESIDUAL MALARIA TRANSMISSION DYNAMICS VARIES ACROSS THE GREATER MEKONG SUBREGION DESPITE HIGH COVERAGE OF LONG-LASTING INSECTICIDAL BEDNETS

Jeffrey Hii
Malaria Consortium, Bangkok, Thailand

9 a.m.
AN EXPANDED VECTOR CONTROL TOOLBOX TO REDUCE RESIDUAL TRANSMISSION TOWARD MALARIA ELIMINATION

Allison Tatarsky
University of California San Francisco Global Health Group Malaria Elimination Initiative, San Francisco, CA, United States

Symposium 169

Controlled Human Infection Studies: Experiences and Opportunities from LMICs

Marriott - Mardi Gras EFGH (3rd Floor)
Thursday, November 1, 8 a.m. - 9:45 a.m.

This symposium focuses on the conduct of Controlled Human Infection Studies (CHIS) in low- and middle-income countries (LMIC). CHIS, or challenge studies, can play a key role in research to address important public health needs. These studies contribute to the understanding of pathogenesis and immunogenicity, especially in the absence of suitable animal models for particular diseases. In addition, CHIS offer the potential to accelerate drug and vaccine development by establishing proof of concept and guiding down-selection in a reduced time frame. CHIS involve the deliberate infection of healthy human volunteers with disease-causing agents and as such, these studies require strong scientific and ethical justification, and oversight. In the last 70 years, more than 22,000 volunteers have participated in CHIS involving 15 pathogens of public health importance. The findings from CHIS have contributed significantly to understanding infectious disease, and importantly, to the development of new drugs and vaccines, including the recently licensed cholera vaccine Vaxchora. Notwithstanding these benefits, CHIS continue to elicit concern due to the apparent contradiction to a fundamental tenet of ethical human subject research—*primum non nocere* (first, do no harm). Moreover, variability in ethics and regulatory oversight across jurisdictions, the need to understand

and be responsive to local needs, particularly as volunteer infection studies are expanded in LMICs, creates a need to develop best practices, harmonize approaches with existing guidelines, and address policy gaps. This symposium aims to share the practical experiences of researchers involved in the establishment and conduct of CHIS of poverty-related diseases in LMICs. Speakers will summarize how they have managed the scientific, ethical and regulatory challenges of CHIS in diverse settings in Asia and Africa. Human challenge models for dengue, malaria and pneumococcal disease will be presented, as well as an ethical perspective on participation in human challenge studies. Recommendations for ensuring highest standards of scientific and ethical conduct, as well as good participatory practices and benefits sharing, will be given. An initiative by funding agencies to agree on common principles and practices, including data sharing, for CHIS will also be presented.

CHAIR

Pauline Beattie
EDCTP, Den Haag, Netherlands
Mike Turner
Wellcome, London, United Kingdom

8 a.m.

EXPERIMENTAL HUMAN PNEUMOCOCCAL CARRIAGE – A COMPARISON OF RISKS, REGULATION AND DISCOVERY OPPORTUNITIES IN THE UK AND MALAWI

Stephen Gordon
The Malawi Liverpool Wellcome Trust Clinical Research Programme, Queen Elizabeth Central Hospital, Blantyre, Malawi

8:20 a.m.

CONTROLLED HUMAN MALARIA INFECTIONS IN AFRICA: MAXIMIZING THE IMPACT OF STUDIES

Bernhards Ogutu
KEMRI, Nairobi, Kenya

8:40 a.m.

ESTABLISHING CONTROLLED HUMAN DENGUE INFECTIONS: BALANCING RISKS AND BENEFITS

Bridget Willis
Oxford University Clinical Research Unit, Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam

9 a.m.

SOCIAL AND ETHICAL ASPECTS OF CONTROLLED HUMAN INFECTIONS IN LOW AND MIDDLE-INCOME COUNTRIES

Dorcas Kamuya
KEMRI-Wellcome Trust Research Programme, Kilifi, Kenya

Scientific Session 170

Arthropods: Other Arthropods

Marriott - Balcony IJK (3rd Floor)
Thursday, November 1, 8 a.m. - 9:45 a.m.

CHAIR

Brian L. Weiss
Yale School of Public Health, New Haven, CT, United States
Jennifer Kate Peterson
Princeton University, Portland, OR, United States

8 a.m.

2073

LARGE-SCALE USE OF INSECTICIDE-IMPREGNATED 'TINY TARGETS' TO CONTROL TSETSE FLIES IN THE DEMOCRATIC REPUBLIC OF CONGO

Inaki Tirados¹, Fabrice Mpebele², Paul Bessell³, Michelle Stanton⁴, Richard Selby¹, Geoffrey Gimonneau⁵, Erick M. Miaka², Philémon Mansinsa², Andrew Hope¹, Catiane Vander Kelen⁶, Yves Claeys⁶, Rian Snijders⁶, Marleen Boelaert⁶, Mike J. Lehane¹, Steve J. Torr¹
¹Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²Programme National de Lutte contre la Trypanosomiase Humaine Africaine, Kinshasa, Democratic Republic of the Congo, ³Independent consultant, Edinburgh, United Kingdom, ⁴Lancaster University, Lancaster, United Kingdom, ⁵Cirad, Montpellier, France, ⁶Institute of Tropical Medicine, Antwerp, Belgium

8:15 a.m.

2074

PARATRANGENIC MANIPULATION OF MICRORNA-275 EXPRESSION IN THE TSETSE FLY MIDGUT, AND THE DOWNSTREAM IMPACT ON TRYPANOSOME INFECTION OUTCOMES

Brian L. Weiss¹, Aurelien Vigneron¹, Adeline E. Williams¹, Liu Yang¹, Mehmet Karakus¹, Emre Aksoy², Serap Aksoy¹
¹Yale School of Public Health, New Haven, CT, United States, ²University of California, Riverside, Riverside, CA, United States

8:30 a.m.

2075

CHAGAS DISEASE ECO-EPIDEMIOLOGY: VECTOR HOST-FEEDING PATTERNS SUGGEST AN EPIDEMIOLOGICAL RISK OF CHAGAS DISEASE ON THE CARIBBEAN ISLAND OF TRINIDAD

Alexandra Eakes¹, Daniel Fitzpatrick², Andrew Dobson¹, Rod Suepaul³, Jennifer Kate Peterson¹
¹Princeton University, Princeton, NJ, United States, ²St. George's University, St. George's, Grenada, ³University of the West Indies, Mount Hope, Trinidad and Tobago

8:45 a.m.

2076

IMMUNE RESPONSE OF THE BED BUG TO SIMULATED TRAUMATIC INSEMINATION, STARVATION, AND INFECTION WITH ENTOMOPATHOGENIC BACTERIA

Jonas G. King, Aline Bronzato Badial, Travis van Warmerdam
Mississippi State University, MSU, MS, United States

9 a.m.

2077

NOVEL VECTORS AND PARASITE OF CUTANEOUS LEISHMANIASIS TRANSMISSION IN GILGIL, NAKURU COUNTY, KENYA

Damaris K. Matoke-Muhia¹, Barrack O. Owino², Jackline M. Mwangi³, Johnson Ingonga³, Philip Ngumbi³, Daniel K. Masiga¹
¹International Centre for Insect Physiology and Ecology, Nairobi, Kenya, ²Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ³Kenya Medical Research Institute, Nairobi, Kenya

9:15 a.m.

2078

HUMAN ANTIBODY RESPONSES AGAINST SALIVARY PROTEINS OF *AMBLIOMMA AMERICANUM*

Paulina Maldonado-Ruiz, Peter Klein, Ludek Zurek, Berlin Londono-Renteria
Kansas State University, Manhattan, KS, United States

9:30 a.m.

2079

EXPLORING THE SALIVARY GLYCOPROTEOME OF BLOODFEEDING ARTHROPODS AND THEIR RELEVANCE IN PATHOGEN TRANSMISSION

Karina Mondragon-Shem¹, Katherine Wongtrakul-Kish², Rad Kozak², Ricardo Araujo³, Alexandre Marques³, Daniel Spencer², Shi Yan⁴, Iain Wilson⁴, Katharina Paschinger⁴, Matthew E. Rogers⁵, Marcos Horacio Pereira³, Alvaro Acosta-Serrano¹

¹Liverpool School of Tropical Medicine, Liverpool, United Kingdom,

²Ludger, Oxford, United Kingdom, ³Laboratório de Fisiologia de Insetos

Hematófagos, Universidade Federal de Minas Gerais, Minas Gerais, Brazil,

⁴University of Natural Resources and Life Sciences, Vienna, Austria,

⁵London School of Hygiene & Tropical Medicine, London, United Kingdom

Scientific Session 171

Protozoa

Marriott-Balcony LMN (3rd Floor)

Thursday, November 1, 8 a.m. - 9:45 a.m.

CHAIR

Joel Barratt

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

Boris Striepen

University of Pennsylvania, Philadelphia, PA, United States

8 a.m.

2080

CRYOPRESERVATION OF INFECTIOUS CRYPTOSPORIDIUM PARVUMOO CYSTS

Justyna J. Jaskiewicz¹, Rebecca Sandlin², Giovanni Widmer¹, Anisa Swei², Mehmet Toner², Saul Tzipori¹

¹Cummings School of Veterinary Medicine at Tufts University, North Grafton, MA, United States, ²Center for Engineering in Medicine, Massachusetts General Hospital, Charlestown, MA, United States

(ACMCIP Abstract)

8:15 a.m.

2081

CHARACTERIZATION OF GENETIC VARIATION BETWEEN HOST-SPECIFIC THEILERIA PARVA POPULATIONS

Nicholas C. Palmateer¹, Claudia A. Daubenberger², Richard P. Bishop³, Joana C. Silva¹

¹Institute for Genome Sciences, University of Maryland School of Medicine, Baltimore, MD, United States, ²Swiss Tropical and Public Health Institute and University of Basel, Basel, Switzerland, ³Department of Veterinary Microbiology and Pathology, Washington State University, Pullman, WA, United States

(ACMCIP Abstract)

8:30 a.m.

2082

NOVEL ASSAYS FOR ANTICRYPTOSPORIDIAL IN VITRO EFFICACY

Alexander T. Chao

Novartis Institutes for Biomedical Research, Emeryville, CA, United States

8:45 a.m.

2083

EUKARYOTYPING: A NOVEL METHOD FOR AIDING OUTBREAK INVESTIGATIONS INVOLVING THE SEXUAL EUKARYOTIC PATHOGEN CYCLOSPORA CAYETANENSIS

Joel Barratt, Subin Park, Fernanda Nascimento, Jessica Hofstetter, Shannon Casillas, Mateusz Plucinski, Richard Bradbury, Michael Arrowood, Yvonne Qvarnstrom, Eldin Talundzic

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

9 a.m.

2084

EVALUATION OF THREE COMMERCIAL DIAGNOSTIC TESTS FOR CRYPTOSPORIDIUM INFECTIONS IN HUMANS

Henk Schallig¹, Joseph Bitilinyu-Bangoh², Wieger Voskuil¹

¹Academic Medical Centre, Amsterdam, Netherlands, ²Queen Elizabeth Central Hospital, Blantyre, Malawi

9:15 a.m.

2085

POTENT AND SELECTIVE ANTI-GIARDIA COMPOUND SERIES: PROGRESS AND NEW DEVELOPMENTS

Tina S. Skinner-Adams¹, Chris J. Hart¹, Andrew Riches², Jack Ryan², Sam Abraham³, Rebecca Abraham³

¹Griffith University, Brisbane, Australia, ²Commonwealth Scientific and Industrial Research Organization, Melbourne, Australia, ³Murdoch University, Perth, Australia

9:30 a.m.

