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

Rachel Lange
SUNY at Albany School of Public Health, Albany, NY, United States

Teresia Njoroge
Indiana University, Indianapolis, IN, United States

Winter Okoth
Rutgers, State University of New Jersey, New Brunswick, NJ, United States

Claudia Rohr
Medical College of Wisconsin, Milwaukee, WI, United States

Daniel Sprague
Medical University of South Carolina, Charleston, SC, United States

Hannah Steinberg
University of Illinois Chicago, Chicago, IL, United States

Akilah Stewart
Indiana University School of Medicine, South Bend, IN, United States

Hendrik Sy
Montefiore Medical Center/Albert Einstein College of Medicine, Bronx, NY, United States

Camila C. Tompkins
Arizona State University, Tempe, AZ, United States

Sponsored Symposium

Professor Dominic Kwiatkowksi - Science and Legacy

Sponsored by the Bill & Melinda Gates Foundation

Convention Center - Room 388/389 (3rd Floor)
Friday, November 15, 6:15 p.m. - 8 p.m.

See page 55 for information.

Saturday, November 16

Registration

Convention Center - Lobby J (1st Floor)
Saturday, November 16, 7 a.m. - 5 p.m.

Speaker Ready Room (Closed 1 p.m. - 2 p.m.)

Convention Center - Room 387 (3rd Floor)
Saturday, November 16, 7 a.m. - 5 p.m.

TropStop -Student/Trainee Lounge

Convention Center - Room 346/347 (3rd Floor)
Saturday, November 16, 7 a.m. - 5 p.m.

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

Hilton – Norwich Room and Windsor Room (3rd Floor)
Saturday, November 16, 7 a.m. - 7 p.m.

Nursing Mothers Room

Convention Center – Office I120 and Office J121 (1st Floor)
Saturday, November 16, 7 a.m. - 7 p.m.

Prayer Room

Convention Center - Room 342 (3rd Floor)
Saturday, November 16, 7 a.m. - 7 p.m.

ASTMH Presidents Meeting

Convention Center - Room 399 (3rd Floor)
Saturday, November 16, 7 a.m. - 8 a.m.

Diploma Course Certification Committee Meeting

Hilton - Marlborough B (2nd Floor)
Saturday, November 16, 7 a.m. - 8 a.m.

Scientific Program Committee Meeting

Convention Center - Room 397/398/399 (3rd Floor)
Saturday, November 16, 7 a.m. - 8 a.m.

Press Room

Convention Center - Room 340 (3rd Floor)
Saturday, November 16, 7:45 a.m. - 5 p.m.

New Orleans Tour: A Walk through the History of New Orleans and Intersections with Tropical Medicine and Public Health

Limited to attendees who signed up at Tulane Exhibit Booth
Saturday, November 16, 8 a.m. - 10 a.m.

The city of New Orleans is a landscape imprinted with the waves of epidemics that in response produced the first school of public health and first school of tropical medicine in the United States. New Orleans' culture and its geography shaped these epidemics and the epidemics in turn shaped the city's culture and economy. Stop by the Tulane booth in the Exhibit Hall to sign up for a walk to see some key sites of the city, the yellow fever mortuary chapel, the birth places of American music, the slave market, the front door of the French Quarter and the Mississippi River's edge which evokes the physical and social contexts that brought yellow fever, cholera, and malaria to the city.

LIVE STREAMING

Symposium 106

Unprecedented Dengue Outbreaks in the Americas and Exemplary Responses to the Growing Challenge

Convention Center - Hall I-2 (1st Floor)
Saturday, November 16, 8 a.m. - 9:45 a.m.

Dengue is the most common arboviral disease globally, with reported case numbers increasing ten-fold from 2000-2019 and burden predicted to continue growing. Dengue epidemics pose a serious challenge in endemic countries, where case numbers can rapidly escalate and overwhelm health systems. Early disease detection through epidemiological surveillance and laboratory testing, as well as appropriate clinical management capacity, can improve response and reduce the risk of death but efforts are often limited. In the Americas region, >4.5 million cases and >2,200 preventable deaths were reported in 2023, the highest number on record. Enhancing countries' epidemiologic and laboratory workforce and using data modernization to facilitate information dissemination at the national and subnational level is key to strengthening surveillance and promoting more timely and effective responses to dengue transmission. This symposium will call attention to the growing dengue trends and unprecedented outbreaks in the Americas, the efforts to strengthen arbovirus surveillance and innovative approaches implemented by countries to face the growing threat. The symposium will include five presentations. The first talk will describe a health information platform for the Americas (PLISA) developed by the Pan-American Health Organization (PAHO) with the objective of strengthening regional arbovirus surveillance through improvements in data quality and analytics. The second talk will be on dengue in Brazil and the country's success in preventing dengue deaths. Brazil has long been a focal point in the battle against dengue fever, accounting for more than 75% of dengue cases in the region. This talk will highlight Brazil's remarkable success in preventing dengue-related deaths, despite facing challenges such as the 2023 epidemic. The third talk will be on seeing dengue in unusual places at unusual times in Peru and will explore the evolving landscape of dengue transmission. The next talk will describe how climate is influencing dengue trends, from a modeling approach. Using sophisticated modeling approaches, experts will elucidate how changes in temperature and other environmental variables have influenced dengue trends over the past decade. We will close the symposium by describing the emergence of new genotypes and dengue lineages in the Americas. By unraveling the genetic diversity of dengue viruses, attendees will gain valuable insights into the dynamics of dengue transmission and the potential implications for vaccine development and control strategies. #ClimateChange #EmergingDiseaseThreats #Epidemiology #InfectiousDisease #Modeling #Prevention

CHAIR

Gabriela Paz Bailey
Centers for Disease Control and Prevention (CDC), San Juan, PR, United States

Thais dos Santos
Pan American Health Organization (PAHO), Washington, DC, United States

8 a.m.
INTRODUCTION

8:10 a.m.
DENGUE TRENDS IN THE AMERICAS, PLISA AND THE BENEFITS OF A TAILORED SURVEILLANCE APPROACH
Thai Dos Santos
Pan American Health Organization (PAHO), Washinton, DC, United States

8:30 a.m.
DENGUE IN BRAZIL AND THE COUNTRY'S IN SUCCESS PREVENTING DENGUE DEATHS
Livia Carla Vinhal Frutuoso
Ministerio de Salud de Brasil, Brasilia, Brazil

8:50 a.m.
SEEING DENGUE IN UNUSUAL PLACES AT UNUSUAL TIMES IN PERU
César V. Munayco
General Direction of Epidemiology, Lima, Peru

9:10 a.m.
HOW IS CLIMATE INFLUENCING DENGUE TRENDS, A MODELING APPROACH
Rachel Lowe
Barcelona Supercomputing Center (BSC), Barcelona, Spain

EDU-CATION CONTENT

Symposium 107

CDC Yellow Book Travel Medicine Update

Convention Center - Room 343/344 (3rd Floor)
Saturday, November 16, 8 a.m. - 9:45 a.m.

The CDC Yellow Book Health Information for International Travel is published every two years as a resource for health professionals providing care to international travelers. The CDC Yellow Book compiles the US government's most current travel health guidelines, including pre-travel vaccine recommendations, destination-specific health advice, and easy-to-reference maps, tables, and charts. The first presentation will feature the Yellow

Book editor-in-chief, who will discuss recent changes and updates to the field of travel medicine. Next, three CDC-based subject matter experts will each review and provide updates about an important topic in travel medicine: leishmaniasis, vaccines for Japanese encephalitis and other travel-related arboviral diseases, and typhoid and paratyphoid fever. #Prevention #EmergingDiseaseThreats #InfectiousDisease

CHAIR

Eric S. Halsey
CDC, Atlanta, GA, United States

Rebecca J. Chancey
CDC, Atlanta, GA, United States

8 a.m.
INTRODUCTION

8:10 a.m.
CDC TRAVEL MEDICINE UPDATE

Eric S. Halsey
Centers for Disease Control and Prevention, Atlanta, GA, United States

8:35 a.m.
LEISHMANIASIS: REVIEW AND UPDATE

Rebecca J. Chancey
Centers for Disease Control and Prevention, Atlanta, GA, United States

9 a.m.
JAPANESE ENCEPHALITIS VACCINE AND OTHER ARBOVIRAL VACCINES: REVIEW AND UPDATE

Susan Hills
Centers for Disease Control and Prevention, Fort Collins, CO, United States

9:25 a.m.
TYPHOID AND PARATYPHOID FEVER: REVIEW AND UPDATE

Louise C. Francois Watkins
Centers for Disease Control and Prevention, Atlanta, GA, United States

Scientific Session 108

Global Health: Improved Health Care Service Delivery and Health Systems Strengthening

Convention Center - Room 345 (3rd Floor)
Saturday, November 16, 8 a.m. - 9:45 a.m.

#ChildHealth #PopulationSurveillance #Elimination

CHAIR

Sajid Bashir Soofi
Aga Khan University, Karachi, Pakistan

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

8 a.m. 7639

INNOVATING MALARIA PROGRAM COMPLIANCE FOR SCALABILITY USING AUTOMATION AND AI

Elizabeth Kathure
Maisha Meds, Kisumu, Kenya

8:15 a.m. 7640

STRENGTHENING THE FRONTLINE DURING PUBLIC HEALTH EMERGENCIES: THE ROLE OF INSTITUTIONAL AND SOCIAL SUPPORT FOR HEALTHCARE WORKERS IN LOW-INCOME SETTINGS

Ifeolu John David
University of Michigan, Ann Arbor, MI, United States

8:30 a.m. 7641

COMPARING IMPLEMENTATION OUTCOMES AFTER AZITHROMYCIN MASS DRUG ADMINISTRATION TO CHILDREN 1-11 VS 1-59 MONTHS OLD FOR CHILD SURVIVAL IN A CLUSTER-RANDOMIZED TRIAL IN NIGER

Ahmed M. Arzinka[1], Ramatou Maliki[1], Abdou Amza[2], Karamba Alio[1], Nasser Galo[1], Bawa Aichatou[1], Diallo Beidi[1], Laminou Maliki Haroun[1], Farissatou Oumarou[1], Elodie Lebas[3], Brittany Peterson[3], Carolyn Brandt[3], Emily Colby[3], William Nguyen[3], Zijun Liu[3], Benjamin F. Arnold[3], Thomas L. Lietman[3], Meagan C. Fitzpatrick[4], Kieran O'Brien[3]
[1]Centre de Recherche et Interventions en Santé Publique, Birni N'Gaoure, Niger, [2]Programme Nationale de Santé Oculaire, Niamey, Niger, [3]Francis I. Proctor Foundation, University of California, San Francisco, San Francisco, CA, United States, [4]Center for Vaccine Development and Global Health, University of Maryland School of Medicine, Baltimore, MD, United States

8:45 a.m. 7642

IMPROVED ACCESS TO COMMUNITY-LEVEL DATA IN MADAGASCAR'S NATIONAL HEALTH INFORMATION SYSTEM FOLLOWING SUPPORT TO DISTRICT HEALTH TEAMS, 2019 - 2023

Elgiraud Ramarosaiky[1], Elmard Rabotovaosolo[1], Cedric Yambabariye[1], Aishling Thurow[2], Maya Gershtenson[2], Serge Raharison[1], Laurent Kapesa[3], Solofo Razakamiadana[3], Anna Bowen[4], Lova Avotra Ralijaona[3], Azzah Al-rashid[5], Solange Razakandretsa[6]
[1]ACCESS Program, Management Sciences for Health, Antananarivo, Madagascar, [2]Management Sciences for Health, United States, Arlington, VA, United States, [3]U.S. President's Malaria Initiative, United States Agency for International Development, Antananarivo, Madagascar, [4]U.S. President's Malaria Initiative, U.S. Centers for Disease Control and Prevention, Antananarivo, Madagascar, [5]United States Agency for International Development, Antananarivo, Madagascar, [6]Ministry of Public Health, Antananarivo, Madagascar

9 a.m. 7643

ROUTINE CHILDHOOD IMMUNIZATION COVERAGE AMONGST HOSPITALIZED CHILDREN: A QUALITY IMPROVEMENT INITIATIVE

Pierre-Philippe Piché-Renaud, Caitlyn Hui, Adria Rose, Louise Ing, Jessica Florio, Aalia Jahurali, Elahe Karimi-Shahrbabak, Shaun K. Morris
The Hospital for Sick Children, Toronto, ON, Canada

9:15 a.m. 7644

REPRODUCIBILITY OF A SMARTPHONE-BASED VISUAL ACUITY TEST (PEEK ACUITY) IN PERUVIAN SCHOOLCHILDREN

Evelyn del Rosario Munayco Pantoja[1], Jeremy Keenan[2], Andres Lescano[1]
[1]Emerge, Emerging Diseases and Climate Change Research Unit, School of Public Health and Administration, Universidad Peruana Cayetano Heredia, Lima, Peru, [2]University of California, San Francisco, CA, United States

9:30 a.m. 7645

CRITICAL REFLECTIONS ON COSTING PUBLIC HEALTH INTERVENTIONS IN RESOURCE-CONSTRAINED IMPLEMENTATION SETTINGS: CONSIDERATIONS AND RECOMMENDATIONS

Yesim Tozan[1], Tyler Y. Headley[2], Sooyoung Kim[3], Ariadna Capasso[4], Joshua Kiyingi[5], Vincent Ssentumbwe[5], Josephine Nabayinda[5], Flavia Namuwonge[5], Edward Nsubuga[5], Rashida Namirembe[6], Proscovia Nabunya[5], Ozge Sensoy Bahar[5], Larissa Jennings Mayo-Wilson[7], Susan S. Witte[8], Fred M. Ssewamala[5]
[1]New York University School of Global Public Health, Department of Global and Environmental Health, New York, NY, United States, [2]New York University Abu Dhabi, Abu Dhabi, United Arab Emirates, [3]New York University School of Global Public Health, Department of Public Health Policy and Management, New York, NY, United States, [4]New York University School of Global Public Health, Department of Social and Behavioral Sciences, New York, NY, United States, [5]Brown School, Washington University in St. Louis, Saint Louis, MN, United States, [6]International Center for Child Health and Development, Brown School, Washington University in Saint Louis, Saint Louis, MN, United States, [7]School of Global Public Health, University of North Carolina, Chapel Hill, NC, United States, [8]Columbia University School of Social Work, New York, NY, United States

Symposium 109

Socio-Ecological Approaches to Mitigating Risk for Tick-Borne Diseases

Convention Center - Room 352 (3rd Floor)
Saturday, November 16, 8 a.m. - 9:45 a.m.

Zoonotic diseases are inherently eco-social processes where risk is maximized by a convergence of high hazard (abundance of the pathogen/vector), human behavior driving exposure, and compound vulnerabilities. While this framework is often used to address zoonotic emergence of directly-transmitted viruses, application to tick-borne zoonoses has lagged. Tick-borne disease 'risk' is often measured simply as the density of infected ticks in the environment or the distribution of (underreported) case counts. It is imperative that research shifts toward One Health surveillance and intervention strategies to curb the continuous increase in incidence of tick-borne diseases, with more than 400K cases a year of Lyme disease alone in North America. We present research on novel surveillance and intervention frameworks and methods to understand and model tick-borne disease dynamics in a One Health perspective. Because tick-borne diseases occur at the intersection of human health, wildlife, land use and natural resource management, there are particular challenges to risk mitigation, adaptation, prevention and control. Research presented here tackle these challenges using integrated approaches to risk modeling/mapping including multi-criteria decision analysis and participatory mapping; spatially explicit modeling of human movement and exposure behavior including the uptake and impact of preventative behaviors; collaborative modeling and policy games; and choice experiments to understand willingness to pay for different tick control approaches on private and publicly owned land. All researchers highlight the importance to identify operational tick control strategies and health promotion adapted to diverse eco-social contexts and under conditions of high uncertainty, to maximize the impact of limited resources at the nexus of human and environmental health. #EcologicalStudies #EmergingDiseaseThreats #InfectiousDisease #Modeling #SocialScience

CHAIR
Maria A. Diuk-Wasser
Columbia University, New York, NY, United States

Jean Tsao
Michigan State University, East Lansing, MI, United States

8 a.m.
INTRODUCTION

8:10 a.m.
BRINGING BACK THE HUMAN DIMENSION IN TICK-BORNE DISEASES RISK ASSESSMENT AND MANAGEMENT

Catherine Bouchard
Public Health Agency of Canada, National Microbiology Laboratory and University of Montreal, Montreal, QC, Canada

8:30 a.m.
PREFERENCE HETEROGENEITY FOR TICK CONTROL STRATEGIES UNDER CONDITIONS OF SCIENTIFIC UNCERTAINTY

Allie Gardner
University of Maine, Orono, ME, United States

8:50 a.m.
STAKEHOLDER INVOLVEMENT IN FOREST MANAGEMENT PRACTICES TARGETING LYME DISEASE PREVENTION

Andres M. Urcuqui Bustamante
University of Illinois, Chicago, IL, United States

9:10 a.m.
REVEALING RISKY ENVIRONMENTS: MODELING HUMAN-TICK ENCOUNTERS USING A SMARTPHONE APPLICATION AND AGENT-BASED MODELS IN URBAN LANDSCAPES

Pilar Fernandez
Washington State University, Pullman, WA, United States

9:30 a.m.
EVER-SHIFTING RISK: EXPLORING WHERE, HOW, AND WHY PEOPLE ARE EXPOSED TO TICK-BORNE PATHOGENS ACROSS URBAN GRADIENTS

Maria A. Diuk-Wasser
Columbia University, New York, NY, United States

Symposium 110

Public Health Under Threat - A Protracted Sociopolitical Crisis in Haiti

Convention Center - Room 353 (3rd Floor)
Saturday, November 16, 8 a.m. - 9:45 a.m.

Haiti had achieved many important advancements in global public health over the past two decades - excellent HIV program, important work on filariasis elimination, reduction in malaria, and control of cholera for a two-year period after a long and impactful cholera outbreak. Many of these programs offered to serve as models for public health progress in a challenging environment, even despite a major earthquake in 2010 and other external shocks. However, since 2019 a protracted socio-political crisis in the country has crippled many health care and preventive health services. The culmination of this in many ways is expressed in the re-emergence of cholera in 2022 after 2 years of quiescence

with almost 80,000 cases reported since Oct 2022. The impact of the multi-faceted sociopolitical crisis - which predated Covid19 pandemic - has been devastating to health. This symposium seeks to i) share data, ii) discuss progress (despite the challenges) and setbacks (because of the challenges) to both infectious and non-communicable disease control and prevention in Haiti and to iii) foster exchange with panelists, ASTMH members/annual meeting attendees on generalizable approaches and solutions. We will bring experts on healthcare and public health from Haiti, complemented by speakers from CDC Atlanta and Pan American Health Organization (both CDC and PAHO reps have lived experience in Haiti) to present, with co-moderators. Presentations will focus on the epidemiology of disease in Haiti (infectious diseases - cholera, diphtheria, covid19, and non-infectious diseases - cardiovascular disease, diabetes) and program interventions and outcomes during the conflict/crisis. Participants will hear from Haitians working to support healthcare delivery, public health programs and research and from public health officials from PAHO and CDC. #EmergingDiseaseThreats #Epidemiology #FieldStudies #InfectiousDisease #PopulationSurveillance

CHAIR

Louise Ivers
Harvard Global Health Institute, Cambridge, MA, United States

Ralph Ternier
Zanmi Lasante, Port-au-Prince, Haiti

8 a.m.
INTRODUCTION

8:10 a.m.
HIV PROGRAMS IN HAITI - SUCCESS THREATENED BY SOCIOPOLITICAL CRISIS
Vanessa Rouzier
GHESKIO, Port-au-Prince, Haiti

8:35 a.m.
INFECTIOUS DISEASES OUTBREAKS AND RESPONSE 2020-2024 - CHOLERA, DIPTHERIA, COVID19
Katilla Pierre
Haiti Ministry of Health, Port-au-Prince, Haiti

8:50 a.m.
PRIORITY INFECTIOUS DISEASES OUTBREAKS IN HAITI 2010-2024
Michael Melchior
Centers for Disease Control and Prevention, Atlanta, GA, United States

9:05 a.m.
PUBLIC HEALTH IN HAITI - CHOLERA AND THE IMPORTANCE OF HAITI FOR REGIONAL HEALTH OF THE AMERICAS
Mauricio Cerpa
Pan American Health Organization, Cartegena, Colombia

Scientific Session 111

Bacteriology: Other Bacterial Infections

Convention Center - Room 354/355 (3rd Floor)
Saturday, November 16, 8 a.m. - 9:45 a.m.

This session does not carry CME credit.

#Diagnostics #PopulationSurveillance #Pathogenesis #Epidemiology #InfectiousDisease

CHAIR

Joseph M. Vinetz
Yale School of Medicine, New Haven, CT, United States

Liya Sesay Getachew
Emory University, Atlanta, GA, United States

8 a.m. **7646**

FROM MAPPING TO NEAR TRACHOMA ELIMINATION IN UNDER A DECADE: RESULTS FROM TRACHOMA PREVALENCE SURVEYS IN COTE D'IVOIRE FROM 2015-2023

N'goran N. Dje[1], Adam D. Mama[1], Bovari H. Anoma[1], **Ange E. Aba**[2], Virginie Ettiegne-Traore[3], Boubacar M. Dicko[4], Konan Nguessan[5], Regina H. N'goran[1], Laurence AM Dje[1], Landry T. N'guessan[1], Victor B. Yepri[1], Emma Harding-Esch[6], Clara R. Burgert-Brucker[7], Sarah Boyd[8], Ana Bakhtiari[8], Cristina Jiminez[9], Michaela Kelly[9], Paul Courtright[10], Anthony W. Solomon[11], Stephanie L. Palmer[2]
[1]Programme National de Lutte contre les Maladies Tropicales Négligées à Chimiothérapie Préventive, Abidjan, Côte D'Ivoire, [2]FHI 360, Washington, DC, United States, [3]FHI 360 Cote d'Ivoire, Abidjan, Côte D'Ivoire, [4]Sightsavers, Abidjan, Côte D'Ivoire, [5]FHI 360, Sightsavers, Abidjan, Côte D'Ivoire, [6]Clinical Research Department, London School of Hygiene & Tropical Medicine, London, United Kingdom, [7]RTI International, Washington, DC, United States, [8]International Trachoma Initiative, Decatur, GA, United States, [9]Sightsavers, Haywards Heath, United Kingdom, [10]University of Cape Town, Cape Town, South Africa, [11]Department of Control of Neglected Tropical Diseases, World Health Organization, Geneva, Switzerland

8:15 a.m. **7647**

CHARACTERIZING THE BURDEN OF SCRUB TYPHUS IN NEPALESE CHILDREN: A NOVEL SCHOOL-BASED SEROSURVEILLANCE APPROACH

Shiva R. Naga[1], Sabin Bikram Shahi[1], Sarira Goshain[1], Mamata Maharjan[1], Nishan Katuwal[1], Rajeev Shrestha[1], Jason R. Andrews[2], Dipesh Tamrakar[1], Kristen Aiemjoy[3]
[1]Dhulikhel Hospital, Kathmandu University Hosptial, Kavrepalanchowk, Nepal, [2]Stanford University School of Medicine, California, CA, United States, [3]University of California Davis School of Medicine, California, CA, United States

8:30 a.m. **7648**

THE LEPTOSPIRA-SECRETED EXOTOXIN THAT MEDIATES LEPTOSPIROSIS PATHOGENESIS

Joseph M. Vinetz, Reetika Chaurasia, Jordan Pober, Richard Pierce
Yale School of Medicinee, New Haven, CT, United States

8:45 a.m. **7649**

MENINGITIS SCREENING IN YOUNG INFANTS BASED ON A NOVEL NON-INVASIVE TRANSFONTANELLAR DEVICE: INITIAL PERFORMANCE RESULTS

Sara Ajanovic Andelic[1], Beatrice Jobst[2], Javier Jiménez[2], Rita Quesada[2], Fabiao Santos[2], Francesc Carandell[2], Manuela Lopez-Azorín[3], Eva Valverde[4], Marta Ybarra[4], M. Carmen Bravo[4], Paula Petrone[1], Hassan Sial[1], David Muñoz[5], Thais Agut[5], Barbara Salas[5], Nuria Carreras[5], Ana Alarcón[6], Martín Iriondo[5], Carles Luaces[5], Muhammad Sidat[7], Mastalina Zandamela[8], Paula Rodrigues[9], Dulce Graça[9], Sebastiao Ngovene[9], Justina Bramugy[8], Anelsio Cossa[8], Campos Mucasse[8], W. Chris Buck[10], Alberto Ibáñez[11], Montserrat Parrilla[11], Luis Elvira[12], Cristina Calvo[13], Adelina Pellicer[4], Fernando Cabañas[3], Quique Bassat[1]

[1]Barcelona Institute for Global Health (ISGlobal), Barcelona, Spain, [2]Kriba, Barcelona, Spain, [3]Quiron Salud Madrid, Madrid, Spain, [4]Hospital La Paz Institute for Health Research, Madrid, Spain, [5]Hospital Universitari Sant Joan de Déu, Barcelona, Spain, [6]Hospital La Paz Institute for Health Research, Barcelona, Spain, [7]Universidade Eduardo Mondlane, Mapuo, Mozambique, [8]Centro de Investigação em Saúde de Manhiça (CISM), Manhiça, Mozambique, [9]Hospital Central de Maputo, Maputo, Mozambique, [10]University of California Los Angeles David Geffen School of Medicine, Los Angeles, CA, United States, [11]Instituto de Tecnologías Físicas y de la Información (CSIC), Madrid, Spain, [12]Instituto de Tecnologías Físicas y de la Información (CSIC), Marid, Spain, [13]La Paz University Hospital, Madrid, Spain

9 a.m. 7650

GAPS BETWEEN INFECTIOUS AGENTS DETECTED VS ATTRIBUTED IN THE CAUSAL CHAIN OF MORTALITY AMONG STILLBIRTHS AND NEONATAL DEATHS IN BANGLADESH

Arpita Shyama Deb[1], Zahidul Islam[1], Afruna Rahman[1], Afsana Afrin[1], Mohammad Zahid Hossain[1], Shammi Akter[1], Kazi Munisul Islam[1], Shams El Arifeen[1], Mustafizur Rahman[1], Emily S. Gurley[2], Muntasir Alam[1]
[1]icddr,b, Dhaka, Bangladesh, [2]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

9:15 a.m. 7651

IMASOY: A MULTI-CENTRE, RANDOMIZED, CONTROLLED, NON-INFERIORITY TRIAL OF 10-DAY CIPROFLOXACIN ALONE VS. 3-DAY AMINOGLYCOSIDE FOLLOWED BY 7-DAY CIPROFLOXACIN IN MADAGASCAR

Rindra Vatosoa Randremanana[1], Mihaja Raberahona[2], Josephine Bourner[3], Minoarisoa Vatosoa Rajerison[1], Ravaka Vatosoa Randriamparany[1], Tsinjo Vatosoa Rasoanaivo[1], Lisy Hanitra Razananaivo[1], Gabriella Zadonirina[1], Theodora Mayouya-Gamana[1], Reziky Tiandraza Mangahasimbola[1], Tansy Edwards[4], Elise Pesonel[3], Rivonitina Andry Rakotoarivelo[5], Mamy Jean de Dieu Randria[2], Peter W. Horby[3], **Piero L. Olliaro**[3]
[1]Institut Pasteur de Madagascar, Antananarivo, Madagascar, [2]CHU Joseph Raseta Befelatanana, Antananarivo, Madagascar, [3]University of Oxford, Oxford, United Kingdom, [4]London School of Hygiene & Tropical Medicine, London, United Kingdom, [5]CHU Tambohobe, Fianarantsoa, Madagascar

9:30 a.m. 7652

ASSOCIATION OF PARASITIC COINFECTION AND WATER, SANITATION, AND HYGIENE (WASH) WITH CLINICAL CASES OF LEPROSY IN ADDIS ABABA ETHIOPIA

Liya Sisay Getachew[1], Elleni Zeleke[2], Lawrence Dela Cruz[1], Aemon Fissha[3], Hatem Mohamed[1], Yosef Wubshet[4], Ytbarek Gebremedhin[3], Biruk Debebe[3], Shimelis Nigusse[3], Kidist Bobosha[2], Jessica K. Fairley[1]
[1]Emory University, Atlanta, GA, United States, [2]Armaur Hansen Research Institute, Addis Ababa, Ethiopia, [3]All Africa Leprosy Rehabilitation and Training Center (ALERT), Addis Ababa, Ethiopia, [4]Addis Ababa University, Addis Ababa, Ethiopia

Scientific Session 112

American Committee of Molecular Cellular and Immunoparasitology (ACMCIP): Parasite Cellular Immunology

Convention Center - Room 356 (3rd Floor)
Saturday, November 16, 8 a.m. - 9:45 a.m.

Supported with funding from the Burroughs Wellcome Fund

#InfectiousDisease #CellBiology #Immunology #HostResponse #Pathogenesis

CHAIR
Pedro Gazzinelli-Guimaraes
George Washington University, Washington DC, United States

Sarah Ewald
University of Virginia, Charlottesville, VA, United States

8 a.m. 8437

GENE-EDITING IN STRONGYLOIDES RATTI REVEALS THE NATURE OF HELMINTH SPECIFIC T CELLS

Fungai Musaigwa[1], Olufemi Akinkuotu[1], Hannah Dobson[2], Annabel Ferguson[1], Adriana Stephenson[1], Ulrich Femoe[1], Li-Yin Hung[1], Parvathi Annamalai[1], Juan Inclan Rico[1], Heather Rossi[1], De'Broski R. Herbert[1]
[1]Department of Pathobiology, School of Veterinary Medicine, University of Pennsylvania, Philadelphia, PA, United States, [2]Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, United States

8:15 a.m. 8438

MRGPRA3 NEURONS DRIVE CUTANEOUS IMMUNITY AGAINST HELMINTHS THROUGH SELECTIVE CONTROL OF MYELOID CYTOKINES

Juan Inclan Rico, Camila M. Napuri, Li-Yin Hung, De'Broski R. Herbert
University of Pennsylvania, Philadelphia, PA, United States

8:30 a.m. 7653

THE BALANCE BETWEEN GASDERMIN D AND STING SIGNALING SHAPES THE SEVERITY OF SCHISTOSOME IMMUNOPATHOLOGY

Parisa Kalantari[1], Ilana Shecter[2], Jacob Hopkins[2], Yoelkys Morales[2], Bijan Harandi[2], shruti Sharma[2], Miguel J. Stadecker[2]
[1]Pennsylvania State University, University Park, PA, United States, [2]Tufts University School of Medicine,, Boston, MA, United States

(ACMCIP Abstract)

8:45 a.m. 7654

INOS IS NECESSARY FOR GBP-MEDIATED *T. GONDII* CLEARANCE IN MURINE MACROPHAGES VIA VACUOLE NITRATION AND INTRAVACUOLAR NETWORK COLLAPSE

Sarah Ewald
University of Virginia, Charllottesville, VA, United States

(ACMCIP Abstract)

9 a.m. 7655

ACTIVITY OF A FILARIAL ASNRS ON INTERLEUKIN 8 G PROTEIN COUPLED RECEPTORS

Michael A. Kron, Hailey A. Bock, John McCorvy
Medical College of Wisconsin, Milwaukee, WI, United States

9:15 a.m. 7656

MONOCYTE-ASTROCYTE NETWORKS REGULATE CYTOKINE AND MATRIX METALLOPROTEINASE SECRETION INDUCED BY NEUROCYSTICERCOSIS ANTIGENS

Luz M. Toribio Salazar[1], Deborah Chong[2], Javier A. Bustos[1], Hector Garcia[1], Jon S. Friedland[2]
[1]UNIVERSIDAD PERUANA CAYETANO HEREDIA, Lima, Peru, [2]St George's University of London, London, United Kingdom

(ACMCIP Abstract)

9:30 a.m. 7657

EOSINOPHIL ACTIVATION AND RECRUITMENT IN THE CSF INFLAMMATORY CASCADE IN UNTREATED SUBARACHNOID NEUROCYSTICERCOSIS

Emily E. Miltenberger, Janitzio Guzmán, Thomas B. Nutman, Elise M. O'Connell
National Institute of Allergy and Infectious Diseases, Laboratory of Parasitic Diseases, Bethesda, MD, United States

(ACMCIP Abstract)

Symposium 113

Innovative Tools for the Control of NTDs. How to Achieve Impact Through Access Beyond Drug Donations

Convention Center - Room 357 (3rd Floor)
Saturday, November 16, 8 a.m. - 9:45 a.m.

This session does not carry CME credit.

The efforts for the control and elimination of Neglected Tropical Diseases (NTDs) have evolved with an overall success towards control and elimination goals with the available and often imperfect tools in terms of the diagnostic and therapeutic performance. Uneven progress has prompted the identification of areas in need of improvements through investments in new candidates to further advance the achievements of Mass Drug Administration (MDA) campaigns in endemic countries. Innovations that have completed pivotal trials and have completed or are going through the final stages of regulatory approval will be discussed in this Symposium; they include a pediatric formulation of praziquantel, an oro-dispersible tablet that co-formulates albendazole and ivermectin and the FDA approved moxidectin. The opportunities created by these drugs for facilitating treatment of pediatric populations, overcoming the poor response of Trichuris trichiura to benzimidazole regimens, incorporating Strongyloides stercoralis to Soil transmitted helminth (STH) control activities and redefining goals for onchocerciasis elimination, also highlight the need for a renewed discussion and agreements to generate access to target populations with these innovations that will be outside the current donation paradigm on which the WHO strategy has been built. The new WHO Roadmap for NTDs emphasizes country ownership as part of the goals established by WHO for the control of NTDs which includes country investment in NTD programs however this support is limited and may not include the use of new drugs that will need to be procured. Further discussion and preparation with the donor community and endemic countries is required so that new products can be quickly scaled up to achieve program goals and achieve the 2030 targets. Data on safety and efficacy of pediatric praziquantel, albendazole/ivermectin co-formulation and moxidectin will be shown with focus on the trials that supported the submission to regulatory agencies for the particular indications, complemented with pharmacokinetic data, implementations scenarios, potential new indications and remaining challenges for the control of schistosomiasis, STH and onchocerciasis. Special attention to these innovations in pediatric populations and in the opportunities for changes in the expectations for disease control and elimination will also be discussed. The session will include a donor panel to discuss the potential, opportunities and barriers to the introduction and scale up of these and other new tools. #Therapeutics; #ClinicalResearch; #Elimination; #FieldStudies; #InfectiousDisease

CHAIR

Alejandro J. Krolewiecki
Mundo Sano, Buenos Aires, Argentina

Stella Kepha
KEMRI, Nairobi, Kenya

8 a.m.
INTRODUCTION

8:10 a.m.
WHEN MORE IS NEEDED: MOXIDECTIN A NEW TOOL TO COMPLEMENT IVERMECTIN'S ACHIEVEMENTS TO ELIMINATE ONCHOCERCIASIS

Sally Kinrade
Medicines Development for Global Health, Melbourne, Australia

8:30 a.m.
PEDIATRIC PRAZIQUANTEL. INSIGHTS FROM A PIVOTAL TRIAL FOR THE TREATMENT OF SCHISTOSOMIASIS.