2086

THE EFFECTS OF NITIDINE CHLORIDE AND CAMPTOTHECIN ON THE GROWTH OF BABESIA AND THEILERIA PARASITES

Ikuo Igarashi, Dickson S. Tayebwa, Bumduuren Tuvshintulga, Azirwan Guswanto, Thillaiampalam Sivakumar, Naoaki Yokoyama
National Research Center for Protozoan Diseases, Obihiro University of Agriculture and Veterinary Medicine, Obihiro, Japan

Coffee Break

Sheraton - Napoleon Ballroom (3rd Floor) and Marriott - Grand Ballroom Foyer (3rd Floor)

Thursday, November 1, 9:45 a.m. - 10:15 a.m.

Scientific Session 172

Filariasis: Clinical

Sheraton - Rodrigue Gallery (1st Floor)

Thursday, November 1, 10:15 a.m. - Noon

CHAIR

Christopher L. King

Case Western Reserve University, Center for Global Health and Diseases, Cleveland, OH, United States

Kenneth Pfarr

University Hospital Bonn, Bonn, Germany

10:15 a.m.

2087

A TRIAL OF A NOVEL TRIPLE DRUG TREATMENT FOR LYMPHATIC FILARIASIS IN PAPUA NEW GUINEA

Christopher L. King¹, James Suamani², Nelly Sanuku², Yao-Chieh Cheng¹, Samson Satofan², Brooke Mancuso¹, Leanne Robinson³, Peter Siba², Gary Weil⁴, James W. Kazura¹

¹Case Western Reserve University, Cleveland, OH, United States, ²Papua New Guinea Institute of Medical Research, Papua New Guinea, Goroka, Papua New Guinea, ³Burnett Institute, Melbourne, Australia, ⁴Washington University, St Louis, MO, United States

10:30 a.m.

2088

OXFENDAZOLE TREATMENT HAS A MACROFILARICIDAL EFFICACY AGAINST THE FILARIAL NEMATODE *LITOMOSOIDES SIGMODONTIS* IN VIVO AND INHIBITS *ONCHOCERCA GUTTUROSA* ADULT WORM MOTILITY IN VITRO

Marc P. Hübner¹, Coralie Martin², Sabine Specht¹, Marianne Koschel¹, Bettina Dubben¹, Stefan J. Frohberger¹, Alexandra Ehrens¹, Martina Fendler¹, Dominique Struever¹, Nathaly Vallarino-Lhermitte², Suzanne Gokool³, Simon Townson³, Achim Hoerauf¹, Ivan Scandale⁴

¹Institute for Medical Microbiology, Immunology and Parasitology, University Hospital Bonn, Bonn, Germany, ²Unité Molécules de Communication et Adaptation des Microorganismes (MCAM, UMR 7245), Sorbonne Universités, Muséum national d'Histoire naturelle, CNRS, Paris, France, ³Tropical Parasitic Diseases Unit, Northwick Park Institute for Medical Research, Harrow, Middlesex, United Kingdom, ⁴Drugs for Neglected Diseases initiative, Geneva, Switzerland

10:45 a.m.

2089

CLINICAL PRESENTATIONS OF ONCHOCERCIASIS-ASSOCIATED EPILEPSY IN CAMEROON

Joseph Nelson Siewe Fodjo¹, Ernest Nji Tabah², Leonard Ngarka³, Leonard Nfor Njamnshi⁴, Samuel Eric Chokote³, Michel Mengnjo K³, Fidele Dema⁵, Grace Nkoro⁶, Anne Cecile Zoung-Kanyi Bissek², Alfred Njamnshi K³, Robert Colebunders¹

¹Global Health Institute, University of Antwerp, Antwerp, Belgium, ²Ministry of Public Health, Yaounde, Cameroon, ³Neurology Department, Yaounde Central Hospital, Yaounde, Cameroon, ⁴Neurology Department, Centre Hospitalier Universitaire Brugman, Brussels, Belgium, ⁵Yoko District Hospital, Yoko, Cameroon, ⁶Neuroscience Laboratory, Faculty of Medicine and Biomedical Sciences, University of Yaounde I, Yaounde, Cameroon

11 a.m.

2090

A TRIAL OF SINGLE DOSE IVERMECTIN, DIETHYLCARBAMAZINE AND ALBENDAZOLE FOR TREATMENT OF LYMPHATIC FILARIASIS IN SUB-SAHARAN AFRICA

Catherine M. Bjerum¹, Allassane Ouattara², Aboulaye Meite³, Benjamin Koudou⁴, Koffi Marius Vanga², Olivier Kouadio², Gary Weil⁵, Christopher King¹

¹Case Western Reserve University, Cleveland, OH, United States, ²Centre Suisse de Recherche Scientifique en Côte d'Ivoire, Abidjan, Côte D'Ivoire, ³Programme national de la lutte contre l'onchocercose, la schistosomiase, les geohelminthiases et la filariose lymphatique, Abidjan, Côte D'Ivoire, ⁴Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ⁵Infectious Diseases Division, Department of Internal Medicine, Washington University School of Medicine, St. Louis, MO, United States

11:15 a.m.

2091

CORALLOPYRONIN A: AN EFFECTIVE ANTIWOLBACHIAL COMPOUND FOR THE TREATMENT OF FILARIAL INFECTIONS AND ANTIBIOTIC FOR ANTIMICROBIAL RESISTANT STIS

Kenneth Pfarr¹, Andrea Schiefer¹, Anna Krome², Stefan Kerhaus², Stephan Hüttele³, Rolf Jansen³, Domen Pogorevc⁴, Sarah Bouhired², Martin Roth⁵, Gabriele M. König², Rolf Müller⁴, Karl Wagner², Marc Stadler³, Achim Hoerauf¹

¹University Hospital Bonn, Bonn, Germany, ²University of Bonn, Bonn, Germany, ³Helmholtz Centre for Infection Research, Braunschweig, Germany, ⁴Helmholtz Centre for Infection Research, Saarland, Germany, ⁵Hans-Knöll-Institute, Jena, Germany

11:30 a.m.

2092

DEVELOPMENT AND VALIDATION OF AN *ONCHOCERCA OCHENGI* ADULT MALE WORM IN GERBIL MODEL FOR MACROFILARICIDAL DRUG DEVELOPMENT

Fidelis Cho-Ngwa¹, Glory E. Mbah¹, Rene B. Ayiseh¹, Emmanuel M. Ndi¹, Elvis Monya¹, Irene M. Tumanjong¹, Evans N. Mainsah¹, Judy Sakanari², Sara Lustigman³

¹University of Buea, Buea, Cameroon, ²University of California, San Francisco, CA, United States, ³New York Blood Center, New York, NY, United States

11:45 a.m.

2093

PROGRESS IN THE DEVELOPMENT OF NEM EXTRACT AS A NOVEL ANTHELMINTIC THERAPEUTIC

Belinda M. Jackson-Thompson, So Young Kim, Jatinder Singh, Edward Mitre

Uniformed Services University, Bethesda, MD, United States

Symposium 173

Inhibitory Molecules and Immune Check Point Targets for Host Directed Therapy in Leishmaniasis

Sheraton - Waterbury (2nd Floor)

Thursday, November 1, 10:15 a.m. - Noon

Leishmaniasis, caused by protozoan parasite of genus *Leishmania*, range from life threatening visceral forms to self-healing cutaneous lesions. The host immune response to *leishmania* infection is a central component of each of these diseases and plays a key role in disease outcome. There is no licensed human vaccine and drug treatment options are often limited and associated with severe side effects. Hence, there is an urgent need for new strategies to improve the efficacy of current vaccine candidates and enhance antiparasitic drug effectiveness and subsequent immunity in treated individuals. There is significant advancement in our current understanding about host immune responses contributing to disease protection and progression in the various forms of leishmaniasis. Therefore, targeting these host responses, as occurring in other chronic diseases, such as cancer and autoimmunity, offers promising new opportunities to either improve the efficacy of drug treatment protocols or vaccine candidates. This symposium will focus on our current understanding about targeting the inhibitory receptors and immune check point molecules in experimental model and human leishmaniasis to enhance anti parasitic immune response.

CHAIR

Rajiv Kumar

Banaras Hindu University, Varanasi, India

Om Prakash Singh

Banaras Hindu University, Varanasi, India

10:15 a.m.
HOST DIRECTED THERAPY AGAINST VISCERAL LEISHMANIASIS

Christian Engwerda
QIMR Berghofer Medical Research Institute, Brisbane, QLD, Australia

10:35 a.m.
TARGETING IMMUNE CHECK-POINT MOLECULES IN CANINE LEISHMANIASIS

Christine Petersen
University of Iowa, College of Public Health, Iowa City, IA, United States

10:55 a.m.
REGULATION OF CD4 T CELL RESPONSES DURING EXPERIMENTAL VISCERAL LEISHMANIASIS

Simona Stager
McGill University, Quebec, Canada

11:15 a.m.
MECHANISMS LEADING TO IMMUNOPATHOLOGY IN CUTANEOUS LEISHMANIASIS

Phillip Scott
University of Pennsylvania, Philadelphia, PA, United States

Symposium 174

Implementing Disease and Control Programs in Urban Settings

Sheraton - Rhythms (2nd Floor)

Thursday, November 1, 10:15 a.m. - Noon

While significant improvements have been made in the effective implementation of disease control and elimination programs, some very specific challenges remain to be addressed that call for innovative approaches. Program challenges are increasingly observed in the “hard to reach” populations: urban dwellers, migrant populations, those living in insecurity, out of school children, and where infrastructure is weak and education levels low. “Business as usual” approaches are unlikely to work here, therefore innovative and tailored solutions are needed if elimination and control goals are to be reached. This session will focus on the issue of delivering public health programs in urban areas. World Bank (2017) data reports that more than half of the global population is urban and that Africa’s urban population will double in the next 25 years. Challenges of working in urban settings include the diversity of the population – from slum dwellers that are casual laborers to highly educated professionals living in high-rise apartments and gated communities, the increased importance of private health care sector, lack of trust in the public sector, population mobility, and issues of safety. These challenges are common to many different programs working in urban environments. This symposium will explore the challenges and inventions that come from working in urban areas - from the perspectives of both dengue fever and lymphatic filariasis (LF) programs. Innovative approaches needed to ensure effective interventions in urban areas will be presented, with one presentation on conducting mass drug administration for LF in Haiti and another on the use of house screens

to reduce *Aedes aegypti* infestation in dengue fever control. Analysis of how the epidemiology of LF and dengue fever differ in urban settings, compared to rural, is also presented. This includes results on the impact of spatial heterogeneity and human mobility on dengue transmission and the potential to ‘shrink the map’ of areas where LF interventions are needed. This session promises to generate outside-the-box thinking by leveraging cross disease learning, as well as highlighting the gaps in our knowledge that require further operational research.

CHAIR

Margaret C. Baker
RTI International, Washington, DC, United States

Joseph Shott
United States Agency for International Development, Washington, DC, United States

10:15 a.m.
THE URBAN CONTEXT: CHALLENGES AND OPPORTUNITIES FOR PUBLIC HEALTH PROGRAMS

Alayne Adams
Georgetown University, Washington, DC, United States

10:25 a.m.
HOUSE SCREENS TO REDUCE INFESTATIONS OF AEGES AEGYPTI IN URBAN AREAS

Pablo Manrique-Saide
Universidad Autonoma de Yucatan, Mexico, Yucatan, Mexico

10:40 a.m.
ADDRESSING LOW TREATMENT COVERAGE CHALLENGES IN METROPOLITAN AREA OF PORT AU PRINCE, HAITI

Abdel Direny
RTI International, Fort Myers, FL, United States

10:55 a.m.
SPATIAL HETEROGENEITY AND HUMAN MOBILITY IMPACT DENGUE TRANSMISSION AND CONTROL

Gonzalo Vazquez-Prokopec
Emory University, Atlanta, GA, United States

11:10 a.m.
IS MDA NEEDED TO ELIMINATE LF IN URBAN WEST AFRICA AND WIDER POLICY IMPLICATIONS?

David Molyneux
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Scientific Session 175

Global Health: Disease Surveillance and Outbreaks Response

Sheraton - Grand Ballroom A/B (5th Floor)

Thursday, November 1, 10:15 a.m. - Noon

CHAIR

Cordelia Coltart
University College London, London, United Kingdom

Jean Lang
Sanofi Pasteur, Lyon, France

10:15 a.m.

2094

MODERNIZING OUTBREAK INVESTIGATION FOR EMERGING INFECTIONS: AN INTEGRATED PHYLOGENETIC AND EPIDEMIOLOGICAL APPROACH FROM THE WEST AFRICAN EBOLA OUTBREAK IN SIERRA LEONE DETECTS A POTENTIAL NOVEL MECHANISM OF TRANSMISSION AND VALIDATES THE BENEFIT OF INCORPORATING GENOMIC DATA

Cordelia Coltart¹, Daniel Cooper², Maria Calvo Cortes³, Matthew Cotton⁴, Ian Goodfellow⁵, Anne Johnson¹, Stephane Hue³

¹University College London, London, United Kingdom, ²Menzies School of Health Research and Charles Darwin University, Darwin, Australia, ³London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁴Wellcome Trust Sanger Institute, Cambridge, United Kingdom, ⁵University of Cambridge, Cambridge, United Kingdom

10:30 a.m.

2095

IMPROVING CROSS-BORDER AND REGIONAL COMMUNICABLE DISEASE SURVEILLANCE AND RESPONSE THROUGH A NOVEL MULTICOUNTRY COLLABORATION, TOGO, BENIN, NIGERIA, AND CAMEROON

Clement Kakai Glele¹, Mahmood Dalhat², Ouyi Tante Valenin³, Elisabeth Betsi Dibongue⁴, Elvira McIntyre⁵, Patrick Nguku², Godjedo Togbembou Primous Martial¹, Rodrigue Kohoun¹, Nestor D. Noudeke⁶, Dibog Luc Bertrand⁴, Amabo Chi Franck⁴, Armelle Ngomba⁴, Tamekloe Tsidi Agbeko³, Chikwe Iheakweazu⁷, **Rebecca D. Merrill**⁸

¹Ministry of Health, Cotonou, Benin, ²African Field Epidemiology Network, Nigeria Field Epidemiology and Laboratory Training Program, Abuja, Nigeria, ³Ministry of Health, Lome, Togo, ⁴Ministry of Public Health, Douala, Cameroon, ⁵Booze Allen Hamilton, Atlanta, GA, United States, ⁶African Field Epidemiology Network, Benin Field Epidemiology Training Program, Cotonou, Benin, ⁷Nigeria Centre for Disease Control, Abuja, Nigeria, ⁸Centers for Disease Control and Prevention, Atlanta, GA, United States

10:45 a.m.

2096

MAKING PASTORALISTS COUNT: HEALTH SURVEILLANCE OF A NOMADIC POPULATION USING A GEOSPATIALLY DERIVED SAMPLING FRAME

Hannah Wild¹, Luke Glowacki², Stace Maples³, Ivan Mejia-Guevara⁴, Abiy Hiruy⁵, Amy Krystosik⁶, Matthew Bonds⁷, A. Desiree LaBeaud⁸, Michele Barry⁸

¹Stanford University School of Medicine, Stanford, CA, United States, ²Institute for Advanced Study, Toulouse, France, ³Stanford Geospatial Center, Stanford, CA, United States, ⁴Center for Population Health Sciences, Stanford University, Stanford, CA, United States, ⁵Pathfinder International, Addis Ababa, Ethiopia, ⁶Department of Pediatric Division of Infectious Disease, Stanford University, Stanford, CA, United States, ⁷Department of Global Health and Social Medicine, Harvard Medical School, Boston, MA, United States, ⁸Center for Innovation in Global Health, Stanford University School of Medicine, Stanford, CA, United States

11 a.m.

2097

COMMUNITY HEALTH VOLUNTEERS TRAINED VIA U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT (USAID)/ PRESIDENT'S MALARIA INITIATIVE (PMI) PARTNERS RAPIDLY RESPOND TO A PNEUMONIC PLAGUE OUTBREAK, MADAGASCAR, 2017

Dr Jocelyn Razafindrakoto¹, Dr Laurent T. Kapesa¹, Dr Andry Rahajarison², Lova Ralijaona², Dr Herly Ramiandrisoa³, Dr Riana Ramanantsoa⁴, Catherine Dentinger⁵

¹United States Agency for International Development/PMI, Antananarivo, Madagascar, ²United States Agency for International Development Health Population Nutrition, Antananarivo, Madagascar, ³United States Agency for International Development Community Capacity for Health Program, Antananarivo, Madagascar, ⁴United States Agency for International Development Mikolo project, Antananarivo, Madagascar, ⁵CDC/PMI, Antananarivo, Madagascar

11:15 a.m.

2098

IDENTIFICATION OF ENTERIC PATHOGEN RESERVOIRS AND TRANSMISSION PATHWAYS ASSOCIATED WITH CHILDHOOD GROWTH IN THE URBAN INDIAN, AND RURAL BANGLADESH SITES OF THE GLOBAL ENTERIC MULTICENTER STUDY

Kurt Z. Long¹, Abu S. Faruque², Chris Stride³, Inong R. Gunanti¹, Johanna Sanchez⁴, Salvador Zamora⁵, Georgina Mora⁶, James P. Nataro⁷, Dilruba Nasrin⁸, Myron Levine⁸, Karen Kotloff⁹

¹Swiss Tropical and Public Health Institute, Basel, Switzerland, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ³The Institute of Work Psychology, University of Sheffield, Sheffield, United Kingdom, ⁴Child Health Research Centre, Faculty of Medicine and Biomedical Sciences, University of Queensland, Brisbane, Australia, ⁵Mathematics Department, UNAM, Mexico City, Mexico, ⁶Secretariat of Health, Xalapa, Mexico, ⁷Department of Pediatrics, University of Virginia School of Medicine, Charlottesville, VA, United States, ⁸Department of Medicine, University of Maryland School of Medicine, Baltimore, MD, United States, ⁹Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD, United States

11:30 a.m.

2099

DEVELOPING A PUBLIC HEALTH TOOL TO MONITOR THE TRANSMISSION POTENTIAL OF NIPAH VIRUS DURING OUTBREAKS

Birgit Nikolay¹, Henrik Salje¹, Hossain M. Sazzad², Meerjady Sabrina Flora³, Stephen P. Luby⁴, Simon Cauchemez¹, Emily S. Gurley⁵

¹Institut Pasteur, Paris, France, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ³Institute of Epidemiology Disease Control and Research, Dhaka, Bangladesh, ⁴Stanford University, Stanford, CA, United States, ⁵Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

11:45 a.m.

2100

RDHS: AN R PACKAGE TO INTERACT WITH THE DEMOGRAPHIC AND HEALTH SURVEYS (DHS) PROGRAM DATA SETS

Oliver J. Watson, Jeff W. Eaton

MRC Centre for Global Infectious Disease Analysis, Imperial College London, London, United Kingdom

Symposium 176

Rotavirus Vaccines: Progress, Challenges and the Road Ahead

Sheraton - Grand Ballroom D/E (5th Floor)

Thursday, November 1, 10:15 a.m. - Noon

Rotavirus is the most common cause of severe diarrhea among children under 5, responsible for 2 out of every 5 diarrhea hospitalizations globally. While improvements in water, sanitation, and hygiene have helped reduce diarrhea morbidity and mortality from many causes, these interventions are insufficient to prevent rotavirus. Safe, effective rotavirus vaccines are a critical, powerful tool to prevent this disease. Tremendous progress has been made in the decade since the vaccines now used around the world—RotaTeq (Merck) and Rotarix (GSK)—were licensed. These vaccines are used in national immunization programs of more than 90 countries. Where implemented, rotavirus vaccines have substantially decreased diarrhea morbidity and mortality. The landscape continues to evolve, with a new rotavirus vaccine used in India's

national immunization program (ROTAVAC, Bharat Biotech) recently attaining WHO-prequalification, and a second Indian product (ROTASIIL, Serum Institute of India) under prequalification consideration. Innovative new products are on the horizon to broaden the landscape and improve impact, with several developing country manufacturers at the forefront. Recent years have been marked by high-profile rotavirus vaccine introductions in key regions, particularly in low- and middle-income countries in sub-Saharan Africa and South and Southeast Asia. By further expanding their reach through national introductions, rotavirus vaccines have the potential to substantially impact diarrheal disease morbidity and mortality, lessening the burden of diarrheal disease hospitalizations the health system and helping to avert catastrophic expenditures for families and communities. Despite this progress, rotavirus is still responsible for about 200,000 deaths and millions of hospitalizations each year. More than 90 million children lack access to rotavirus vaccines and some regions lag especially far behind. In the face of competing investment priorities, there is a need to accelerate introductions in low- and middle-income countries and avoid a backward slide in lower-burden, high-income countries. In countries already using the vaccine, increasing access and uptake will require broad programmatic and policy interventions to tackle coverage gaps and delivery challenges; reach vulnerable populations; address questions about product interchangeability as the product landscape expands and diversifies; and prepare countries to self-finance new vaccine introductions. This symposium will highlight the continued burden of rotavirus disease; review the vaccine landscape, particularly promising new products in development; identify barriers to access and uptake; and propose solutions to ensure rotavirus vaccines reach the children who need them most.

CHAIR

Mathuram Santosham
Johns Hopkins University, Baltimore, MD, United States
 Duncan Steele
Bill & Melinda Gates Foundation, Seattle, WA, United States

10:15 a.m. WHERE WE ARE: ROTAVIRUS DISEASE BURDEN AND THE IMPACT OF VACCINES GLOBALLY

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

10:35 a.m. WHERE WE ARE HEADED: THE NEW GENERATION OF ROTAVIRUS VACCINES

Julie Bines
University of Melbourne, Murdoch Children's Research Institute, Houston, TX, United States

10:55 a.m. PROGRESS MADE: SPOTLIGHT ON BANGLADESH

Samir Saha
Bangladesh Institute of Child Health, Dhaka Shishu Hospital, Dhaka, Bangladesh

11:15 a.m. THE UNFINISHED AGENDA: PROGRAMMATIC AND POLICY CHALLENGES

Lora Shimp
John Snow, Inc., Arlington, VA, United States

Symposium 177

Chagas' Disease in the United States – Is it Time for Primary Prevention?

Marriott - La Galerie 1/2 (2nd Floor)
 Thursday, November 1, 10:15 a.m. - Noon

Chagas disease vectors are endemic throughout the southern United States and autochthonous transmission is increasing in south Texas. This session will review what is known and what needs to be known or found out in order to undertake primary prevention of transmission.