Maurice R. Odiere
KEMRI, Kisumu, Kenya

8:45 a.m.
AN ALBENDAZOLE-IVERMECTIN TABLET CO-FORMULATION. SAFETY, EFFICACY AND THE REGULATORY PATH AGAINST STH BEYOND THE PIVOTAL TRIAL

Alejandro J. Krolewiecki
Mundo Sano, Ciudad Autónoma de Buenos Aires, Argentina

9 a.m.
PANEL DISCUSSION WITH DONORS AND STAKEHOLDERS ON THE ACCESS OF NEW TOOLS FOR THE CONTROL OF NTDS

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

PANELISTS

Christy L. Hanson
Bill & Melinda Gates Foundation, Seattle, WA, United States

Hayato Urabe
GHIT Fund, Tokyo, Japan

Carol Karutu
The END Fund, Nairobi, Kenya

Emily Wainwright
U.S. Agency for International Development, Washington, DC, United States

Scientific Session 114

Nematodes

Convention Center - Room 383/384/385 (3rd Floor)
Saturday, November 16, 8 a.m. - 9:45 a.m.

#Prevention #Epidemiology #InfectiousDisease #ClinicalResearch

CHAIR

Ayman A. El-Badry
Cairo University, Cairo, Egypt

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

8 a.m. 7658

SPECTRAL FLOW CYTOMETRY ANALYSIS OF FECAL MICROBIOTA FROM *TRICHURIS TRICHIURA* INFECTED HUMANS AND NON-HUMAN PRIMATES

Harris R. Droghini[1], Octavio Mondragon Palomino[1], Phil J. Cooper[2], Jason M. Brenchley[1], Thomas B. Nutman[1], P'ng Loke[1]
[1]National Institutes of Health, Bethesda, MD, United States, [2]Universidad Internacional del Ecuador, Quito, Ecuador

(ACMCIP Abstract)

8:15 a.m. 7659

ASCARIASIS, TRICHURIASIS AND INTESTINAL HOOKWORM INFECTIONS - CLINICAL PRESENTATION AND ASSOCIATION WITH INTERNATIONAL TRAVEL

Elena Marie Crecelius[1], Patrick Hickey[2], Alison Helfrich[2]
[1]Walter Reed National Military Medical Center, Bethesda, MD, United States, [2]Uniformed Services University of the Health Sciences, Bethesda, MD, United States

(ACMCIP Abstract)

8:30 a.m. 7660

NOVEL RECOMBINANT ANTIGEN-BASED LATERAL FLOW TESTS FOR THE DETECTION OF *STRONGYLOIDES STERCORALIS* INFECTION AND CONCORDANCE WITH STRONGY *DETECT*™ ELISAS

Robertine Lontuo Fogang, Thomas Nutman
National Institutes of Health, Rockville, MD, United States

(ACMCIP Abstract)

8:45 a.m. 7661

PREVALENCE AND INTENSITY OF SOIL-TRANSMITTED HELMINTH INFECTIONS ACROSS RIVERS STATE NIGERIA FOLLOWING SEVEN YEARS OF DEWORMING-EVIDENCE FROM PROGRAM EVALUATION

Temitope Michael Ogunbi[1], Ifeanyiwa Chime[1], Jerry Mbaka[1], Kate McCracken[2], Mark Minnery[2], Ayoola Adegbile[1], Anam Abdulla[2], Rodgers Curtis[2], Ima Umah[3], Fatai Oyediran[3], Toochi Ohaji[1], Ima Chima[1]
[1]Evidence Action, Abuja, Nigeria, [2]Evidence Action, Washington DC, WA, United States, [3]Nigeria Federal Ministry of Health, Abuja, Nigeria

(ACMCIP Abstract)

9 a.m. 7662

TH1, TH2, AND TH17 CYTOKINE RESPONSE IN IMMUNOSUPPRESSED PATIENTS INFECTED WITH *STRONGYLOIDES STERCORALIS* IN NORTH INDIA

Abhishek Mewara[1], Nikita Sharma[1], Vignesh Pandiarajan[1], Gaurav Prakash[1], Varun Dhir[1], Sahajal Dhooria[1], Simran Kaur[1], Surjit Singh[1], Ritesh Agarwal[1], Richard Bradbury[2]
[1]Postgraduate Institute of Medical Education and Research, Chandigarh, India, [2]School of Public Health and Tropical Medicine, James Cook University, Townsville, Australia

(ACMCIP Abstract)

9:15 a.m. 7663

THE IMPACT OF INTEGRATING DEWORMING WITH EYE HEALTH IN SCHOOL TO IMPROVE THE LIVES OF SCHOOL AGE CHILDREN AND TECHERS: A PILOT PROJECT FOR THE CONTROL OF SOIL TRANSMITTED (STH) HELMINTHIASIS AND VISION IMPROVEMENT IN IN HIGHLY ENDEMIC COUNTIES FOR STH IN LIBERIA 2018-2022

Anthony Kerkula K. Bettee[1], Mulbah Howard[2], Precious Z. Cooper ZC Bettee[1]
[1]Ministry of Health, Monrovia, Liberia, [2]Sightsavers, Monrovia, Liberia

(ACMCIP Abstract)

9:30 a.m. 7664

HELMINTHS, MALARIA CO- INFECTION AND ASSOCIATED INDUCEMENT OF ANAEMIA, IRON AND FOLATE DEFICIENCIES IN CHILDREN

Opoku Bempah[1], Kwasi Baako Antwi[2], **Kingsley Badu**[2]
[1]Kumasi Technical University, Kumasi, Ghana, [2]Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

(ACMCIP Abstract)

Symposium 115

Evaluating the Case for Loiasis as a Neglected Tropical Disease

Convention Center - Room 388/389 (3rd Floor)
Saturday, November 16, 8 a.m. - 9:45 a.m.

Loiasis, or infection with the "African eye worm," Loa loa, has long been recognized as a significant clinical problem among infected individuals, but has been underappreciated in the global health community. Increased international attention came to loiasis following serious adverse reactions (including encephalopathy and death) among heavily infected individuals following ivermectin treatment administered as preventive chemotherapy in onchocerciasis (river blindness) and lymphatic filariasis (LF) control programs. Interest in solving the "loiasis problem" as an obstacle to onchocerciasis elimination has led to new clinical and diagnostic tools for loiasis, but to date these have had little effect on the individuals suffering from loiasis in endemic areas. WHO classification as a neglected tropical disease (NTD) may increase awareness of loiasis by the international donors and research communities. There is mounting evidence for previously unappreciated, chronic negative health consequences of loiasis, with neurologic, renal, and cardiovascular detriments, and it is becoming increasingly clear that loiasis meets WHO criteria for classification as a neglected tropical disease. Speakers for this symposium will be loiasis experts that live or have extensively worked in endemic areas. They will review the clinical and public health challenges caused by loiasis, advances in loiasis mapping and diagnostic strategies, and will make recommendations for or against recognition of loiasis as a NTD by WHO. #Elimination #Epidemiology #PopulationSurveillance #Prevention

CHAIR

Philip J. Budge
Washington University in St. Louis, St. Louis, MO, United States

Joseph Kamgno
University of Yaounde, Yaoundé, Cameroon

8 a.m.
INTRODUCTION

8:10 a.m.
BRIEF REVIEW OF EPIDEMIOLOGY, MAPPING, AND EFFECT OF LOIASIS ON NTD ELIMINATION
Hugues Nana-Djuenga
University of Yaoundé 1, Yaoundé, Cameroon

8:30 a.m.
CURRENT AND DEVELOPING DIAGNOSTIC STRATEGIES FOR LOIASIS
Linda Djune-Yemeli
University of Yaoundé 1, Yaoundé, Cameroon

8:45 a.m.
CLINICAL IMPACT OF LOIASIS IN ENDEMIC AREAS
Cédric Chesnais
Institut de Recherche pour le Développement, Montpellier, France

9 a.m.
IMPACT OF LOA LOA INFECTION ON IMMUNOLOGY AND COINFECTION WITH OTHER PATHOGENS
Jean Paul Akue
Interntional Center of Medical Researach, Franceville, Gabon

9:15 a.m.
IMPACT OF *LOA LOA* INFECTION ON IMMUNOLOGY AND COINFECTION WITH OTHER PATHOGENS
Roland Dieki
Parasitologie, Centre International de Recherches Médicales de Franceville (CIRMF), Franceville, Gabon

9:30 a.m.
WHO CRITERIA AND PROCESS FOR NTD DESIGNATION
Didier K. Bakajika
WHO/AFRO, Brazzaville, Republic of the Congo

Symposium 116

Implementing Perennial Malaria Chemoprevention across Africa: Converging to Consensus?

Convention Center - Room 391/392 (3rd Floor)
Saturday, November 16, 8 a.m. - 9:45 a.m.

Perennial malaria chemoprevention (PMC) is the administration of a full treatment course of an antimalarial medicine at predefined intervals, regardless of whether the child is infected with malaria, to prevent illness in moderate to high perennial malaria transmission settings. The goal of PMC is to protect young children by establishing preventive antimalarial drug concentrations in the blood that clear existing infections and prevent new ones during the age of greatest risk of severe malaria. In 2022 the World Health Organization (WHO) expanded its recommendation for Intermittent Preventive Treatment in infants (IPTi) to Perennial Malaria Chemoprevention for "infants and young children at high risk of severe malaria living in areas with moderate-to-high malaria transmission in sub-Saharan Africa". The updated recommendation no longer limits the intervention specifically to infants and reflects the malaria transmission settings in which the intervention should be considered. The recommendation further states that the Expanded Program on Immunization (EPI) platform remains important for delivering PMC, though other methods of delivery can be explored to optimize access to PMC and integration with other health interventions. These changes encouraged National Malaria Programs to consider adding PMC to their national malaria control strategies and provided flexibility in PMC delivery regarding dosing, contact points, and age. Speakers will present findings from 7 countries from across Africa highlighting recent operational research studies and lessons learned from implementation focusing on acceptability, uptake, data management and reporting, and the concomitant roll-out of PMC and the malaria vaccine. The co-chairs will lead a moderated discussion on the key lessons and best practices coming from countries, offering considerations to other countries contemplating implementing PMC. #ChildHealth #FieldStudies #Prevention #InfectiousDisease #Pediatrics

CHAIR
Charlotte E. Eddis
PSI, Abidjan, Côte D'Ivoire

Dorothy Achu
WHO AFRO, Brazzaville, Republic of the Congo

8 a.m.
INTRODUCTION

8:10 a.m.
PIONEERING PMC IN SIERRA LEONE
Augustin Fombah
Ministry of Health, Freetown, Sierra Leone

8:35 a.m.
INTERIM FINDINGS FROM THE PLUS PROJECT EVALUATIONS IN BENIN, CAMEROON, COTE D'IVOIRE AND MOZAMBIQUE
Charlotte E. Eddis
PSI, Abidjan, Côte D'Ivoire

8:50 a.m.
ACCEPTABILITY OF PMC BY CAREGIVERS AND HEALTH WORKERS: EVIDENCE FROM THE DRC
Eric S. Mukomena
National Malaria Control Program, Ministry of Health, Kinshasa, Democratic Republic of the Congo

9:05 a.m.
PMC DATA MANAGEMENT AND REPORTING: THE NIGERIAN EXAMPLE
Godwin Ntadom
National Malaria Elimination Program, Abuja, Nigeria

9:20 a.m.
ROLLING OUT PMC AND THE MALARIA VACCINE CONCOMITANTLY: EXPERIENCE FROM SOA IN CAMEROON
Junior Voundi
National Malaria Control Program, Yaounde, Cameroon

Symposium 117

Improving the Diagnosis and Management of Severe Malaria

Convention Center - Room 393/394 (3rd Floor)
Saturday, November 16, 8 a.m. - 9:45 a.m.

Malaria still kills over half a million children each year. Although vector control, chemoprevention, artemisinin-combination therapies, and better access to treatment have reduced malaria morbidity and mortality, there still are millions of children hospitalized each year because of severe malaria. Severe malarial anemia is a major indication for pediatric blood transfusion in sub-Saharan Africa, representing a substantial drain on the limited transfusion resources. Improving the diagnosis, treatment, and management of patients with suspected severe malaria will have considerable impact in terms of saving lives and optimizing resource allocation in resource-poor settings. In November 2023, the Global Malaria Program at the World Health Organization (WHO) organized a 2-day workshop aiming to update their guidance on severe malaria. In preparation for this workshop, WHO commissioned a systematic review of the published literature since 2014 (the date of the last meeting on severe malaria guidelines), which was carried out by the World Wide Antimalarial Resistance Network coordinated by James Watson. This literature review identified key areas where updates to the current guidance is needed, and also areas where there are important knowledge gaps. During the 2-day workshop, key aspects which needed updating of the WHO Practical Handbook on severe malaria were identified. This led to consensus around pooled analyses of available data which would help inform guideline updates. This symposium will provide an overview of the key findings from the systematic review, changes to the WHO Practical Handbook, as well as presenting important new research findings concerning pre-referral treatment, evidence-based management (notably around transfusion), diagnosis, pathophysiology and adjuvant therapies, and post-discharge management. The symposium will review current consensus on appropriate treatment and management as well as presenting new findings. This will include (i) preliminary results and ongoing studies from a large platform trial of severe malaria in African children; (ii) the utility of a point-of-care diagnostic test for plasma PfHRP2 (more accurate diagnosis of severe malaria); (iii) results from an individual patient data meta-analysis of over 35,000 patients enrolled in large clinical trials to determine optimal prognostic triage algorithms; (iv) updates on the deployment of rectal artesunate suppositories and post-discharge malaria chemoprevention in Africa. The selected talks will summarize key updates and research gaps regarding the diagnosis, treatment and post-discharge management of severe malaria, leaving sufficient time for a moderated discussion on the significance and public health relevance of the findings. #ClinicalResearch #Therapeutics #InfectiousDisease #Pathogenesis

CHAIR

James A. Watson
Oxford University Clinical Research Unit, Ho Chi Minh, Vietnam

Elizabeth George
University College London, London, United Kingdom

8 a.m.
INTRODUCTION

8:10 a.m.
MANAGEMENT OF PATIENTS WITH SEVERE MALARIA AND THE NEED FOR RANDOMIZED TRIALS IN AFRICA
Elizabeth George
University College London, London, United Kingdom

8:35 a.m.
IMPROVING THE DIAGNOSIS AND TRIAGE OF PATIENTS WITH SUSPECTED SEVERE MALARIA
James A. Watson
Oxford University Clinical Research Unit, Ho Chi Minh City, Vietnam

8:50 a.m.
POST-DISCHARGE MALARIA CHEMOPREVENTION: FROM POLICY TO PRACTICE
Kamija Phiri
University of Malawi, Blantyre, Malawi

9:05 a.m.
PRE-REFERRAL TREATMENT FOR SEVERE MALARIA
Nick White
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

9:20 a.m.
PATHOPHYSIOLOGY OF SEVERE MALARIA: UPDATES
Arjen Dondorp
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

Symposium 118

Subarachnoid and Intraventricular Neurocysticercosis: What our Patients have Taught Us

Convention Center - Room 395/396 (3rd Floor)
Saturday, November 16, 8 a.m. - 9:45 a.m.

Neurocysticercosis (NCC) is the most common helminthic infection of the central nervous system caused by the larval stage of the pork tapeworm, Taenia solium. The clinical manifestations are pleomorphic and dependent on location, stage of parasite and burden of disease. Extraparenchymal disease is associated with a high mortality, mainly due to intracranial hypertension, if not managed appropriately. During this symposium experts in the field will share their clinical experience and approach to this complex disease. #HostResponse #InfectiousDisease #Pathogenesis

CHAIR

Christina M. Coyle
Albert Einstein College of Medicine, Bronx, NY, United States

Hector H. Garcia
Universidad Peruana Cayetano Heredia, Lima, Peru

8 a.m.
INTRODUCTION

8:10 a.m.
THE NATURAL HISTORY OF SUBARACHNOID DISEASE: A THIRTY YEAR EXPERIENCE
Theodore E. Nash
National Institutes of Health, Bethesda, MD, United States

8:30 a.m.
ANTIPARASITIC TREATMENT OF SUBARACHNOID DISEASE: WHAT'S THE DATA?
Hector H. Garcia
Universidad Peruana Cayetano Heredia, Lima, Peru

8:50 a.m.
INTRAVENTRICULAR DISEASE: A TRICKY TOPIC
Clinton White
The University of Texas Medical Branch Galveston, Galveston, TX, United States

9:10 a.m.
LESSONS FROM THE BEDSIDE: A PANEL DISCUSSION
Christina M. Coyle
Albert Einstein College of Medicine, Bronx, NY, United States

Exhibit Hall Open

Convention Center - Hall J (1st Floor)
Saturday, November 16, 9:30 a.m. - 10:30 a.m.

Coffee Break

Convention Center - Hall J (1st Floor)
Saturday, November 16, 9:45 a.m. - 10:15 a.m.

Poster Session C Set-Up

Convention Center - Hall I-1 (1st Floor)
Saturday, November 16, 9:45 a.m. - 10:15 a.m.

Poster Session C Viewing

Convention Center - Hall I-1 (1st Floor)
Saturday, November 16, 10:15 a.m. - 11 a.m.

LIVE STREAMING

Plenary Session 119

Plenary Session IV: President's Address

Convention Center - Hall I-2 (1st Floor)
Saturday, November 16, 10:15 a.m. - 11 a.m.

10:15 a.m.
INTRODUCTION
Johanna Daily
Albert Einstein College of Medicine, Bronx, NY, United States

10:30 a.m.
PRESIDENT'S ADDRESS: RENDERING THE FUTURE OF GLOBAL HEALTH AMIDST REVERBERATIONS FROM THE PAST: A CALL TO COMMUNITY

Linnie Golightly, MD
Associate Professor in Medicine, Microbiology and Immunology and Associate Dean of Diversity and Inclusion
Weill Cornell Medicine, New York, NY, United States

Linnie Golightly, MD, is President of the American Society of Tropical Medicine and Hygiene (ASTMH) and an Associate Professor in Medicine, Microbiology and Immunology and Associate Dean of Diversity and Inclusion at Weill Cornell Medicine (WCM). As Associate Dean of Diversity and Inclusion at WCM, she directs programs to enhance community and career pathways and to foster a diverse environment. She previously served as Director of Minority Recruitment for the Harvard Combined Infectious Disease Training Program. Dr. Golightly's research focuses on infectious diseases endemic to low- and middle-income countries (LMIC), with an emphasis on malaria, as well as factors effecting the retention of women and underrepresented minorities, and citizens of LMIC in academic careers. She obtained her infectious disease training at the Harvard Combined Infectious Disease Training Program (Beth Israel Hospital, Brigham & Women's Hospital, and Dana-Farber Cancer Institute) and post-doctoral research training in molecular parasitology at the Harvard School of Public Health. She is active in teaching and training, having served as Infectious Disease Fellowship Program Director, Director of the infectious disease medical school module and the Ben Kean Course in Tropical Medicine at WCM, for which she received a teaching award. She has lectured and trained undergraduates, medical students, and fellows both from the U.S. and abroad, including those from Haiti, Ghana, Brazil, Israel, Qatar, and Europe. She is a member of the National Medical Association's (NMA) Council on International Affairs and has served on several ASTMH committees including the Ben H. Kean Travel Fellowship, the Committee on Global Health, and the Nominating Committee. Raised in the Midwest, she received her Bachelor's degree in Biology from Wayne State University and medical degree from WCM in New York City.

Exhibit Hall Open

Convention Center - Hall J (1st Floor)
Saturday, November 16, 11 a.m. - 12:15 p.m.

Poster Session 120

Poster Session C

Convention Center - Hall I-1 (1st Floor)
Saturday, November 16, 11 a.m. - 12:45 p.m.

Poster Session C Directory

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

7665

EVALUATION OF ACCESSIBILITY TO ELECTRONIC MEDICAL RECORDS FOR CLINICAL RESEARCH IN KAMPHAENG PHET PROVINCE, THAILAND

Soontorn Pinpaiboon[1], Chinanat Puangsaijai[1], Surachai Kaewhiran[1], Rattiya Wannawong[2], Kathryn Anderson[3], Aaron Farmer[2], Darunee Buddhari[2]
[1]Kampaheng Phet hospital, Muang Kamphaeng Phet, Thailand, [2]Department of Virology, WRAIR-AFRIMS, Bangkok, Thailand, [3]SUNY Upstate Medical University, Syracuse, NY, United States

7666

UNDERSTANDING THE SHORTCOMINGS AND GOOD PRACTICES FROM THE ROUTINE DATA QUALITY ASSESSMENT FOR INFORMED PUBLIC HEALTH DECISION-MAKING IN GUINEA IN 2023

Mohamed Saran Conde[1], Fatoumata Battouly Daillo[1], Mamadou Dian Sow[2], Abdoul Karim Nabé[2], Datolo Koné[3], Soua Goumou[1], Elizabeth Fitch[4], Jean Yves Mukamba[5], Agossa Charles Lebon LAWSON[1], Suzanne Van Hulle[6], Abdourahmane Diallo[7], Aissatou Bobo Bah[1], Souleymane Diakité[2], Chrestien Yameni[8], Alioune Camara[7]
[1]Catholic Relief Services, Conakry, Guinea, [2]Office of Strategy and Development of the Ministry of Health, Conakry, Guinea, [3]Research Triangle Institute, Conakry, Guinea, [4]Research Triangle Institute, Baltimore, MD, United States, [5]Catholic Relief Services, Kinshasa, Democratic Republic of the Congo, [6]Catholic Relief Services, Baltimore, MD, United States, [7]National Malaria Control Program, Guinea, Conakry, Guinea, [8]Catholic Relief Services, Dakar, Senegal

7667

MONITORING THE IMPLEMENTATION OF COMMUNITY HEALTH STRATEGY ACTIVITIES IN FOUR HEALTH REGIONS OF GUINEA THROUGH THE COMMUNITY HEALTH WORKERS TRACKER

Soua Gomou[1], **Fatoumata Battouly Diallo**[1], Mohamed Saran Conde[1], Aly louis Kamano[1], Saa Bobo Leno[1], Moriba Haba[1], Lawson Agossa Charles Lebon[1], Abdourahamane Diallo[2], Alioune Camara[2], Jean yves Mukamba[3], Chrestien Yameni[4], felicien Randriamanantenasoa[1], Suzanne Vanhulle[5]
[1]Catholic Relief Services, Conakry, Guinea, [2]National Malaria Control Program, Conakry, Guinea, [3]Catholic Relief Services, Kinshasa, Democratic Republic of the Congo, [4]Catholic Relief Services, Dakar, Senegal, [5]Catholic Relief Services, Baltimore, MD, United States

7668

UNLOCKING SUPPLY CHAIN EFFICIENCY: DEMONSTRATION OF AN OPEN-SOURCE DYNAMIC ROUTE OPTIMIZATION TOOL

Eileen Patten
GHSC-PSM (IBM), Washington, DC, United States

7669

USING THE SUPPLY CHAIN INFORMATION SYSTEM MATURITY MODEL TO IMPROVE SYSTEM CAPABILITY FOR OPERATION

Jean Miller
Chemonics International, Washington DC, DC, United States

7670

ENHANCING THE QUALITY OF MALARIA SURVEILLANCE THROUGH INTERACTIVE DASHBOARD ACROSS BENUE STATE HEALTH FACILITIES, 2023

Iorwuese Hycienth Sesugh[1], Gloria Oyemi Sillo[1], Olayemi Abimbola[2], Justice Adaji[2], Uchenna Nwokenna[2], Uwem Udoh[1], Sule Agatha[1], Abutu Abraham[1], Akawa Terkura[3], Abanyi J. Liambee[4], Rudi Thetard[5], Arja Huestis[5], Thomas Hall[5], Grace Nwankwo[6], Erkwagh Dagba[6], Veronica Momoh[6], Jules Mihigo[6], Chukwu Okoronkwo[7], Nnenna Ogbulafor[7], Godwin Ntadom[7]

[1]United States President's Malaria Initiative for States, Management Sciences for Health, Benue, Nigeria, [2]United States President's Malaria Initiative for States, Management Sciences for Health, Abuja, Nigeria, [3]Ministry of Health and Human Services, Department of Planning, Research and Statistics, Health Management Information Systems, Benue, Nigeria, [4]Ministry of Health and Human Services, State Malaria Elimination Program, Benue, Nigeria, [5]Management Sciences for Health, Arlington, VA, United States, [6]United States Agency for International Development, United States President's Malaria Initiative, Abuja, Nigeria, [7]National Malaria Elimination Programme, Abuja, Nigeria

7671

ESTABLISHING A VIRUS ECOLOGY DATA HUB FOR MODELING VIRUS DISEASE DYNAMICS

Irene K. Akunda[1], David Simons[2], James M. Hassell[3], Joseph Kamau[4], Stephanie N. Seifert[1]

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SYSTEM THINKING IN THE CONTROL AND ELIMINATION OF NEGLECTED TROPICAL DISEASES IN MADAGASCAR

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MODELLING THE EFFECT OF SEASONAL MALARIA CHEMOPREVENTION ON THE TRANSMISSION DYNAMICS OF MALARIA IN ZAMFARA STATE, NORTHWEST NIGERIA

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HPV SCREENING IN LOW-RESOURCE SETTINGS: A COMPARISON OF SELF-COLLECTED VAGINAL SWABS TRANSPORTED WITH AND WITHOUT VIRAL TRANSPORT MEDIUM

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A MULTI-COUNTRY EXAMINATION POLICY AND AGRICULTURAL DETERMINANTS OF SMOKING IN THIRTEEN SUB-SAHARAN COUNTRIES

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NAVIGATING MATERNAL HEALTH CHALLENGES IN BANGLADESH: AN ANALYSIS OF PREGNANCY COMPLICATIONS AND CARE-SEEKING BEHAVIORS USING NATIONALLY REPRESENTATIVE SURVEYS

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EFFECTS OF TIMED AND TARGETED COUNSELLING BY COMMUNITY HEALTH WORKERS ON MATERNAL AND HOUSEHOLD PRACTICES AND PREGNANCY AND NEWBORN OUTCOMES IN RURAL UGANDA

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ENTERIC INFECTIONS, DIARRHEA AND INFLAMMATION IN CHILDREN DURING THE FIRST YEAR OF LIFE IN THE CITY OF EL ALTO IN BOLIVIA

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CLIMATE CHANGE, ECOSYSTEM SERVICES, AND COLLECTIVE ACTION IN THE ENVIRONMENT IN COSTA RICA: COMMUNITY ENGAGEMENT IN MITIGATION AND ADAPTATION

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CO-PRODUCING AN EARLY WARNING PLATFORM TO FORECAST OUTBREAKS OF CLIMATE-SENSITIVE INFECTIOUS DISEASES

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THE BURDEN OF LEPTOSPIROSIS IN PERU, 2006-2022: THE INFLUENCE OF REGION-SPECIFIC METEOROLOGICAL FACTORS AND GENDER-SPECIFIC DISPARITIES IN OUTCOMES

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ASSOCIATIONS BETWEEN ENVIRONMENTAL TEMPERATURE, RAINFALL, STILLBIRTH, AND NEONATAL MORTALITY IN THE DEMOCRATIC REPUBLIC OF THE CONGO

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METABOLIC BASIS OF PYRETHROID RESISTANCE IN *AEDES AEGYPTI*

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EXAMINING THE PROLIFERATION OF *SERRATIA MARCESCENS* IN *ANOPHELES GAMBIAE* MOSQUITOES TOWARDS UNDERSTANDING THEIR ROLE AND MECHANISM IN *PLASMODIUM FALCIPARUM* TRANSMISSION-BLOCKING

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RETENTION OF ADULT MOSQUITO PHENOTYPE FROM CRYOPRESERVED *ANOPHELES STEPHENSI* EGGS FOR SUCCESSFUL GMP PRODUCTION OF SANARIA® PFSPZ CHALLENGE (NF54)

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IMMUNOMETABOLIC CROSSTALK IN *AEDES FLUVIATILIS WOLBACHIA PIPIENTIS* SYMBIOSIS

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TRANSGENIC OVEREXPRESSING VAGO1 RESTRICTS ARBOVIRUS INFECTION IN *AEDES AEGYPTI*

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UNDERSTANDING THE IMPACT OF HOST SPECIES AND SEASONALITY ON THE MOSQUITO MYCOBIOTA AND THE POTENTIAL OF FUNGI AS PARATRANSGENETIC TOOL

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SPATIALLY REFINED ESTIMATES OF THE RISK OF WEST NILE VIRUS

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TREND MALARIA PREVALENCE AND ASSOCIATED RISK FACTORS AMONG SCHOOL CHILDREN IN MAINLAND TANZANIA, BETWEEN 2015 AND 2023; A MULTILEVEL ANALYSIS OF SCHOOL MALARIA AND PARASITE SURVEYS

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Mosquitoes - Molecular Biology, Population Genetics and Genomics

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EXPANDING TOOLBOX FOR ODOR-BASED TSETSE FLY CONTROL IN EAST AFRICA

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SEROPREVALENCE OF DENGUE IN SENEGAL

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EVIDENCE FOR THE DRIVERS OF INFANT DENGUE RISK FROM SURVEILLANCE DATA IN BRAZIL

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MODELING THE ECOLOGICAL AND PUBLIC HEALTH IMPACT OF DENGUE VACCINATION IN AN ENDEMIC SETTING

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A NOVEL MODELLING FRAMEWORK TO SIMULATE THE EFFECTS OF HIV STIGMA ON HIV TRANSMISSION DYNAMICS

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IMPACT OF CHRONIC CHIKUNGUNYA ARTHRALGIA ON QUALITY OF LIFE AND MENTAL HEALTH: A PROSPECTIVE COMMUNITY-BASED COHORT STUDY

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MOLECULAR TYPING OF NON POLIO ENTEROVIRUS ISOLATED FROM STOOL SAMPLES AS PART OF THE EPIDEMIOLOGICAL SURVEILLANCE OF ACUTE FLACCID PARALYSIS IN RD CONGO

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IMPROVING DIAGNOSIS AND MANAGEMENT OF VIRAL INFECTIONS AMONG UGANDAN CHILDREN UNDERGOING CANCER CHEMOTHERAPY THROUGH USE OF NEXT-GENERATION METAGENOMIC SEQUENCING

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SEROPREVALENCE OF SARS-COV-2 AMONG YOUNG ADULTS: A CROSS-SECTIONAL ANALYSIS OF INFECTION AND VACCINATION

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SARS-COV-2 ANTIBODIES SEROPREVALENCE AFTER CORONAVAC IMMUNIZATION IN GUARAMIRANGA, NORTHEAST BRAZIL, 2021-2022

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IMPACTS OF PAVING THE INTEROCEANIC HIGHWAY ON DENGUE IN PERU'S AMAZON BASIN

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SURVEILLANCE OF SARS-COV-2 BASED ON SANGER SEQUENCING OF THE SPIKE GENE ALLOWED THE DETECTION AND TRACKING OF VARIANTS IN BOLIVIA FROM 2020 TO 2023

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Viruses - Field and Ecological Studies of Viruses, Including Surveillance and Spillover Risk and Emergence

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DETECTION OF DENGUE AND METAGENOMIC ANALYSIS OF *AEDES AEGYPTI* VIROME IN KISUMU, KENYA

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UNDERSTANDING HUMAN-ANIMAL-TICK INTERACTION AND RISK FACTORS WHICH LEAD TO THE EXPOSURE TO CRIMEAN CONGO HAEMORRHAGIC FEVER VIRUS (CCHFV) IN UGANDA: A MULTIDISCIPLINARY STUDY

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DEVELOPMENT OF A RT-LAMP ASSAY FOR LA CROSSE VIRUS

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ISOLATION OF LA CROSSE VIRUS FROM *AEDES TRISERIATUS* (DIPTERA: CULICIDAE) IN WESTERN NORTH CAROLINA

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CMV INFECTION AND SHEDDING IN PREGNANT WOMEN, CHILDREN, AND INFANTS IN SIERRA LEONE

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SPATIOTEMPORAL FORECASTING OF NIPAH VIRUS SPILLOVER RISK IN BANGLADESH, 2007-2023

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VIRAL SURVEILLANCE IN CAVE-DWELLING BATS FROM KAPCHORWA DISTRICT IN EASTERN UGANDA REVEALS DETECTION OF MULTIPLE CORONAVIRUSES, PARAMYXOVIRUSES, AND RHABDOVIRUSES

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ROLE OF MULTIPLEXED IMMUNOASSAYS TO DETERMINE IMPACT OF NON-SPECIFIC BINDING ON IMMUNOASSAYS: IMPLICATIONS OF "STICKY SERA" IN DISEASE SEROSURVEILLANCE IN THE DEMOCRATIC REPUBLIC OF THE CONGO

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SEROPOSITIVITY TO BOVINE CORONAVIRUS IN DAIRY WORKERS AND COMMUNITY DWELLERS: RESULTS OF A PILOT STUDY

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EVALUATION OF AMINO ACID DETERMINANTS OF DIFFERENTIAL SERUM NEUTRALIZATION BETWEEN DIVERGENT AND EPIDEMIC DENGUE TYPE 1

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SEROLOGICAL EVIDENCE OF EMERGING HENIPAVIRUSES AND PARAMYXOVIRUSES IN PTEROPODID BATS IN THE PHILIPPINES

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INTERROGATING THE ECOLOGY OF NO-KNOWN VECTOR FLAVIVIRUSES THROUGH *IN VITRO* VALIDATION OF MODEL-BASED HOST-VECTOR-VIRUS PREDICTIONS

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Viruses - Immunology

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PLASMA IGM ANTIBODIES CONTRIBUTE TO VIRUS NEUTRALIZATION IN EARLY IMMUNE RESPONSES TO SECONDARY DENGUE VIRUS INFECTIONS

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INCREASED FREQUENCY OF ANTIGEN-SPECIFIC CD4+ T CELL RESPONSES FOLLOWING VACCINATION WITH ORAL LIVE ATTENUATED POLIO VACCINES

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DISTINCT CELLULAR IMMUNE RESPONSES ARE ASSOCIATED WITH PATHOGENESIS, DISEASE PROGRESSION, AND LATE-RELAPSING HEPATITIS IN YELLOW FEVER PATIENTS

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FLAVIVIRUS ANTIGENIC CARTOGRAPHY OF PREEXISTING NEUTRALIZING ANTIBODIES IN A PEDIATRIC COHORT IN MERIDA, MEXICO, A HYPERENDEMIC AREA FOR ARBOVIRUSES

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CHARACTERIZATION OF NLRP3 INFLAMMASOME ACTIVATION IN HUMAN MONOCYTES AND MACROPHAGES INFECTED WITH OROPOUCHE VIRUS

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VIRUS SPECIFIC T CELL RESPONSES IN A CONTROLLED HUMAN ZIKA CHALLENGE MODEL