CHAIR

Kathryn S. Aultman
St. Mary's University, San Antonio, TX, United States
 Paula Stigler-Granados
University of Texas Health Houston School of Public Health, Houston, TX, United States

10:15 a.m. BEHAVIOR, ECOLOGY, AND HOST INTERACTIONS OF TRIATOMINE VECTORS OF THE CHAGAS DISEASE PARASITE IN TRANSMISSION HOTSPOTS OF THE SOUTHERN US

Sarah Hamer
Texas A&M University, College Station, TX, United States

10:35 a.m. ECOLOGY OF A LOUISIANA AUTOCHTHONOUS CHAGAS CASE - A PERFECT STORM

Dawn Wesson
Tulane University, New Orleans, LA, United States

10:55 a.m. KISSING BUGS SURVEILLANCE IN HARRIS COUNTY AND THE CITY OF HOUSTON, TEXAS

Mustapha Debboun
Harris County Public Health, Houston, TX, United States

11:15 a.m. TRIATOME DOMICILIATION IN SOUTHWESTERN HOMES

Steven A. Klotz
University of Arizona, Tucson, AZ, United States

Symposium 178

Integrated Vector Management in Malaria Elimination Settings: Charting the Way forward in the Americas

Marriott - La Galerie 3 (2nd Floor)
 Thursday, November 1, 10:15 a.m. - Noon

Comprehensive malaria control strategies, including Integrated Vector Management (IVM), are required to sustain the gains that have been achieved and reach subnational, national, and regional elimination. Presenters have been selected to provide overviews from both the

regional and country perspectives. The Pan American Health Organization (PAHO) is best placed to provide an overview regarding the epidemiology and challenges related to malaria elimination in the Americas. PAHO's recent significant investment in building a regional public health entomology program with active engagement with ministries of health from member states has led to the development of renewed regional approaches to IVM for both malaria control and elimination. Mexico's Health Secretariat has successfully eliminated malaria from most of the previously endemic areas of Mexico. This has been achieved through an integrated approach that includes vector control using both adult and larval control strategies and environmental management. However, Mexico remains vulnerable due to its proximity to endemic areas, and the flow of migrants from endemic areas. In Central America, Honduras has experienced significant drops in malaria transmission over the past decade. Where *foci* persist, the Ministry of Health has developed a vector surveillance and control plan that includes insecticide resistance surveillance and management. Honduras, together with its neighbors in Mesoamerica, are currently receiving significant investment from multiple stakeholders to assist in their malaria elimination efforts. Suriname, one of the countries with lowest malaria incidence in South America, has long emphasized the role of vector surveillance and control as part of its national malaria control program. However, a key challenge is effective vector surveillance and control in hard-to-access malaria endemic areas, such as gold mining camps, which are currently the primary malaria transmission *foci*. The role of IVM in such scenarios is becoming increasingly relevant, as significant drops in malaria transmission occurs alongside areas where malaria transmission persists amongst hard-to-reach populations. The role that IVM has played, and how that role will likely evolve over the coming years, will provide an important example to other countries entering the final elimination push. Specific experience with IVM strategies in contexts where the greatest vector-borne disease burden is arboviruses rather than malaria will also be discussed. The symposium will conclude with a Q&A panel with presenters as an opportunity to further discuss best practices and novel approaches to IVM for successful and sustained elimination.

CHAIR

Audrey Lenhart
Centers for Disease Control and Prevention, Atlanta, GA, United States
Alexandre Macedo de Oliveira
Centers for Disease Control and Prevention, Atlanta, GA, United States

10:15 a.m.
THE EPIDEMIOLOGY AND CHALLENGES FOR MALARIA ELIMINATION IN THE AMERICAS: THE REGIONAL OVERVIEW, PAHO EPI OVERVIEW

Roberto Montoya
Pan American Health Organization, Washington, DC, United States

10:35 a.m.
THE EPIDEMIOLOGY AND CHALLENGES FOR MALARIA ELIMINATION IN THE AMERICAS: A COUNTRY OVERVIEW

Gustavo Sanchez
National Center for Preventive Programs and Disease Control, Mexico City, Mexico

10:55 a.m.
VECTOR CONTROL STRATEGIES IN AN ELIMINATION CONTEXT: THE EXAMPLE OF SURINAME

Helene Hiwat-Van Laar
National Malaria Control Program in Suriname, Paramaribo, Suriname

11:15 a.m.
INSECTICIDE RESISTANCE SURVEILLANCE AND MANAGEMENT IN AN ELIMINATION CONTEXT: THE EXAMPLE OF HONDURAS

Denis Escobar
Honduras Ministry of Health, Tegucigalpa, Honduras

Symposium 179

Barriers and Opportunities in Driving down the Burden of Diarrheal Disease among Children under Age 5: Where Do We Go from Here?

Marriott - La Galerie 4/5/6 (2nd Floor)
Thursday, November 1, 10:15 a.m. - Noon

Second to pneumonia, diarrheal disease is a leading cause of mortality in children under five years old, claiming more than half a million lives each year and accounting for 9% of global child deaths. The original United Nations (UN) Millennium Development Goals included a target to reduce the mortality rate among children under five by two-thirds by 2015. Although tremendous progress has been made in reducing the rate by 47% from 2000 to date, more work is urgently needed. Key barriers for low-resource settings with high diarrheal disease prevalence include health systems challenges to deliver existing interventions like oral rehydration solution (ORS) and, in particular, zinc. In addition to acute dehydration, the more chronic consequences of enteric infections, such as environmental enteric dysfunction (EED) which leads to growth stunting, are increasingly coming into focus. Finally, new research is questioning a core assumption of public health that improving water and sanitation will limit diarrhea and its consequences. This session will address three emerging topics: 1) Strategies for improving ORS and zinc coverage, and how co-packaging can contribute to uptake and improved rational use; 2) The unexpected results from the WASH Benefits and Sanitation Hygiene Infant Nutrition Efficacy (SHINE) trials that show an ambiguous benefit of water and sanitation controls; and 3) The increasing efforts to identify intervention for EED as part a comprehensive solution to diarrheal disease.

CHAIR

Eugenio de Hostos
PATH, San Francisco, CA, United States

10:15 a.m.
GOING TO SCALE: LESSONS LEARNED FROM PROGRAMS IN INDIA, KENYA, NIGERIA, AND UGANDA

Felix Lam
Clinton Health Access Initiative, Boston, MA, United States

10:25 a.m.
DELIVERING ON THE PROMISE: CO-PACKAGED ORS/ZINC ON THE WORLD HEALTH ORGANIZATION'S ESSENTIAL MEDICINES LIST

Rohit Ramchandani
University of Waterloo, Waterloo, Canada

10:35 a.m.
TARGETING NEW INTERVENTIONS FOR ENVIRONMENTAL ENTERIC DYSFUNCTION WITH EMERGING PARTNERSHIPS

Eugenio de Hostos
PATH, San Francisco, CA, United States

10:45 a.m.
WHAT ROLE FOR WASH IN DIARRHEAL DISEASE CONTROL IN THE LIGHT OF RECENT TRIAL FINDINGS?

Andrew Prendergast
Zvitambo Institute for Maternal and Child Health Research, Harare, Zimbabwe

10:55 a.m.
PANEL DISCUSSION

Mami Taniuchi, Moderator
University of Virginia, Charlottesville, VA, United States

Symposium 180

Accelerating the Decline in Malaria Cases and Deaths: Targeting Gaps in Malaria Intervention Coverage

Marriott - Mardi Gras D (3rd Floor)
Thursday, November 1, 10:15 a.m. - Noon

The World Malaria Report 2017 estimated that more than 40% of people at risk of malaria in sub-Saharan Africa were not covered by vector control, almost 70% of pregnant women did not receive three doses of intermittent preventive therapy and more than one-third of children with fever were not taken for care. Progress in achieving global reductions in malaria cases and deaths has stalled and more than 200 million cases of malaria and 400,000 malaria-related deaths still occurred in 2016. Malaria deaths are not easily distinguished. However, their distribution is strongly associated with under-5 mortality rates from all causes. Accordingly, a better understanding of the relationship between under-five mortality, malaria infection and malaria program coverage in high burden countries can inform the development of strategies to maximize reductions in morbidity and mortality. The symposium will present the latest evidence on (i) the link mortality in children under 5 years of age, malaria infection and malaria program coverage gaps in Africa, (ii) the populations most affected by coverage gaps, (iii) the most important bottlenecks in the delivery of programs for vector control, chemo-prevention, diagnostic testing and treatment (iii) promising strategies to overcome the bottlenecks.

CHAIR

Pedro Alonso
World Health Organization, Geneva, Switzerland

Elizabeth Chizema
Ministry of Health, Zambia, Lusaka, Zambia

10:15 a.m.
THE ASSOCIATION BETWEEN UNDER-FIVE MORTALITY, MALARIA INFECTION AND MALARIA PROGRAM COVERAGE GAPS IN AFRICA

Richard Cibulskis
World Health Organization, Geneva, Switzerland

10:35 a.m.
ANALYSIS OF COVERAGE AND DETERMINANTS OF ACCESS TO LLIN AND IRS FOR MALARIA VECTOR CONTROL

Hannah Koenker
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

10:55 a.m.
ANALYSIS OF COVERAGE AND DETERMINANTS OF ACCESS TO SEASONAL MALARIA CHEMOPREVENTION

Diego Moroso
Malaria Consortium, Kampala, Uganda

11:15 a.m.
ANALYSIS OF COVERAGE AND DETERMINANTS OF ACCESS TO MALARIA DIAGNOSIS AND TREATMENT

Fatima Suleman
University of KwaZulu-Natal, Durban, South Africa

Symposium 181

Blood Feeding and Pathogen Transmission: It's All in the Spit

Marriott - Mardi Gras EFGH (3rd Floor)
Thursday, November 1, 10:15 a.m. - Noon

Saliva from blood feeding arthropods represents a vast resource of bioactive compounds that facilitate feeding, potentiate pathogen transmission and can be targeted as vaccines against vector-borne diseases. This symposium will bring together vector biologists to explore new areas of investigation in the field of arthropod saliva under a single meeting.

CHAIR

Eric Calvo
National Institutes of Health, Rockville, MD, United States

Saravanan Thangamani
University of Texas Medical Branch, Galveston, TX, United States

10:15 a.m.
TICK INDUCED CHANGES TO HOST DEFENSES: SPECIFIC PATTERNS AND PATHOGEN

Stephen Wikel
University of Texas Medical Branch, Galveston, TX, United States

10:40 a.m.

SIALOKININ: THE MAIN VASODILATOR FROM THE SALIVA OF Aedes Aegypti AND ITS RELEVANCE IN MOSQUITO BLOOD FEEDING

Ines Martin-Martin

National Institutes of Health, Rockville, MD, United States

11:05 a.m.

ROLE OF MAMMALIAN INNATE IMMUNITY IN VECTOR TRANSMISSION OF ARBIVIRUSES

Barbara Drolet

U.S. Department of Agriculture, Manhattan, KS, United States

11:25 a.m.

TICK-HOST INTERFACE - A "SWEET" CHALLENGE"

Sukanya Narasimhan

Yale University, New Haven, CT, United States

Scientific Session 182

Malaria: Prevention

Marriott - Balcony IJK (3rd Floor)

Thursday, November 1, 10:15 a.m. - Noon

CHAIR

Moumouni Bonkoungou

Jhpiego, Ouagadougou, Burkina Faso

Kent Kester

Sanofi Pasteur, Swiftwater, PA, United States

10:15 a.m.

2101

IMPACT OF INDOOR RESIDUAL SPRAYING IN REDUCING MALARIA CASES IN RWANDA, 2013-2017

Emmanuel Hakizimana¹, Dunia Munyakanya¹, Emily Piercefield², Monique Murindahabi¹, Aline Uwimana¹, Didier Uyizeye¹, Erin Eckert³, Kaendi Munguti⁴, Peter Obenauer⁵, Aimable Mbituyumuremyi¹

¹Rwanda Biomedical Center, Malaria and Other Parasitic Diseases Division, Kigali, Rwanda, ²US President's Malaria Initiative, Malaria Branch, Division of Parasitic Diseases and Malaria, US Centers for Disease Control and Prevention, Kigali, Rwanda, ³US President's Malaria Initiative, United States Agency for International Development, Bureau for Global Health, Office of Health, Infectious Diseases, and Nutrition, Washington, DC, United States, ⁴US President's Malaria Initiative, United States Agency for International Development, Kigali, Rwanda, ⁵Navy and Marine Corps Public Health Center Detachment-CDC, Centers for Disease Control and Prevention, Entomology Section, Atlanta, GA, United States

10:30 a.m.

2102

RAPID IMPROVEMENTS TO RURAL UGANDAN HOUSING AND THEIR ASSOCIATION WITH MALARIA FROM INTENSE TO REDUCED TRANSMISSION: FINDINGS FROM A COHORT STUDY

John Rek¹, Victor Alegana², Emmanuel Arinaitwe¹, Ewan Cameron³, Moses Kanya⁴, Agaba Katureebe¹, Steve W. Lindsay⁵, Maxwell Kilama¹, Sarah G. Staedke⁶, Jim Todd⁷, Grant Dorsey⁸, Lucy S. Tusting³

¹Infectious Diseases Research Collaboration, Kampala, Uganda, ²University of Southampton, Southampton, United Kingdom, ³Oxford Big Data Institute, Li Ka Shing Centre for Health Information and Discovery, Nuffield Department of Medicine, University of Oxford, Oxford, United Kingdom, ⁴Department of Medicine, Makerere University College of Health Science, Kampala, Uganda, ⁵Department of Biosciences, Durham University, Durham, United Kingdom, ⁶Department of Clinical Research, London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁷Department of Population Health, London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁸Department of Medicine, University of California, San Francisco, CA, United States

10:45 a.m.

2103

THE IMPACT OF MULTIPLE ROUNDS OF INDOOR RESIDUAL SPRAYING ON MALARIA INCIDENCE AND HEMOGLOBIN LEVELS IN A HIGH TRANSMISSION SETTING

Kate Zinszer¹, Deepa Jahagirdar², John Rek³, Emmanuel Arinaitwe³, Joaniter Nankabirwa³, Moses Kanya⁴, Isabel Rodriguez-Barraquer⁵, Bryan Greenhouse⁵, Grant Dorsey⁶

¹University of Montreal, Montreal, QC, Canada, ²McGill University, Montreal, QC, Canada, ³Infectious Disease Research Collaboration, Kampala, Uganda, ⁴Makerere University of College of Health Sciences, Kampala, Uganda, ⁵University of California San Francisco, San Francisco, CA, United States

11 a.m.

2104

INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANCY AND BIRTH OUTCOMES: ASSESSMENT OF THE FIVE DOSE SULFADOXINEPYRIMETHAMINE POLICY IN RURAL NORTHERN GHANA

Abraham Oduro¹, Ibrahim Agongo², Victor Asoala¹, Francis Anto²

¹Navrongo Health Research Centre, Navrongo, Ghana, ²University of Ghana, Accra, Ghana

11:15 a.m.

2105

IMPACT OF INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANCY WITH MONTHLY DIHYDROARTEMISININ-PIPERAQUINE ON THE INCIDENCE OF MALARIA DURING INFANCY

Abel Kakuru¹, Sarah Staedke², Daniel Chandramohan², Richard Kajubi¹, Teddy Andra¹, Harriet Adrama¹, Miriam Nakalembe³, Tamara D. Clark⁴, Theodore Ruel⁴, Prasanna Jagannathan⁵, Diane V. Havlir⁴, Moses R. Kanya³, Grant Dorsey⁴

¹Infectious Diseases Research Collaboration, Kampala, Uganda, ²London School of Hygiene & Tropical Medicine, London, United Kingdom, ³Makerere University College of Health Sciences, Kampala, Uganda, ⁴University of California San Francisco, San Francisco, CA, United States, ⁵Stanford University, San Francisco, CA, United States

11:30 a.m.

2106

SEASONAL MALARIA CHEMOPREVENTION, AN EFFECTIVE INTERVENTION FOR REDUCING MALARIA MORBIDITY AND MORTALITY

Moumouni Bonkoungou¹, Ousmane Badolo¹, Stanislas Nebie¹, Justin Tiendrebeogo¹, Mathurin Dodo¹, Thierry Ouedraogo¹, Youssouf Sawadogo¹, Danielle Burke², Bethany Arnold², William Brieger³, Gladys Tetteh²

¹Jhpiego, Ouagadougou, Burkina Faso, ²Jhpiego, Baltimore, MD, United States, ³Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

11:45 a.m.

2107

NEAR REAL-TIME REPORTING THROUGH DHIS2 TO DRIVE EFFICIENCY DURING LLIN MASS DISTRIBUTION CAMPAIGNS: LESSONS FROM KINSHASA, DRC, AND MALI

Cedric Mingat¹, Njara Rakotonirina², Olivier Palata², Anthony M'vumba², Riddy Ndoma², Christina Lussiana³, Bram Piot⁴, Joseph Lewinski⁴

¹Population Services International, Bamako, Mali, ²Association de Santé Familiale, Kinshasa, Democratic Republic of the Congo, ³Population Services International, Nairobi, Kenya, ⁴Population Services International, Washington, DC, United States

Scientific Session 183

Global Health: Community Health Systems and Operational Program Implementation

Marriott - Balcony LMN (3rd Floor)

Thursday, November 1, 10:15 a.m. - Noon

CHAIR

Julie Pavlin

National Academies of Sciences, Engineering, and Medicine, Bethesda, MD, United States

Alexander K. Rowe

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

10:15 a.m.

2108

THE PREDICTORS OF HEALTH WORKER PRACTICES IN LOW- AND MIDDLE-INCOME COUNTRIES: A SYSTEMATIC REVIEW

Alexander K. Rowe¹, Samantha Y. Rowe¹, David H. Peters², Kathleen A. Holloway³, John Chalker⁴, Dennis Ross-Degnan⁵

¹Centers for Disease Control and Prevention, Atlanta, GA, United States,

²Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States,

³University of Sussex, Brighton, United Kingdom, ⁴Management

Sciences for Health, Arlington, VA, United States, ⁵Harvard Medical School, Boston, MA, United States

10:30 a.m.

2109

EQUITABLE BUT NOT PRO-POOR CHANGE IN MATERNAL AND NEWBORN HEALTH

Tanya Marchant, Emma Beaumont, Nasir Umar, Della Berhanu, Meenakshi Gautham, Elizabeth Allen, Joanna Schellenberg

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

10:45 a.m.

2110

THE RELATIVE IMPORTANCE OF FINANCIAL AND NON-FINANCIAL INCENTIVES FOR COMMUNITY HEALTH WORKERS: EVIDENCE FROM A DISCRETE CHOICE EXPERIMENT IN WESTERN KENYA

Indrani Saran¹, Laura Winn², Joseph K. Kirui³, Diana Menya⁴, Wendy P. O'Meara¹

¹Duke Global Health Institute, Durham, NC, United States, ²Duke University,

Durham, NC, United States, ³Academic Model Providing Access to

Healthcare (AMPATH), Eldoret, Kenya, ⁴School of Public Health, College of

Health Sciences, Moi University, Eldoret, Kenya

11 a.m.

2111

IMPACT OF ONE-ON-ONE DETAILING AND MASS MEDIA ON COMMUNITY USE OF ORS AND ZINC DURING A SCALE-UP PROGRAM IN GUJARAT AND UTTAR PRADESH

Leslie Wentworth¹, Felix Lam¹, George Pro², Shreya Agrawal³, Vishal Shastri⁴, Melinda Stanley¹, Nitin Beri⁵, Kate Schroder¹, Marta R. Prescott¹, Naresh Trikha⁵

¹Clinton Health Access Initiative, Boston, MA, United States, ²University

of Iowa College of Public Health, Iowa City, IA, United States, ³Teach for

America, New York, NY, United States, ⁴Alive & Thrive/FHI Solutions LLC,

Delhi, India, ⁵Clinton Health Access Initiative, Delhi, India

11:15 a.m.

2112

HOW GROUP-BASED CARDIOVASCULAR HEALTH EDUCATION AFFECTS TREATMENT ADHERENCE AND BLOOD PRESSURE CONTROL AMONG INSURED HYPERTENSIVE NIGERIANS: A PRE-TEST, POST-TEST STUDY

Aina Odusola¹, Heleen Nelissen², Marleen Hendriks³, Constance Schultsz², Ferdinand Wit², Oladimeji Bolarinwa⁴, Tanimola Akande⁴, Charles Agyemang⁵, Gbenga Ogedegbe⁶, Kayode Agbede⁷, Peju Adenusi⁸, Akin Osibogun⁹, Karien Stronks⁵, Joke Haafkens¹⁰

¹Department of Community Health and Primary Health Care, Lagos State University Teaching Hospital, Lagos, Nigeria, ²Department of Global Health, Amsterdam Institute for Global Health and Development, Academic Medical Center, University of Amsterdam, Amsterdam, Netherlands, ³Joep Lange Institute, Amsterdam, Netherlands, ⁴Department of Epidemiology and

Community Health, University of Ilorin Teaching Hospital, Ilorin, Nigeria, ⁵Department of Public Health, Academic Medical Center, University of

Amsterdam, Amsterdam, Netherlands, ⁶Division of Health and Behavior,

Center for Healthful Behavior Change, Department of Population Health,

NYU School of Medicine, New York, NY, United States, ⁷Ogo Oluwa Hospital,

Bacita, Nigeria, ⁸Hygeia Community Health Care, Hygeia HMO, Lagos,

Nigeria, ⁹Department of Community Health, Lagos University Teaching

Hospital, Lagos, Nigeria, ¹⁰Amsterdam Institute for Advanced Labour

Studies, University of Amsterdam, Amsterdam, Netherlands

11:30 a.m.

2113

EVALUATION OF ANTIMICROBIAL PRESCRIBING PATTERNS AT A REFERRAL HOSPITAL IN RURAL TANZANIA

Matthew S. Haldeman¹, Antony Nsojo², Megan Seddon³, Anthony Sangare², Peter Kishimbo², Davance Mwosomola², Jeff Hall¹, Mark Shaffer¹, Gabrielle Furguele³, P. Brandon Bookstaver³

¹University of South Carolina School of Medicine, Columbia, SC, United

States, ²Mbeya Zonal Referral Hospital, Mbeya, United Republic of Tanzania,

³University of South Carolina College of Pharmacy, Columbia, SC, United

States

11:45 a.m.

2114

ACCESS TO QUALITY CARE FOR PNEUMONIA, DIARRHEA, AND MALARIA AMONG CHILDREN UNDER FIVE IN RURAL MALI

Emily Treleaven¹, Jenny Liu², Eric Schatzkin², Caroline Whidden³, Nancy Padian⁴, Souleymane Cissouma⁵, Beydi Cisse³, Yacouba Samake³, Youssouf Keita³, Djoumé Diakite³, Mohamed Traore³, Naimatou Kone³, Kassoum Kayentao⁶, Ari Johnson³

¹University of Michigan, Ann Arbor, MI, United States, ²University of

California San Francisco, San Francisco, CA, United States, ³Muso, Bamako,

Mali, ⁴University of California Berkeley, Berkeley, CA, United States,

⁵Ministry of Health, Bamako, Mali, ⁶Malaria Research and Training Center,

Bamako, Mali

Thursday, November 1, Noon

ASTMH 67th Annual Meeting Adjourns

See you next year at the Gaylord National Convention Center in National Harbor, Maryland (adjacent to Washington, DC)!

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The number(s) following each individual's name indicates the session number.