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IMPACT OF DENGUE VIRUS INFECTION ON COMPLEMENT ACTIVATION AND REGULATION

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PREMATURE HIGH LEVELS OF ANTIBODY-DEPENDENT COMPLEMENT ACTIVATION IS ASSOCIATED WITH SEVERE DISEASE IN SECONDARY DENV3 INFECTIONS

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ASSESSING THE ANTIBODY RESPONSE AND SOLUBLE MEDIATOR PROFILES INDUCED BY WILD-TYPE AND VACCINE STRAINS OF THE YELLOW FEVER VIRUS: LESSONS FROM THE 2016-2018 OUTBREAK IN BRAZIL

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BREAKTHROUGH INFECTION ENHANCES SARS-COV-2 SPECIFIC T CELL RESPONSES AND GENERATES NOVEL EPITOPE SPECIFICITIES

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DENGUE ADAPTIVE IMMUNE RESPONSES AND HLA DIVERSITY IN A PUERTO RICAN COHORT

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PROTEOMIC DECONVOLUTION OF CIRCULATING ANTIBODY REPERTOIRES ELICITED BY SECONDARY DENV INFECTION

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ANALYZING THE IMMUNOGENICITY PROFILE OF ARIPO-ZIKA

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DESIGNING DENGUE VIRUS 2 (DV2) SUBUNIT VACCINE USING A STRUCTURE-GUIDED APPROACH TO REFOCUS NEUTRALIZING ANTIBODIES (NAB) TO POTENT, QUATERNARY NAB EPITOPES OF DV2

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TOOLS FOR ANALYZING THE IMMUNE RESPONSE TO VIRUS INFECTION AND VACCINES

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Viruses - Vaccine Clinical Trials

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IMMUNOGENICITY OF COVID-19 MRNA, VIRAL VECTOR, AND INACTIVATED VIRUS VACCINES REGIMENS

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ASSESSING THE INFLUENCE OF ASSUMPTIONS ON VACCINE EFFICACY AGAINST ASYMPTOMATIC DENGUE CASES ON IMPACT OF DENGUE VACCINATION STRATEGIES: A MODELING STUDY

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PHASE 1 TRIAL TO MODEL PRIMARY, SECONDARY, AND TERTIARY DENGUE INFECTION USING A MONOVALENT VACCINE

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EVALUATION OF T-CELL RESPONSES TO TETRAVALENT DENGUE VACCINE TAK-003 BY AGE GROUP

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A NON-INFERIORITY TRIAL COMPARING TWO VACCINES (RABIX-VC VS. RABIPUR) FOR RABIES AMONG ADULTS IN DHAKA, BANGLADESH

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BARRIERS AND FACILITATORS OF YELLOW FEVER VACCINE UPTAKE AMONG CHILDREN AGED 12-23 MONTHS IN WEST POKOT SUB-COUNTY, WEST POKOT COUNTY, KENYA

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SAFETY AND TOLERABILITY OF A VSV-BASED LASSA FEVER VACCINE (RVSVΔG-LASV-GPC) IN HEALTHY ADULTS: UPDATES OF A FIRST-IN HUMAN, PLACEBO-CONTROLLED DOSE ESCALATION AND DOSE EXPANSION TRIAL (IAVI C102)

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INFORMING LASSA FEVER VACCINE TRIAL IMPLEMENTATION THROUGH COMMUNITY ENGAGEMENT

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ASSESSING IMMUNOGENICITY OF VACCINES AGAINST FILOVIRUSES: CHALLENGES AND PROSPECTS

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CHIKUNGUNYA: ONGOING DOSE-RESPONSE, SAFETY, AND IMMUNOGENICITY PHASE 2 TRIAL OF SINGLE-DOSE LIVE-ATTENUATED VACCINE (VLA1553) IN CHILDREN AGED 1 TO 11 YEARS

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Malaria - Antimalarial Resistance and Chemotherapy

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Silas Nkansah Yeboah, Mina Ansong, Deborah Clotworthy, Edem Adika, Samira Saiid, Clinton Osei, Emmanuel Amoako, Mona-Liza Sakyi, Ahmed Osumanu, Charles Mensah, Isaiah Debrah, Collins Morang'a, Jersley Chirawurah, Gordon Awandare, Yaw Aniweh, Lucas Amenga-Etego
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ASSESSMENT OF ANTIMALARIAL RESISTANCE AND ASSOCIATED MARKERS IN GAMBIAN *P. FALCIPARUM* CLINICAL ISOLATES

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EX VIVO ANTIMALARIAL DRUG SUSCEPTIBILITIES AND MOLECULAR MARKERS OF DRUG RESISTANCE IN UGANDA

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LUMEFANTRINE PERFORMANCE IN AFRICA - A REVIEW OF LITERATURE

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PFPRELI: A NOVEL MOLECULAR MEDIATOR OF RESISTANCE TO *PLASMODIUM FALCIPARUM* SERINE HYDROLASE INHIBITORS

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THE ADDITIVE VALUE OF PARAMAX-3™ PAN/PV/PF MALARIA RAPID DIAGNOSTIC TEST USE FOR IMPROVING *P. VIVAX* MALARIA DETECTION IN MAEVATANANA, MADAGASCAR

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CONTRIBUTION OF THE OTSS+ SUPERVISION APPROACH IN IMPROVING THE QUALITY OF MICROSCOPIC MALARIA DIAGNOSIS IN CÔTE D'IVOIRE, 2022-2023

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AI-ASSISTED SOFTWARE FOR RAPID AND ACCURATE BLOOD SMEAR ANALYSIS OF RODENT MALARIA MODEL

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PERFORMANCE OF RAPID DIAGNOSTIC TESTS, MICROSCOPY, AND REAL-TIME PCR FOR THE DETECTION OF MALARIA INFECTIONS AMONG ASYMPTOMATIC INDIVIDUALS FROM VILLAGES WITH CONFIRMED ARTEMISININ PARTIAL RESISTANCE IN NORTH-WESTERN TANZANIA

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MOLECULAR EXAMINATION OF FALSE NEGATIVE HISTIDINE-RICH PROTEIN 2 (HRP2)-BASED RAPID DIAGNOSTIC TESTS (RDTS) FOR MALARIA IN DIORO, MALI

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HISTIDINE-RICH PROTEIN (HRP) 2-BASED RDT FALSE-NEGATIVES AND *PLASMODIUM FALCIPARUM* HRP 2 AND 3 GENE DELETIONS IN LOW, SEASONAL AND INTENSE PERENNIAL TRANSMISSION ZONES IN CAMEROON

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Malaria - Elimination

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EVIDENCE-BASED CLINICAL TRIAL DESIGN: A MODELLING STUDY OF THE *PLASMODIUM VIVAX* SEROLOGICAL TESTING AND TREATMENT IN ETHIOPIA AND MADAGASCAR (PVSTATEM) CLUSTER-RANDOMIZED TRIAL

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UNTARGETED RNA SEQUENCING ANALYSIS OF BLOOD SAMPLES REVEALS NO PFHRP2/3 DELETION IN FALSE NEGATIVE RDTS IN SENEGAL

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MALARIA MASS DRUG ADMINISTRATION WITH DIHYDROARTEMISININE PIPERAQUINE (DHAPQ) IN TWO DIFFERENT SETTINGS OF MALARIA TRANSMISSION IN MALI

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PROGRESS IN THE FIGHT AGAINST MALARIA USING COMMUNITY-BASED CASE MANAGEMENT IN THE DISTRICT OF VANGAINDRANO, MADAGASCAR, 2023

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INCREASING ACCESS TO QUALITY MALARIA SERVICES THROUGH ON-THE-JOB CAPACITY BUILDING OF FRONT-LINE HEALTH WORKERS: LESSONS FROM HEALTH FACILITY MONITORING VISITS IN THREE SOUTHERN NIGERIAN STATES

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ESTABLISHMENT OF MALARIA ELIMINATION CONSORTIUM (MEC) STRATEGIC PLANNING AND EXECUTION TO ELIMINATE MALARIA FROM PAKISTAN BY 2035

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ACHIEVING ZERO INDIGENOUS MALARIA CASES, SUB-NATIONAL MALARIA ELIMINATION VERIFICATION IN KING CETSHWAYO DISTRICT, SOUTH AFRICA. A FIRST IN SUB-SAHARAN AFRICA

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ASSESSING THE POTENTIAL OF USING DIHYDROARTEMISININ PIPERAQUINE FOR MALARIA MASS DRUG ADMINISTRATION IN AN ENDEMIC AREA OF GHANA

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SILENT CIRCULATION OF *PLASMODIUM VIVAX*: FIRST ASYMPTOMATIC MALARIA CASE POST MALARIA ELIMINATION IN ARGENTINA

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IMPROVING MALARIA CASE MANAGEMENT QUALITY BY REDUCING IRRATIONAL USE OF ANTIMALARIALS: A SYSTEMS THINKING APPROACH IN FOUR SOUTHERN STATES (AKWA IBOM, CROSS RIVER, EBONYI, AND OYO) IN NIGERIA

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MEASURING ZERO INDIGENOUS MALARIA CASES THROUGH A SUB-CLASSIFICATION ALGORITHM, LESSONS FROM DEVELOPMENT, TRIALLING AND IMPLEMENTATION

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EPIDEMIOLOGICAL, VECTOR BIONOMICS AND PARASITOLOGICAL DYNAMICS IMPENDING MALARIA ELIMINATION IN A HOLOENDEMIC REGION OF ZAMBIA

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ELIMINATING MALARIA FROM INDIA THROUGH STRATEGIC PLANNING & PRAGMATIC APPROACHES

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Malaria - Epidemiology

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DISTINCT HISTOPATHOLOGIC PROFILES OF PLACENTAL MALARIA HAVE DIFFERENT ASSOCIATIONS WITH BIRTH OUTCOMES

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CROSS SECTIONAL SURVEY ASSESSING PREVALENCE AND PREDICTORS OF MALARIA PARASITAEMIA AMONG CHILDREN UNDER 13 YEARS IN KARAMOJA REGION, UGANDA

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EPIDEMIOLOGY AND STATISTICAL MODELLING OF *VIVAX* AND *FALCIPARUM* MALARIA CASES IN MANDOTO, MADAGASCAR

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ASSOCIATION BETWEEN MALARIA INFECTION AND UNDER-NUTRITION IN CHILDREN AGED 6-59 MONTHS IN KISUMU COUNTY, KENYA

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QUANTIFYING THE LAGGED EFFECTS OF CLIMATE VARIABLES ON MALARIA RISK: A CASE STUDY IN IGANGA-MAYUGE HEALTH AND DEMOGRAPHIC SURVEILLANCE SYSTEM SITE IN UGANDA

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SEASONAL MALARIA AMONG SCHOOL-AGED CHILDREN IN SIX WESTERN CONFLICT-AFFECTED BORDER PROVINCES IN THAILAND

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EXPLORATORY MODELLING OF THE INFLUENCE OF CLIMATE ON MALARIA TRANSMISSION

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CHARACTERIZING THE TRANSMISSION RESERVOIR OF *PLASMODIUM FALCIPARUM*

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PATIENT REPORT VERSUS PROVIDER REPORT, A POST-MODERN ANALYSIS OF MRDT TESTING AND DRUG DISPENSING DATA FROM A TRIAL IN THE PRIVATE RETAIL MEDICINE SECTOR IN WESTERN KENYA

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HIDDEN RESERVOIRS OF *P. VIVAX* INFECTIONS IN DUFFY-NEGATIVE POPULATIONS FROM CENTRAL AFRICA

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COMPARISON OF BAYESIAN OPTIMIZATION FRAMEWORKS FOR PARAMETER CALIBRATION IN AN AGENT-BASED MODEL OF MALARIA TRANSMISSION

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DESIGNING CLUSTER RANDOMIZED TRIALS FOR MALARIA: INSIGHTS FROM MATHEMATICAL MODELLING

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PREDICTING MALARIA PARASITEMIA IN MALI USING *PLASMODIUM* DEGREE-DAY

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RELATIONSHIPS OF INTERMITTENT PREVENTIVE THERAPY AND INSECTICIDE-TREATED BED NETS TO RISK OF MALARIA DURING PREGNANCY IN MAFERINYAH, GUINEA

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EXPLORING THE IMPACT OF *SCHISTOSOMA HAEMATOBIUM* INFECTION ON THE EXPANSION OF THE HUMAN RESERVOIR FOR *PLASMODIUM FALCIPARUM* IN GHANA

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BURDEN OF MALARIA IN THE KINSHASA PROVINCE, DEMOCRATIC REPUBLIC OF CONGO

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UNDERSTANDING MALARIA TREATMENT PATRONAGE: INSIGHTS FROM URBAN INFORMAL HEALTHCARE PROVIDERS IN NIGERIA

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MALARIA TEST POSITIVITY RATES AND ASSOCIATED FACTORS IN KINSHASA PROVINCE, DRC

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TEMPORAL TRENDS IN THE PREVALENCE OF *PLASMODIUM* SPECIES ACROSS REGIONS OF VARYING MALARIA BURDEN IN MAINLAND TANZANIA FROM 2021 TO 2023

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A PRELIMINARY ANALYSIS OF DELAYED TREATMENT FOR SEVERE MALARIA DISEASE AT SUSSUNDENGA-SEDE HEALTH CENTER

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IMPACT OF DIFFERENT TIMINGS OF THE FOURTH DOSE OF RTS,S MALARIA VACCINE IN PERENNIAL SETTINGS: A MODELLING STUDY

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MANAGEMENT OF UNCOMPLICATED MALARIA IN RURAL AND URBAN AREAS IN THE DEMOCRATIC REPUBLIC OF CONGO

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MANAGEMENT AND OUTCOMES SEVERE MALARIA IN HEALTH FACILITIES IN THE DEMOCRATIC REPUBLIC OF CONGO

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FACTORS ASSOCIATED WITH MALARIA TRANSMISSION IN BENIN - A RETROSPECTIVE STUDY OF DATA COLLECTED BETWEEN 2017 AND 2021

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7972

UNDERSTANDING THE IMPACT OF HOUSEHOLD WEALTH INDEX ON MALARIA RISK BY SETTLEMENT TYPE USING THE WET SEASON DATA FROM IBADAN

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FACTORS ASSOCIATED WITH THE PREVALENCE OF SUBMICROSCOPIC *PLASMODIUM* SPP. INFECTIONS IN NATIVE COMMUNITIES OF THE RIO SANTIAGO DISTRICT, AMAZONAS-PERU

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COMPARING CHANGES IN MALARIA TRANSMISSION USING THE MOLECULAR FORCE OF INFECTION VERSUS INCIDENCE DURING A MALARIA RESURGENCE IN TORORO, UGANDA

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PREVALENCE AND EPIDEMIOLOGICAL CHARACTERISTICS OF ASYMPTOMATIC MALARIA IN SUCRE, VENEZUELA: A CROSS-SECTIONAL STUDY

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EVOLUTION OF PREVENTIVE AND CURATIVE BEHAVIORS, VITAL AND PARASITOLOGICAL PARAMETERS OVER THE COURSE OF EPISODES OF MALARIA IN CHILDREN LIVING IN LIBREVILLE, GABON

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IMPACT OF COVID-19 ON MALARIA: CLINICAL CHANGES BEFORE AND DURING THE COVID-19 PANDEMIC, A RETROSPECTIVE STUDY IN A REFERENCE CENTER

Volatiana Andrianaja, Etienne Rakotomijoro, Johary Andriamizaka, Andry Elody Christophe, Rado Lazasoa Andrianasolo, Mamy Jean de Dieu Randria
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Malaria - Genetics, Genomics and Evolution

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SIMPLEGEN: A MODELING APPROACH (DE)COUPLING EPIDEMIOLOGY AND GENOMICS TO INFORM MALARIA SURVEILLANCE

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(ACMCIP Abstract)

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DISENTANGLING *PLASMODIUM FALCIPARUM* GENETIC RELATEDNESS NETWORKS TO STUDY MALARIA TRANSMISSION PATTERNS ACROSS SENEGAL

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(ACMCIP Abstract)

7980

A *PLASMODIUM VIVAX* STRAIN THAT EXPRESSES FLUORESCENT PROTEINS THROUGHOUT THE LIFE-CYCLE

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(ACMCIP Abstract)

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SIMPLSEQ + CI: A HIGHLY-SENSITIVE MALARIA MULTIPLEXED AMPLICON SEQUENCING PROTOCOL AND CLOUD-BASED BIOINFORMATIC WORKFLOW WITH CONTAMINATION DETECTION FOR INTERVENTION STUDIES

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EVOLUTION OF MOLECULAR MARKERS OF ANTIMALARIAL DRUG RESISTANCE IN UGANDA, 1999-2022

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(ACMCIP Abstract)

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ASSESSMENT OF GENETIC DIVERSITY OF *PLASMODIUM FALCIPARUM* PF230 GENE AS A POTENTIAL CANDIDATE FOR MALARIA VACCINE DEVELOPMENT

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(ACMCIP Abstract)

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EVIDENCE FOR SUSTAINED LOCAL TRANSMISSION IN A LOW TRANSMISSION SETTING IN SOUTHERN ZAMBIA: EXAMINING PARASITE GENOTYPE RELATEDNESS USING AN AMPLICON PANEL

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(ACMCIP Abstract)

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(ACMCIP Abstract)

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UNRAVELING THE GENETIC DIVERSITY AND TRANSMISSION NETWORKS OF *P.FALCIPARUM* IN SOUTHWESTERN UGANDA: A LOW TRANSMISSION SETTING

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FIKK GENE EXPRESSION SPECIFIC TO SEVERE MALARIAL SYNDROMES IN MALIAN CHILDREN

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(ACMCIP Abstract)

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SNP-SLICE RESOLVES MIXED INFECTIONS: SIMULTANEOUSLY UNVEILING STRAIN HAPLOTYPES AND LINKING THEM TO HOSTS

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RELATIONSHIP BETWEEN SEASONAL MALARIA CHEMOPREVENTION AND GUT MICROBIOME DIVERSITY IN BURKINA FASO

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(ACMCIP Abstract)

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BENCHMARKING THE PERFORMANCE OF POPULATION-LEVEL SEQUENCE FREQUENCY ESTIMATION TOOLS IN MALARIA RESEARCH AND PUBLIC HEALTH

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LEVERAGING DENSELY SAMPLED MALARIA CASES AND PARASITE GENETICS TO INFER TRANSMISSION NETWORK STRUCTURE

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Malaria - Immunology

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DIFFERENCES IN INNATE CELLULAR IMMUNE RESPONSES DISTINGUISH PROTECTED FROM NOT PROTECTED INDIVIDUALS IN A PFSPZ VACCINE TRIAL

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TRANSMIGRATION OF MATERNAL MONOCYTES AND FETAL MACROPHAGES IN RESPONSE TO ACTIVE VERSUS PAST PLACENTAL MALARIA AND ASSOCIATIONS WITH BIRTH WEIGHT

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PROTECTIVE EFFICACY OF *P. VIVAX* PRE-ERYTHROCYTIC ANTIGENS PVSSP3 AND PVSPECT1

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7995

COMPREHENSIVE CHARACTERIZATION OF *PLASMODIUM VIVAX* ANTIGENS USING HIGH-DENSITY PEPTIDE ARRAY

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(ACMCIP Abstract)

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SPATIAL HOSPITAL BASED SEROPREVALENCE AND RISK OF INFECTION FROM *PLASMODIUM VIVAX* AND OTHER *PLASMODIUM* SPECIES USING MULTIPLEX QUANTITATIVE SUSPENSION ARRAY ASSAY IN CAMEROON

Innocent M. Ali[1], Eva Keming Mai[2], Darlin Bean N. Kaunda[1], Pacome Valery Kom Tchuenkam[1], Giresse Nino Lemogo[1], Mariama Mbouh[1], Arsene Z. Dombou[1], Ruth Aguilar[3], Gustave Simo[1], Chris Drakeley[4], Carlota DOBANO[5]

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ASSESSING HUMAN ANTIBODY RESPONSES TO THE *PLASMODIUM FALCIPARUM* RH5-CYRPA-RIPR INVASION COMPLEX; QUANTIFICATION OF RESPONSES TO THREE BLOOD-STAGE TARGET ANTIGENS

Dimitra Pipini[1], Jordan R. Barrett[1], Barnabas G. Williams[1], Lloyd D. W. King[1], Ababacar Diouf[2], Jo Salkeld[1], Lorraine A. Soisson[3], Randall S. MacGill[4], Cecilia Carnrot[5], Katherine Skinner[1], Rachel E. Cowan[1], Jee-Sun Cho[1], Carole A. Long[2], Carolyn M. Nielsen[1], Angela M. Minassian[1], Kazutoyo Miura[2], Simon J. Draper[1], Sarah E. Silk[1]
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IL-15 COMPLEX ENHANCES T RESIDENT MEMORY FORMATION AND FUNCTION FOLLOWING GENETICALLY ATTENUATED *PLASMODIUM* VACCINATION IN MICE

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7999

UNDERSTANDING THE IMPACT OF LOW, MEDIUM AND HIGH MALARIA PRE-EXPOSURE STATUS ON SARS COV-2 -SPECIFIC ANTIBODY PROFILES AND FUNCTIONALITY IN TANZANIAN INDIVIDUALS

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(ACMCIP Abstract)

8000

ELUCIDATING THE KINETICS AND DYNAMICS OF GROWTH-INHIBITORY IMMUNE RESPONSES TO *PLASMODIUM FALCIPARUM* STRAINS

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(ACMCIP Abstract)

8001

LONGITUDINAL RESPONSES IN THE TISSUES AND BLOOD OF NON-HUMAN PRIMATES DURING IMMUNIZATION WITH WHOLE *PLASMODIUM* SPOROZOITES

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(ACMCIP Abstract)

8002

TREATING CEREBRAL MALARIA IN AFRICAN CHILDREN, TRANSLATING MECHANISTIC INSIGHTS TO BEDSIDE RESULTS

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(ACMCIP Abstract)

8003

THE PUTATIVE RECEPTOR BINDING REGION IS THE IMMUNODOMINANT REGION OF *PLASMODIUM* MALARIAE RETICULOCYTE BINDING PROTEIN 1A

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(ACMCIP Abstract)

8004

CHARACTERIZATION OF COINFECTION WITH SOIL TRANSMITTED HELMINTHS CAUSED BY *PLASMODIUM VIVAX* BASED ON CITOKINE BALANCE IN A CHILD POPULATION FROM AN ENDEMIC AREA OF COLOMBIA

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(ACMCIP Abstract)

Malaria - Pathogenesis

8005

PLASMODIUM INFECTION AND ANTIBIOTIC USE DURING SEVERE MALARIA INDUCE GUT BACTERIA DYSBIOSIS THAT INCREASES THE RISK OF MORTALITY IN CHILDREN

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(ACMCIP Abstract)

8006

VAR2CSA EXPRESSION IN CEREBRAL MALARIA IN MALIAN AND MALAWIAN CHILDREN

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(ACMCIP Abstract)

8007

CIRCULATING PLATELET-LEUKOCYTE AGGREGATES CORRELATE WITH THROMBOCYTOPENIA AND DEATH IN PEDIATRIC CEREBRAL MALARIA

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(ACMCIP Abstract)

8008

INVESTIGATING THE ROLE OF HOST C1QBP IN *PLASMODIUM FALCIPARUM* INFECTED ERYTHROCYTE BINDING TO HUMAN BRAIN MICROVASCULAR ENDOTHELIAL CELLS

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(ACMCIP Abstract)

8009

CHILDREN WITH CEREBRAL MALARIA LACK IMMUNITY TO SPECIFIC RIFIN AND STEVOR ANTIGENS

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(ACMCIP Abstract)

8010

DECIPHERING THE HOST RESPONSE TO *P. FALCIPARUM* BY PLASMA PROTEOMICS

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(ACMCIP Abstract)

8011

HYPERPARASITAEMIA: A CONSISTENT PRESENTATION IN *P FALCIPARUM* MALARIA IN THE UK SINCE COVID

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(ACMCIP Abstract)

8012

PLASMODIUM FALCIPARUM ESTABLISHES CHRONIC INFECTIONS THROUGH HIGH *VAR* GENE EXPRESSION SWITCHING RATE

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(ACMCIP Abstract)

8013

TRANSCRIPTIONAL ANALYSIS OF DIFFERENTIALLY EXPRESSED GENES AND PATHWAYS IN THE DEVELOPMENT OF SEVERE MALARIA

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(ACMCIP Abstract)

8014

UNDERSTANDING HOW VARIABILITY IN CULTURE TECHNIQUE IMPACTS THE LEVEL OF OXYGEN TENSION IN *PLASMODIUM FALCIPARUM IN VITRO* STUDIES

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(ACMCIP Abstract)

8015

IMPACTS OF CONCURRENT SEVERE MALARIA AND ENTERIC INFECTION ON CHILD HEALTH OUTCOMES

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(ACMCIP Abstract)

8016

THE IMPACT OF FALCIPARUM MALARIA INFECTION ON THE BRAIN: NEW FINDINGS FROM AN INDIAN COHORT

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(ACMCIP Abstract)

8017

ROLE OF *PLASMODIUM FALCIPARUM* HEMOZOIN-ASSOCIATED PROTEINS IN THE PATHOGENESIS OF CEREBRAL MALARIA

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(ACMCIP Abstract)

Malaria - Prevention

8018

PHARMACOKINETIC AND PHARMACODYNAMIC MODELING OF MONTHLY TAFENOQUINE IN HEALTHY VIETNAMESE VOLUNTEERS FOR MALARIA PROPHYLAXIS AND ELIMINATION

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8019

THE EFFECT OF ADDITIONAL DOSES OF SULFADOXINE-PYRIMETHAMINE ADMINISTERED AS PMC ON HEMOGLOBIN LEVELS AMONG CHILDREN IN A MALARIA ENDEMIC AREA OF CAMEROON

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8020

COMMUNITY ACCEPTANCE OF A NOVEL MALARIA INTERVENTION, ATSB STATIONS, IN THE CONTEXT OF THE ATSB ZAMBIA PHASE III TRIAL

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SEASONAL MALARIA CHEMOPREVENTION (SMC) ELIGIBILITY ANALYSIS AND IMPACT EVALUATION USING MATHEMATICAL MODELING TO GUIDE DECISIONS ON THE IMPLEMENTATION OF SMC IN GUINEA

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8022

ASSESSMENT OF THE MALARIA SCORECARD'S IMPACT ON HEALTH OUTCOME THROUGH HOME-BASED MANAGEMENT IN RWANDA

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8023

IMPACT OF THE DISCONTINUATION OF UNIVERSAL IRS IN MAPUTO PROVINCE DURING THE 2020-2021 SEASON

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8024

EVALUATION OF A PILOT IMPLEMENTATION OF INTERMITTENT PREVENTIVE TREATMENT WITH DIHYDROARTEMISININ-PIPERAQUINE TO PREVENT ADVERSE BIRTH OUTCOMES IN PAPUA, INDONESIA

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8025

FACTORS ASSOCIATED WITH LOW INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANCY (IPTP) COVERAGES IN LOW PERFORMING HEALTH FACILITIES IN GHANA 2023

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8026

HEALTH PROVIDERS ON-SITE TRAINING APPROACH IN IMPROVING THE QUALITY OF MALARIA SERVICES DELIVERY IN COTE D'IVOIRE, 2023

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8027

EQUITY AND COVERAGE ANALYSIS OF POPULATION-BASED HEALTH PROGRAMS: A COMPARATIVE STUDY OF SEASONAL MALARIA CHEMOPREVENTION, INSECTICIDE-TREATED NET DISTRIBUTION STRATEGIES, AND THE ESSENTIAL PROGRAM ON IMMUNIZATION IN AFRICAN COUNTRIES

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PREVENTING MALARIA AMONGST CONFLICT-AFFECTED COMMUNITIES IN CAMEROON SOUTH-WEST AND LITTORAL REGIONS

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ZAMBIA 2023 ITN DISTRIBUTION CAMPAIGN DIGITALIZATION EXPERIENCES: LESSONS LEARNED AND BEST PRACTICES

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COST AND COST-EFFECTIVENESS OF ATTRACTIVE TARGETED SUGAR BAITS (ATSB): CLUSTER RANDOMIZED CONTROL TRIALS (CRCT) IN ZAMBIA, KENYA, AND MALI

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MALARIA, ANEMIA, MALNUTRITION IN PREGNANCY: PREVALENCE AND ASSOCIATED FACTORS, HIGH MALARIA TRANSMISSION AREA MALI

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8032

AN OBSERVATIONAL STUDY EVALUATING THE EPIDEMIOLOGICAL AND ENTOMOLOGICAL IMPACTS OF PIPERONYL BUTOXIDE INSECTICIDE-TREATED NETS COMPARED TO A COMBINATION OF INDOOR RESIDUAL SPRAYING PLUS STANDARD PYRETHROID-ONLY ITNS IN AMHARA REGION, ETHIOPIA, 2019-2022

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INTRODUCING HAMMOCK NETS AND BEDNETS IN INDIGENOUS AND VULNERABLE COMMUNITIES OF PANAMÁ

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THE IMPACT OF ROUTINE DISTRIBUTION AND USE OF ITN TO REDUCE MALARIA IN PREGNANCY AND FOR CHILDREN UNDER 5 YEARS

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USING NATIONAL SURVEY DATA TO LEARN IMPACT OF INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANCY ON BIRTH WEIGHT IN NIGERIA

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DECENTRALIZING MALARIA CASE MANAGEMENT SERVICES IN EQUATORIAL GUINEA: A CAPACITY BUILDING APPROACH AT THE DISTRICT LEVEL

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EFFECT OF INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN SCHOOLCHILDREN ON ANEMIA THROUGH REDUCTION OF MALARIA INFECTIONS AND CLINICAL MALARIA EPISODES: MEDIATION ANALYSIS

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CHANGES IN IPTP UTILIZATION MEASURED AN ANNUAL CROSS-SECTIONAL HOUSEHOLD SURVEY WITHIN PROGRAM AREAS OF THE ISDELL: FLOWERS CROSS BORDER MALARIA INITIATIVE IN ZAMBIA

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LEVERAGING HOUSEHOLD VISITS DURING INDOOR RESIDUAL SPRAYING TO IDENTIFY PREGNANT WOMEN AND INCREASE AWARENESS OF ANTENATAL CARE AND IPTP ADHERENCE ON BIOKO ISLAND, EQUATORIAL GUINEA

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POTENTIAL POPULATION IMPACT OF SCALING UP SEASONAL MALARIA CHEMOPREVENTION IN EAST AND SOUTHERN AFRICA: A MODELLING STUDY

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WHAT HAPPENS WHEN CHEMOPREVENTION OF SEASONAL MALARIA IS STOPPED: EXPERIENCE IN THE SOUTHERN SENEGALESE REGION OF SÉDHIOU

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CONTRIBUTION TO THE IMPROVEMENT OF SMC SUPERVISION BASED ON REAL-TIME ANALYSIS OF DISAGGREGATED DATA FOR DECISION MAKING

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USE OF ALTERNATIVE LLIN DISTRIBUTION CHANNELS TO IMPROVE HOUSEHOLD OWNERSHIP AND USE OF LLINS

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MALARIA IN PREGNANCY

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THE SOCIO-DEMOGRAPHIC PREDICTORS OF INSECTICIDE-TREATED BED NET UTILIZATION FOR PROTECTION AGAINST MALARIA BY ASYMPTOMATIC INDIVIDUALS FROM RURAL COMMUNITIES ACROSS FIVE REGIONS IN MAINLAND TANZANIA

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BENEFITS OF INCLUSIVE INNOVATION IN THE DEVELOPMENT OF A DECENTRALIZED ROUTINE DATA QUALITY AUDIT (RDQA) IMPLEMENTATION MODEL IN THE DEMOCRATIC REPUBLIC OF CONGO (DRC)

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ASSESSING THE FEASIBILITY OF USING A MULTIPLEX SEROLOGICAL ASSAY TO CONDUCT SEROSURVEILLANCE FOR MALARIA EXPOSURE

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EVIDENCE OF *P. VIVAX* IN NORTHERN KENYA, AN EMERGING MALARIA CONTROL THREAT; AN INCIDENCE REPORT FROM THE OUTCOME OF THE MID-2023 EPIDEMIC RESPONSE AND FOLLOW UP SURVEY

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SOUTH-SOUTH EXCHANGE - USE OF A COLLABORATIVE CAPACITY STRENGTHENING MODEL FOR COUNTRIES APPROACHING MALARIA ELIMINATION

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BENIN'S MALARIA SURVEILLANCE SYSTEM: INNOVATIONS TO PURSUE AND WEAKNESSES TO IMPROVE

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BED NET USE, MISUSE, AND MISCONCEPTION: A COMMUNITY-BASED CROSS-SECTIONAL STUDY IN FIVE REGIONS OF MAINLAND TANZANIA

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QUANTIFY THE TREND IN MALARIA INCIDENCE AT HEALTH DISTRICT LEVEL AND IDENTIFY THE FACTORS ASSOCIATED WITH THIS INCIDENCE IN BURKINA FASO FROM 2016-2022 USING ROUTINE CASES DATA

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FEASIBILITY OF USING GEOGRAPHIC INFORMATION SYSTEMS (GIS) TO FACILITATE POPULATION-PROPORTIONATE HOUSEHOLD SAMPLING OF ADMINISTRATIVE UNITS IN NORTHERN UGANDA, A CASE STUDY

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DEVELOPING A ROADMAP FOR THE IMPLEMENTATION OF MALARIA GENOMIC SURVEILLANCE IN AFRICA

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DRUG PHENOTYPE ASSESSMENT TO VALIDATE DRUG RESISTANCE MARKERS CHANGING AMONG NATURAL SENEGALESE *PLASMODIUM FALCIPARUM* ISOLATES

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DEVELOPING AN OPEN SOURCE, FREE, AND GENERALIZABLE SAMPLE AND DATA MANAGEMENT SYSTEM TO ENABLE SCALABLE AND SUSTAINABLE GENOMIC SURVEILLANCE IN SENEGAL

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IMPACT OF A REWARD SYSTEM AND CONSISTENT FEEDBACK ON REPORTING RATE AND TIMELINESS IN OGUN STATE, SOUTHWEST NIGERIA

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ENHANCING WEEKLY EPIDEMIOLOGICAL SURVEILLANCE DATA COMPLETENESS ACROSS KARAMOJA REGION OF UGANDA: A QUALITY IMPROVEMENT APPROACH

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SOCIODEMOGRAPHIC STUDIES AND THE SPATIAL DISTRIBUTION OF MALARIA EPISODES IN DANGASSA, KATI DISTRICT FROM 2014 TO 2016

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IMPROVING MALARIA EPIDEMIC SURVEILLANCE IN UGANDA'S WEST NILE REGION THROUGH HEALTH WORKER CAPACITY STRENGTHENING AND REUSABLE MALARIA SURVEILLANCE CHARTS