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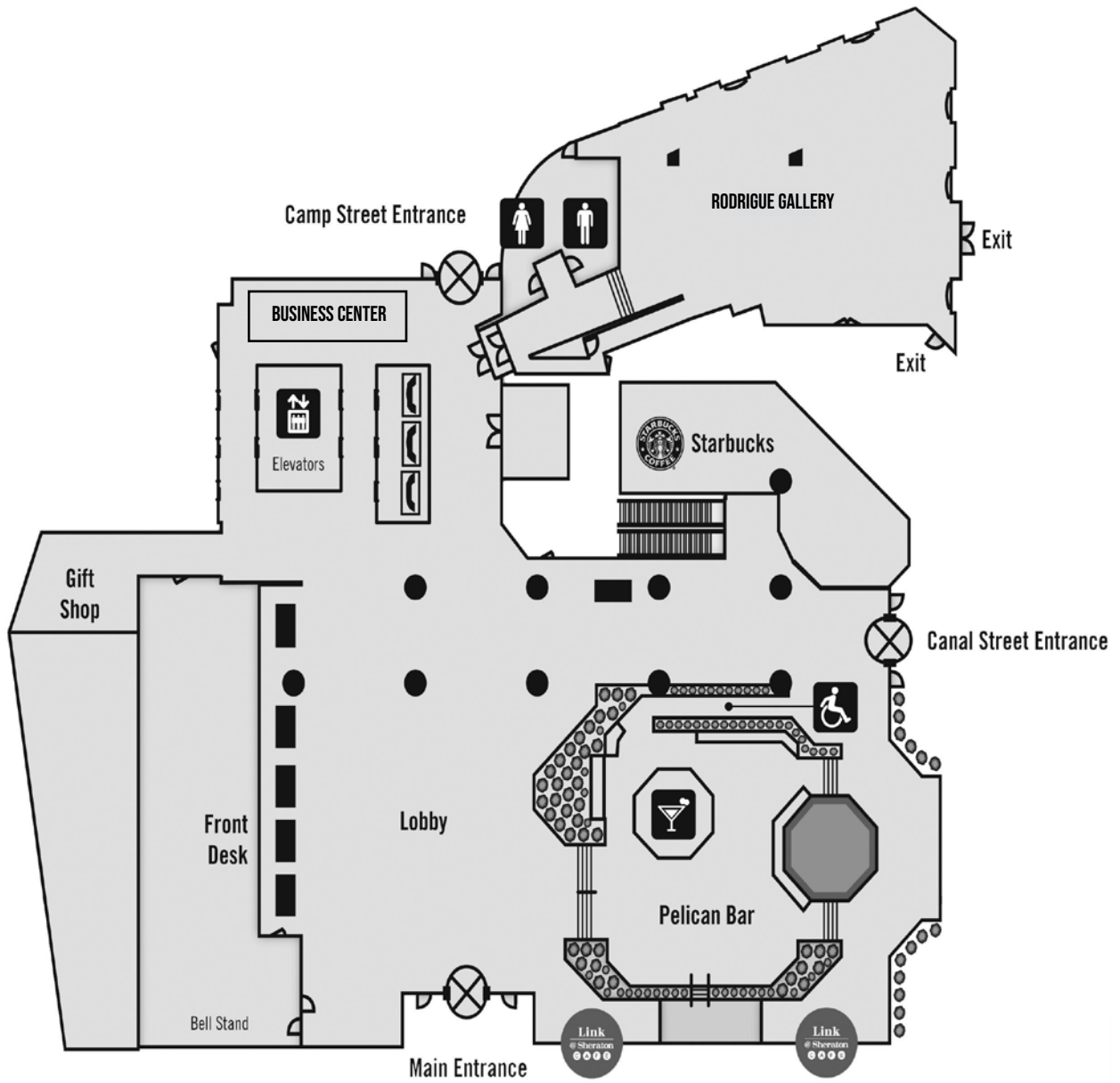
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Sheraton New Orleans Hotel

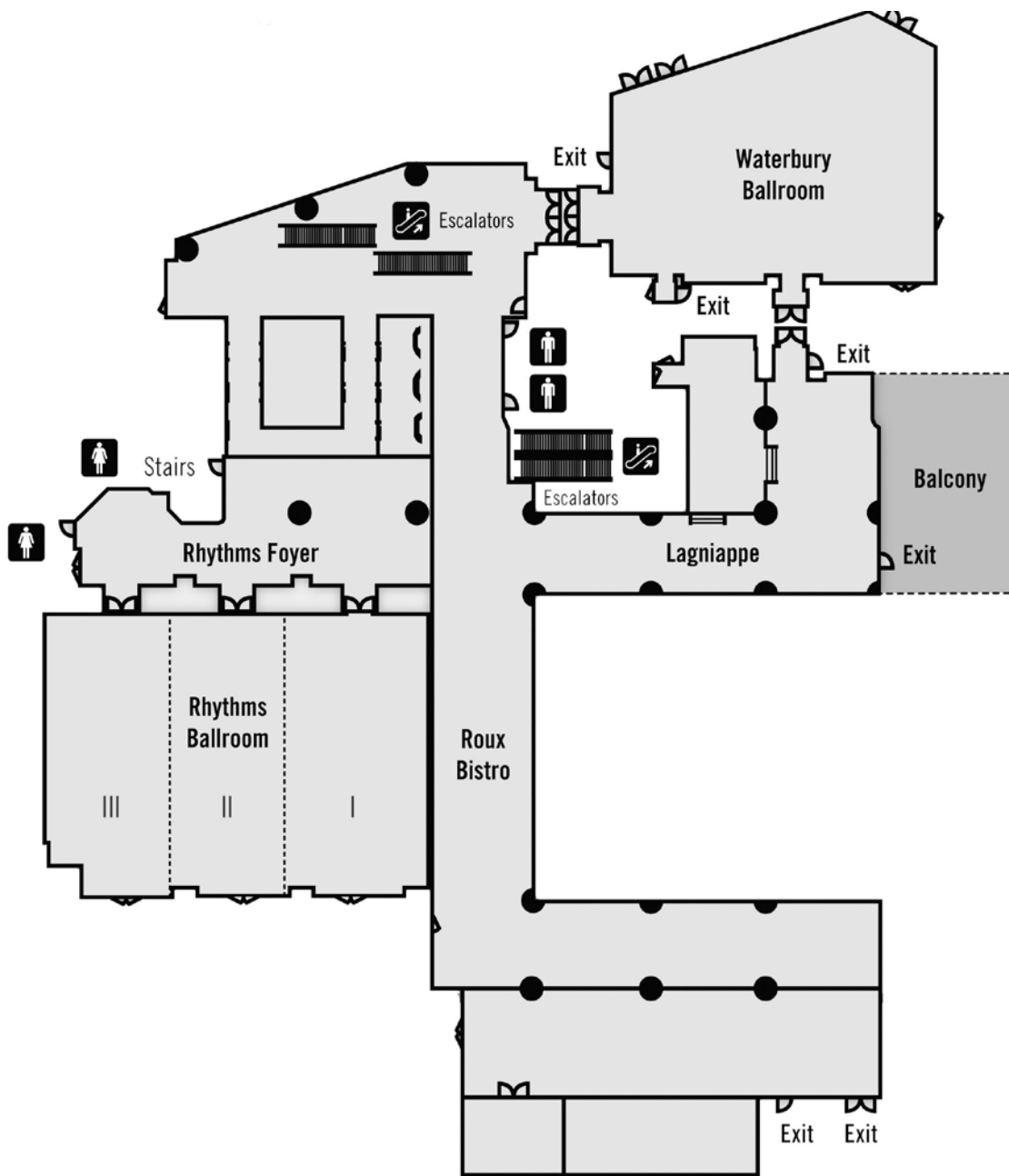
Lobby Level/First Floor



Meeting Room

Rodrigue Gallery

Second Floor



Meeting Rooms

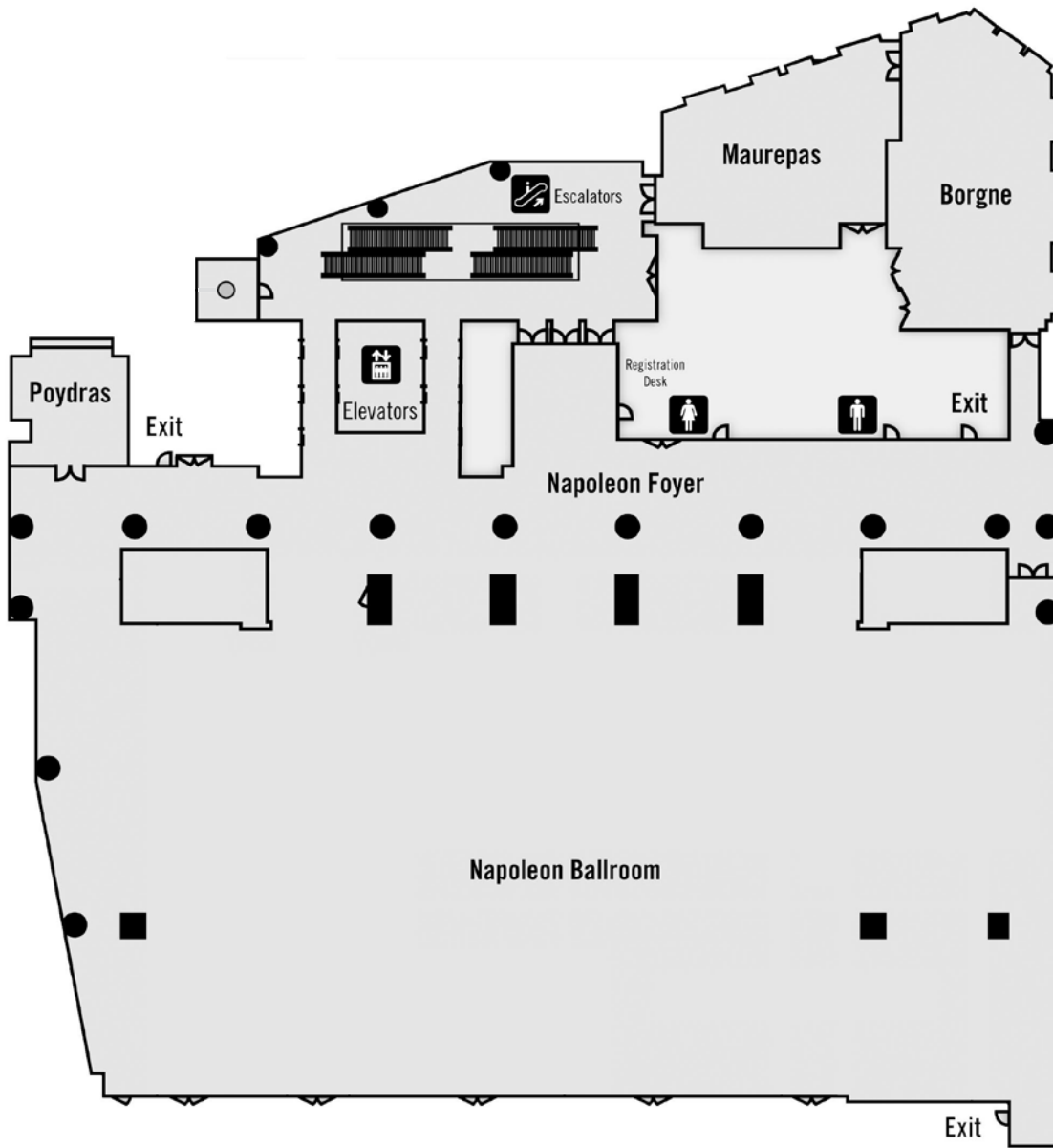
Lagniappe (TropStop Student Lounge)