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INTEGRATION OF COMMUNITY DATA WITH ROUTINE HEALTH FACILITY DATA TO GENERATE INSIGHTS INTO MALARIA EPIDEMIOLOGY AND SERVICE DELIVERY IN BUIKWE DISTRICT IN UGANDA

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DIGITALIZATION THROUGH DHIS2 TRACKER PROGRAMS AT HOUSEHOLD AND INDIVIDUAL LEVELS FOR 2023 SEASONAL MALARIA CHEMOPREVENTION CAMPAIGNS IN CÔTE D'IVOIRE

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STREAMLINING THE MEDICINE REGISTRATION SYSTEM TO IMPROVE ACCESS TO QUALITY MALARIA COMMODITIES IN MADAGASCAR, 2018 - 2024

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ESTABLISHING ROBUST, OPEN, ACCESSIBLE BIOINFORMATICS TOOLS FOR MALARIA GENOMIC DATA ANALYSIS AND REPORTING, IMPLEMENTED IN THE TERRA CLOUD-BASED ANALYSIS PLATFORM

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COMPARATIVE ANALYSIS OF INDIVIDUAL-BASED MALARIA MODELS: CHARACTERIZING MODEL BEHAVIOR FOR ENHANCED CONFIDENCE IN MODEL-INFORMED DECISION MAKING

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EVALUATING SUB-NATIONAL TAILORING OF MALARIA INTERVENTIONS

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RAPID MOLECULAR MONITORING OF *KELCH13* OF *PLASMODIUM FALCIPARUM* SHOWS LOW DIVERSITY AND LACK OF ARTEMISININ RESISTANCE-ASSOCIATED MUTATIONS ON BIOKO ISLAND, EQUATORIAL GUINEA

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ASSESSEMENT OF QUALITÉ OF MALARIA CASE MANAGEMENT AND PREVENTION USING MICROSTRATIFICATION METHOD

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ADVANCING EARLY WARNING SYSTEMS FOR MALARIA, PROGRESS, CHALLENGES, AND FUTURE DIRECTIONS

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Malaria - Vaccines and Immunotherapeutics

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STRAIN-TRANSCENDING ANTI-AMA1 HUMAN MONOCLONAL ANTIBODIES NEUTRALIZE MALARIA PARASITES INDEPENDENT OF DIRECT RON2L RECEPTOR BLOCKADE

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PRE-CLINICAL STUDY ON VIRAL-VECTORED *P. FALCIPARUM* MULTISTAGE VACCINE EFFECTIVE BOTH FOR PROTECTION AND TRANSMISSION-BLOCKADE IN RHESUS PRIMATES

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R21/MATRIX-M™ PHASE III TRIAL: FURTHER FOLLOW-UP AND ASSESSMENT OF AN ADDITIONAL BOOSTER DOSE

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STRUCTURE GUIDED DESIGN OF A MRNA VACCINE TARGETING APICAL MEMBRANE ANTIGEN 1 IN *P. FALCIPARUM*

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SAFETY OF THE RTS,S/AS01$_E$ MALARIA VACCINE ONE YEAR AFTER THE PRIMARY VACCINATION IN REAL-LIFE SETTINGS IN THREE SUB-SAHARAN AFRICAN COUNTRIES: INTERIM RESULTS

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OFF-TARGET ANTIBODY RESPONSES TO BLOOD STAGE ANTIGENS ARE ASSOCIATED WITH CROSS-REACTIVE ANTIBODIES TO THE MAJOR AND MINOR REPEATS OF THE *PLASMODIUM FALCIPARUM* CIRCUMSPOROZOITE PROTEIN IN AFRICAN CHILDREN PARTICIPATING IN THE RTS,S VACCINE TRIALS

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GENOTYPIC INFECTION ENDPOINT ANALYSIS TO UNDERSTAND EFFICACY AND ESCAPE POTENTIAL OF THE MALARIA MONOCLONAL ANTIBODY CIS43LS

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COMPARATIVE IMMUNOGENICITY OF THE R21/MATRIX-M MALARIA VACCINE ACROSS AGE GROUPS AND GEOGRAPHIES

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R21/MATRIX-M MALARIA VACCINE PHASE 3 CLINICAL TRIAL IMMUNOGENICITY

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A CONJUGATED PFS230D1 VACCINE INDUCES ANTIBODIES THAT DIRECTLY PREVENT FERTILIZATION AND COMPLEMENT ENHANCES NEUTRALIZATION

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FORCED DEGRADATION STUDIES WITH CONJUGATED PFS230D1-EPA DRUG PRODUCT PROVIDE A BASIS FOR EVALUATING ACCELERATED STABILITY

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DESIGN, CHARACTERIZATION, AND EFFICACY OF TWO UNIQUE MRNA-BASED BLOOD-STAGE MALARIA VACCINES

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INTRODUCTION OF MALARIA VACCINE IN BURKINA FASO: LESSONS LEARNED

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FUNCTIONAL EFFICACY OF NANOPARTICLE CONJUGATED *P. VIVAX* CIRCUMSPOROZOITE PROTEIN SUBDOMAIN VACCINE

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DIRECT SKIN FEEDING ASSAY IN MALARIA TRANSMISSION BLOCKING VACCINE STUDIES - STANDARDIZATION, SAFETY, TOLERANCE, AND SCALABILITY FOR USE IN PHASE 2 AND PHASE 3 CLINICAL TRIALS

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COMPARABILITY OF THE STANDARD MEMBRANE FEEDING ASSAY (SMFA) ACROSS DIFFERENT VACCINE STUDIES, STUDY SITES, AND TIME

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IMMUNOGENICITY OF A *PLASMODIUM VIVAX* BLOOD STAGE NANOPARTICLE VACCINE

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NOVEL ASSAY PREDICTS STANDARD MEMBRANE FEEDING RESULTS FOR MALARIA TRANSMISSION BLOCKING VACCINE PFS230D1-EPA/AS01

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ABUNDANT NON-NEUTRALIZING, SYNERGIZING IGG LINEAGES PLAY A CRUCIAL PROTECTIVE ROLE IN MALARIA-NAÏVE UNITED KINGDOM ADULTS VACCINATED WITH BLOOD-STAGE VACCINE CANDIDATE RH5.1/AS01$_B$

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ELICITATION OF POTENT LIVER-STAGE IMMUNITY BY NANOPARTICLE IMMUNOGENS DISPLAYING *P. FALCIPARUM* CSP-DERIVED ANTIGENS

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EFFECTIVENESS OF PYRETHROID-PIPERONYL BUTOXIDE NETS VERSUS STANDARD PYRETHROID-ONLY NETS IN PREVENTING MALARIA IN CHILDREN UNDER 10 YEARS LIVING IN KISANTU HEALTH ZONE, DEMOCRATIC REPUBLIC OF THE CONGO: A QUASI-EXPERIMENTAL STUDY

Bacteriology - Enteric Infections

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ASSESSMENT OF THE BURDEN AND RISK OF TYPHOID FEVER USING AVAILABLE DATA TO INFORM VACCINE INTRODUCTION IN RWANDA

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AEROMONAS HYDROPHILA AS A CAUSE OF ACUTE DIARRHEA FROM WESTERN AND COASTAL REGIONS IN KENYA

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PHENOTYPIC RESISTANCE OF CIPROFLOXACIN AND AZITHROMYCIN RESISTANT *CAMPYLOBACTER* SP. ISOLATES FROM PERU TO AN EXTENDED PANEL OF ANTIBIOTICS

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APPLICATION OF THE RAPID DIAGNOSTIC TEST BASED ON LOOP-MEDIATED ISOTHERMAL AMPLIFICATION (RLDT) FOR *SHIGELLA* AND ENTEROTOXIGENIC *ESCHERICHIA COLI* (ETEC) DETECTION IN CHILDHOOD DIARRHEA IN BURKINA FASO

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ASSOCIATION OF THE HUNGER SEASON AND MALNUTRITION WITH DIARRHEA ETIOLOGY AND POOR OUTCOMES AMONG CHILDREN HOSPITALIZED WITH DIARRHEA IN HAYDOM, TANZANIA

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RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED STUDY ON THE EFFICACY AND SAFETY OF CAMPETEC HYPERIMMUNE BOVINE COLOSTRUM (HBC) FOR THE PREVENTION OF *CAMPYLOBACTER*-MEDIATED DIARRHEAL DISEASES

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GENOMIC SURVEILLANCE OF ANTIMICROBIAL RESISTANCE IN CHILDREN WITH DIARRHEA AT A COMMUNITY-LEVEL HEALTH FACILITY IN MALI

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INTESTINAL MICROBIOME AND IMPLICATIONS ON MATERNAL HEALTH AND BIRTH OUTCOMES

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ISOLATION AND GENOMIC CHARACTERIZATION OF CAMPYLOBACTER SPECIES AND IDENTIFICATION OF ANTIBIOTIC RESISTANT *ESCHERICHIA COLI* AND *KLEBSIELLA PNEUMONIA* FROM ZIMBABWE

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PATHOGENS CAUSING DIARRHEA IN CHILDREN UNDER FIVE AMONG A VACCINATED POPULATION IN COASTAL GHANA

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USING A VACCINATION REGISTER TO MINIMIZE THE RISK OF MISCLASSIFICATION OF CHOLERA VACCINATION STATUS IN THE DEMOCRATIC REPUBLIC OF THE CONGO

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USING CLINICAL PREDICTION TO IDENTIFY CHOLERA IN SEVERELY DEHYDRATED CHILDREN WITH DIARRHEA

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SHIGELLA SPECIFIC DIARRHEAL BURDEN OVER A DECADE IN THE GAMBIA

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ENTERIC PATHOGEN PREVALENCE, INCIDENCE AND CLEARANCE RATES, AND SHEDDING INTENSITY IN URBAN KENYAN INFANTS FROM MOLECULAR TESTING OF SEQUENTIAL FECAL SAMPLES

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ASSEMBLY AND PERFORMANCE OF A CHOLERA RAPID DIAGNOSTIC TEST PROTOTYPE THAT DETECTS BOTH *VIBRIO CHOLERAE* AND BACTERIOPHAGE

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Bacteriology - Other Bacterial Infections

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INTEGRATION OF ANTIMICROBIAL RESISTANCE DIAGNOSTICS IN BOKÉ REGIONAL HOSPITAL LABORATORY: GUINEA, JULY-DECEMBER 2023.

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INITIAL ISOLATION AND WHOLE GENOME SEQUENCING OF *CORYNEBACTERIUM HINDLERAE* IN ISIOLO, KENYA

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MOLECULAR DIAGNOSIS OF *SHIGELLA* SPP. IN CHILDREN WITHOUT CLINICAL SYMPTOMS IN A RURAL AND URBAN AREA OF NORTHERN PERU

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A MULTIPLEX REAL-TIME PCR ASSAY FOR DETECTION OF THE FOUR MAIN CAUSES OF BACTERIAL MENINGITIS

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EFFICACY OF MACOZINONE AND SUTEZOLID AGAINST *MYCOBACTERIUM LEPRAE*

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DETECTING NOVEL MECHANISMS OF CARBAPENEM RESISTANCE: AN INNOVATIVE SCREENING SYSTEM IN LIMA, PERU

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EXPLORING POTENTIAL ASSOCIATION BETWEEN LOW BODY MASS INDEX AND MID-UPPER ARM CIRCUMFERENCE WITH LEPROSY: A CASE-CONTROL STUDY IN ADDIS ABABA, ETHIOPIA

Lawrence Dela Cruz[1], Elleni Zeleki[2], Hatem Mohamed[1], Yosef Wubshet[3], Liya Sesay Getachew[1], Aemon Fissha[4], Biruk Debebe[4], Ytbarek Gebremedhin[4], Jessica K. Fairley[1], Kidist Bobosha[2], Shimelis Nigusse[4]

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Bacteriology - Systemic Infections

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Emily Dunay[1], Ismail Hirji[2], Leah A. Owens[1], Gregory A. Barrett-Wilt[1], Konkofa Marah[2], Naomi Anderson[2], Maria Ruiz[3], Rebeca Atencia[3], Johanna R. Elfenbein[1], Tony L. Goldberg[1]

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INFLUENCE OF HIV INFECTION ON COMMON BACTERIA CAUSING SEPSIS AND ASSOCIATED SUSCEPTIBILITY PATTERNS IN CHILDREN AT A PEDIATRIC HOSPITAL IN ZAMBIA

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AUSTRIAN SYNDROM : A RARE CASE REPORT

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Ahmed BELMOUDEN[1], Fatima MOUSTAOUI[1], Mohamed AGHROUCH[2], Youssef IDAGHDOUR[3], Zohra LEMKHENTE[1], Maryama BARHOINE[1], Fatima BOUBRIK[1]

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BURKHOLDERIA PSEUDOMALLEI: A NEGLECTED 'NEGLECTED TROPICAL DISEASE'?

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Bacteriology - Trachoma

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Abdou Amza[1], Boubacar Kadri[2], Beido Nassirou[2], Ahmed Arzika[3], Elisabeth Gebreegziabher[4], Huiyu Hu[4], Lina Zhong[4], Cindi Chen[4], Danny Yu[4], Thomas Abraham[4], YuHeng Liu[4], Thuy Doan[4], Benjamin F. Arnold[4], Thomas M. Lietman[4], **Catherine Oldenburg**[4]
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THE RE-EMERGENCE OF TRACHOMA INFECTION AMONG CHILDREN IN KONGWA DISTRICT, TANZANIA, POSES A THREAT TO YEARS OF PROGRESS

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THE ROLE OF ANTIBODY DATA FOR IMPROVED UNDERSTANDING OF RECRUDESCENT ACTIVE TRACHOMA IN NEBBI DISTRICT OF UGANDA

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Clinical Tropical Medicine

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PATHWAYS TO PROGRESS: ENHANCING INFECTIOUS DISEASE DETECTION IN THE PERUVIAN AMAZON

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DEVELOPMENT, IMPLEMENTATION, AND CLINICAL VALIDATION OF AN ISOTHERMAL CAS12A BASED QUANTITATIVE ASSAY FOR CONGENITAL CYTOMEGALOVIRUS VIRAL LOAD DETERMINATION

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COMPLICATED SPINAL CYSTIC ECHINOCOCCOSIS SUCCESSFULLY TREATED WITH SURGERY: 10-YEAR FOLLOW-UP

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MALARIA RETINOPATHY IS ASSOCIATED WITH WORSE LONG-TERM COGNITION IN UGANDAN CHILDREN WITH SEVERE MALARIAL ANEMIA

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SAFETY, IMMUNOGENICITY AND EFFICACY OF THE *SHIGELLA* VACCINE - A SYSTEMATIC REVIEW

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CLINICO-EPIDEMIOLOGICAL STUDY OF SNAKEBITE: AN AUDIT OF THIRTEEN YEARS DATA FROM A COMMUNITY-BASED TREATMENT CENTRE OF EASTERN NEPAL

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IDENTIFYING ADDITIONAL RISK FACTORS FOR DEVELOPING CHRONIC KIDNEY DISEASE

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DISCORDANCE BETWEEN IMMUNIZATION HISTORY AND SEROLOGIC IMMUNITY TO VACCINE-PREVENTABLE INFECTIONS AMONG ASYLUM SEEKERS IN THE US

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CLINICAL PRESENTATION OF ACUTE ARBOVIRAL INFECTIONS DURING THE 2023 OUTBREAK IN THE TIRS PROJECT COHORT

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ASSESSMENT OF HOME BASED RAPID DIAGNOSTIC TESTING UPTAKE TOWARDS INCREASING COMMUNITY-BASED ACCESS TO CARE IN KENYA, SOUTH AFRICA, AND ZAMBIA

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HIGH-RISK *APOL1* VARIANTS ARE ASSOCIATED WITH REDUCED LONG-TERM SURVIVAL FOLLOWING SEVERE MALARIA

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POSTMORTEM CHARACTERIZATION OF GASTROSCHISIS ASSOCIATED UNDER-5 DEATHS IN MOZAMBIQUE: INSIGHTS FROM CHILD HEALTH AND MORTALITY PREVENTION SURVEILLANCE (CHAMPS)

Elisio Xerinda[1], Rosauro Varo[2], Milton Kincardett[1], Arlindo Malheia[1], Portia Mutevedzi[3], Dianna Blau[3], Cynthia Whitney[3], Marcelino Garrine[1], Quique Bassat[4], **Inacio Mandomando**[1]
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IMPORTANCE OF CLINICAL EXPERTISE IN DIAGNOSIS OF LEPROSY AND AMERICAN CUTANEOUS LEISHMANIASIS: INSIGHTS FROM CLINICAL PROFILES IN EASTERN MINAS GERAIS, BRAZIL

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RENIN RELEASE IS ASSOCIATED WITH ACUTE KIDNEY INJURY AND PREDICTS MORTALITY IN CHILDREN WITH SEVERE MALARIA

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SEVERE AND FATAL LASSA FEVER - OBSERVATIONS IN 19 ICU PATIENTS TREATED IN NIGERIA

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ASSOCIATION OF DENGUE VIRUS SEROTYPES AND THE CLINICAL SEVERITY OR MORTALITY IN TAIWAN'S LARGEST DENGUE OUTBREAK

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SEPSIS ENDOTYPES IDENTIFIED BY HOST GENE EXPRESSION ACROSS GLOBAL COHORTS

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INTEGRATED SEROLOGICAL SURVEILLANCE FOR MULTIPLE INFECTIOUS DISEASES IN VANUATU

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OVERCOMING DIAGNOSTIC CHALLENGES WITH ACUTE FEBRILE ILLNESS IN NIGERIA: WHAT CAN WE LEARN FROM THE SAFIAN STUDY?

Lauren Courtney[1], Jean Kim[1], Jay Samuels[2], Philippe Chebu[2], Onyia Ejike[3], Ikponmwosa Odia[4], Claire Quiner[1], Ephraim Ogbaini[4], Vivian Kwaghe[3], Cyril Erameh[4], Eke Ofuche[2], Femi Owolagba[2], Blessed Okira[4], Ikponmwosa Odia[4], Jacqueline Agbukor[4], Julius Imoyera[4], Kat Asman[1], Adamu Ephraim[1], Osas Edeawe[4], Nankpah Vongdip[3], Emmanuel Oga[1]
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A CASE OF PRE-EXTENSIVELY DRUG-RESISTANT TUBERCULOSIS IN KWAZULU-NATAL, SOUTH AFRICA

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IMPLEMENTING NEUROCOGNITIVE ASSESSMENT TOOLS - A PILOT STUDY COMPARING NEUROCOGNITIVE FUNCTION OF EBOLA SURVIVORS WITH NON-INFECTED CONTROLS IN SIERRA LEONE

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DISCREPANCY ANALYSIS BY USING DATA QUALITY ASSESSMENT AT COMMUNITY LEVEL IN RWANDA

NYABUGANDE -. Aimable
Rwanda Biomedical Center, Kigali city, Rwanda

Helminths – Nematodes – Filariasis (Molecular Biology and Immunology)

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MOLECULAR DETECTION AND SEQUENCING OF GENES ENCODING THE PREDICTED AMIDASE, NADH UBIQUINONE OXIDOREDUCTASE AND SODIUM NEUROTRANSMITTER SYMPORTER ENZYMES IN *ONCHOCERCA VOLVULUS* PARASITE

Anabel Acheampong[1], Kenneth Bentum Otabil[1], John Asiedu Larbi[2], Prince Nyarko[2], Prince-Charles Kudzordzi[2], Godbless Owusu Adjei[1], Paulina Pokua Oduro[1]
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INFECTION STAGE L3 OF *LOA LOA* AS POTENTIAL TARGET FOR PROTECTIVE IMMUNITY

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INFLAMMATION AND FIBRINOLYSIS IN LOIASIS PATIENTS BEFORE AND AFTER IVERMECTIN TREATMENT: POTENTIAL MECHANISM UNDER POST-IVERMECTIN SEVERE ADVERSE EVENTS

Tristan Lepage[1], Narcisse N. Toche[2], Lucie Nkwengoua[3], Hugues C. Nana-Djeunga[2], Sebastien D S Pion[4], Joseph Kamgno[2], Charlotte Boullé[4], Jérémy T. Campillo[5], Michel Boussinesq[4], Claude Tayou[3], **Cédric B. Chesnais**[4]
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IMPACT OF THE FILARIAL INFECTIONS *O. VOLVULUS, L. LOA* AND *M. PERSTANS* ON THE METABOLIC PROFILE OF LEAN, OVERWEIGHT AND OBESE INDIVIDUALS IN CAMEROON (FIMMIP)

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DOXYCYCLINE TREATMENT REDUCES IMMUNE ACTIVATION OF CD4$^+$ T CELLS AS WELL AS CLINICAL SIGNS OF INFLAMMATION IN PATIENTS WITH FILARIAL LYMPHEDEMA IN TANZANIA

Anja Feichtner[1], Sacha Horn[1], Abdallah Ngenya[2], Max Demetrius[2], Winifrida John[2], Ndekya Urio[2], Jubin Osei-Mensa[3], Ute Klarmann-Schulz[4], Janina Kuehlwein[4], Manuel Ritter[4], Achim Hoerauf[4], Michael Hoelscher[1], Linda Batsa Debrah[3], Alexander Debrah[3], Upendo Mwingira[2], Akili Kalinga[5], **Inge Kroidl**[1]
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Helminths – Nematodes – Filariasis (Other)

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EVALUATION OF THE BIOLOGICAL ACTIVITY OF CHEMICAL CONSTITUENTS FROM THE STEMBARK OF *KIGELIA AFRICANA*, A CAMEROONIAN MEDICINAL PLANT, AGAINST *ONCHOCERCA OCHENGI* PARASITES

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EVALUATION OF SLASH AND CLEAR COMMUNITY-DIRECTED ONCHOCERCIASIS VECTOR CONTROL INTERVENTION IN THE TROPICAL RAINFOREST OF LIBERIA

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8168

PARASITOLOGICAL INDICATORS SUGGESTS THAT ONCHOCERCIASIS MIGHT LIKELY NEVER BEEN ELIMINATED IN THE YABASSI HEALTH DISTRICT (LITTORAL REGION, CAMEROON) USING IVERMECTIN SOLELY: URGENT NEED OF COMPLEMENTARY INTERVENTIONS

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REBOUND IN PREVALENCE AND INTENSITY OF ONCHOCERCA VOLVULUS INFECTION FIVE YEARS AFTER CESSATION OF ALTERNATIVE TREATMENT STRATEGIES IN THE MASSANGAM HEALTH DISTRICT, WEST REGION, CAMEROON: NEED FOR COORDINATED AND SUSTAINED EFFORTS

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ADMINISTRATION OF THE SUPERVISOR'S COVERAGE TOOL TO ASSESS THERAPEUTIC COVERAGES OF MASS DRUG ADMINISTRATION FOR ELIMINATION OF NEGLECTED TROPICAL DISEASES IN 3 LGAS OF AKWA IBOM STATE, NIGERIA

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Helminths – Nematodes – Filariasis (Treatment and Morbidity Management)

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MANAGEMENT PRACTICES AND THEIR ASSOCIATED FACTORS AMONG LYMPHOEDEMA PATIENTS ATTENDING LYMPHOEDEMA CLINICS IN SELECTED ENDEMIC DISTRICTS FOR LYMPHATIC FILARIASIS IN SRI LANKA

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(ACMCIP Abstract)

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ADAPTIVE BASKET TRIAL TO ASSESS THE EFFICACY AND SAFETY OF OXFENDAZOLE AS PAN-NEMATODE CANDIDATE IN ONCHOCERCIASIS, LOIASIS, MANSONELLOSIS AND TRICHURIASIS PATIENTS

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(ACMCIP Abstract)

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RESULTS OF STOP TREATMENT ASSESSMENTS FOR ONCHOCERCIASIS IN SEVEN DISTRICTS OF LOWER MADI MID NORTH FOCUS, UGANDA

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(ACMCIP Abstract)

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BARRIERS TO MORBIDITY MANAGEMENT AND DISABILITY PREVENTION (MMDP) CARE IN BENISHANGUL GUMUZ REGION, ETHIOPIA

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(ACMCIP Abstract)

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PROGRAMMATIC IMPLEMENTATION OF THE TRIPLE DRUG MASS DRUG ADMINISTRATION FOR LYMPHATIC FILARIASIS ELIMINATION IN HAITI

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(ACMCIP Abstract)

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THE HEALTH AND WELLNESS IMPACT OF HOPE GROUPS FOR PEOPLE WITH LYMPHATIC FILARIASIS IN EBONYI STATE, NIGERIA: PATIENT DATA AT BASELINE

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(ACMCIP Abstract)

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MASS SURGERY WEEKS FOR TREATMENT OF HYDROCELE DUE TO LYMPHATIC FILARIASIS IN PLATEAU AND NASARAWA STATES, CENTRAL NIGERIA, 2020 - 2021

Abel Eigege[1], Nuhu K. Dakum[2], Christian Agbo[2], Henry Embu[2], Sumi Benjamin Garkuwa[3], Bulus S. Mancha[1], Samuel Audu Kwarsen[3], Mafwalal Bunah Masok[3], Philemon Dagwa[3], Ibrahim Adamu[4], Jacob Danboyi[4], Emmanuel Davies[5], Nseobong Akpan[5], John Umaru[1], Lindsay Rakers[6], Emily Griswold[6], Frank O. Richards[6], Gregory S. Noland[6], Emmanuel S. Miri[1]

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(ACMCIP Abstract)

Kinetoplastida and Other Protozoa - Invasion, Cellular and Molecular Biology (Including *Leishmania* and Trypanosomes)

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DETERMINING THE FUNCTION OF AN APICOPLAST-LOCALIZED GTPASE IN *TOXOPLASMA GONDII*

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(ACMCIP Abstract)

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COMPARISON OF CARDIAC FIBROSIS CAUSED BY *TRYPANOSOMA CRUZI* IN THE CHRONIC PHASE IN *IN VIVO* MODELS OF MICE(BALB/C, SWISS), AND *CAVIA PORCELLUS*

JOSSELYN K. VACA[1], **Carlos Javier Neyra Palacios**[1], Edith M. Málaga Machaca[1], MANUELA R. Verástegui[2], Solange B. Custodio[1], Robert B. Gilman[1]
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(ACMCIP Abstract)

Kinetoplastida and Other Protozoa - Treatment, Drug Delivery, Drug Repurposing and Drug Discovery (Including *Leishmania* and Trypanosomes)

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SUCCESSFUL REPURPOSING OF FDA-APPROVED DRUGS AGAINST *LEISHMANIA* PARASITES PREVIOUSLY PREDICTED THROUGH A MACHINE LEARNING APPROACH

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CONSIDERATION OF FEXINIDAZOLE AS A NOVEL TREATMENT OPTION FOR RHODESIENSE-HUMAN AFRICAN TRYPANOSOMIASIS

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CLINICAL PRESENTATION AND MANAGEMENT OF CUTANEOUS LEISHMANIASIS AMONG NEWLY ARRIVED AFGHAN EVACUEE CHILDREN

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TARGET-BASED 6-5 FUSED RING HETEROCYCLIC SCAFFOLDS DISPLAY BROAD ANTIPARASITIC POTENCY *IN VITRO*

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IMMUNOMODULATION EFFECT OF HOOKWORM PROTEINS ON CHRONIC CHAGASIC LIVER MODELS

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IMPROVED TREATMENT OUTCOME FOLLOWING THE USE OF A WOUND DRESSINGS IN CUTANEOUS LEISHMANIASIS LESIONS

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IMPROVING THE LEISHMANICIDAL ACTIVITY OF MILTEFOSINE USING SPRAYABLE DRESSINGS BASED ON NANOFIBERS OF PVP/TETRONIC®/CYCLODEXTRINS

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A VALID 96-WELL-PLATE-ENZYMATIC ASSAY FOR *LEISHMANIA* METHYLTHIOADENOSINE PHOSPHORYLASE MTAP PROTEIN, A CANDIDATE DRUG TARGET

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OPTIMIZING THE MULTI-FACETED PIPELINE OF AI-BASED DRUG DISCOVERY AGAINST INFECTIOUS DISEASES

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FEXINIDAZOLE IN PATIENTS WITH HUMAN AFRICAN TRYPANOSOMIASIS DUE TO *TRYPANOSOMA BRUCEI RHODESIENSE*, TOWARDS AN ARSENIC FREE FIRST LINE THERAPY

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IN VITRO EVALUATION OF THE ANTI AMOEBIC ACTIVITY OF BENZOTHIAZOLE BT3 AGAINST *ENTAMOEBA HISTOLYTICA*

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FACTORS ASSOCIATED WITH RELAPSE IN VISCERAL LEISHMANIASIS: AN INDIVIDUAL PATIENT DATA META-ANALYSIS USING THE INFECTIOUS DISEASES DATA OBSERVATORY DATA PLATFORM

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LEVERAGING ML AND DL MODELS FOR DRUG REPURPOSING: A SUCCESSFUL CASE STUDY ON *LEISHMANIA* PARASITES

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EVALUATION OF TCNMT OF NOVEL IN-SILICO INHIBITORS AGAINST *TRYPANOSOMA CRUZI* N-MYRISTOYLTRANSFERASE

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Kinetoplastida and Other Protozoa - Vaccines (Including *Leishmania* and Trypanosomes)

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HEAT SHOCK PROTEIN TCJ2: A NOVEL MRNA VACCINE CANDIDATE FOR CHAGAS DISEASE IDENTIFIED THROUGH IMMUNOPEPTIDOMICS

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IMMUNOTHERAPY WITH TSA-1 C4 COMBINED WITH BZN INDUCES DIVERGENT IMMUNE RESPONSE BUT CONFERS PROTECTION AGAINST *TRYPANOSOMA CRUZI* INFECTION

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IMPACT OF MALNUTRITION ON THE EFFICACY OF LMCEN-/- VACCINE

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Measures for Control and Elimination of Neglected Tropical Diseases (NTDs)

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EMPOWERING YOUTH AGAINST LYMPHATIC FILARIASIS: A GAME-CHANGING APPROACH TO URBAN DRUG COMPLIANCE

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THREE GEOSPATIAL APPROACHES OFFER INSIGHTS INTO PLANNING EFFECTIVE MDAS FOR NTDS IN WEST AFRICA

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ROLES OF COMMUNITY DRUG DISTRIBUTORS FOLLOWING THE HALT OF MASS DRUG ADMINISTRATION FOR ONCHOCERCIASIS IN UGANDA

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ELIMINATING ONCHOCERCIASIS IN NIGERIA: SUCCESSES, FAILURES, AND LEARNINGS FROM CROSS RIVER STATE

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HYPERENDEMICITY OF SOIL-TRANSMITTED INFECTIONS IN CHILDREN OF THE HONDURAS TROPICAL RAINFOREST

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COMMUNITY LEADERS ACTION GROUP: A SOCIAL CATALYST TO INCREASE MASS DRUG ADMINISTRATION COVERAGE AND COMMUNITY SUPPORT FOR COMMUNITY-DIRECTED DISTRIBUTORS

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A PROGRAMMATIC OVERVIEW OF THE GULF SOUTH VECTOR EDUCATIONAL CENTERS FOR TRAINING, OUTREACH, AND RESOURCES (VECTOR) COLLABORATIVE

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OSELTAMIVIR, A NON-METRONIDAZOLE CLASS OF COMPOUND, AFFECTS RAFT ASSEMBLY, VESICLE BIOGENESIS, AND HOST-PARASITE INTERACTIONS BY *GIARDIA*

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TRUST IN THE HEALTHCARE SYSTEM AND NATIONAL CONTROL PROGRAMMES IN A RURAL SETTING IN CAMEROON: AN ECONOMIC EXPERIMENT

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INTEGRATION OF HYGIENE MEASURES FOR LYMPHEDEMA MANAGEMENT INTO COMMUNITY HEALTH CENTERS' MINIMAL PACKAGE OF ACTIVITIES IN TWO RURAL SETTINGS, MALI

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LEVERAGING FULL GEOGRAPHICAL COVERAGE APPROACH TO TRACHOMATOUS TRICHIASIS CASE FINDING AND MANAGEMENT WITH CATARACT TO SUSTAIN SERVICES IN TANZANIA

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THE INFLUENCE OF RUMORS AND MISINFORMATION ON ONCHOCERCIASIS ELIMINATION - EVIDENCE FROM CROSS BORDER REGION OF MALI

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THE THERAPEUTIC EFFICACY OF ALBENDAZOLE AND IVERMECTIN AGAINST SOIL-TRANSMITTED HELMINTH INFECTIONS IN RWANDA

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UNDERSTANDING PERCEPTIONS OF SCHISTOSOMIASIS AND ITS CONTROL AMONG HIGHLY ENDEMIC LAKESHORE COMMUNITIES IN MAYUGE; UGANDA

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OUTBREAK OF *PLASMODIUM VIVAX* INFECTION IN A NATIVE COMMUNITY OF CONDORCANQUI PROVINCE, AMAZONAS, PERU IN 2023

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GEOSPATIAL MODELLING TO PREDICT SOIL-TRANSMITTED HELMINTH RISK IN SCHOOLCHILDREN IN DAK LAK PROVINCE, VIETNAM

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ACCEPTABILITY OF INTEGRATED NEGLECTED TROPICAL DISEASES SURVEYS AND MASS DRUG ADMINISTRATION IN VANUATU

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One Health: The Interconnection between People, Animals, Plants and Their Shared Environment

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PILOTING INTEGRATION OF HUMAN, ANIMAL AND ENVIRONMENTAL ANTIMICROBIAL RESISTANCE (AMR) SURVEILLANCE TO MONITOR ESBL-PRODUCING *E. COLI* USING A ONE HEALTH APPROACH IN BANGLADESH

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MOLECULAR CHARACTERIZATION OF EXTENDED SPECTRUM BETA LACTAMASE PRODUCING ESCHERICHIA COLI AMONG CHILDREN AND FARM ANIMALS IN AGOGO, ASANTE AKIM MUNICIPAL, GHANA

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Bertin Kipre Guede, Valerie Carole Gbonon, Anatole Abale Toty, Fernique Konan Kouadio, Félicité Beudjé, Safiatou Teninba Mariko, Bertin Konan Tiekoura, Nathalie Aya Guessennd-Kouadio, Mireille Carmen Dosso-Bretin

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SEROPREVALENCE OF BACTERIAL ZOONOSES IN A BIODIVERSITY HOTSPOT: A CROSS-SECTIONAL STUDY FROM MEGHALAYA, INDIA

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DESCRIPTIVE ANALYSIS OF ZOONOSES ACQUIRED BY TRAVELERS RETURNING TO CANADA FROM 2013-2023

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BABOON-HUMAN CONFLICT, COEXISTENCE AND COMMON BABOON MICROBIOME IN AL-BAHA REGION, SAUDI ARABIA

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PLASMODIUM SPP. AND FILARIAL INFECTIONS IN MACAQUES IN BELITUNG DISTRICT, INDONESIA

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COMMUNITY PRACTICES CONTRIBUTING TO MAGNITUDE AND RECURRENCE OF ANTHRAX OUTBREAK IN MURANG'A COUNTY IN KENYA, FEBRUARY 2024

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A ONE HEALTH APPROACH TO ASSESSMENT OF PATHOGEN EXPOSURE ACROSS INFORMAL SETTLEMENTS: APPLICATION OF BOOT SOCK SAMPLING AND SOURCE TRACKING METHODS

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ASSESSING PYRAZINOIC ACID EFFLUX VELOCITY, UNVEILING THE IMPACT OF RV1258C AND RV0191 ON PYRAZINAMIDE RESISTANCE IN MYCOBACTERIUM TUBERCULOSIS

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THE DECEPTIVE LUNG: PULMONARY TUBERCULOSIS MIMICKING INTERSTITIAL LUNG DISEASE

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PENICILLIN NON-SUSCEPTIBILITY IN PNEUMOCOCCAL CARRIAGE ISOLATES FROM PATIENTS WITH ACUTE RESPIRATORY ILLNESS IN KENYA, 2017 - 2020

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EQUITABLE AND REAL-WORLD ASSESMENT OF TUBERCULOSIS CATASTROPHIC COSTS

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RISK FACTORS FOR ILLNESS SEVERITY AMONG HOSPITALIZED CHILDREN <5 YEARS IN PERU, 2017 2018

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VIRAL ETIOLOGY AND EPIDEMIOLOGIC INVESTIGATION OF PATIENTS WITH SEVERE ACUTE RESPIRATORY ILLNESS IN GHANA, JANUARY 2021-MAY 2022

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INCIDENCE OF ACUTE RESPIRATORY ILLNESSES IN CHILDREN IN A PERIURBAN COMMUNITY OF LIMA, PERU

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TUBERCULOSIS: MEN DIE MORE

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Schistosomiasis and Other Trematodes – Epidemiology and Control

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BIOMARKER DISCOVERY AND ASSAY DEVELOPMENT TO DETECT ANTIBODIES TO SCHISTOSOMA HAEMATOBIUM

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UNDERSTANDING THE IMPACT OF *SCHISTOSOMA HAEMATOBIUM* INFECTION AMONG GAMBIAN SCHOOL-AGED CHILDREN: EPIDEMIOLOGICAL AND IMMUNOLOGICAL INSIGHTS

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Mario A. Jiz[1], Ralph Aniceto[1], Hannah Wu[2], Jonathan D. Kurtis[2], Veronica Tallo[1], Andreas Neumayr[3], Christoph Hatz[3], Jennifer Friedman[2], Joachim Richter[4]
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FEMALE GENITAL SCHISTOSOMIASIS (FGS) KNOWLEDGE GAPS AND NEEDS IN SUB-SAHARAN AFRICA: ANALYSIS AND REVIEW OF ACTION PLANS GENERATED FROM A PEER-TO-PEER EDUCATION METHOD

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PREVALENCE AND INFECTION INTENSITIES OF *SCHISTOSOMA MANSONI* IN VILLAGES DESIGNATED PERSISTENT HOTSPOTS AND NON-PERSISTENT HOTSPOTS IN WESTERN KENYA

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A FRAMEWORK FOR UNDERSTANDING AND ADDRESSING BIOLOGICAL AND OPERATIONAL HOTSPOTS IN SCHISTOSOMIASIS CONTROL

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A PUBLIC DATABASE CATALOGING GEOGRAPHICAL, SEQUENCE AND FUNCTIONAL VARIATION IN $TRPM_{PZQ}$, A CANDIDATE LOCUS FOR PRAZIQUANTEL RESISTANCE.