Rhythms

Waterbury

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Third Floor



Meeting Rooms

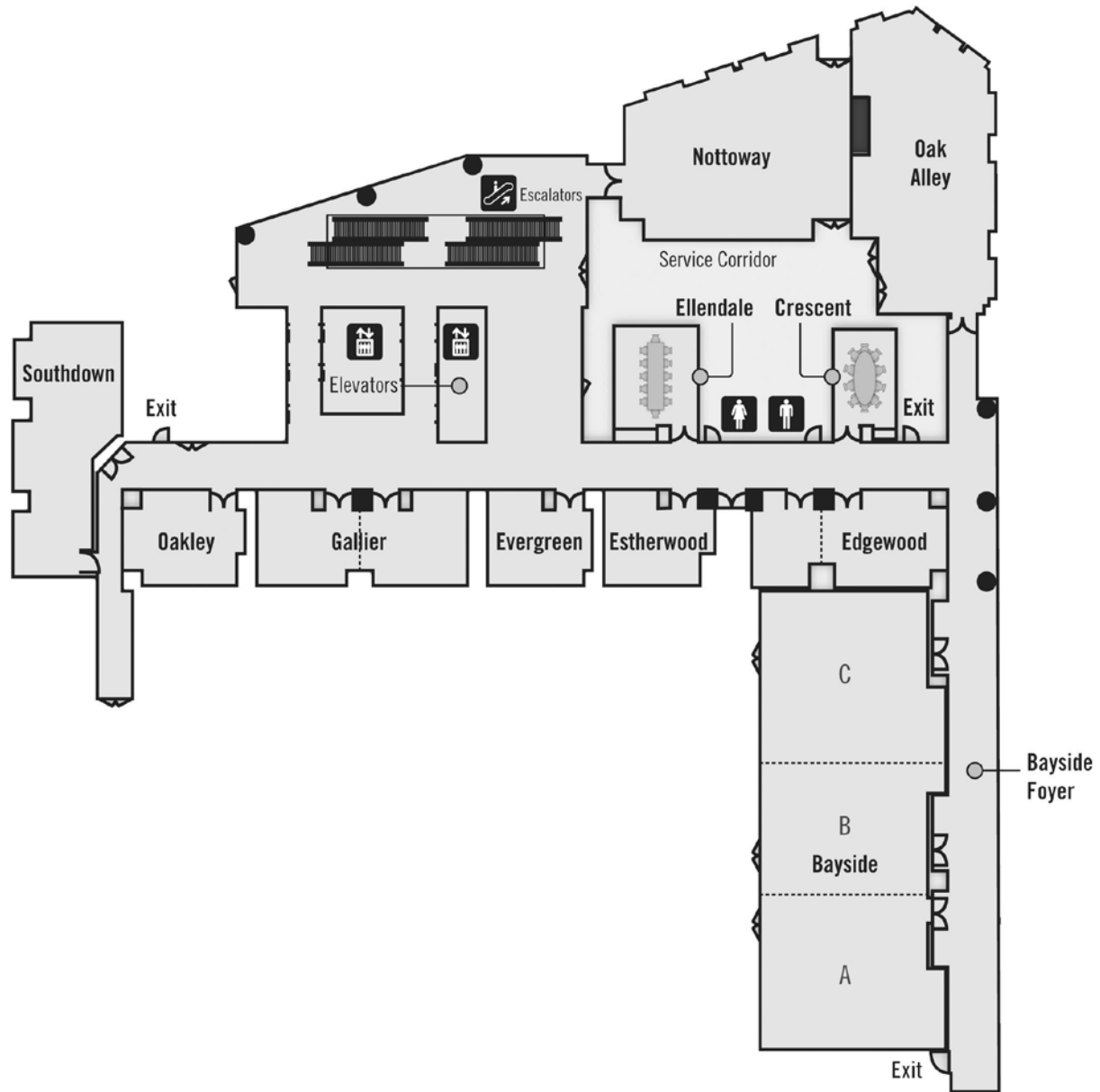
Maurepas (Speaker Ready Room)

Napoleon Ballroom (Exhibit Hall)

Poydras

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Fourth Floor

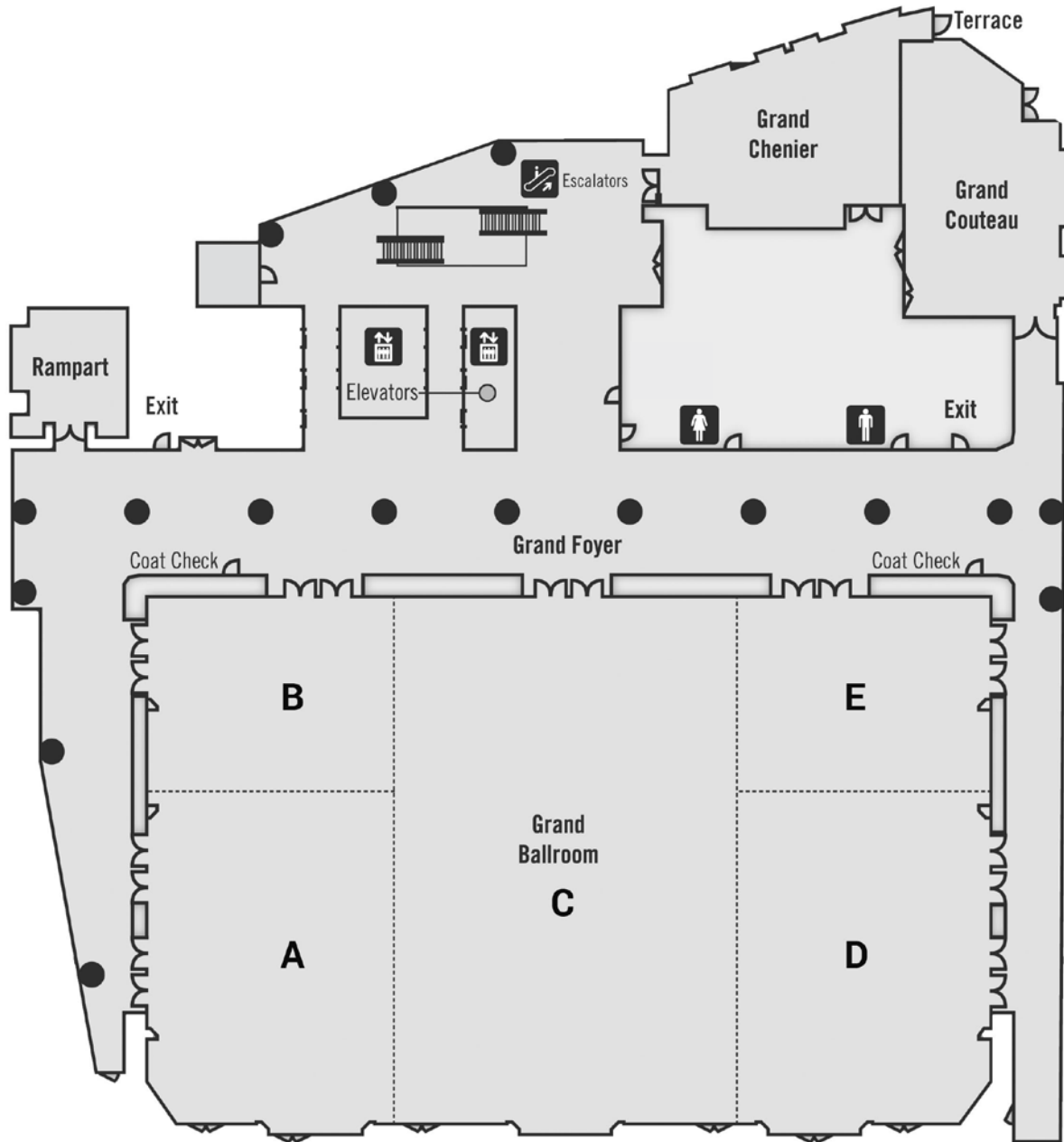


Meeting Rooms

- | | |
|------------|-----------|
| Bayside A | Evergreen |
| Bayside B | Gallier A |
| Bayside C | Gallier B |
| Crescent | Nottoway |
| Edgewood A | Oak Alley |
| Edgewood B | Oakley |
| Ellendale | |
| Estherwood | |

Sheraton New Orleans Hotel

Fifth Floor

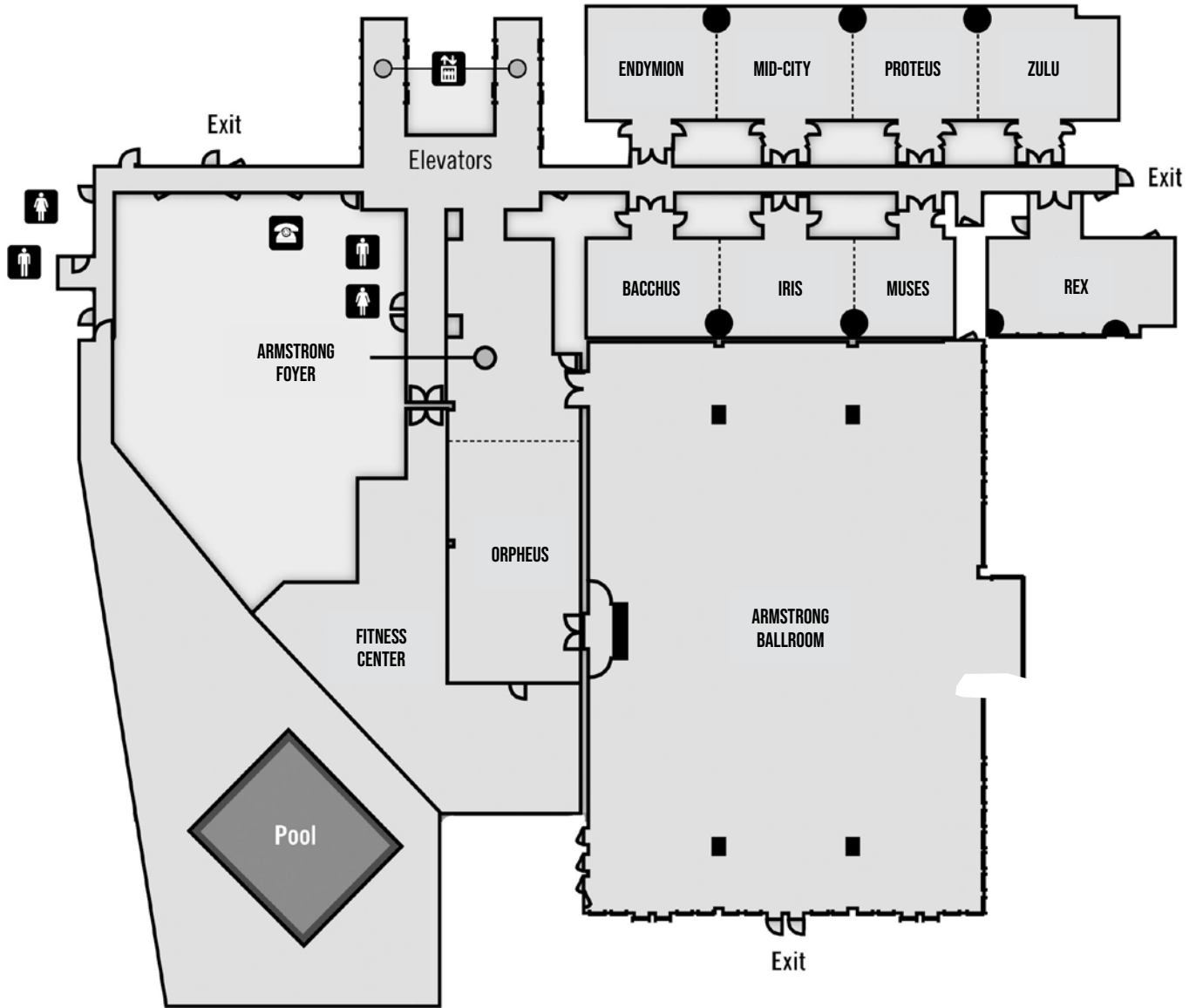


Meeting Rooms

- Grand Ballroom A
- Grand Ballroom B
- Grand Ballroom C
- Grand Ballroom D
- Grand Ballroom E
- Grand Chenier
- Grand Couteau
- Rampart