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DETECTION OF *NEORICKETTSIA SPP*. IN SUSCEPTIBLE OR RESISTANT *FASCIOLA HEPATICA* OBTAINED FROM NATURALLY INFECTED CATTLE IN CUSCO, PERU

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COMMUNITY PREFERENCES FOR INTERVENTIONS TO REDUCE HUMAN TO SNAIL TRANSMISSION OF SCHISTOSOMIASIS IN MAYUGE DISTRICT UGANDA

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UNRAVELLING THE TRUE IMPACT OF SCHISTOSOMIASIS: REDEFINING THE WHO ELIMINATION AS A PUBLIC HEALTH PROBLEM TARGET

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Schistosomiasis and Other Trematodes – Immunology, Pathology, Cellular and Molecular Biology

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MAPPING AND VALIDATION OF MICROSATELLITE MARKERS FOR SCHISTOSOMA HAEMATOBIUM: INSIGHTS FROM POOLED SAMPLES IN SENEGAL AND GABON

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(ACMCIP Abstract)

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EFFECT OF *SCHISTOSOMA MANSONI* INFECTION ON GUT MICROBIOTA IN PRE-SCHOOL AGED CHILDREN IN ALBERTINE REGION, UGANDA

Andrew Edielu[1], John Kelvin Mugerwa[1], Gloria Oduru[1], Jacent Nassuuna[1], Hannah W. Wu[2], Susannah Colt[2], Emily L. Webb[3], Jennifer F. Friedman[2], Patrice Akusa Mawa[1], Amaya L. Bustinduy[3], Martin Holland[3]
[1]MRC/UVRI & LSHTM Uganda Research Unit, Entebbe, Uganda, [2]Rhode Island Hospital, Center for International Health Research, Providence, RI, United States, [3]London School of Hygiene & Tropical Medicine, London, United Kingdom

(ACMCIP Abstract)

8265

CHARACTERIZATION AND FUNCTIONAL ANALYSIS OF THE MICROBIOTA OF THE INTERMEDIATE HOSTS OF SCHISTOSOMES

Peter McCann[1], Julainne Megaw[1], Cinzia Cantacessi[2], Karen Siu-Ting[1], Geoffrey Gobert[1]
[1]Queen's University Belfast, Belfast, United Kingdom, [2]University of Cambridge, Cambridge, United Kingdom

(ACMCIP Abstract)

8266

DNA METHYLATION PROFILES IN UROTHELIAL BLADDER CANCER TISSUES AND CHILDREN WITH SCHISTOSOMIASIS FROM EGGUA, OGUN STATE NIGERIA

Chiaka I. Anumudu[1], Cephas A. Akpabio[2], Rachel P. Ebuh[2], Oluwaseun E. Fatunla[3], Henrietta O. Awobode[4]
[1]Cellular Parasitology Programme Departement of Zoology, University of Ibadan, Ibadan, Nigeria, [2]University of Ibadan, Ibadan, Nigeria, [3]Department of Pathology, University College Hospital, Ibadan, Nigeria, [4]Department of Zoology, University of Ibadan, Ibadan, Nigeria

(ACMCIP Abstract)

8267

DEEP HUMORAL PROFILING COUPLED WITH MACHINE LEARNING REVEALS NOVEL DIAGNOSTIC AND MORBIDITY BIOMARKERS FOR SCHISTOSOMIASIS PATHOPHYSIOLOGY

Pedro Marcal[1], Maurice R. Odiere[2], E. A. Kavere[3], R. Kiplimo[3], A. Eleveld[3], A. Mwaki[3], Sukwan Handali[4], William E. Secor[4], Aniruddh Sarkar[1]
[1]Georgia Institute of Technology, Atlanta, GA, United States, [2]Centre for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya, [3]Safe Water and AIDS Project, Kisumu, Kenya, [4]Centers for Disease Control and Prevention, Atlanta, GA, United States

(ACMCIP Abstract)

8268

THE ROLE OF INTESTINAL MORBIDITY IN THE PATHOGENESIS OF ANEMIA AMONG YOUNG CHILDREN FROM LAKE ALBERT, UGANDA WITH S. MANSONI INFECTION

Susannah Colt[1], Andrew Edielu[2], Gloria Kakoba Ayebazibwe[3], Rachael Nakyesige[3], Hannah Wu[1], Kanika Men[1], Elise Kurtis[1], Patrice Mawa[3], Emily Webb[2], Amaya Bustinduy[2], Jennifer Friedman[1]
[1]Center for International Health Research, RI Hospital and Alpert Medical School of Brown University, Providence, RI, United States, [2]London School of Hygiene & Tropical Medicine, London, United Kingdom, [3]Medical Research Council-London School of Hygiene & Tropical Medicine Research Unit, Entebbe, Uganda

(ACMCIP Abstract)

8269

SCHISTOSOMIASIS JAPONICUM INFECTION IN THE PHILIPPINES: LOW PREVALENCE AMONG CHILDREN AGED 1-4 YEARS AND CORRELATION BETWEEN HELMINTH BURDEN AND INTESTINE INFLAMMATION

Ralph Aniceto[1], Jennifer Friedman[2], Hannah Wu[3], Mario Antonio Jiz[1], Veronica Tallo[1], Marianette Inobaya[1], Marianne Joy Sagliba[1], Amabelle Joy Moreno[1]
[1]Research Institute for Tropical Medicine, Muntinlupa, Philippines, [2]Browne Universiy, Providence, RI, United States, [3]Browne University, Providence, RI, United States

(ACMCIP Abstract)

8270

SCHISTOSOMA MANSONI INFECTION IN THE SNAIL *BIOMPHALARIA GLABRATA*, IS ASSOCIATED WITH EXPRESSION PERTURBATION OF CARBONIC ANHYDRASE, THE HIV TRANS-ACTIVATOR OF TRANSCRIPTION, AND TELOMERASE

Gabriela Lewis, Simone Parn, Matty Knight
University of the District of Columbia, Washington, DC, United States

(ACMCIP Abstract)

8271

TROGOCYTOSIS: A POTENT MECHANISM FOR HOST RESISTANCE TO SCHISTOSOMIASIS

Jia Shen
Sun Yat-Sen University, Guangzhou, China

(ACMCIP Abstract)

8272

THE INTERACTION OF HOP, STRESS PROTEINS, AND PIWI IN THE MECHANISM OF CANALIZATION UNDERSCORES THE SUSCEPTIBILITY OF *BIOMPHALARIA GLABRATA* TO *SCHISTOSOMA MANSONI* INFECTION

Oumsalama Elhelu[1], Matty Knight[2], Clarence Lee[1]
[1]Howard University, Washington, DC, United States, [2]University of the District of Columbia, Washington, DC, United States

(ACMCIP Abstract)

Water, Sanitation, Hygiene and Environmental Health

8273

COMMUNITY AND INDIVIDUAL PREFERENCES FOR A NEW WATER INFRASTRUCTURE FOR NON-DRINKING ACTIVITIES IN A SCHISTOSOMIASIS ENDEMIC AREA

Raheema Chunara[1], Lazaaro Mujumbusi[2], Edith Nalwadda[3], Moses Arinaitwe[4], Lucy Pickering[1], Michael Templeton[5], Poppy Lamberton[1]
[1]University of Glasgow, Glasgow, United Kingdom, [2]Medical Research Council/Uganda Virus Research Institute & London School of Hygiene & Tropical Medicine Uganda Research Unit Uganda, Entebbe, Uganda, [3]Medical Research Council / Uganda Virus Research Institute | MRC/UVRI, Entebbe, Uganda, [4]Ministry of Health, Kampala, Uganda, [5]Faculty of Engineering, Department of Civil and Environmental Engineering, Imperial College London, London, United Kingdom

8274

ASSOCIATIONS BETWEEN INDICATORS OF WATER, SANITATION AND HYGIENE (WASH) AND MALARIA RISK: A STUDY OF URBAN SETTLEMENTS IN NIGERIA

Gift Wilfred Enang[1], Ifeoma D. Ozodiegwu[1], Bamgboye Eniola[1], Laurette Mhlanga[1], Yusuf Jamiu[1], Ikeoluwapo Ajayi[2]
[1]Loyola University Chicago, Maywood, IL, United States, [2]University of Ibadan, Ibadan, Nigeria

8275

ASSOCIATIONS BETWEEN MICRONUTRIENT STATUS, HORMONES, AND IMMUNE STATUS DURING PREGNANCY AND CHILD GROWTH IN RURAL BANGLADESH

Belinda Chen[1], Chih-Hsien Lin[1], Andrew Mertens[1], Sophia T. Tan[2], Farheen Jamshed[1], Diego Figueroa[1], Caitlin Hemlock[3], Zachary Butzin-Dozier[1], Lia C. H. Fernald[1], Christine P. Stewart[4], Alan E. Hubbard[1], Md. Ziaur Rahman[5], Shahjahan Ali[6], Benjamin F. Arnold[7], Firdaus S. Dhabhar[8], Douglas Granger[9], Mahbubur Rahman[10], Stephen P. Luby[2], Jack Colford[1], Audrie Lin[11]
[1]UC Berkeley School of Public Health, Berkeley, CA, United States, [2]Division of Infectious Diseases and Geographic Medicine, Stanford University, Stanford, CA, United States, [3]Department of Environmental and Occupational Health Sciences, University of Washington, Seattle, WA, United States, [4]University of California Davis, Institute for Global Nutrition, Davis, CA, United States, [5]University of California, Santa Cruz, Department of Microbiology and Environmental Toxicology, Santa Cruz, CA, United States, [6]Department of Epidemiology, Colorado School of Public Health, University of Colorado,, Denver, CO, United States, [7]Francis I. Proctor Foundation, University of California San Francisco, San Francisco, CA, United States, [8]Department of Psychiatry & Behavioral Sciences, Department of Microbiology and Immunology, Sylvester Comprehensive Cancer Center, Miller School of Medicine, University of Miami, Miami, FL, United States, [9]Institute for Interdisciplinary Salivary Bioscience Research, University of California, Irvine, Irvine, CA, United States, [10]Environmental Health and WASH, Health System and Population Studies Division, International Centre for Diarrhoeal Disease Research, Dhaka, Bangladesh, [11]Department of Environmental and Occupational Health Sciences, University of Washington, Santa Cruz, CA, United States

8276

WEATHER AND SEASON PREDICTORS OF INFANT DIARRHEAL ILLNESS AND HOUSEHOLD STORED WATER CONTAMINATION IN CLIMATE-VULNERABLE, URBAN, COASTAL MOZAMBIQUE

Rebecca Kann
University of Washington, Seattle, WA, United States

8277

PROCESS EVALUATION FOR THE DELIVERY OF A WATER, SANITATION AND HYGIENE MOBILE HEALTH PROGRAM IN THE DEMOCRATIC REPUBLIC OF THE CONGO: RANDOMIZED CONTROLLED TRIAL OF THE PREVENTIVE INTERVENTION FOR CHOLERA FOR 7 DAYS (PICHA7) PROGRAM

Presence Sanvura[1], Kelly Endres[2], Jean-Claude Rusanga[1], Lucien Bisimwa[1], Jamie Perin[2], Camille Williams[2], Cirhuza Cikomola[1], Justin Bengehya[3], Ghislain Maheshe[1], Alain Mwishingo[1], Christine Marie George[2]
[1]Catholic University of Bukavu, Bukavu, Democratic Republic of the Congo, [2]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [3]Bureau de l'Information Sanitaire, Surveillance Epidémiologique et Recherche Scientifique, Division Provinciale de la Santé Sud Kivu, Bukavu, Democratic Republic of the Congo

8278

SYSTEMATIC REVIEW OF THE ASSOCIATION BETWEEN COLIFORM BACTERIA IN DRINKING WATER AND DIARRHEA

Amber Jacobsen[1], Sara dos Santos Almeida[2], Peter Jensen[2]
[1]University of South Carolina School of Medicine Greenville, Greenville, SC, United States, [2]University of Copenhagen, Copenhagen, Denmark

8279

UNIVERSITY STUDENT AWARENESS OF INTESTINAL PARASITES AND PREVENTIVE BEHAVIOR IN EASTERN SAUDI ARABIA

Sarah A. Alshuhaib[1], Maryam M. Alnasser[1], Mehwish Hussain[1], **Ayman A. El-Badry**[2]
[1]College of Public Health, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia, [2]Cairo University Kasr Al-Ainy Faculty of Medicine, Egypt & Imam Abdulrahman Bin Faisal University, Saudi Arabia, Cairo, Egypt - Dammam, Saudi Arabia -, Egypt

8280

INFLUENCE OF MATERNAL AND CHILD FUT2 SECRETOR STATUS ON GROWTH AND ON THE EFFICACY OF WATER, SANITATION, HANDWASHING, AND NUTRITION INTERVENTIONS ON ENVIRONMENTAL ENTERIC DYSFUNCTION IN RURAL BANGLADESH

Ronit Gupta[1], Andrew N. Mertens[2], Akram Ullah[3], Tahmeed Ahmed[4], Rashidul Haque[3], Mamun Kabir[3], Mondar M. M. Ahmed[3], Mustafa Mahfuz[4], Shahjahan Ali[5], Mohammad Alauddin[6], Md. Ziaur Rahman[7], Jessica Grembi[8], Abul K. Shoab[9], Mahbubur Rahman[9], Leanne Unicomb[9], Benjamin F. Arnold[10], Syeda L. Famida[3], Salma Akther[3], Md. Saheen Hossen[3], Palash Mutsuddi[3], Alan E. Hubbard[11], Christine P. Stewart[12], John M. Colford Jr.[11], Stephen P. Luby[8], Audrie Lin[7]
[1]Department of Biostatistics, T.H. Chan School of Public Health, Harvard University, Boston, MA, United States, [2]Division of Epidemiology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, [3]Infectious Diseases Division, International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, [4]Nutrition Research Division, International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, [5]Department of Epidemiology, Colorado School of Public Health, University of Colorado, Denver, CO, United States, [6]Department of Chemistry, Wagner College, Staten Island, NY, United States, [7]Department of Microbiology and Environmental Toxicology, University of California, Santa Cruz, Santa Cruz, CA, United States, [8]Division of Infectious Diseases and Geographic Medicine, Stanford University, Stanford, CA, United States, [9]Health System and Population Studies Division, International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, [10]Francis I. Proctor Foundation, University of California, San Francisco, San Francisco, CA, United States, [11]Division of Epidemiology and Biostatistics, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, [12]Department of Nutrition, University of California, Davis, Davis, CA, United States

8281

USE OF SOLAR DISINFECTION WITH ALUMINUM TO IMPROVE WATER QUALITY IN RURAL AREAS OF THE NORTHERN ANDES OF PERU

Jesús Rascón[1], Fátima Burgos[1], Lily del Pilar Juarez-Contreras[2], Oscar Gamarra-Torres[2]
[1]Instituto de Investigación de Enfermedades Tropicales, Universidad Nacional Toribio Rodríguez de Mendoza de Amazonas (UNTRM), Chachapoyas, Peru, [2]Instituto de Investigación para el Desarrollo Sustentable de Ceja de Selva (INDES-CES), Universidad Nacional Toribio Rodríguez de Mendoza de Amazonas (UNTRM), Chachapoyas, Peru

8282

SEVEN YEARS OF EXPOSURE TO A HIGHLY FECAL CONTAMINATED ENVIRONMENT: A STUDY IN 24 INFORMAL SETTLEMENTS IN THE ASIA-PACIFIC REGION

Yussi Marlene Palacios Delgado[1], Maghfira Saidfuddaolah[2], Vina Waqa[3], S. Fiona Barker[1], Rebekah Henry[1], Brandon Winfrey[1], Karin Leder[1]
[1]Monash University, Melbourne, Australia, [2]Hasanuddin University, Makassar, Indonesia, [3]Fiji National University, Suva, Fiji

8283

MATERNAL ESTRIOL DURING EARLY GESTATION IS ASSOCIATED WITH CHILD DEVELOPMENT IN RURAL BANGLADESH

Nicol Hernandez, Arlene Tan
WASH Benefit Trials, Santa Cruz, CA, United States

8284

MONITORING ANTIBIOTIC RESISTANCE GENES ACROSS NEW ORLEANS RIVER AND LAKE WATERS

Claire E. Schwarze, Jessica M. Blanton, Ronald E. Blanton
Tulane University, New Orleans, LA, United States

8285

DETECTION OF *SALMONELLA* TYPHI AND BLA_{CTX-M} GENES IN DRINKING WATER, WASTEWATER, AND ENVIRONMENTAL BIOFILMS IN SINDH PROVINCE, PAKISTAN

Ayesha Tajammul[1], Scott Benson[2], Jamil Ahmed[3], Jim VanDerslice[2], **Windy Tanner**[4]
[1]U.S. Pakistan Center for Advanced Studies in Water, Mehran University of Engineering and Technology, Jamshoro, Pakistan, [2]University of Utah, Salt Lake City, UT, United States, [3]Rashid Latif Khan University Medical College, Lahore, Pakistan, [4]Yale University, New Haven, CT, United States

8286

THE INTERPLAY AMONG GLUCOSYLCERAMIDE TRANSFERASE AND ENCYSTATION-SPECIFIC PROTEINS IS IMPORTANT FOR DRIVING THE PROCESS OF CYST FORMATION BY AN ANCIENT PROTOZOAN, *GIARDIA LAMBLIA*

Julio H. Rangel, Breanna C. Pence, Siddhartha Das
The University of Texas at El Paso, El Paso, TX, United States

8287

HIGH BURDEN OF ENTERIC PATHOGEN INFECTION IN MOTHER-CHILD PAIRS AND WASH INDICATORS IN RURAL AND PERI-URBAN COMMUNITIES OF BOLIVIA

Cinthia Copeticona-Callejas, Alejandra Gabriela Torrez Mamani, Belen Claudia Choque Pardo, Sonia Guadalupe Jiménez Pacohuanca, Volga Ana Iñiguez Rojas
Instituto de Biologia Molecular y Biotecnologia, La Paz, Plurinational State of Bolivia

Late-Breaker Abstract Session 122

Late-Breakers in Malaria

Convention Center - Room 391/392 (3rd Floor)
Saturday, November 16, 11:15 a.m. - 12:30 p.m.

This session does not carry CME credit.

This session is specifically designed for brief presentations of new data obtained after the closing date for abstract submission. See the Meeting App or Late-Breaker Abstract Presentation Schedule booklet (available online) for the presentation schedule.

CHAIR

Angela M. Early
Broad Institute of MIT and Harvard, Cambridge, MA, United States

Maisha Khair Nima
University of Notre Dame, Notre Dame, IN, United States

Meet the Professors Session 123

Meet the Professors: Dilemmas in Clinical Tropical Medicine, Cases from Peru

Convention Center - Room 388/389 (3rd Floor)
Saturday, November 16, 11:15 a.m. - 12:30 p.m.

Meet the Professors sessions are valuable learning experiences for trainees and practicing clinicians to hear about clinical reasoning from leaders in the field. In this session, Drs. Seas and Montes will present challenging and instructive clinical tropical medicine cases from Peru.

SESSION ORGANIZER

Daniel Leung
University of Utah, Salt Lake City, UT, United States

SESSION CHAIR

Carolina de la Flor
Universidad Peruana Cayetano Heredia, Lima, Peru

PRESENTATION #1

Carlos Seas
Universidad Peruana Cayetano Heredia, Lima, Peru

PRESENTATION #2

Martin Montes
Universidad Peruana Cayetano Heredia, Lima, Peru

Late-Breaker Abstract Session 124

Late-Breakers in Virology

Convention Center - Room 383/384/385 (3rd Floor)
Saturday, November 16, 11:15 a.m. - 12:30 p.m.

This session does not carry CME credit.

This session is specifically designed for brief presentations of new data obtained after the closing date for abstract submission. See the Meeting App or Late-Breaker Abstract Presentation Schedule booklet (available online) for the presentation schedule.

CHAIR

Sandra Laurence Lopez-Verges
Gorgas Memorial Institute for Health Studies, Panama, Panama

Jaime A. Cardona-Ospina
School of Public Health, University of California, Berkeley, Berkeley, CA, United States

Clinical Group (ACCTMTH) Past Presidents Meeting

Hilton - Marlborough A (2nd Floor)
Saturday, November 16, 11:15 a.m. - 12:30 p.m.

Poster Session C Viewing

Convention Center - Hall I-1 (1st Floor)
Saturday, November 16, 12:45 p.m. - 3 p.m.

Symposium 125

Smallpox to a Global Mpox Outbreak: How Did We Get Here and How Do We Regain Control?

Convention Center - Hall I-2 (1st Floor)
Saturday, November 16, 12:45 p.m. - 2:30 p.m.

Mpox is a zoonotic viral disease endemic in parts of Africa caused by monkeypox virus, a member of the Orthopox genus, which includes variola virus, the cause of smallpox. Two clades of monkeypox virus are recognized, found in Central and East (Clade I) and West (Clade II) Africa. Following first discovery in 1958 from infected monkeys being used for laboratory research (and hence the misnomer, since small mammals, rather than monkeys, are now thought to be the natural reservoir), sporadic human cases were reported across Central and West Africa throughout the 1970s, a pattern thought to reflect the increase in immunological susceptibility among persons born after the eradication of smallpox and the 1980 global cessation of smallpox vaccination, which also protects against mpox. Cases steadily increased in Central Africa over recent decades, with relatively little global attention until 2022, when circulation of a newly recognized sub-clade and mode of spread, primarily involving men who have sex with men (MSM) in high-income countries, resulted in a global epidemic, prompting the World Health Organization (WHO) to declare a Public Health Emergency of International Concern (PHEIC). Transmission was subsequently curbed in many areas of the world, but in the last year significant increases of cases and emergence of another new sub-clade in various countries in Central and East Africa have prompted a second WHO PHEIC

declaration, as well as declaration of a Public Health Emergency of Continental Security by the Africa Centers for Disease Control and Prevention. In this symposium, a panel of experts will discuss the transition from smallpox eradication to sporadic cases of mpox in Africa and then to a global outbreak, and strategies and challenges to combat this new situation.

CHAIR

Daniel G. Bausch
London School of Hygiene & Tropical Medicine, London, United Kingdom

Anne W. Rimoin
UCLA, Los Angeles, CA, United States

12:45 p.m.
PANELISTS

Emmanuel Agogo
FIND, Geneva, Switzerland

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

Rosamund Lewis
World Health Organization, Geneva, Switzerland

Jean-Jacques Muyembe Tamfum
National Institute for Biomedical Research, Kinshasa, Democratic Republic of the Congo

Symposium 126

Mosquito Larval Biology and Control

Convention Center - Room 343/344 (3rd Floor)
Saturday, November 16, 12:45 p.m. - 2:30 p.m.

Mosquito larvae are surprisingly complex organisms that have adapted to colonizing a variety of different aquatic environments, from temporary to permanent, clean to highly polluted, rural and urban, large and small water bodies, including even puddles or small water-filled containers. Larval source management (LSM) is routinely used for control of Aedes and Culex mosquitoes in control programs worldwide. As insecticide resistance to many commonly used insecticides develops, the discovery of new larvicides, ideally those with no impact on non-target organisms, will be critical to the future success of larval control programs and the prevention of arboviral diseases. Furthermore, although many malaria programs in Africa include larval source management (LSM) in their national strategic plans, the implementation of this vector control strategy for control of Anopheles mosquitoes has been limited. However, LSM is recognized as a key control tool for the invasive urban malaria vector, Anopheles stephensi, which has been identified in an increasing number of African countries, prompting interest in the pursuit of new LSM initiatives for malaria vector control in Africa. Here, we will discuss the biology and control of mosquito larvae, reviewing both opportunities for and barriers to LSM for Aedes, Culex, and Anopheles mosquitoes. #Prevention, #Molecular Biology, #Translational Science, #Field Studies, #Climate Change

CHAIR

Molly Duman Scheel
Indiana University School of Medicine, South Bend, IN, United States

Kristin Michel
Kansas State University, Manhattan, KS, United States

12:45 p.m.
INTRODUCTION

12:55 p.m.
YEAST RNAI LARVICIDES FOR MOSQUITO CONTROL

Molly Duman Scheel
Indiana University School of Medicine, South Bend, IN, United States

1:05 p.m.
LARVAL SOURCE MANAGEMENT OPPORTUNITIES AND CHALLENGES

David Malone
Gates Foundation, Seattle, WA, United States

1:15 p.m.
LARVAL SOURCE MANAGEMENT FOR MALARIA: PAST, PRESENT, AND FUTURE DIRECTIONS

Sarah Zohdy
U.S. President's Malaria Initiative, Centers for Disease Control, Atlanta, GA, United States

1:25 p.m.
EXECUTING EFFECTIVE LARVAL SOURCE MANAGEMENT IN GHANA

Otubea Ansah
National Malaria Control Programme, Ghana Health Service, Accra, Ghana

1:35 p.m.
ALARMING AND UNEXPECTED LARVICIDE RESISTANCE IN CULEX PIPIENS IN A WNV HOTSPOT

Lyric Bartholomay
Midwest Center of Excellence for Vector-Borne Disease, Madison, WI, United States

1:45 p.m.
BURNING QUESTIONS: WOOD BIOCHAR'S ROLE IN *AEDES AEGYPTI* OVIPOSITION AND DEVELOPMENT

Geoff Attardo
University of California, Davis, Davis, CA, United States

1:55 p.m.
MANIPULATING THE LARVAL MICROBIOME FOR MOSQUITO AND MOSQUITO-BORNE DISEASE CONTROL

Kerri Coon
University of Wisconsin, Madison, Madison, WI, United States

2:05 p.m.
MOSQUITO-FUNGAL INTERACTIONS AND THEIR POTENTIAL FOR LARVAL CONTROL

Molly Duman Scheel
Indiana University School of Medicine, South Bend, IN, United States

Session 127

ASTMH Annual Business Meeting

Convention Center - Room 345 (3rd Floor)
Saturday, November 16, 12:45 p.m. - 1:45 p.m.

Open to all attendees! Come learn about the work ASTMH is doing on your behalf.

CHAIR

Kent E. Kester
CEPI, Washington, DC, United States

Jamie Bay Nishi
American Society of Tropical Medicine and Hygiene, Arlington, VA, United States

Scientific Session 128

Clinical Tropical Medicine: Neglected Tropical Diseases

Convention Center - Room 352 (3rd Floor)
Saturday, November 16, 12:45 p.m. - 2:30 p.m.

This session does not carry CME credit.

#InfectiousDisease #Epidemiology #PopulationSurveillance #Modeling

CHAIR

Samuel Akech
KEMRI/Wellcome Trust Research Programme, Nairobi, Kenya

Owain Donnelly
Hospital for Tropical Diseases, University College London Hospitals (UCLH) NHS Foundation Trust, London, United Kingdom

12:45 p.m. **8288**

FLORENCE- A SMARTPHONE COPILOT BASED ON LARGE AI MULTIMODAL MODELS- : TEST IN CÔTE D'IVORE IN PATIENTS WITH SUSPECTED SKIN NEGLECTED TROPICAL DISEASES

Elena Dacal[1], Iago Veiras[1], Oscar Darias[1], Jaime García-Villena[1], Alvaro López-Caro[1], Alejandro Angulo[1], Labiya Toure[2], Ange Théodore Yao Kouakou[2], Aboa Paul Koffi[2], Christian R. Johnson[3], Emma Saéz-López[4], Israel Cruz[5], Miguel Luengo-Oroz[1]
[1]Spotlab, Madrid, Spain, [2]Programme National de Lutte contre l'Ulcère de Buruli, Divó, Côte D'Ivoire, [3]Fondation Raoul Follereau, Paris, France. University of Abomey-Calavi, Abomey-Calavi, Benin, [4]Department of Microbiology, Paediatrics, Radiology and Public Health, Faculty of Medicine, University of Zaragoza, Zaragoza, Spain. Spanish Network for Research on Respiratory Diseases (CIBERES), Carlos III Health Institute, Madrid, Spain, Zaragoza, Spain, [5]National School of Public Health, CIBERINFEC, Instituto de Salud Carlos III, Spain, Madrid, Spain

1 p.m. **8289**

DEMOGRAPHIC AND CLINICAL CHARACTERISTICS OF PATIENTS WITH CHROMOBLASTOMYCOSIS AND EUMYCETOMA IN EIGHT MEDICAL CENTERS, UNITED STATES

Dallas J. Smith[1], Vaisak Nair[2], Drashti Shah[3], George R. Thompson[4], Ilan S. Schwartz[5], Harrison White[6], Kaya L. Curtis[6], Poonam Sharma[7], William P. Daley[7], Robert T. Brodell[7], Rachel McMullen[3], Kaitlin Benedict[1], Jeremy A. W. Gold[1], Samantha Williams[1], Shari R. Lipner[6], Avrom S. Caplan[8], Eva Rawlings Parker[9], Peter G. Pappas[3], Paschalis Vergidis[2]
[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Mayo Clinic, Rochester, MN, United States, [3]University of Alabama at Birmingham School of Medicine, Birmingham, AL, United States, [4]University of California Davis Medical Center, Sacramento, CA, United States, [5]Duke University School of Medicine, Durham, NC, United States, [6]Weill Cornell Medicine, New York, NY, United States, [7]University of Mississippi Medical Center, Jackson, MS, United States, [8]NYU Grossman School of Medicine, New York, NY, United States, [9]Vanderbilt University Medical Center, Nashville, TN, United States

1:15 p.m. **8290**

TALAROMYCOSIS IN THE UNITED STATES: AN ANALYSIS OF COMMERCIAL HEALTH INSURANCE CLAIMS AND MEDICAID DATABASES, 2016 TO 2022

Kaitlin Benedict[1], **Dallas J. Smith**[1], Jeremy A. W. Gold[1], Thuy Le[2]
[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Duke University School of Medicine, Durham, NC, United States

1:30 p.m. **8291**

IMPORTED LEISHMANIASIS IN THE UNITED KINGDOM: CASE DATA AND OUTCOMES FROM A NATIONAL MULTIDISCIPLINARY TEAM MEETING

Owain Donnelly[1], Ciara Mahon[1], Rachel Southern-Thomas[1], Simran Goyal[1], Adam T. Gray[1], Mark S. Bailey[2], Jonathan Joseph[3], Peter L. Chiodini[4], June Minton[1], Naomi F. Walker[5], Sarah Eisen[6], Laura Nabarro[1], Stephen L. Walker[1], Anna Checkley[1]
[1]Hospital for Tropical Diseases, University College London Hospitals (UCLH) NHS Foundation Trust, London, United Kingdom, [2]Academic Department of Military Medicine, Royal Centre for Defence Medicine, Birmingham, United Kingdom, [3]Department of Rhinology, Royal National ENT and Eastman Dental Hospital, UCLH, London, United Kingdom, [4]Department of Clinical Parasitology, UCLH, London, United Kingdom, [5]Tropical and Infectious Diseases Unit, Liverpool University Hospitals NHS Foundation Trust, London, United Kingdom, [6]Department of Paediatrics, UCLH, London, United Kingdom

1:45 p.m. **8292**

CUTANEOUS LEISHMANIASIS IN NORTHERN SYRIA: A ONE YEAR DESCRIPTIVE ANALYSIS OF EPIDEMIOLOGICAL AND CLINICAL DATA

Ayla AlKharrat[1], Owen Bicknell[2], Basel Abdelal[2], Mouhannad Abdulkader[2], **Sergio Lopes**[1], Sara Estecha-Querol[1]
[1]The MENTOR Initiative, Haywards Heath, United Kingdom, [2]The MENTOR Initiative, Gaziantep, Syrian Arab Republic

2 p.m. **8293**

PEERING INTO THE CRYSTAL BALL - PREDICTING OUTCOMES IN VISCERAL LEISHMANIASIS

James P. Wilson[1], Forhad Chowdhury[1], Shermarke Hassan[1], Eli Harriss[1], Fabiana Alves[2], Ahmed Musa[3], Prabin Dahal[1], Kasia Stepniewska[1], Philippe J. Guérin[1]
[1]University of Oxford, Oxford, United Kingdom, [2]Drugs for Neglected Diseases initiative, Geneva, Switzerland, [3]University of Khartoum, Khartoum, Sudan

2:15 p.m. **8294**

EPIDEMIOLOGY, HEALTH-SEEKING BEHAVIORS AND TRADITIONAL PRACTICES RELATED TO SNAKEBITES IN RURAL AND TRIBAL COMMUNITIES IN SOUTHERN INDIA

Rohan Michael Ramesh[1], Ravikar Ralph[1], Mohan Jambugulam[1], Arpitha Anbu Deborah[1], Kumudha Aruldas[1], Sushil Mathew John[1], Judd L. Walson[2], Anand Zachariah[1], Sitara S.R Ajjampur[1]
[1]Christian Medical College Vellore, Vellore, India, [2]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

Scientific Session 129

Mosquitoes- Bionomics, Behavior and Surveillance

Convention Center - Room 353 (3rd Floor)
Saturday, November 16, 12:45 p.m. - 2:30 p.m.

#EcologicalStudies #Genomics #FieldStudies

CHAIR

Shirley C. Nimo-Paintsil
United States Naval Medical Research Unit-EURAFCENT, Accra, Ghana

Beatrice Helena Schildknecht
SwissTPh, Allschwil, Switzerland

12:45 p.m. 8295

SEASONAL TRANSITION OF *ANOPHELES STEPHENSI* AND *AEDES AEGYPTI* LARVAL HABITAT SUPERPRODUCTIVITY IN KEBRIDEHAR, ETHIOPIA

Solomon Yared[1], Dereje Dengela[2], Peter Mumba[3], Sheleme Chibsa[3], Seth Irish[4], Melissa Yoshimizu[5], Sarah Zohdy[6], Meshesha Balkew[2], Gonzalo M. Vazquez-Prokopec[7]
[1]Jigjiga University, Jigjiga, Ethiopia, [2]PMI Evolve Project, Abt Global, Addis Ababa, Ethiopia, [3]U.S. President's Malaria Initiative, USAID, Addis Ababa, Ethiopia, [4](at time of work) U.S. President's Malaria Initiative, Entomology Branch, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States, [5]U.S. President's Malaria Initiative, USAID, Washington, DC, United States, [6]6. U.S. President's Malaria Initiative, Entomology Branch, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States, [7]Emory University, Atlanta, GA, United States

1 p.m. 8296

A FOCUSED CASE-RESPONSE APPROACH TO MALARIA VECTOR SURVEILLANCE IN AREAS OF UNSTABLE TRANSMISSION

Sungano Mharakurwa[1], Tanatswa X. Gara-Mundere[1], Trust Nyakunu[1], Brenda Makonyere[1], Tariro Chikava[1], Natasha Mbwana[1], Charmaine Matimba[1], Nobert Mudare[1], Shungu Munyati[2], Lovemore Gwanzura[3]
[1]Africa University, Mutare, Zimbabwe, [2]Biomedical Research and Training Institute, Mutare, Zimbabwe, [3]Biomedical Research and Training Institute, Harare, Zimbabwe

1:15 p.m. 8297

DOES IVERMECTIN IMPAIR *ANOPHELES* ATTRACTIVENESS TOWARD TREATED HOSTS UNDER FIELDS AND LABORATORY CONDITIONS?

Lamidi Zela[1], Sié Hermann Pooda[2], Angélique Porciani[3], André Barembaye Sagna[4], Malik Bandaogo[1], A. N. Ramzy Kambou[1], Anyirekun Fabrice Somé[5], Christophe Roberge[6], Adrien M.G. Belem[7], Roch K. Dabiré[5], **Karine Mouline**[3]
[1]Centre International de Recherche-Développement sur L'Elevage en zone Subhumide, Bobo Dioulasso, Burkina Faso, [2]Université Ouezzin COULIBALY, Dédougou, Burkina Faso, [3]Institut de Recherche pour le Développement, Montpellier, France, [4]Institut de Recherche pour le Développement, Bobo Dioulasso, Burkina Faso, [5]Institut de Recherche en Sciences de la Santé, Bobo Dioulasso, Burkina Faso, [6]MEDINCELL, Jacou, France, [7]Université Nazi Boni, Bobo Dioulasso, Burkina Faso

1:30 p.m. 8298

COMPARING *ANOPHELES* BEHAVIOR WITH INTERCEPTOR® G2'S DUAL VS SINGLE ACTIVE INGREDIENTS: 3D VIDEO TRACKING ANALYSIS

Beatrice Helena Schildknecht, Pie Mueller
SwissTPH, Allschwil, Switzerland

1:45 p.m. 8299

VECTORCAM - A NOVEL AI-POWERED DIGITAL TOOL FOR AUTOMATED MORPHOLOGICAL IDENTIFICATION OF MOSQUITO SPECIES, SEX, AND ABDOMINAL STATUS BY VILLAGE HEALTH TEAMS IN UGANDA: A RANDOMIZED CONTROLLED TRIAL

Sunny Patel[1], Marina Rincon Torroella[1], Deming (Remus) Li[1], Atul Antony Zacharias[1], Parthvi Mehta[1], Shreya Raman[1], Kyle Cooper[1], David Onanyang[2], James Kaweesa[2], Kigongo Siriman[2], Jovan Batte[2], Neil Lobo[3], Douglas Norris[4], Catherine Maiteki[5], Jimmy Opigo[5], Peter Waiswa[6], Soumyadipta Acharya[1]
[1]Johns Hopkins University, Baltimore, MD, United States, [2]Vector Borne and Neglected Tropical Diseases Control Division, Ministry of Health, Kampala, Uganda, [3]University of Notre Dame, South Bend, IN, United States, [4]Johns Hopkins University, School of Public Health, Baltimore, MD, United States, [5]National Malaria Control Division, Ministry of Health, Kampala, Uganda, [6]Makerere University School of Public Health, Kampala, Uganda

2 p.m. 8300

GENOMIC EVALUATION REVEALS A STRONG POPULATION STRUCTURE OF *ANOPHELES FUNESTUS* COLLECTED IN COAST AND LAKE MALARIA ENDEMIC REGION IN KENYA

Brian Polo[1], Sylvia Milanoi[1], Diana Omoke[1], Cynthia Awuor[1], Duncan Onguru[2], Sanjay Nagi[3], Alistair Miles[4], Mara Lawniczak[5], Eric Ochomo[1]
[1]Kenya Medical Research Institute, Kisumu, Kenya, [2]Jaramogi Odinga Oginga University Science and Technology, Kisumu, Kenya, [3]Department of Vector Biology, Liverpool School of Tropical Medicine,, Liverpool, United Kingdom, [4]Wellcome Sanger Genomic Surveillance Unit, Wellcome Sanger Institute, Hinxton, Cambridge, United Kingdom, [5]Wellcome Sanger Institute, Cambridge, United Kingdom

2:15 p.m. 8301

EFFECT OF ECOLOGICAL ZONES AND CLIMATIC CONDITIONS ON MOSQUITO DIVERSITY IN GHANA: A LONGITUDINAL STUDY FROM 2017 - 2022

Eric Behene[1], Seth O. Addo[1], Ronald E. Bentil[1], Mba-Tihssommah Mosore[1], Reham A. Tageldin[2], Patrick Obuam[3], Sandra A. Kwarteng[3], Dorcas Atibilla[4], Bernice Baako[5], Victor Asoala[5], Ellis Owusu-Dabo[3], Naiki Attram[6], **Shirley C. Nimo-Paintsil**[6], Terrel Sanders[6], Andrew G. Letizia[6], Samuel K. Dadzie[1], James F. Harwood[7]
[1]Noguchi Memorial Institute for Medical Research, Accra, Ghana, [2]United States Naval Medical Research Unit EURAFCENT Cairo Detachment, Cairo, Egypt, [3]Kwame Nkrumah University of Science and Technology, School of Public Health, Kumasi, Ghana, [4]Kintampo Health Research Center, Bono East Region, Kintampo, Ghana, [5]Navrongo Health Research Center, Upper East Region, Navrongo, Ghana, [6]United States Naval Medical Research Unit EURAFCENT Ghana Detachment, Accra, Ghana, [7]United States Naval Medical Research Unit EURAFCENT, Sigonella, Italy

Symposium 130

Cooperation in Caring for Patients with Cystic Echinococcosis: International Experience from Referral Centers

Convention Center - Room 354/355 (3rd Floor)
Saturday, November 16, 12:45 p.m. - 2:30 p.m.

This symposium will present an overview of the interdisciplinary approach to difficult and unusual cases of cystic echinococcosis, a neglected tropical disease. Clinicians from referral centers from different countries will discuss treatment of CE patients seen in their practice, particularly those with puzzling and confusing presentations, in an attempt to clarify the basic tenets of clinical management of CE. #Clinical Research #InfectiousDiseases #Therapeutics

CHAIR

Enrico Brunetti
University of Pavia, San Matteo Hospital Foundation, Pavia, Italy

Christina Coyle
Albert Einstein College of Medicine, Jacobi Medical Center, New York, NY, United States

12:45 p.m.
INTRODUCTION

12:55 p.m.
CYSTIC ECHINOCOCCOSIS AND DIFFERENTIAL DIAGNOSIS WITH ALVEOLAR ECHINOCOCCOSIS - EXPERIENCE FROM A REFERRAL CENTER IN GERMANY

Marija Stojkovic
Department of Infectious Diseases and Tropical Medicine, Heidelberg University Hospital, Heidelberg, Germany

1:10 p.m.
PERCUTANEOUS TREATMENTS AND SURGERY FOR CE. WHERE DO WE DRAW THE LINE?

Okan Akhan
Hacettepe University - Bayindir Sögütözü Hospital, Ankara, Turkey

1:30 p.m.
CYSTIC ECHINOCOCCOSIS IN THE PERUVIAN HIGHLAND - HURDLES AND PERSPECTIVES

Miguel M. Cabada
UTMB, Houston, TX, United States

1:55 p.m.
CYSTIC ECHINOCOCCOSIS IN NEW YORK CITY

Christina Coyle
Albert Einstein College of Medicine - Jacobi Medical Center, New York, NY, United States

Symposium 131

Post-Viral Sequelae in Ebolavirus Infections: The Complicated Road to Recovery

Convention Center - Room 356 (3rd Floor)
Saturday, November 16, 12:45 p.m. - 2:30 p.m.

Long-term post-viral sequelae are a serious consequence following recovery from acute disease. This is particularly evident in the context of filovirus infections—such as Ebolavirus disease (EVD)—with post-Ebola syndrome (PES) being well documented in a growing cohort of survivors. Filoviral infections continue to emerge in sub-Saharan Africa as evidenced by recent outbreaks of Zaire Ebolavirus (EBOV) in the Democratic Republic of Congo, and the Sudan Ebolavirus (SUDV) in Uganda. With the continued emergence of EVD and improvement in specific treatments, a large cohort of nearly 20,000 EVD survivors now exists globally. PES has been well recognized and is described variably as a constellation of symptoms and physical exam findings. Among these varied signs and symptoms, specific presentations of PES exist with yet undescribed driving mechanisms. Major long-term signs and symptoms include musculoskeletal manifestations and recent studies show significant presentation of cardiopulmonary and neurocognitive deficits in EVD survivors. Despite active ongoing studies, long-term clinical sequelae in EVD survivors of SUDV infection have not been well described to date. While PES has been well noted, many questions surrounding the pathophysiology remain. What drives EVD survivors to present with particular PES phenotypes? As filoviruses continue to emerge, and EVD survivor numbers grow, it is imperative that we understand the long-term complications associated with survival from severe acute filoviral infections. Here we bring together a diverse group of speakers to discuss breakthroughs and key remaining questions in sequelae following recovery from EVD. #ClinicalResearch #Immunology #InfectiousDisease #Pathogenesis #TranslationalScience

CHAIR

Nell G. Bond
Tulane University School of Medicine, New Orleans, LA, United States

Robert J. Samuels
Kenema Government Hospital, Kenema, Sierra Leone

12:45 p.m.
INTRODUCTION

12:55 p.m.
LONG EBOLAVIRUS SUDV SYNDROME: TWO YEARS LATER

Haruna Muwonge
Makerere University, Kampala, Uganda

1:10 p.m.
EBOV LONG-TERM SEQUELAE AMONG A COHORT OF LIBERIAN EVD SURVIVORS

David Wohl
University of North Carolina, Chapel Hill, NC, United States

1:25 p.m.
REDUCED NEUROCOGNITIVE FUNCTION IN EVD SURVIVORS EITHER YEARS AFTER ACUTE INFECTION
Nell G. Bond
Tulane University SOM, New Orleans, LA, United States

1:40 p.m.
CHRONIC CARDIOPULMONARY DYSFUNCTION ASSOCIATED WITH POST-EBOLA SYNDROME
Samuel Ficenec
Tulane School of Medicine, New Orleans, LA, United States

Symposium 132

Mass Drug Administration of Ivermectin for Onchocerciasis Elimination: Can We Stop Sooner?

Convention Center - Room 357 (3rd Floor)
Saturday, November 16, 12:45 p.m. - 2:30 p.m.

Onchocerciasis is caused by Onchocerca volvulus, a filarial nematode that is transmitted by Simulium species (black flies) that breed in fast flowing rivers and streams. Infection can cause skin and eye disease, including blindness. The 2017 Global Burden of Disease Study estimated that 20.9 million people are infected with O. volvulus, 14.6 million have skin disease, and 1.15 million have vision loss, with most of the burden in Africa. The World Health Organization (WHO) has targeted onchocerciasis for elimination. The key strategy for onchocerciasis elimination is mass drug administration (MDA) with ivermectin, which suppresses the production of microfilariae in the skin. With repeated MDA, microfilariae levels are kept low and over time typically reduces the parasite load in the community. Great progress has been made towards elimination and in 2019 more than 150 million people were treated with ivermectin. Many areas in Africa have been under MDA for more than a decade and may have interrupted transmission of the parasite. In areas where interruption of transmission is demonstrated, MDA can be stopped. WHO guidelines recommend that MDA should be stopped if the Ov16 seroprevalence in children below 10 years of age is < 0.1% at the upper bound of the 95% confidence interval and the prevalence of O150 PCR (Poolscreen) positivity is <1/1000 (<0.1%) in parous black flies or <1/2000 (0.05%) in all black flies. However, modeling suggests that the seroprevalence threshold may be too low and that a threshold of 2% may also indicate interruption of transmission. Additionally, the current Ov16 tests have limitations that make it very difficult to accurately measure a <0.1% seroprevalence. To evaluate the 2% serological threshold, national onchocerciasis programs from the Ministries of Health of Benin, Ghana, Malawi, and Tanzania with the support of the US Centers for Disease Control and Prevention, The Task Force for Global Health, and African Field Epidemiology Network are conducting operational research in areas that have been under MDA for many years and are thought to have interrupted transmission. These studies will determine the baseline O150 prevalence in black flies and the OV16 seroprevalence in children 5-9 years of age, and if they meet the current WHO entomological criteria for stopping and the seroprevalence in children is less than 2%, then MDA will be stopped, and the areas monitored for recrudescence. In this symposium we will present the initial results from the countries involved and the diagnostic challenges encountered during the studies. The presentations will address sampling and laboratory methodologies, serology and entomology results, diagnostic challenges and solutions, and next steps. #Elimination #Epidemiology #InfectiousDisease

CHAIR
Andrew Abbott
US Centers for Disease Control and Prevention, Atlanta, GA, United States

Joseph Kwadwo Opare
Neglected Tropical Diseases Program, Ghana Health Service, Accra, Ghana

12:45 p.m.
INTRODUCTION

12:55 p.m.
EVALUATING THE SERO-PREVALENCE THRESHOLD FOR STOPPING ONCHOCERCIASIS MASS DRUG ADMINISTRATION: EXPERIENCES IN MALAWI
Laston Sitima
Ministry of Health, Lilongwe, Malawi

1:15 p.m.
EVALUATION OF THE SEROPREVALENCE THRESHOLD FOR STOPPING THE MASS DRUG ADMINISTRATION FOR ONCHOCERCIASIS: EXPERIENCES IN BENIN
N'Deye Marie Adama Bassabi
Programme National de Lutte contre les Maladies Transmissibles du Bénin, Cotonou, Benin

1:35 p.m.
ESTABLISHING SERO-PREVALENCE THRESHOLD FOR STOPPING ONCHOCERCIASIS MASS DRUG ADMINISTRATION: EXPERIENCES AND PROGRESSES MADE SO FAR IN TANZANIA.
Akili Kalinga
National Institute for Medical Research, Dar Es Salaam, United Republic of Tanzania

1:50 p.m.
MASS DRUG ADMINISTRATION OF IVERMECTIN FOR ONCHOCERCIASIS ELIMINATION: CAN WE STOP SOONER IN GHANA?
Joseph Kwadwo Opare
Neglected Tropical Diseases Program, Ghana Health Service, Accra, Ghana

2:10 p.m.
FIELD EVALUATION OF NEW DIAGNOSTIC TOOLS FOR ONCHOCERCIASIS TO STOP MASS DRUG ADMINISTRATION
Jessica Prince-Guerra
US Centers for Disease Control and Prevention, Atlanta, GA, United States

Scientific Session 133

Viruses - Epidemiology

Convention Center - Room 383/384/385 (3rd Floor)
Saturday, November 16, 12:45 p.m. - 2:30 p.m.

#Epidemiology #InfectiousDisease

CHAIR

Mariam Fofana
Yale School of Public Health, New Haven, CT, United States

Matthew Aliota
University of Minnesota, Minneapolis, MN, United States

12:45 p.m.
PRESENTATION BY BURROUGHS WELLCOME FUND-ASTMH FELLOWSHIP RECIPIENT

12:45 p.m. **8302**

USING A VARIANT-SPECIFIC, ELECTROCHEMILUMINESCENCE MULTIPLEX SERONEUTRALIZATION ASSAY TO DELINEATE TRANSMISSION DYNAMICS OF SARS-COV-2 AS THE PANDEMIC TRANSITIONED TO ENDEMICITY

Mariam O. Fofana[1], Juan Pablo Aguilar Ticona[2], M. Catherine Muenker[1], Joseph Lu[3], Nivison Nery Jr[1], Homegnon Antonin Ferreol Bah[2], Emilia Andrade Belitardo[2], Jaqueline Silva[2], Gabriel Ribeiro dos Santos[1], Renato Victoriano[2], Ricardo Khouri[2], Federico Costa[4], Stephen Thomas[3], Adam Waickman[3], Mitermayer G. Reis[2], Albert I. Ko[1], Derek A.T. Cummings[5]
[1]Yale School of Public Health, New Haven, CT, United States, [2]Instituto Goncalo Moniz (Fiocruz Bahia), Salvador, Brazil, [3]SUNY Upstate Medical University, Syracuse, NY, United States, [4]Universidade Federal da Bahia, Salvador, Brazil, [5]University of Florida, Gainesville, FL, United States

1 p.m. **8303**

RETHINKING DENGUE PROTECTIVE IMMUNITY: MULTIPLE REPEAT SYMPTOMATIC INFECTIONS IN A SINGLE TRANSMISSION SEASON

Lisbeth Cantarero[1], Miguel Plazaola[1], Jose G. Juarez[1], Karla Gonzalez[1], Reinaldo Mercado-Hernandez[2], Sandra Bos[2], Eva Harris[2], Angel Balmaseda[1]
[1]Sustainable Science Institute, Managua, Nicaragua, [2]Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States

1:15 p.m. **8304**

INAPPARENT PRIMARY DENGUE VIRUS INFECTIONS REVEAL HIDDEN SEROTYPE-SPECIFIC EPIDEMIOLOGICAL PATTERNS AND SPECTRUM OF INFECTION OUTCOME: A COHORT STUDY IN NICARAGUA

Jose V. Zambrana[1], Sandra Bos[2], Elias Duarte[2], Aaron L. Graber[2], Julia Huffaker[2], Carlos Montenegro[3], Lakshmanane Premkumar[4], Aubree Gordon[1], Angel Balmaseda[5], Eva Harris[2]
[1]Department of Epidemiology, School of Public Health, University of Michigan, Ann Arbor, MI, United States, [2]Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, [3]Sustainable Sciences Institute, Managua, Nicaragua, [4]Department of Microbiology and Immunology, University of North Carolina School of Medicine, Chapel Hill, NC, United States, [5]Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua

1:30 p.m. **8305**

UNVEILING THE DYNAMICS OF DENGUE VIRUS TRANSMISSION ACROSS A GRADIENT OF URBANICITY IN THREE COUNTRIES: INSIGHTS FROM PARALLEL LONGITUDINAL COHORT STUDIES IN ECUADOR, NICARAGUA, AND SRI LANKA

Paulina E. Andrade Proano[1], Lisbeth Cantarero[2], Chandima Jeewandara[3], Sandra Vivero[4], Victoria Nipaz[4], William Cevallos[4], Miguel Plazaola[2], Juan Carlos Mercado[2], Luis Cisneros[2], Gabriel Trueba[5], Shyrar Tanussiya Ramu[3], Saubhagya Danasekara[3], Madushika Dissanayake[3], Lahiru Perera[3], Maneshka Karunananda[3], José G. Juárez[2], Joseph N.S. Eisenberg[6], Neelika Malavige[3], Angel Balmaseda[2], Josefina Coloma[7], Eva Harris[7]
[1]Universidad San Francisco de Quito, Quito, Ecuador, [2]Sustainable Sciences Institute, Managua, Nicaragua, [3]Department of Immunology and Molecular Medicine, University of Sri Jayewardenepura, Colombo, Sri Lanka, [4]Centro de Biomedicina, Universidad Central, Quito, Ecuador, [5]Instituto de Microbiología, Universidad San Francisco de Quito, Quito, Ecuador, [6]Department of Epidemiology, School of Public Health, University of Michigan, Ann Arbor, MI, United States, [7]Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States

1:45 p.m. **8306**

RESPIRATORY SYNCYTIAL VIRUS (RSV) EPIDEMIOLOGY AND CLINICAL CHARACTERISTICS OF HOSPITALIZED CHILDREN < 2 YEARS OF AGE DURING THE SARS-COV-2 PANDEMIC (OCTOBER 2020-JANUARY 2023) AT KENEMA GOVERNMENT HOSPITAL, SIERRA LEONE

FODAY UMARO TURAY[1], Troy Moon[1], Gustavo Amorim[2], Robert J. Samuels[3], John S. Schieffelin[1]
[1]Tulane University, New Orleans, LA, United States, [2]Vanderbilt Institute for Global Health, Vanderbilt University, Nashville, TN, United States, [3]College of Medicine and Allied Health Sciences, University of Sierra Leone, Free Town, Sierra Leone

2 p.m. **8307**

EPIDEMIOLOGICAL CHARACTERISTICS AND HOSPITAL OUTCOMES OF HOSPITALIZED LASSA FEVER CASES DURING THE 2022-2023 OUTBREAK IN LIBERIA

Emmanuel Dwalu[1], Hannock Tweya[2], Mher Beglaryan[3], Chukwuma D. Umeokonkwo[4], Ralph W. Jetoh[1], Bode I. Shobayo[1], Fahn M. Tarweh[1], Philip Owiti[5], Pryanka Relan[6], Shermarke Hassan[7], George W. Goteh[8], Darius B. Lehyen[8], Louis Ako-Egbe[9], Ibrahim F. Kamara[10], Godwin E. Akpan[11], Peter Adewuyi[11], Patrick N. Kpanyen[1], Benjamin T. Vonhm[1], Julius S M Gilayeneh[1]
[1]National Public Health Institute of Liberia, Monrovia, Liberia, [2]International Training and Education Center for Health (I-TECH), Lilongwe, Malawi, [3]Tuberculosis Research and Prevention Centre, Yerevan 0014, Armenia, [4]African Field Epidemiology Network, Lugogo House, Lugogo By-Pass, Kampala, Uganda, [5]Ministry of Health Republic of Kenya, Nairobi, Kenya, [6]WHO Health Emergencies Programme, World Health Organization, Geneva, Switzerland, [7]Infectious Diseases Data Observatory, University of Oxford, Oxford, United Kingdom, [8]Ministry of Health, Monrovia, Liberia, [9]World Health Organization Liberia Country Office, Monrovia, Liberia, [10]World Health Organization Country Office, Freetown, Sierra Leone, [11]African Field Epidemiology Network, Monrovia, Liberia

2:15 p.m. **8308**

INCIDENCE OF LASSA FEVER DISEASE AND LASSA VIRUS INFECTION IN FIVE WEST AFRICAN COUNTRIES: A PROSPECTIVE, MULTI-SITE, COHORT STUDY (THE *ENABLE* LASSA RESEARCH PROGRAM)

Anton Camacho[1], The ENABLE Consortium[2]
[1]Epicentre, Paris, France, [2]Coalition for Epidemic Preparedness Innovations (CEPI), Oso, Norway

Scientific Session 134

Global Health: Use of Modeling, AI and Other Advanced Methods to Study Disease Epidemiology and Impact of Climate Change on Global Health

Convention Center - Room 388/389 (3rd Floor)
Saturday, November 16, 12:45 p.m. - 2:30 p.m.

#ClimateChange #Modeling #InfectiousDisease #Epidemiology

CHAIR
Caterina A. Fanello
University of Oxford, Oxford, United Kingdom

Chloe Fletcher
Barcelona Supercomputing Center, Barcelona, Spain

12:45 p.m. 8309

THE COMPOUND EFFECTS OF CLIMATIC EXTREMES ON DENGUE RISK IN THE CARIBBEAN: A PREDICTION MODEL FRAMEWORK USING LONG- AND SHORT-LAG INTERACTIONS

Chloe Fletcher[1], Tilly Alcanya[2], Leslie Rollock[3], Cédric J. Van Meerbeeck[4], Laura-Lee Boodram[5], Tia Browne[6], Sabu Best[6], Roché Mahon[4], Adrian Trotman[4], Avriel R. Diaz[7], Willy Dunbar[8], Catherine A. Lippi[9], Sadie J. Ryan[9], Felipe J. Colón-González[10], Anna M. Stewart-Ibarra[11], Rachel Lowe[12]
[1]Barcelona Supercomputing Center, Barcelona, Spain, [2]Centre on Climate Change & Planetary Health and Centre for Mathematical Modelling of Infectious Diseases, London School of Hygiene & Tropical Medicine, London, United Kingdom, [3]Ministry of Health & Wellness, Saint Michael, Barbados, [4]Caribbean Institute for Meteorology and Hydrology, Saint James, Barbados, [5]The Caribbean Public Health Agency, Port of Spain, Trinidad and Tobago, [6]Barbados Meteorological Services, Christ Church, Barbados, [7]International Research Institute for Climate & Society, Palisades, NY, United States, [8]National Collaborating Centre for Healthy Public Policy, Montreal, QC, Canada, [9]Department of Geography, University of Florida, Gainsville, FL, United States, [10]Wellcome Trust, Data for Science and Health, London, United Kingdom, [11]Inter-American Institute For Global Change Research, Montevideo, Uruguay, [12]Catalan Institution for Research & Advanced Studies, Barcelona, Spain

1 p.m. 8310

MASSIVE GLOBAL IMPACTS OF CLIMATE CHANGE ON DENGUE TRANSMISSION

Erin Mordecai[1], Marissa Childs[2], Kelsey Lyberger[1], Mallory Harris[1]
[1]Stanford University, Stanford, CA, United States, [2]Harvard University, Cambridge, MA, United States

1:15 p.m. 8311

MAPPING THE GLOBAL ENVIRONMENTAL SUITABILITY FOR SCRUB TYPHUS

Qian Wang[1], Tian Ma[2], Fangyu Ding[2], Nicholas Day[1], Benn Sartorius[3], Richard Maude[1]
[1]MORU, Bangkok, Thailand, [2]Chinese Academy of Sciences, Beijing, China, [3]University of Oxford, Oxford, United Kingdom

1:30 p.m. 8312

HETEROGENOUS SPATIO-TEMPORAL DISTRIBUTION OF COVID 19 PANDEMIC PROGRESSION IN PERU

Kasandra Lizzeth Ascuña-Durand[1], Diego Villa[1], Coralith García[2], Gabriel Carrasco-Escobar[1]
[1]Health Innovation Laboratory, Universidad Peruana Cayetano Heredia, Peru, Lima, Peru, [2]Instituto de Medicina Tropical Alexander von Humboldt, Universidad Peruana Cayetano Heredia, Peru, Lima, Peru

1:45 p.m. 8313

ASSESSING THE IMPACT OF CLIMATE CHANGE ON VECTOR BEHAVIOR AND VECTOR CONTROL STRATEGIES

Emma L. Fairbanks[1], Janet M. Daly[2], Michael J. Tildesley[1]
[1]University of Warwick, Coventry, United Kingdom, [2]University of Nottingham, Nottingham, United Kingdom

2 p.m. 8314

PRESSURE-TESTING AND PROTOTYPING AI TOOLS FOR ENHANCED QUALITATIVE DATA ANALYSIS IN GLOBAL HEALTH: A CASE STUDY ON DRC VACCINATION SURVEYS

Roy Burstein, Joshua L. Proctor
Bill & Melinda Gates Foundation, Seattle, WA, United States

2:15 p.m. 8315

AN AI ASSISTANT TO SUPPORT DISEASE MODEL BUILDING, SIMULATION, AND ANALYSIS: ACCELERATING MODELING RESEARCH AND DEVELOPMENT IN RESOURCE-CONSTRAINED SETTINGS

Joshua L. Proctor, Guillaume Chabot-Couture
Bill & Melinda Gates Foundation, Seattle, WA, United States

Symposium 135

Reaching for Elimination: Critical Challenges in Targeting Transmission in Malaria-Endemic Settings

Convention Center - Room 391/392 (3rd Floor)
Saturday, November 16, 12:45 p.m. - 2:30 p.m.

Decades of malaria control measures have yielded significant declines in clinical disease globally. However, a substantial burden persists. In regions where malaria control has been successful, the focus must shift from control to elimination. Consequently, interventions targeting transmission become crucial, especially in areas where this is a new priority. Key questions remain about how to best design and allocate interventions that efficiently decrease transmission. Quantifying the transmission reservoir and identifying and assessing new approaches to decrease transmission carry distinct challenges in both low and high-burden settings. Notably, transmission-focused interventions in areas of historically high, but now decreasing, burden have received limited attention. Diverse approaches are needed to address heterogeneity in transmission reservoirs and the key drivers of ongoing transmission. The interdisciplinary symposium features expert speakers covering epidemiology, vaccine trials, entomology, and public policy. The speakers will draw on their own experiences to demonstrate novel approaches to overcoming these challenges and share their visions for the implementation and evaluation of new interventions. The areas of focus include epidemiology, vaccine trials, entomology, and public policy. The first two speakers, Drs. Buchwald and Ochomo, will focus on the complexities of characterizing ongoing transmission and the key factors defining the distribution and burden of transmission from epidemiologic and entomologic perspectives. Our third speaker, Dr. Sagara, an expert designing transmission-blocking vaccines, will talk about the challenges of designing and evaluating interventions

to decrease transmission. The last panelist, Dr. Cohee, will take a broad view on how we can use ongoing research to inform large-scale interventions and malaria control policy. At the conclusion of the panelist presentations, the symposium chairs will lead a discussion about the next steps in tackling residual malaria transmission in malaria-endemic countries. #Epidemiology #FieldStudies #InfectiousDiseases #Modelling #Vaccinology

CHAIR

Miriam K. Laufer
Center for Vaccine Development and Global Health, University of Maryland School of Medicine, Baltimore, MD, United States

Issaka Sagara
Malaria Research and Training Center (MRTC), University of Sciences, Techniques and Technologies of Bamako (USTTB), Bamako, Mali

12:45 p.m.
INTRODUCTION

12:55 p.m.
CHARACTERIZING AND QUANTIFYING THE *PLASMODIUM FALCIPARUM* TRANSMISSION RESERVOIR
Andrea G. Buchwald
Center for Vaccine Development and Global Health, University of Maryland School of Medicine, Baltimore, MD, United States

1:20 p.m.
VECTOR BEHAVIORS THAT IMPACT TRANSMISSION
Eric Ochomo
KEMRI Center for Global Health Research, Kisumu, Kenya

1:45 p.m.
DESIGNING INTERVENTIONS TO TARGET TRANSMISSION
Issaka Sagara
Malaria Research and Training Center (MRTC), University of Sciences, Techniques and Technologies of Bamako (USTTB), Bamako, Mali

2:10 p.m.
MOVING FROM RESEARCH TO POLICY TO PROGRAM
Lauren M. Cohee
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Symposium 136

Vaccines for Malaria Elimination in Asia and Africa

Convention Center - Room 393/394 (3rd Floor)
Saturday, November 16, 12:45 p.m. - 2:30 p.m.

The development of malaria vaccines has targeted mainly infants as children under 5 are those at higher risk of severe malaria and death. The World Health Organization recently approved 2 new malaria vaccines, RTS,S and R21 to be used in children from 5 month of age. Both RTS,S and R21 are pre-erythrocytic vaccines as they target the stage of the malaria parasite that is injected by infected mosquitoes into humans. Therefore, if administered to the whole population, they could decrease transmission by reducing the proportion of successful infections by the vector. Mathematical models suggest that mass vaccination with a pre-erythrocytic vaccine may substantially reduce population-level malaria transmission. However, mass vaccination for malaria control has never been evaluated. In our symposium groups, from Africa and Asia we will present planned and ongoing studies to vaccinate the entire population of villages to assess the impact on transmission. #ClinicalResearch #Elimination #FieldStudies #InfectiousDisease #Vaccinology

CHAIR

Lorenz von Seidlein
Mahidol-Oxford Tropical Medicine Research Unit (MORU), Bangkok, Thailand

Umberto D'Alessandro
MRC, Fajara, Gambia

12:45 p.m.
INTRODUCTION

12:55 p.m.
EVALUATING THE BROADER USE OF R21/MATRIX-M TO AID MALARIA ELIMINATION: WHAT IS THE EXPECTED BENEFIT OF EXTENDING VACCINATION BEYOND YOUNG CHILDREN?
Hillary Topazian
Imperial College London, London, United Kingdom

1:10 p.m.
SEASONAL R21/MM MASS VACCINATION FOR MALARIA ELIMINATION IN BURKINA FASO AND THE GAMBIA
Maglore Hamtandi Natama
Clinical Research Unit Nanoro, IRSS, CNRST, Burkina Faso, Ouagadougou, Burkina Faso

1:25 p.m.
SEASONAL R21/MM MASS VACCINATION FOR MALARIA ELIMINATION IN BURKINA FASO AND THE GAMBIA – PART 2
Edgar Diniba Dabira
MRC Unit The Gambia at LSHTM, Fajara, Georgia

1:40 p.m.
A COMBINED MASS VACCINATION AND DRUG ADMINISTRATION IN BANGLADESH
Abul Faiz
Devcare Foundation, Dhaka, Bangladesh

1:55 p.m.
COMMUNITY ENGAGEMENT FOR MASS VACCINATIONS WITH THE MALARIA VACCINE R21/MATRIX M
Fatou Jaiteh
MRC Unit The Gambia at LSHTM, Fajara, Gambia

EDU-CATION CONTENT

Symposium 137

Advances in Chagas Disease Diagnostic Assays and Testing Strategies

Convention Center - Room 395/396 (3rd Floor)
Saturday, November 16, 12:45 p.m. - 2:30 p.m.