Sheraton New Orleans Hotel

Eighth Floor

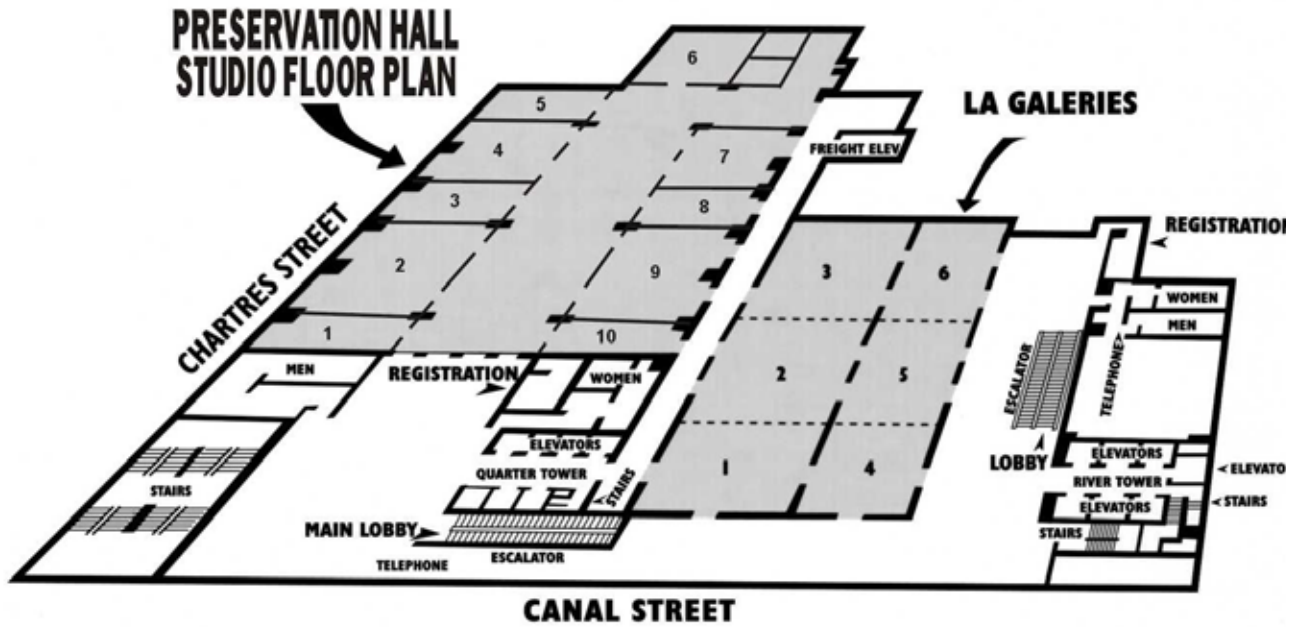


Meeting Rooms

- | | |
|---------------------------------|---------|
| Armstrong Ballroom | Orpheus |
| Bacchus | Proteus |
| Endymion | Rex |
| Iris | Zulu |
| Mid-City (Meeting Sign-Up Room) | |
| Muses (Meeting Sign-Up Room) | |

New Orleans Marriott Hotel

Second Floor

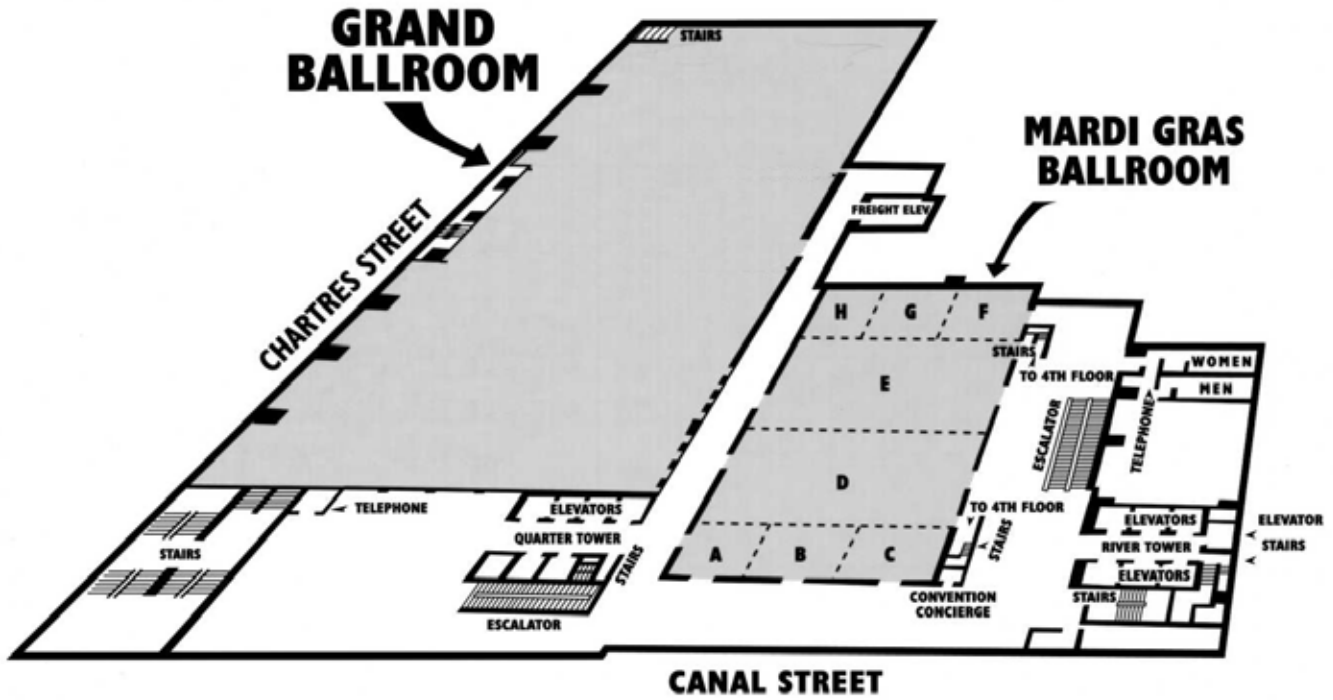


Meeting Rooms

- La Galerie Rooms 1-6
- Preservation Hall Studios 1-5
- Preservation Hall (Registration)

New Orleans Marriott Hotel

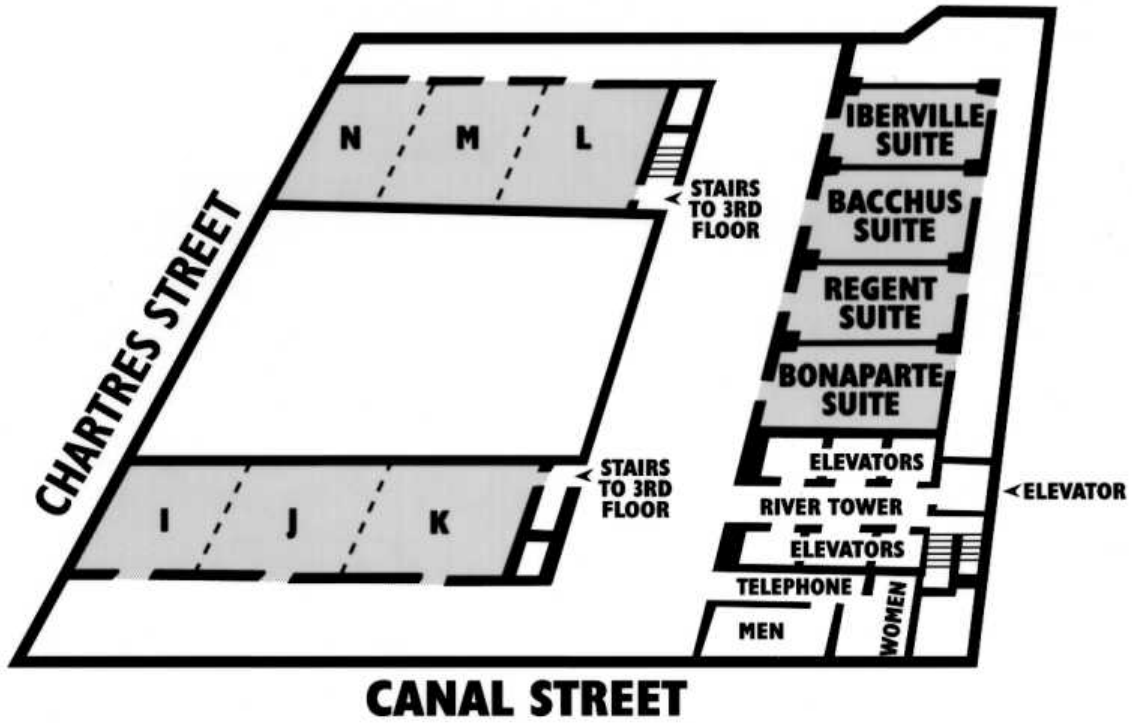
Third Floor



Meeting Rooms

- Grand Ballroom (Poster Hall)
- Mardi Gras Ballroom ABC (Speaker Ready Room)
- Mardi Gras Ballroom D
- Mardi Gras Ballroom EFGH

Fourth Floor



Meeting Rooms

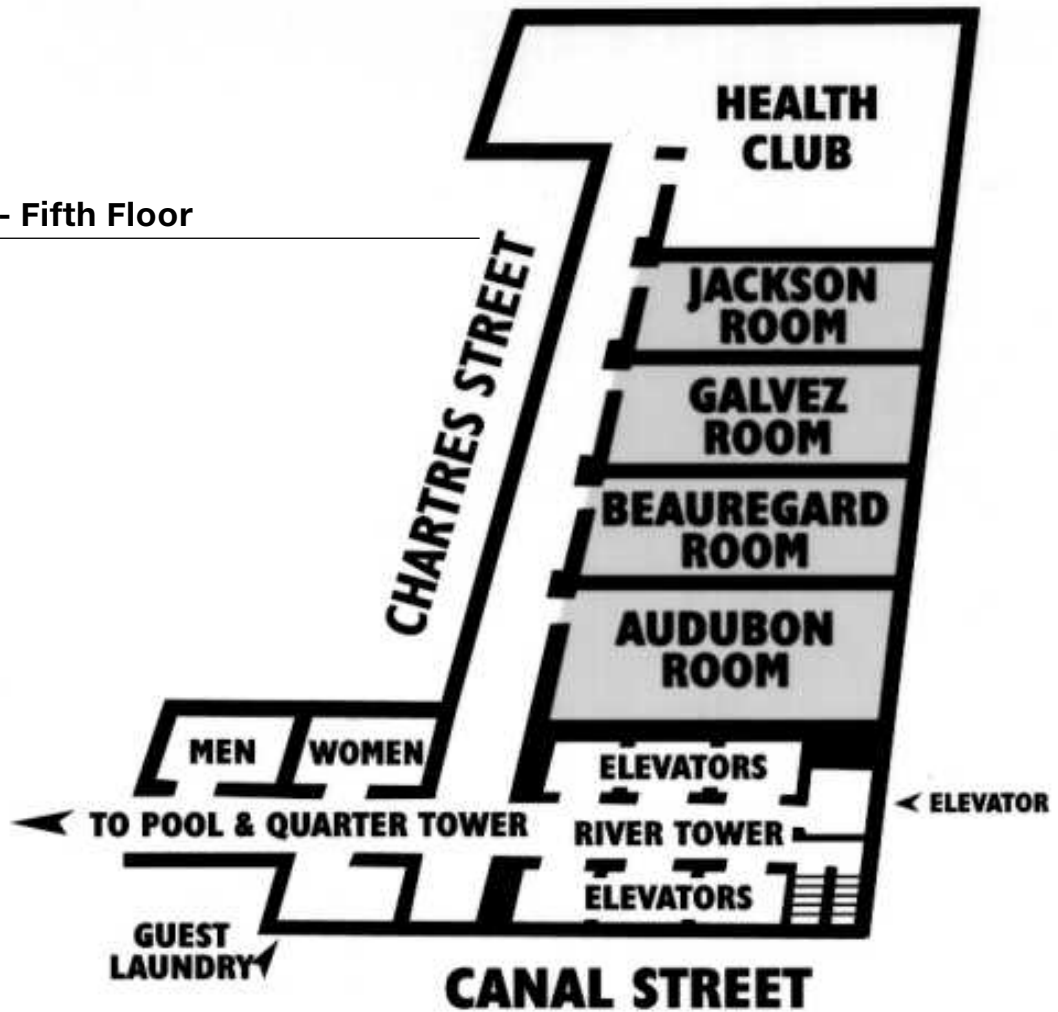
- Bacchus
- Balcony IJK
- Balcony LMN
- Bonaparte
- Iberville
- Regent

New Orleans Marriott Hotel

Fifth Floor and 41st Floor

Meeting Rooms - Fifth Floor

- Audubon (Press Room)
- Beauregard
- Galvez
- Jackson



Meeting Rooms - 41st Floor

- Lafayette
- Napoleon
- Riverview I
- Riverview II
- Riverview Pre-Function
- St. Charles

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