Globally, more than 6 million people are living with Chagas disease, a neglected tropical disease caused by the protozoan parasite *Trypanosoma cruzi*. Most people with Chagas disease are initially infected while living in rural Latin America via exposure to contaminated fecal material of the Triatomine vector, though migration and population shifts have led to a growing recognition of affected individuals outside of highly endemic regions. While most people with Chagas disease will remain asymptomatic lifelong, approximately 20-30% will develop Chagas

cardiomyopathy and 10% will develop gastrointestinal disease. It is critical to screen at-risk individuals as early in life as possible to diagnose Chagas disease while treatment is most effective and before the onset of end-organ disease. However, modeling studies indicate that only a small percentage of people with Chagas disease have been identified through diagnostic testing, leaving most undiagnosed. Chagas disease screening and diagnostic strategies currently available to clinicians have significant limitations, including the lack of a gold standard test and the need for multiple assays to confirm the diagnosis. Another major gap in the management of people with Chagas disease is the lack of a "test of cure," limiting our ability to assess the patient's response to anti-trypanosomal therapy in a timely manner. This symposium will focus on recent advances in T. cruzi detection assays and testing strategies and how these tools can be applied to enhance our approach to the diagnosis of people with Chagas disease and assessment of anti-trypanosomal treatment efficacy. #Diagnostics #ClinicalResearch #InfectiousDisease

CHAIR

Daniel L. Bourque
Boston University Chobanian and Avedisian School of Medicine, Boston, MA, United States

Eva Clark
Baylor College of Medicine, Houston, TX, United States

12:45 p.m.
INTRODUCTION

12:55 p.m.
APPLICATION OF MULTICRUZI AND OTHER *T. CRUZI* ASSAYS TO CLINICAL PRACTICE SETTINGS AND DIAGNOSTIC ADVANCES SUPPORTED BY DNDI.

Maria Jesus Pinazo
Drugs for Neglected Diseases initiative (DNDi), Rio de Janeiro, Brazil

1:15 p.m.
NOVEL ANTIGEN DISCOVERY FOR IMPROVING SEROLOGICAL DIAGNOSIS OF CHAGAS DISEASE

Jeffrey Whitman
University of California, San Francisco, San Francisco, CA, United States

1:35 p.m.
BRIDGING LAB DISCOVERIES TO POINT-OF-CARE SOLUTIONS: VALIDATING LAMP FOR EARLY DIAGNOSIS OF CONGENITAL CHAGAS DISEASE IN PUBLIC HEALTH MATERNITIES

Alejandro Schijman
Ingebi - Conicet, Buenos Aires, Argentina

1:55 p.m.
APTAMER-BASED BIOMARKER DETECTION ASSAYS FOR *T. CRUZI* ANTIGENS AND MONITORING POST-ANTITRYPANOSOMAL TREATMENT

Andrea Teixeira-Carvahlo
René Rachou Institute – Oswaldo Cruz Foundation – FIOCRUZ, Belo Horizonte, Brazil

Career Chats: Navigating Career Paths in Global Health – Session 2

Convention Center - Room 346/347 (3rd Floor)
Saturday, November 16, 2 p.m. – 3 p.m.

This session aims to introduce trainees to the diverse and breadth of opportunities from pursuing careers in global health through a panel discussion. The remarkable panelists are ASTMH members who have made accomplishes in scientific and clinical research globally, represent diverse fields within the global health sphere as well as championing tropical medicine both nationally and internationally. Panelists will share insights from their remarkable journeys in global health, discuss opportunities and challenges that come with working in global health (i.e., navigating career pathways, funding sources, overcoming obstacles, navigating academic, cultural, socio-economic factors etc), how they transitioned career pathways and discuss their institutional global health portfolio. This session will help in furthering trainees' progress and help increase the visibility of various pathways in global health, and how to navigate future career paths advancement at the global stage. Furthermore, trainees will gain advice from internationally renowned global health champions on their perspectives working on tropical medicine in various capacities around the world. Overall, it is a remarkable session that will provide trainees with opportunities to network and learn directly from international researchers and experts in various disciplines within global health.

CHAIR

Winter Okoth
Rutgers, State University of New Jersey, New Brunswick, NJ, United States

Hannah Steinberg
University of Illinois Chicago, Chicago, IL, United States

PANELISTS

Pauline N. Mwinzi
World Health Organization Regional Office for Africa, Brazzaville, Republic of the Congo

Daniel Perlman
Rotary International, Carbondale, CO, United States

Johanna Daily
Albert Einstein College of Medicine, Bronx, NY, United States

Simon Agolory
National Center for Emerging and Zoonotic Infectious Diseases, Atlanta, GA, United States

Break

Saturday, November 16, 2:30 p.m. - 3 p.m.

Poster Session C Dismantle

Convention Center - Hall I-1 (1st Floor)
Saturday, November 16, 3 p.m. - 5:15 p.m.

Symposium 138

Systems Immunology of Tropical Diseases: Harnessing Omics and AI for Global Health

Convention Center - Hall I-2 (1st Floor)
Saturday, November 16, 3 p.m. - 4:45 p.m.

This symposium is dedicated to bringing together researchers from diverse backgrounds, and with a specific focus on early career researchers, to explore and discuss the cutting-edge intersection of systems immunology, omics technologies, and artificial intelligence (AI) and machine learning (ML) techniques, aiming to revolutionize our approach to understanding, preventing, and treating tropical diseases including Neglected Tropical Diseases (NTDs). Tropical diseases, often overlooked and underfunded, continue to burden millions worldwide, exacerbating global health disparities. Systems immunology offers a promising pathway to unravel the complex immunological interactions and mechanisms underlying these diseases. By leveraging high-throughput omics technologies—including genomics, proteomics, transcriptomics, glycomics and metabolomics—researchers can now generate vast amounts of data, offering unprecedented insights into the immune system's dynamics. The symposium will showcase research where AI and ML approaches play a pivotal role in deciphering these complex datasets, leading to novel mechanistic insights, biomarker identification, diagnostic development, vaccine development, and therapeutic interventions. Our sessions will cover a broad spectrum of topics, including the application of systems approaches in Malaria, Tuberculosis and Neglected Tropical Diseases (NTDs) including Leprosy, Schistosomiasis and Onchocerciasis. Our selected speakers, experts in their respective fields, will share their latest findings and insights, highlighting the potential of these technologies to transform global health. This is expected to be a first-of-its-kind systems immunology symposium at ASTMH, focused on innovations in both computational and experimental systems immunology. Ample interaction time will be kept aside to provide opportunity for discussion with attendees on how systems immunology approaches can push innovation in the tropical disease spaces including in NTDs. #Diagnostics #HostResponse #Immunology #Modeling #MNCH #Vaccinology

CHAIR

Aniruddh Sarkar
Georgia Institute of Technology and Emory University School of Medicine, Atlanta, GA, United States

Jishnu Das
University of Pittsburgh, Pittsburgh, PA, United States

3 p.m.
INTRODUCTION

3:10 p.m.
DEVELOPING A MULTIVARIATE PREDICTION MODEL OF ANTIBODY FEATURES ASSOCIATED WITH PROTECTION OF MALARIA-INFECTED PREGNANT WOMEN FROM PLACENTAL MALARIA

Amy Chung
The Peter Doherty Institute for Infection and Immunity, The University of Melbourne, Melbourne, Australia

3:40 p.m.
ANTIBODY-OMICS FOR BIOMARKER DISCOVERY AND POINT-OF-CARE DIAGNOSTICS FOR NEGLECTED TROPICAL DISEASES

Aniruddh Sarkar
Georgia Institute of Technology, Atlanta, GA, United States

3:55 p.m.
ANTIBODY-BASED SIGNATURE ASSOCIATED WITH LATENT AND ACTIVE PEDIATRIC TUBERCULOSIS

Nadege Nziza
Ragon Institute of MGH, MIT and Harvard University, Cambridge, MA, United States

4:10 p.m.
USING INTERPRETABLE MACHINE LEARNING TO INFER IMMUNOMODULATORY PHENOTYPES IN INFECTIOUS DISEASE

Jishnu Das
University of Pittsburgh, Pittsburgh, PA, United States

Symposium 139

Remembering Karl M. Johnson - A Leader in Tropical Virology

Convention Center - Room 343/344 (3rd Floor)
Saturday, November 16, 3 p.m. - 4:45 p.m.

THIS SESSION DOES NOT CARRY CME CREDIT.

Karl M. Johnson, MD, is an American virologist known for discovering Machupo virus and Hantaan virus. He is credited with seminal work on viral hemorrhagic fever and for naming the Ebola virus, and he served as ASTMH President in 1984. Access to the video at https://www.youtube.com/watch?v=YJ_vJBLBoyI

CHAIR

Thomas P. Monath
Quigley BioPharma LLC, Bolton, MA, United States

Jessica Spengler
Centers for Disease Control, Atlanta, GA, United States

3 p.m.
INTRODUCTION AND BRIEF SUMMARY OF KARL JOHNSON'S CAREER

Thomas P. Monath
Quigley BioPharma LLC, Bolton, MA, United States

3:20 p.m.
PRODUCTION OF THE WORKERS IN TROPICAL MEDICINE VIDEO: KARL JOHNSON

Claire Panosian Dunavan
David Geffen School of Medicine at UCLA, Los Angeles, CA, United States

3:25 p.m.
KARL M. JOHNSON, MD: LIFE AND LEGEND OF A LEADER IN TROPICAL VIROLOGY - VIDEO

Access the video at https://www.youtube.com/watch?v=YJ_vJBLBoyI

4:15 p.m.
IMPACT OF KARL JOHNSON'S WORK IN VIROLOGY

Daniel G. Bausch
London School of Hygiene & Tropical Medicine, London, United Kingdom

4:30 p.m.
QUESTIONS AND ANSWERS

Jessica Spengler
Centers for Disease Control, Atlanta, GA, United States

Thomas P. Monath
Quigley BioPharma LLC, Bolton, MA, United States

Scientific Session 140

One Health I: The Interconnection between People, Animals, Plants and Their Shared Environment

Convention Center - Room 345 (3rd Floor)
Saturday, November 16, 3 p.m. - 4:45 p.m.

#Prevention #PopulationSurveillance #TranslationalScience #EmergingDiseaseThreats #Elimination

CHAIR

Koya Allen
Booz Allen Hamilton, Baden-Wurttemberg, Germany

Kelly K. Baker
State University of New York at Buffalo, Buffalo, NY, United States

3 p.m. **8316**

THE MOST FORETOLD HUMAN RABIES CASE IN LATIN AMERICA VIEWED UNDER THE ONE HEALTH APPROACH

Ricardo Castillo-Neyra[1], Lizzie Ortiz-Cam[2], Elvis W. Diaz[2], Sherrie Xie[1], Jorge Cañari[2], Valerie Paz-Soldán[3], Sergio E. Recuenco[4]
[1]University of Pennsylvania, Philadelphia, PA, United States, [2]Universidad Peruana Cayetano Heredia, Lima, Peru, [3]Tulane University, New Orleans, LA, United States, [4]Universidad Nacional Mayor de San Marcos, Lima, Peru

3:15 p.m. **8317**

ONE HEALTH SURVEILLANCE APPROACH ILLUMINATES SILENT SLEEPING SICKNESS TRANSMISSION HOTSPOTS IN HAMLETS OF OYO STATE, NIGERIA

Rolayo Toyin Emmanuel[1], Yahaya A. Umar[2], Philip A. Vantsawa[2], Deborah M. Dibal[2], Kelly Zongo[3], Olaleye O. Olusola[4], Temitope O. Popoola[4]
[1]Nigerian Institute for Trypanosomiasis and Onchocerciasis Research, Kaduna, Nigeria, [2]Department of Biological Sciences, Faculty of Science, Nigerian Defence Academy, Kaduna, Nigeria, [3]The END Fund, New York, NY, United States, [4]Nigerian Institute for Trypanosomiasis and Onchocerciasis Research, Ibadan, Nigeria

3:30 p.m. **8318**

MORPHOLOGICAL AND MOLECULAR IDENTIFICATION OF *B. MALAYI* AND OTHER FILARIAL SPECIES IN ANIMALS FROM BELITUNG, INDONESIA: IMPLICATIONS FOR LYMPHATIC FILARIASIS ELIMINATION

Irina Diekmann[1], Kerstin Fischer[1], Taniawati Supali[2], Peter Fischer[1]
[1]Infectious Diseases Division, Department of Medicine, Washington University School of Medicine, St. Louis, MO, United States, [2]Department of Parasitology, Faculty of Medicine, Universitas Indonesia, Jakarta, Indonesia

3:45 p.m. **8319**

PAN-CANADIAN RESPONSE TO HIGHLY PATHOGENIC AVIAN INFLUENZA (HPAI) A(H5N1): BENEFITS AND CHALLENGES OF A ONE HEALTH APPROACH

Peter A. Buck[1], Clarice Lulai-Angi[2], Cynthia Pekarik[3], Yohannes Berhane[4], Jennifer Provencher[5], Erin Leonard[6], Jolene Giacinti[5], Andrea Osborn[7], Amole Khadilkar[8], Nicole Atchessi[1], Trevor Thompson[3], Michael Brown[3], Cathy Furness[9], HPAI One Health Fed-Prov-Terr-Indigenous WorkGroup[10]
[1]Public Health Agency of Canada, Ottawa, ON, Canada, [2]Canadian Food Inspection Agency, Ottawa, ON, Canada, [3]Environment and Climate Change Canada, Gatineau, QC, Canada, [4]Canadian Food Inspection Agency, Winnipeg, MB, Canada, [5]Environment and Climate Change Canada, Ottawa, ON, Canada, [6]Public Health Agency of Canada, Halifax, NS, Canada, [7]Canadian Food Inspection Agency, Parksville, BC, Canada, [8]Indigenous Services Canada, Ottawa, ON, Canada, [9]Canadian Food Inspection Agency, Guelph, ON, Canada

4 p.m. **8320**

A ONE HEALTH APPROACH IN DETECTION OF INFECTIOUS DISEASES IN NORTHERN GHANA

Deborah Narwortey[1], Bernice Baako[1], John Zing[1], Felix Nenyewodey[1], Seth Offei Addo[2], Stephen Kantum Adageba[1], Simon Bawa[1], Michael Bandasua Kaburise[1], Francis Broni[1], Cornelius Debpuur[1], Ali Moro[1], Jane Ansah-Owusu[2], Samuel Dadzie[3], Victor Asoala[1], Patrick Odum Ansah[1], Zahra Parker[4], Abdulwasiu Bolaji Tiamiyu[5], Edward Akinwale[5], Kara Lombardi[6], Leigh Anne Eller[6], Erica Broach[6], Anastasia Zuppe[6], Tsedal Mebrahtu[6], Qun Li[6], Jillian Chambers[6], Nicole Dear[6], Ana Manzano-Wight[6], Jenny Lay[6], Terrel Sanders[7], Robert Hontz[7], David B. Pecor[8], Cynthia L. Tucker[8], Sherri Daye[9], Hee Kim[9], Yvonne-Marie Linton[10], Thierry Lamare Assedi Njatou Fouapon[11], Melanie D. McCauley[6]
[1]Navrongo Health Research Centre, Navrongo, Ghana, [2]Noguchi Memorial Institute for Medical Research, Accra, Ghana, [3]Noguchi Memorial Institute for Medical, Accra, Ghana, [4]Henry Jackson Foundation, Lagos, Nigeria, [5]HJF Medical Research International (HJFMRI), Abuja, Nigeria, [6]Henry M. Jackson Foundation for the Advancement of Military Medicine, Bethesda, MD, United States, [7]U.S. Naval Medical Research Unit-EURAFCENT, Accra, Ghana, [8]Walter Reed Biosystematics Unit (WRBU), Smithsonian Museum Support Center, Suitland, MD, United States, [9]One Health Branch, CIDR, Walter Reed Army Institute of Research, Silver spring, MD, United States, [10]Walter Reed Biosystematics Unit (WRBU), Smithsonian Museum Support Center, Suiltland, MD, United States, [11]One Health Branch, CIDR, Walter Reed Army Institute of Research,, Silver spring, MD, United States

4:15 p.m. 8321

THE ONE HEALTH INITIATIVE FOR ZOONOTIC DISEASE RESPONSE IN EASTERN UGANDA. OPPORTUNITIES AND AREAS FOR IMPROVEMENT

Richard Ssekitoleko[1], Herbert Isabirye[2], Benjamin Fuller[3], Margaret R Lawrence[3], Solome Okware[1], Annet Alenyo[1], Immaculate Atuhaire[1], Andrew Bakainaga[1], Elizabeth Mgamb[1], Yonas Tegegn Woldemariam[1], Christopher C. Moore[3]
[1]World Health Organization, Kampala, Uganda, [2]Infectious Disease Institute and the National Public Health Emergency Operations Center, Kampala, Uganda, [3]University Of Virginia, Charlottesville, VA, United States

4:30 p.m. 8322

A ONE HEALTH APPROACH TO PREVENTION, DETECTION, AND RESPONSE TO CRIMEAN-CONGO HEMORRHAGIC FEVER IN THE KURDISTAN REGION OF IRAQ

Bejan A. Dizayee[1], Aso H. Kareem[2], **Lauren N. Miller**[3], Erin Sorrell M. Sorrell[4], Claire J. Standley[3]
[1]Central Veterinary Laboratory, Ministry of Agriculture, Kurdistan Region, Erbil, Iraq, [2]Ministry of Health, Kurdistan Region, Erbil, Iraq, [3]Georgetown University, Washington, DC, United States, [4]Johns Hopkins University, Baltimore, MD, United States

Symposium 141

Malaria in Children and Adolescents with Sickle Cell Anemia; A Growing High Risk and Morbidity Group

Convention Center - Room 352 (3rd Floor)
Saturday, November 16, 3 p.m. - 4:45 p.m.

There is an epidemiological overlap between malaria and sickle cell trait and disease. Sickle cell anemia (SCA) and malaria are both highly prevalent in Africa. The objective of this symposium is to draw attention to the growing burden and severe consequences of malaria in children and adolescents with sickle cell anaemia. It will highlight the burden, management, and ongoing studies of prevention of the disease in this high-risk, high morbidity and mortality group of vulnerable patients. Sickle Cell Anemia (SCA) is the most common haemoglobinopathy worldwide; over 400,000 babies are born with the disease annually, and today, over 7 million live with the disease; 80% of them in sub-Sahara Africa Affected children suffer from chronic ill health, poor growth, and are prone to repeated infections, including malaria and progressive organ damage, which together cause poor quality of life, missed school days, neurocognitive deficits, and premature death. Only 30-45% of these children reach their 5th birthday. Indeed, in highly affected countries, SCA is estimated to account for 5-16% of all under 5 years mortality. Malaria is leading precipitant of the acute SCA complications many times resulting in severe morbidity or even death. In countries such as Uganda, the incidence of malaria is up to 1.2 per child-year and close to 50% present with severe malaria. Malaria also causes over 20% of deaths in these children. #Clinical Research #Pediatrics
#InfectiousDiseases #Prevention #Pathogenesis

CHAIR

Richard Idro
Makerere University, Kampala, Uganda

Chandy John
Indiana University, Indianapolis, IN, United States

3 p.m.
INTRODUCTION

3:10 p.m.
MALARIA PREVENTION STRATEGIES IN CHILDREN AND ADOLESCENTS WITH SCA

Jane Achan
Malaria Control Programme, Kampala, Uganda

3:30 p.m.
SICKLE CELL ANEMIA AND MALARIA IN AFRICA: BURDEN, PATHOGENESIS AND OUTCOMES

Ruth Namazzi
Makerere University, Kampala, Uganda

3:50 p.m.
PREVENTION OF MALARIA IN SICKLE CELL ANAEMIA; RECENT AND ONGOING CLINICAL TRIALS

Richard Idro
Makerere University, Kampala, Uganda

4:10 p.m.
DISCUSSION : NEXT STEPS

Chandy John
Indiana University, Indianapolis, IN, United States

Scientific Session 142

Mosquitoes- Epidemiology and Vector Control I

Convention Center - Room 353 (3rd Floor)
Saturday, November 16, 3 p.m. - 4:45 p.m.

#FieldStudies #Modeling #Prevention

CHAIR

Idriss Nasser Ngangue Siewe
University of Douala / OCEAC, Yaounde, Cameroon

Penelope A. Hancock
MRC Centre for Global Infectious Disease Analysis, Imperial College London, London, United Kingdom

3 p.m. 8323

FIRST PILOT RELEASE OF X-RAY STERILIZED MALE *AEDES AEGYPTI* TO CONTROL INVASIVE MOSQUITOES IN SOUTHERN CALIFORNIA: STRATEGY, LESSONS LEARNT AND THE WAY FORWARD

Solomon K. Birhanie, Michelle Q. Brown
West Valley Mosquito and Vector Control District, Ontario, CA, United States

3:15 p.m. 8324

CHANGING PARASITE SPECIES DYNAMICS AND SPECIES-SPECIFIC ASSOCIATIONS OBSERVED BETWEEN *ANOPHELES* AND *PLASMODIUM* GENERA IN SOUTHWEST BURKINA FASO

Paula Lado[1], Lyndsey I. Gray[1], Emmanuel Sougue[2], Anna-Sophia Leon[1], Molly Ring[1], Greg Pugh[1], Jenna Randall[1], Elizabeth Hemming-Schroeder[1], Hannah Sproch[3], A. Fabrice Some[2], Roch K. Dabire[2], Sunil Parikh[3], **Brian D. Foy**[1]
[1]Colorado State University, Fort Collins, CO, United States, [2]IRSS, Bobo Dioulasso, Burkina Faso, [3]Yale School of Public Health, New Haven, CT, United States

3:30 p.m. 8325

EVALUATION OF HUMAN EXPOSURE TO MALARIA VECTORS USING AN IMMUNO-EPIDEMIOLOGICAL BIOMARKER (*ANOPHELES*-GSG6-P1 SALIVARY PEPTIDES) IN FOUR RURAL AREAS IN CAMEROON

Idriss Nasser NGANGUE SIEWE[1], Paulette NDJEUNIA MBIAKOP[2], André SAGNA BAREMBAYE[3], Jean Arthur MBIDA MBIDA[4], Christophe ANTONIO-NKONDJIO[5], Franck REMOUE[6], Athanase BADOLO[7]
[1]University of Douala / OCEAC, Yaounde, Cameroon, [2]University of Yaounde I / OCEAC, Yaounde, Cameroon, [3]MIVEGEC, University of Montpellier, CNRS, IRD, BoBo Dioulasso, Burkina Faso, [4]University of Douala, Douala, Cameroon, [5]OCEAC, Yaounde, Cameroon, [6]MIVEGEC, University of Montpellier, CNRS, IRD, Montpellier, France, [7]JOSEPH KI-ZERBO University, Ouagadougou, Burkina Faso

3:45 p.m. 8326

ASSESSING INSECTICIDE TREATED NETS PERFORMANCE WITH BIOMARKER OF *ANOPHELES GAMBIAE* S.L GSG6-P1 SALIVARY PEPTIDE ANTIGEN: A LONGITUDINAL STUDY IN MALI

Ibrahim Traore[1], Moussa BM CISSE[1], Alou Yacouba Sangare[1], Mariam S. Sangare[1], Aldiana K. Maiga[1], Lazeni Konate[1], Yacouba Dansoko[1], Amadou Diakite[1], Tidiani Sinayoko[1], Alice Dembele[1], Jean Marie Sanou[1], Mamadou Sow[1], Abdourhamane Dicko[2], François D. Traore[3], Franck Remoue[3], Ousmane A. Koita[1]
[1]Laboratoire de Biologie Moleculaire Appliquee, Bamako, Mali, [2]National Malaria Control Program, Bamako, Mali, [3]Institut de Recherche pour le Developpement, Montpellier, France

4 p.m. 8327

CHARACTERIZATION OF LARVAL HABITATS TO ASSESS THE FEASIBILITY OF LARVAL SOURCE MANAGEMENT AS A SUPPLEMENTARY INTERVENTION IN A HIGH MALARIA TRANSMISSION AREA IN NIGERIA AND A LOW MALARIA TRANSMISSION AREA OF ZAMBIA - OPERATIONALIZING THE WORLD HEALTH ORGANIZATION'S THE FEW, THE FIXED. AND THE FINDABLE

Mohamed N. Bayoh[1], Adedayo Oduola[2], Petrus Inyama[2], Kelvin Mwenya[1], Matthias Sikaala[1], Lazarus Samdi[2], Brian Chirwa[1], Alex Chilabi[3], Reuben Zulu[3], Ifeanyi Okeke[2], Godwin Ntadom[4], Mary Esema[4], Muhamad A. Bunza[5], Enerst Mulenga[1], Grace Yina[2], Christina Riley[6], Lilia Gerberg[7], Jules Mihigo[8], Melissa Yoshimizu[7], Allison Belemvire[7], Paul Psychas[9], Daniel Impoinvil[10], Meghan Tammaro[11], Kelley Ambrose[11], Kerri-Ann Guyah[11], Bradley Longman[11], Aklilu Seyoum[11]
[1]PMI Evolve Project - Abt Global, Lusaka, Zambia, [2]PMI Evolve Project - Abt Global, Abuja, Nigeria, [3]National Malaria Elimination Program, Lusaka, Zambia, [4]National Malaria Elimination Program, Abuja, Nigeria, [5]Federal University, Birnin-Kebbi, Nigeria, [6]Akros, Lusaka, Zambia, [7]U.S. President's Malaria Initiative, USAID, Washington, DC, United States, [8]U.S. President's Malaria Initiative, USAID, Abuja, Nigeria, [9]U.S. President's Malaria Initiative, U.S. Centers for Disease Control and Prevention, Lusaka, Zambia, [10]10U.S. President's Malaria Initiative, Malaria Branch, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States, [11]PMI Evolve Project - Abt Global, Rockville, MD, United States

4:15 p.m. 8328

MODELS TO INFORM THE DESIGN OF FIELD TRIALS OF NOVEL GENE DRIVE INTERVENTIONS TO SUPPRESS MALARIA VECTOR POPULATIONS

Penelope A. Hancock[1], Ace North[2], Tin-Yu J. Hui[1], Adrian W. Leach[1], Andrew McKemey[1], Azize Millogo[3], John Connolly[1], Patric Epopa[3], franck adama Yao[3]
[1]Imperial College London, London, United Kingdom, [2]University of Oxford, Oxford, United Kingdom, [3]Institute de Recherche en Sciences de la Sante, Bobo Dialasso, Burkina Faso

4:30 p.m. 8329

DEVELOPMENT OF SIT FOR *AEDES ALBOPICTUS* CONTROL IN CHINA: A PRELIMINARY FIELD STUDY

ZHANG DONGJING
Sun Yat-sen University, Guangzhou, China

Scientific Session 143

Schistosomiasis I: Immunology, Pathology, Molecular Biology, Diagnostics, and Treatment

Convention Center - Room 354/355 (3rd Floor)
Saturday, November 16, 3 p.m. - 4:45 p.m.

#Diagnostics #HostResponse #Pathogenesis

CHAIR

Tom Pennance
Western University of Health Sciences COMP-NW, Lebanon, OR, United States

Adebayo Molehin
Midwestern University, Glendale, AZ, United States

3 p.m. 8330

A CLINICAL SCORE TO SCREEN CHILDREN IN NEED FOR CHRONIC FASCIOLIASIS TESTING IN CUSCO - PERU

Karen Mozo Velazco[1], Maria L. Morales[1], Martha Pilar Lopez[1], Benicia Baca - Turpo[1], Eulogia Arque[1], Miguel M. Cabada[2]
[1]Instituto de Medicina Tropical Alexander von Humboldt – Universidad Peruana Cayetano Heredia, Peru, CUSCO, Peru, [2]University of Texas Medical Branch, Infectious Diseases Division, Galveston, TX, United States

3:15 p.m. 8331

DIAGNOSTIC ACCURACY OF COLPOSCOPY FOR FEMALE GENITAL SCHISTOSOMIASIS SCREENING AT PRIMARY LEVEL OF CARE

Pia Rausche[1], Jean-Marc Kutz[1], Paule Donven[1], Sonya Ratefiarisoa[2], Olivette Totofotsy[2], Diavolana Andrianarimanana-Koecher[2], Tahinamandranto Rasamoelina[3], Rivo S. Rakotomalala[2], Zoly Rakotomalala[2], Bodo S. Randrianasolo[4], Irina Kislaya[1], Jürgen May[1], Valentina Marchese[1], Rivo A. Rakotoarivelo[5], Daniela Fusco[1]
[1]Department of Infectious Diseases Epidemiology, Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany, [2]Centre Hospitalier Universitaire Androva, Mahajanga, Madagascar, [3]Centre Infectiologie Charles Mérieux, Antananarivo, Madagascar, [4]Association K'OLO VANONA, Antananarivo, Madagascar, [5]Department of Infectious Diseases, University of Fianarantsoa Andrainjato, Fianarantsoa, Madagascar

3:30 p.m. 8332

TRANSCRIPTOMICS OF THE AFRICAN FRESHWATER SNAIL VECTOR *BIOMPHALARIA SUDANICA S.L.* REVEALS CANDIDATE LOCI FOR SCHISTOSOME RESISTANCE

Tom Pennance[1], Javier Calvelo[2], Jacob A. Tennessen[3], Eric S. Loker[4], Lijun Lu[4], Johannie M. Spaan[1], Andrés Iriarte[2], Maurice R. Odiere[5], Michelle L. Steinauer[1]
[1]Western University of Health Sciences COMP-NW, Lebanon, OR, United States, [2]Universidad de la República, Montevideo, Uruguay, [3]Harvard T.H. Chan School of Public Health, Boston, MA, United States, [4]University of New Mexico, Albuquerque, NM, United States, [5]Kenya Medical Research Institute (KEMRI), Kisumu, Kenya

(ACMCIP Abstract)

3:45 p.m. 8333

AUTOMATED DIAGNOSIS OF SCHISTOSOMA HAEMATOBIUM WITH ARTIFICIAL INTELLIGENCE ON HANDHELD DIGITAL MICROSCOPES IN RURAL CÔTE D'IVOIRE

María Díaz de León Derby*[1], Elena Dacal*[2], Daniel Cuadrado*[2], Jean Coulibaly*[3], Jaime Garcia-Villena[2], Carla Caballero[2], Lin Lin[2], David Bermejo-Peláez[2], Miguel Luengo-Oroz[2], Daniel Fletcher[1], Karla Fisher[4], Jason Andrews[5], Kigbafore Silue[3], **Isaac Bogoch**[4]
[1]University of California, Berkeley, Berkeley, CA, United States, [2]SpotLab, Madrid, Spain, [3]Université Félix Houphouët-Boigny, Abidjan, Côte D'Ivoire, [4]Toronto General Hospital, Toronto, ON, Canada, [5]Stanford University, Palo Alto, CA, United States

4 p.m. 8334

CHARACTERIZATION AND PROCESS DEVELOPMENT OF A *SCHISTOSOMA HAEMATOBIUM* SERINE PROTEASE INHIBITOR (SHSERPIN-P46): A NEXT GENERATION VACCINE FOR UROGENITAL SCHISTOSOMIASIS

Adebayo Molehin[1], Brooke Hall[1], Leah Sanford[1], Christine Lee[1], Sean Gray[2], Darrick Carter[2], Karleen King[1]
[1]Midwestern University, Glendale, AZ, United States, [2]PAI Lifesciences Inc, Seattle, WA, United States

(ACMCIP Abstract)

4:15 p.m. 8335

MULTIPLE ROUNDS OF PRAZIQUANTEL TREATMENTS OF *SCHISTOSOMA MANSONI* HOSTS (MICE AND HUMANS) GRADUALLY RENDER THEM LESS SUSCEPTIBLE TO REINFECTION

Etienne Soh Bayeck[1], Bernard Zambo[2], Leonel Meyo Kamguia[2], Mireille Kameni[2], Brice Owona Ayissi[1], **Justin Komguep Nono**[2]
[1]University of Yaounde 1, Yaounde, Cameroon, [2]Institute of Medical Research and Medicinal Plant Studies, Yaounde, Cameroon

(ACMCIP Abstract)

4:30 p.m. 8336

EMPOWER: ENRICHMENT METAGENOMIC PROFILING FOR WOMEN'S REPRODUCTIVE HEALTH

Jennifer Fitzpatrick[1], Rebecca Rockett[2], Juliana Gill[3], Rhoda Ndubani[1], Kwitaka Maluzi[1], Barry Kosloff[4], Kwame Shanaube[1], Cristina Tato[3], Amaya Bustinduy[5], Helen Ayles[1], Tanya Golubchik[2]
[1]Zambart, Lusaka, Zambia, [2]University of Sydney, Sydney, Australia, [3]Chan-Zuckerberg Biohub, San Francisco, CA, United States, [4]Longhorn Vaccines & Diagnostics, Bethesda, MD, United States, [5]London School of Hygiene & Tropical Medicine, London, United Kingdom

Symposium 144

Tackling Persistent and Recrudescent Transmission of NTDs: A Growing End-Game Challenge for Elimination of Trachoma, Lymphatic Filariasis and Eradication of Guinea Worm Disease

Convention Center - Room 356 (3rd Floor)
Saturday, November 16, 3 p.m. - 4:45 p.m.

As per the NTD Roadmap, the World Health Organization (WHO) and partners aim to attain global elimination of at least one NTD in endemic countries by 2030. However, persistent and recrudescent transmission is an emerging endgame challenge and is likely to affect country-level and global-level elimination targets. For example, globally, 14 countries have persistent and recrudescent active trachoma affecting 16% and 9% of evaluation units, respectively. As a result, the WHO and partners convened an informal technical consultation in 2021 that provided guidance on technical definitions, gaps in evidence, and proposed programmatic enhancements to tackle persistent and recrudescent active trachoma. Based on the informal consultation, strategies around modified mass drug administration (MDA) and enhanced monitoring were proposed which have subsequently been taken on board by country programs. While there are no formal definitions for persistent or recrudescent scenarios for other NTDs, similar phenomena have been documented. For example, foci of persistent lymphatic filariasis (LF) transmission have been documented in Ghana and Sri-Lanka, while recrudescent LF has been reported in Indonesia. Guinea worm eradication programs have now been in place for over three decades in Ethiopia and South Sudan, suggesting persistent disease transmission in prevailing, yet shrinking foci. Additionally, Chad and Mali previously reported interrupted transmission but have subsequently experienced recurrence of Guinea worm disease (GWD), suggesting potential recrudescence, amongst other possible scenarios. This symposium will start by reviewing the epidemiology, risk factors, and potential game-changing interventions of persistent and recrudescent active trachoma. The approach used to categorize trachoma as persistent or recrudescent evaluation units will then be expanded to characterize persistent and recrudescent characteristics of LF, describe risk factors contributing to on-going transmission of LF and propose novel and enhanced interventions. The symposium will apply a similar framework to describe transmission, risk factors, and game-changing interventions related to GWD. At the country level, the symposium will present programmatic examples on the epidemiology, challenges, and lessons learned from over two decades of monitoring persistent/recrudescent trachoma using ocular chlamydia testing in the Amhara Region of Ethiopia and enhanced interventions implemented as a result. In addition, the Uganda program will also exemplify persistent/recrudescent endgame challenges for trachoma and explore the risk of LF recrudescence and evidence-based approaches for prioritizing where to detect signals of LF recrudescence post-validation. #Elimination #Epidemiology #InfectiousDisease #Prevention

CHAIR

Jeremiah M. Ngondi
RTI International, Kenya, Kenya

Scott D. Nash
The Carter Center, Atlanta, GA, United States

3 p.m.
INTRODUCTION

3:10 p.m.
PERSISTENT AND RECRUDESCENT ACTIVE TRACHOMA AS A THREAT TO GLOBAL ELIMINATION: EPIDEMIOLOGY, RISK FACTORS AND ENHANCED INTERVENTION STRATEGIES

Kristen Renneker
The Task Force for Global Health, Decatur, GA, United States

3:25 p.m.
PERSISTENT AND RECRUDESCENT LF: OPERATIONAL DEFINITIONS, RISK FACTORS, GLOBAL PROGRAM IMPLICATIONS AND ENHANCED INTERVENTIONS

Jonathan D. King
WHO, Genève, Switzerland

3:40 p.m.
ENHANCED STRATEGIES TO INVESTIGATE PERSISTENT AND RECRUDESCENT TRACHOMA TRANSMISSION: LESSONS LEARNED FROM A DECADE OF OCULAR CHLAMYDIA TESTING IN THE AMHARA REGION OF ETHIOPIA
Scott D. Nash
The Carter Center, Atlanta, GA, United States

3:55 p.m.
PROGRAMMATIC ENHANCEMENTS TO INVESTIGATE AND ADDRESS PERSISTENT AND RECRUDESCENT TRACHOMA AND LF IN UGANDA
Rapheal Opon
Ministry of Health, Kampala, Uganda

4:15 p.m.
ENHANCED SURVEILLANCE AND INTERVENTIONS TO ADDRESS PERSISTENT/ RECRUDESCENCE TRANSMISSION: LESSONS LEARNED FROM GLOBAL GUINEA WORM ERADICATION PROGRAM
Samuel Makoy Yibi Logora
Ministry of Health, Juba, South Sudan

EDU-CATION CONTENT

Symposium 145

Engaging Scientists as Advocates Globally, Regionally, Nationally and Subnationally – Advocacy Session

Convention Center - Room 357 (3rd Floor)
Saturday, November 16, 3 p.m. - 4:45 p.m.

Every day, research, program, funding, and policy decisions are being made at global, regional, national and subnational levels. Whether you realize it or not, you are directly or indirectly impacted by these decisions. How, when and where should scientists use their voices as advocates to speak up for continued investment in science for health? This session will bring together scientists and advocates to share experiences using our voices in policy settings from Washington to Nairobi to Geneva and best practices in advocacy communications.

CHAIR
Jamie Bay Nishi
American Society of Tropical Medicine and Hygiene, Arlington, VA, United States

3 p.m.
INTRODUCTION

3:05 p.m.
ASTMH PRESIDENT TOUCHPOINTS TO POLICY AND ADVOCACY
Linnie Golightly
Weill Cornell Medical College, New York, NY, United States

3:25 p.m.
ENGAGING THE US CONGRESS IN SUPPORT OF GLOBAL HEALTH RESEARCH FUNDING
Jodie Curtis
Venable LLP, Washington, DC, United States

3:45 p.m.
ENGAGING THE US CONGRESS IN SUPPORT OF GLOBAL HEALTH RESEARCH FUNDING
Margaret McDonnell
United to Beat Malaria, UN Foundation, Washington, DC, United States

4:05 p.m.
ENGAGING GLOBALLY, REGIONALLY, NATIONALLY AND SUBNATIONALLY
Jamie Bay Nishi
American Society of Tropical Medicine and Hygiene, Arlington, VA, United States

4:25 p.m.
ENGAGING GLOBALLY, REGIONALLY, NATIONALLY AND SUBNATIONALLY
Olivia Ngou
Impact Sante Afrique, Yaoundé, Cameroon

Sarthak Das
Singapore, Singapore

4:35 p.m.
TIPS AND TOOLS FOR EFFECTIVE SCIENCE ADVOCACY COMMUNICATION
Gideon Hertz
Burness, Bethesda, MD, United States

Symposium 146

Minimally Invasive Tissue Sampling: A Tool for Public Health Preparedness

Convention Center - Room 383/384/385 (3rd Floor)
Saturday, November 16, 3 p.m. - 4:45 p.m.

High-quality mortality data is a fundamental component of global health security and pandemic preparedness. Accurate mortality surveillance requires coherent and context-specific national strategies that are integrated into the public health infrastructure and are aligned with cultural priorities. Robust and effective mortality surveillance systems must include strategies and tools sensitive enough to safely and efficiently recognize cases not identified through routine diagnostics, including detection and identification of pathogens of unknown origin as part of outbreak investigations, while simultaneously aligning with available resources as part of routine mortality surveillance. Minimally invasive tissue sampling (MITS), a pathology-based postmortem examination method which improves accuracy of cause of death determinization and identification of causal pathogens, is being increasingly used globally in mortality surveillance and research, particularly in resource-constrained settings. In contrast to complete diagnostic autopsy, MITS is more acceptable to communities, requires fewer resources and can be used in facilities with minimal infrastructure, such as rural mortuaries and lightly customized vehicles. MITS can be performed effectively by non-pathologist health care professionals, making it a promising component of mortality surveillance. Using targeted methods to rapidly identify infectious pathogens, MITS is a safe and efficient strategy for contributing to public health

preparedness. Due to the limited production of aerosols, using only enhanced personal-protective equipment (PPE) MITS has been used to investigate cause of death in cases of known infectious agents in settings without more sophisticated resources such as biosafety level (BSL)-3 laboratories and negative-pressure autopsy rooms. This symposium will consist of four case-studies that highlight examples and offer practical guidance for employing MITS as a strategy to contribute to robust and responsive public health preparedness by: 1) describing MITS' contribution in strengthening the maternal and perinatal death surveillance and response (MPDSR), underscoring context specific adaptations and stakeholder engagement in Nepal, 2) presenting organizational and community level strategies being used to integrate MITS as a complement to sample-based mortality systems in Zambia, 3) describing how MITS was instrumental in the rapid identification of infectious pathogens, emphasizing the role government and community collaboration and communication as part of an outbreak investigation in a rural boarding school in Kenya, and 4) outlining context-specific guidance and procedures for using MITS in outbreak investigations by CDC with a focus on ensuring biosafety #MNCH, #InfectiousDisease, #Pediatrics #PopulationSurveillance, #EmergingDiseaseThreats

CHAIR

Christina (Tia) Paganelli
RTI International, Durham, NC, United States

Victor Akelo
CDC, Kisumu, Kenya

3 p.m.
INTRODUCTION

3:10 p.m.
MINIMALLY INVASIVE TISSUE SAMPLING TO SUPPORT MATERNAL AND PERINATAL DEATH SURVEILLANCE AND RESPONSE

Nuwadatta Subedi
Gandaki Medical College and Research Center, Pokhara, Nepal

3:25 p.m.
ENHANCING PUBLIC HEALTH PREPAREDNESS THROUGH POPULATION-REPRESENTATIVE MORTALITY SURVEILLANCE

Stephen Chanda
Zambia National Public Health Institute, Lusaka, Zambia

3:40 p.m.
PRACTICAL INVESTIGATION OF A DISEASE OUTBREAK IN A RURAL COMMUNITY USING MINIMALLY INVASIVE TISSUE SAMPLING

Edwin Walong
Nairobi School of Medicine/Kenyatta National Hospital, Nairobi, Kenya

3:55 p.m.
DISEASE OUTBREAK INVESTIGATIONS USING MINIMALLY INVASIVE TISSUE SAMPLING: PAST EXPERIENCES AND FUTURE DIRECTIONS

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

Symposium 147

What it Truly Takes to Build Health System Resilience in an Era of Global Environmental Change: A Case Study of Madagascar

Convention Center - Room 388/389 (3rd Floor)
Saturday, November 16, 3 p.m. - 4:45 p.m.

Madagascar, an island country in which 90% of plants and 85% of animals are endemic species, is also home to one of the first famines attributed to global warming. Madagascar has experienced increasingly frequent extreme weather events resulting in damaged infrastructure, population displacement, rising rates of malnutrition, and a shifting burden of infectious disease. Given the environmental, ecological, and human health vulnerabilities in Madagascar, the country is uniquely positioned to identify innovative solutions for persistent challenges and share transferable lessons on planetary health. We present a case study that outlines Madagascar's multi-sectoral approach to building resilience. We will describe how organizations from various sectors are using community leadership, data from diverse sources, research methods that draw from across scientific disciplines, and collaborative partnerships to respond to a changing climate. Leaders from across Madagascar will share their experience in adapting their activities to meet local needs. We will review the ways in which "resilience" is defined by different sectors, and advocate for eliminating ideological silos in favor of cross-sector collaboration for maximum impact and sustainability. The panel will feature representatives from organizations working across Madagascar: a) The Ministry of Public Health will present on a national strategy for resilient health systems and meeting the country's needs in response to ongoing climate challenges: drought-related malnutrition, infrastructure destruction by cyclones, and infectious disease outbreaks; b) A community health worker will provide insight into climate events and community priorities; c) Charles Merieux Center of Infectious Disease, Madagascar's leading public health laboratory and a research center, will present on the role of diagnostics and infectious disease research in system design for a changing climate; d) Pivot, an NGO with a decade of experience working with the government to establish a model system of healthcare based on the integration of science and service delivery, will present on the response to local climate events and community health analytics to identify changing disease burden; e) Blue Ventures, a marine conservation organization, will share how they have used fisheries as a point of entry for engaging in building health systems resilience. The facilitator will pose questions to panelists and audience members on the risks and opportunities of health systems strengthening in a time of climate crisis; the challenges of nimble, right-sized data collection; and integrating research with clinical care to generate useful evidence for local and national stakeholders. #FieldStudies #MNCH #InfectiousDisease

CHAIR

Matthew Bonds
Harvard Medical School, Boston, MA, United States

Laura Cordier
Pivot, Ranomafana, Madagascar

3 p.m.
INTRODUCTION

3:10 p.m.
BUILDING A RESILIENT NATIONAL HEALTH SYSTEM
Zely Arivelo Randriamanantany
Madagascar Ministry of Public Health, Antananarivo, Madagascar

3:25 p.m.
INFECTIOUS DISEASE RESEARCH AND PLANETARY HEALTH IN MADAGASCAR
Luc Samison
Centre d'Infectiologie Charles Mérieux, Antananarivo, Madagascar

3:40 p.m.
ENGAGING COMMUNITIES IN RESPONDING TO CLIMATE EVENTS
Fety Randrianarivelo
Madagascar Ministry of Public Health, Ranomafana, Madagascar

3:55 p.m.
BUILDING HEALTH SYSTEM RESILIENCE THROUGH FISHERIES
Edith Ngunjiri
Blue Ventures, Antananarivo, Madagascar

4:10 p.m.
HEALTH SYSTEMS STRENGTHENING IN THE FACE OF A CHANGING CLIMATE
Benedicte Razafinjato
Pivot, Ranomafana, Madagascar

Symposium 148

Spatial Repellents to Prevent Dengue and Malaria: Evidence and Policy Updates

Convention Center - Room 391/392 (3rd Floor)
Saturday, November 16, 3 p.m. - 4:45 p.m.

Long available for commercial use, spatial repellents are an underrecognized product class for malaria vector control currently under evaluation by the World Health Organization (WHO). These are products that can be hung up to diffuse active ingredients, commonly insecticides, to reduce contact between humans and mosquitoes. Evidence on safety, efficacy, and user acceptability continues to support the entry of spatial repellents into the malaria and dengue vector control arsenal in the near future, and it is time for this product class to enter the mainstream radar of important vector control tools that can offer protection from mosquito-borne disease. This is a symposium on spatial repellents to reduce mosquito-borne disease. Here we cover the history of spatial repellent research and where we are today, focusing on the active ingredients available and those in the pipeline, evidence from entomology semi-field and field studies, epidemiological evidence from two large scale trials in Mali and Kenya, implementation science findings on user acceptability and delivery, and current WHO policy status on this product class. Our first speaker, Nicole Achee, will provide an overview of spatial repellent history, active ingredients in use today, and research priorities required to support their potential and continued widescale rollout. How has the evidence base been growing, where are we today? Which use case scenarios are under consideration and, looking ahead, what more do we need to know? Our second speaker, Daniel Msellemu, will present results from the meta-analysis 'Volatile pyrethroids against mosquitoes,' as well as interim findings from a Cochrane review on epidemiological studies of spatial repellents to prevent malaria. Our third speaker, Eric Ochomo, will present an evaluation of the protective efficacy of a spatial repellent to reduce malaria incidence in children in western Kenya compared to placebo: outcomes from a cluster-randomized double-blinded control trial. These findings are critical to the WHO prequalification pathway for spatial repellents. Our fourth speaker, Dr. Issaka Sagara, will present an evaluation of the protective efficacy of a spatial repellent to reduce malaria incidence in children in Mali compared to placebo: outcomes from a cluster-randomized double-blinded control trial. These findings are also critical to the WHO prequalification pathway for spatial repellents. Our final speaker, Dr. Dyna Doum will present on the delivery and uptake of spatial repellent devices to forest populations in Cambodia, describing the uptake, challenge, and lessons learned from delivering spatial repellent devices in Cambodia to over 2,000 individuals. #InfectiousDisease #Epidemiology #TranslationalScience #Prevention #Elimination

CHAIR

Ingrid Chen
University of California, San Francisco, San Francisco, CA, United States

Nicole L. Achee
University of Notre Dame, Notre Dame, IN, United States

3 p.m.
INTRODUCTION

3:10 p.m.
SPATIAL REPELLENTS: FROM ACTIVE INGREDIENT DISCOVERY TO POLICY AND ROLLOUT EVALUATIONS
Nicole L. Achee
University of Notre Dame, Notre Dame, IN, United States

3:25 p.m.
META-ANALYSIS OF ENTOMOLOGICAL EVIDENCE BASE FOR SPATIAL REPELLENTS
Daniel F. Msellemu
Ifakara Health Institute, Dar es Salaam, United Republic of Tanzania

3:40 p.m.
EVALUATION OF THE PROTECTIVE EFFICACY OF A SPATIAL REPELLENT TO REDUCE MALARIA INCIDENCE IN CHILDREN IN WESTERN KENYA COMPARED TO PLACEBO: OUTCOMES FROM A CLUSTER-RANDOMIZED DOUBLE-BLINDED CONTROL TRIAL
Eric Ochomo
Kenya Medical Research Institute, Kisumu, Kenya

3:55 p.m.
EVALUATION OF THE PROTECTIVE EFFICACY OF A SPATIAL REPELLENT TO REDUCE MALARIA INCIDENCE IN CHILDREN IN MALI COMPARED TO PLACEBO: OUTCOMES FROM A CLUSTER-RANDOMIZED DOUBLE-BLINDED CONTROL TRIAL
Issaka Sagara
Malaria Research and Training Center (MRTC), University of Sciences, Techniques and Technologies of Bamako (USTTB), Bamako, Mali

4:10 p.m.
DELIVERY AND UPTAKE OF SPATIAL REPELLENT DEVICES TO FOREST POPULATIONS IN CAMBODIA: AN IMPLEMENTATION RESEARCH STUDY

Dyna Doum
Health Forefront Organization, Phnom Penh, Cambodia

Symposium 149

Reaching the Last Mile: Innovations and Implementation Approaches to Ensure Community-Based Malaria Care for All

Convention Center - Room 393/394 (3rd Floor)
Saturday, November 16, 3 p.m. - 4:45 p.m.

Limited access to care and delayed care seeking remain significant barriers to controlling malaria. Despite renewed focus on community health worker (CHW) programs, access to and use of malaria services, especially for remote populations, remain low. This symposium will present results from recent community case management innovations designed to improve access to timely malaria services in several countries in sub-Saharan Africa. Presentations will include results from cluster-randomized trials, pilot projects, and scale-up of expanded CHW services through the routine health system, plus a modeling application to optimize CHW placement. First, we will hear new results from a recently completed trial in three districts in Malawi of the expansion of malaria community case management (mCCM) to community members of all ages. Our speaker from Madagascar will then discuss the implementation of age-expanded mCCM in southeast Madagascar through the routine health system, explaining how findings from a similar study in Madagascar informed the implementation approach, and how community intermittent preventive treatment of malaria in pregnancy (c-IPTp) services were successfully added without over burdening CHWs. The second community-based innovation will cover proactive approaches whereby CHWs visit households at periodic intervals to test for and treat malaria (ProCCM in Mali and Zambia). In Mali, proactive visits were part of a comprehensive pilot of malaria services that included a strengthened CHW network and reinforced primary care services, a package that helped reduce child mortality in a setting of conflict and displaced populations. The speaker will present the latest findings on the (limited) added benefits of proactive visits on top of a comprehensive package of strengthened malaria services, with an aim towards helping donors and policymakers understand the best use of limited resources when scaling-up community services. Similarly, implications of a recent ProCCM trial in Zambia, where the benefits of proactive malaria sweeps in a setting of high mCCM coverage were modest, will be discussed. Finally, we will hear from a modeler who will present work done in collaboration with the Cameroon Ministry of Health to understand optimal geographic expansion of CHW networks. The model targets areas with higher malaria burden, child mortality, and displaced populations, and the speaker will explain how to adapt it across different settings. All presenters will discuss logistical challenges and lessons learned during trial and program implementation, as well as how their findings can inform policy and program decisions in malaria-endemic countries. We will close with a panel discussion and Q&A, allowing ample time for discussion and idea sharing. #ChildHealth #FieldStudies #MNCH

CHAIR
Laura C. Steinhardt
CDC, Atlanta, GA, United States

3 p.m.
INTRODUCTION

3:05 p.m.
EXPANDING MALARIA COMMUNITY CASE MANAGEMENT (MCCM) TO ALL AGES IN THREE DISTRICTS OF MALAWI: KEY RESULTS FROM A CLUSTER-RANDOMIZED TRIAL

Tinashe Tizifa
TRUE, Blantyre, Malawi

3:20 p.m.
FROM CONTROLLED TRIAL TO POLICY EXPANSION: KEY LEARNINGS FROM IMPLEMENTING AGE-EXPANDED MCCM AND COMMUNITY IPTP THROUGH THE ROUTINE HEALTH SYSTEM IN MADAGASCAR

Andritahina Razafiarijoana
MCGL (Jpiego), Antananarivo, Madagascar

3:35 p.m.
THE ADDED VALUE OF PROACTIVE CHW VISITS AS PART OF A COMPREHENSIVE PRIMARY CARE PACKAGE IN MALI

Kassoum Kayentao
MUSO, Bamako, Mali

3:50 p.m.
ARE PROACTIVE VISITS REALLY NEEDED IN ZAMBIA? UNDERSTANDING PROCCM RESULTS IN A SETTING OF HIGH COVERAGE OF ROUTINE MCCM

Bupe Kabamba
PATH PAMO Project, Lusaka, Zambia

4:05 p.m.
MODELING APPROACHES TO OPTIMIZE GEOGRAPHIC EXPANSION OF CHW ACTIVITIES IN CAMEROON

Justin Millar
PATH Insights, Seattle, WA, United States

Symposium 150

New Perspectives on Human Autochthonous Chagas Disease in the United States and Mexico

Convention Center - Room 395/396 (3rd Floor)
Saturday, November 16, 3 p.m. - 4:45 p.m.

This session presents research and insights on autochthonous Chagas disease, including vector and host species, in different regions of the United States and Mexico. 1. Gabriel L. Hamer (Texas A&M University) will discuss mechanisms of *T. cruzi* spill-over from triatomines to humans, presenting study results

of where triatomines occur in the U.S. using a community science program, what triatomines feed on using bloodmeal metabarcoding, and experiments exploring triatomine feeding and defecation behavior related to risk of human exposure to *T. cruzi*. 2. Claudia Herrera (Tulane University) will explore questions about the current distribution of parasite DTUs. Our team detected a previously unreported *T. cruzi* DTU circulating among triatomine vectors and rodents from rural and urban areas in New Orleans. A high prevalence of *T. cruzi* in local mammals suggest active peri(domestic) transmission of *T. cruzi* in urban and rural areas in Louisiana. 3. Paula Stigler Granados (San Diego State University) will describe research on distribution of triatomines on U.S. military installations and risks posed to active duty service members and military working dogs. Triatomine surveillance conducted on U.S. military bases near the U.S. Mexico border highlights the need to use a One Health multi-disciplinary approach. 4. Norman L. Beatty (University of Florida) and a multidisciplinary research team have found a wide distribution of triatomines invading human dwellings in Florida, a potential new Triatoma species, and high rates of *T. cruzi* infection in triatomines and mammals. They have unearthed the first known autochthonous Florida canine Chagas in the state. 5. Melissa Nolan, (University of South Carolina) will discuss research on autochthonous human transmission dynamics across the Southern United States, including California, Arizona, Texas and South Carolina. Multi-year investigations have unearthed unique transmission dynamics resulting in locally acquired human infection. 6. Carlos Ibarra (Centro de Investigaciones de Estudios Avanzados del Institute Politecnico Nacional, Merida, Mexico) will provide a perspective from Mexico, where all phylogenetic variants of Trypanosoma cruzi have been detected and which hosts diverse vector and host species. This diversity and ongoing environmental changes adds complexity to the dynamics of *T. cruzi* transmission. New research is providing insight on these complex processes. #InfectiousDisease, #EcologicalStudies, #FieldStudies, #MolecularBiology

CHAIR

Claudia P. Herrera
Tulane University, New Orleans, Louisiana- USA, LA, United States

Davidson H. Hamer
Boston University School of Medicine, Boston, MA, United States

3 p.m.
INTRODUCTION

3:10 p.m.
THE MYTH ABOUT TRIATOMINES WITHOUT CHAGAS

Gabriel L. Hamer
Texas A&M University Department of Entomology, College Station, TX, United States

3:25 p.m.
GENETIC DIVERSITY OF *TRYPANOSOMA CRUZI* INFECTION IN SOUTHERN LOUISIANA AND IMPLICATIONS FOR PARASITE TRANSMISSION NETWORK

Claudia P. Herrera
Tulane University, School of Public Health and Tropical Medicine, New Orleans, LA, United States

3:40 p.m.
CHAGAS DISEASE IN THE U.S. MILITARY AND ITS IMPLICATIONS FOR NATIONAL SECURITY

Paula Stigler-Granados
San Diego State University, School of Public Health, San Diego, CA, United States

3:55 p.m.
ONE HEALTH TEAM SCIENCE APPROACH TO CONFRONTING AUTOCHTHONOUS CHAGAS IN THE STATE OF FLORIDA

Norman L. Beatty
University of Florida, Division of Infectious Diseases and Global Medicine, Gainesville, FL, United States

4:10 p.m.
AUTOCHTHONOUS HUMAN TRANSMISSION IN THE USA: EPIDEMIOLOGIC RISK FACTORS VARY BY GEOGRAPHIC ORIGIN

Melissa S. Nolan
University of South Carolina, Columbia, SC, United States

4:25 p.m.
THE BIO-ECO DIVERSITY OF THE MEXICAN LANDSCAPE: UNRAVELING THE DYNAMICS OF *T. CRUZI* TRANSMISSION

Carlos Ibarra-Cerdeña
Human Ecology Department, Center for Research and Advanced Studies of the National Polytechnic Institute, Merida, Mexico

New Orleans Tour: A Walk through the History of New Orleans and Intersections with Tropical Medicine and Public Health

Limited to attendees who signed up at Tulane Exhibit Booth
Saturday, November 16, 2:30 p.m. - 4:30 p.m.

The city of New Orleans is a landscape imprinted with the waves of epidemics that in response produced the first school of public health and first school of tropical medicine in the United States. New Orleans' culture and its geography shaped these epidemics and the epidemics in turn shaped the city's culture and economy. Stop by the Tulane booth in the Exhibit Hall to sign up for a walk to see some key sites of the city, the yellow fever mortuary chapel, the birth places of American music, the slave market, the front door of the French Quarter and the Mississippi River's edge which evokes the physical and social contexts that brought yellow fever, cholera, and malaria to the city.

Break

Saturday, November 16, 4:45 p.m. - 5:15 p.m.

Special Session 164

ASTMH Committee on Global Health (ACGH) Networking and Lightning Presentations

Convention Center - Room 398 (3rd Floor)
Saturday, November 16, 5 p.m. - 6:30 p.m.

Please join ACGH members for an early-evening social that brings together members of the subgroup, stimulates opportunities for networking, and gives trainees an opportunity to present their research in 3-minute presentations. Light snacks.

CHAIR

Jennifer A. Downs
Weill-Cornell Medical College, New York, NY, United States

Symposium 151

Global Collaboration on Determining Best Practices in the Evaluation and Management of Suspect Viral Hemorrhagic Fever (VHF) Cases

Convention Center - Hall I-2 (1st Floor)
Saturday, November 16, 5:15 p.m. - 7 p.m.

Public health agencies and health care facilities confront unique challenges when faced with ill travelers returning from VHF-affected regions, whether they are healthcare workers responding to an outbreak or tourists. It is often difficult to convince administrators and/or funders that the expense and complexity of preparing for these low probability but high-risk events is worthy, until an event happens closer to home. Events during the 2014-2015 West African outbreak revealed these gaps in preparation. Definition of suspect case may be challenging. Emergency medical vehicles may not be found to transport suspect VHF cases. Health care facilities with the capacity to isolate, evaluate and manage a suspect VHF case may not be readily available. Transport of specimens and identification of a laboratory with testing capabilities may also be difficult. Public health agencies and health care facilities alike are focusing on strengthening preparedness and response processes and would benefit from learning from others' experiences and working collaboratively towards solutions to common challenges. This symposium will convene a panel of speakers representing governmental health agencies, academic centers, and health care institutions of eight countries. Country-specific information about healthcare infrastructure and processes related to VHF preparedness and response will be presented in brief to provide important context. A clinical scenario will be created as a platform for panelists to detail how a VHF suspect case would be evaluated and managed in their respective countries, and to highlight the unique challenges that such a scenario would pose. Specifically, the clinical scenario would describe a critically ill adult traveler with no known risk factors, returning from a country endemic for a VHF, who presents to a health care facility. Discussion will center on how evaluation and management would differ if the traveler were a child. Countries endemic for specific VHFs and not others (e.g., Nigeria in which Lassa fever is endemic but not Ebola virus disease) can offer unique perspectives. To engage the audience in the discussion and provide an avenue for additional input and perspectives from others, we will pose live polling questions to the audience, relevant to the key discussion points. In the final segment of the symposium, we will outline best practices related to the evaluation and management of suspect VHF cases. This discussion will be based on the lessons learned from each panelist and the perspectives shared by audience members. Audience members will be asked to submit their questions and comments on cards to be integrated into the discussion as appropriate. #Epidemiology #EmergingDiseaseThreats #InfectiousDisease #Prevention

CHAIR

Mary J. Choi
Centers for Disease Control and Prevention, Atlanta, GA, United States

Frédérique Jacquerioz Bausch
Center for Viral Emerging Diseases, Hôpitaux Universitaires de Genève, Geneva, Switzerland

5:15 p.m.
INTRODUCTION

5:25 p.m.
GLOBAL COLLABORATION ON DETERMINING BEST PRACTICES IN THE EVALUATION AND MANAGEMENT OF SUSPECT VIRAL HEMORRHAGIC FEVER (VHF) CASES
Fatima Saleh
Nigeria Centre for Disease Control and Prevention, Abuja, Nigeria

5:40 p.m.
GLOBAL COLLABORATION ON DETERMINING BEST PRACTICES IN THE EVALUATION AND MANAGEMENT OF SUSPECT VIRAL HEMORRHAGIC FEVER (VHF) CASES
Emilio Hornsey
UK Health Security Agency, London, United Kingdom

5:55 p.m.
GLOBAL COLLABORATION ON DETERMINING BEST PRACTICES IN THE EVALUATION AND MANAGEMENT OF SUSPECT VIRAL HEMORRHAGIC FEVER (VHF) CASES
Erika Vlieghe
Antwerp University Hospital, Institute of Tropical Medicine, Antwerp, Belgium

6:10 p.m.
GLOBAL COLLABORATION ON DETERMINING BEST PRACTICES IN THE EVALUATION AND MANAGEMENT OF SUSPECT VIRAL HEMORRHAGIC FEVER (VHF) CASES
Jacqueline Weyer
Centre for Emerging Zoonotic and Parasitic Diseases, National Institute for Communicable Diseases of the National Health Laboratory Service, Johannesburg, South Africa

6:25 p.m.
GLOBAL COLLABORATION ON DETERMINING BEST PRACTICES IN THE EVALUATION AND MANAGEMENT OF SUSPECT VIRAL HEMORRHAGIC FEVER (VHF) CASES
James E. Strong
Public Health Canada, Manitoba, Canada

Special Session 152

Film Screening and Discussion: "Accidental Host - The Story of Rat Lungworm Disease"

Convention Center - Room 343/344 (3rd Floor)
Saturday, November 16, 5:15 p.m. - 6:30 p.m.

THIS SESSION DOES NOT CARRY CME CREDIT.

"Accidental Host - The Story of Rat Lungworm Disease" is a 53-minute medical documentary about *Angiostrongylus cantonensis*, a neuro-invasive foodborne parasite that now thrives in tropical areas of six continents. Shot in Hawaii, Florida, and California and currently airing and streaming on PBS, the film features multiple patient stories and interviews with experts

while depicting a disease that is often unknown to physicians as well as travelers and residents at risk. Additional themes include the fascinating history, life cycle, and ecology of the globalizing nematode and its unique impact on Hawaii. "Accidental Host" was produced by Claire Panosian Dunavan, a past president of the American Society of Tropical Medicine and Hygiene, along with a team of veteran, award-winning filmmakers. For more about the film, or to watch a 3-minute trailer, please visit www.ratlungwormfilm.com

CHAIR

Claire Panosian Dunavan
UCLA David Geffen School of Medicine, Los Angeles, CA, United States

5:15 p.m.
INTRODUCTION

Claire Panosian Dunavan
UCLA David Geffen School of Medicine, Los Angeles, CA, United States

5:20 p.m.
"ACCIDENTAL HOST - THE STORY OF RAT LUNGWORM DISEASE"

6:15 p.m.
DISCUSSION AND AUDIENCE Q&A

Scientific Session 153

One Health II: The Interconnection between People, Animals, Plants and Their Shared Environment

Convention Center - Room 345 (3rd Floor)
Saturday, November 16, 5:15 p.m. - 7 p.m.

#FieldStudies #EcologicalStudies #InfectiousDisease #Epidemiology #SocialStudies

CHAIR

Jade Benjamin-Chung
Stanford University, Stanford, CA, United States

Daniel Olson
University of Colorado, Denver, CO, United States

5:15 p.m. 8337

SEROPREVALENCE AGAINST MULTIPLE VIRUSES AT HUMAN ANIMAL INTERFACE IN BUKAVU, DEMOCRATIC REPUBLIC OF CONGO

Junior Bulabula-Penge[1], Antoine Nkuba-Ndaye[1], Chasinga Buharanyi[2], Ayagirwe Basengere[3], David Lupande-Muenebintu[4], Daniel Mukadi-Bamuleka[5], Esperance Tsiwedi Tsilabia[5], Noella Mukanya Mulopo[5], Louis Glénat[6], Frédéric LeMarcis[7], Eric Delaporte[8], Almudena Mari Saez[6], Martine Peeters[6], Steve Ahuka-Mundeke[1]
[1]National Institute of Biomedical Research (INRB), Kinshasa, Democratic Republic of the Congo, [2]Hôpital Panzi, Bukavu, Democratic Republic of the Congo, [3]Université Evangélique d'Afrique, Bukavu, Democratic Republic of the Congo, [4]Hôpital Provincial Général de Bukavu, Bukavu, Democratic Republic of the Congo, [5]Rodolphe Mérieux INRB-Goma Laboratory, Goma, Democratic Republic of the Congo, [6]TransVIHMI, Universite de Montpellier, Institut de Recherche pour le Développement, INSERM,, Montpellier, France, [7]TransVIHMI, Universite de Montpellier, Institut de Recherche pour le Développement, INSERM, Montpellier, France, [8]TransVIHMI, Universite de Montpellier, Institut de Recherche pour le Développement, INSERM,, M, France

5:30 p.m. 8338

EXPOSURE TO MAYARO VIRUS IN THE IN THE PERUVIAN AMAZON

Amy C. Morrison[1], Adam J. Moore[2], Daniel Strebow[3], Whitney Weber[3], Zachary Streblow[3], Mariana Leguia[4], Jhonny Cordova[5], Jennifer E. Rios Lopez[5], S. Alfonso Vizcarra[5], Alejandra Garcia-Glaessner[4], Breno Muñoz-Saavedra[4], Diana Juarez[4], Patricia Barrera[4], Gabriela Salmon-Mulanovich[4], Tatiana Quevedo[6], Carlos Calvo-Mac[6], Marcela M. Uhart[7], Nicole R. Gardner[7], Christine K. Johnson[7], Christopher M. Barker[1], Lark L. Coffey[1]
[1]Dept. of Pathology, Microbiology, and Immunology, School of Veterinary Medicine, University of California, Davis, Davis, CA, United States, [2]University of California, Davis, Davis, CA, United States, [3]Vaccine & Gene Therapy Institute, Oregon Health & Science University, Beaverton, OR, United States, [4]Laboratorio de Genómica, Pontificia Universidad Católica del Perú, Lima, Peru, [5]Asociacón Benéfica Prisma, Lima, Peru, Iquitos, Peru, [6]Asociacón Benéfica Prisma, Lima, Peru, [7]One Health Institute, School of Veterinary Medicine, University of California, Davis, Davis, CA, United States

5:45 p.m. 8339

RISK FACTORS FOR ACUTE Q FEVER IN KILIMANJARO, TANZANIA: A PROSPECTIVE OBSERVATIONAL FEBRILE ILLNESS SURVEILLANCE STUDY

Matthew Rubach[1], Thomas Bowhay[2], William Nicholson[3], Jamie Perniciaro[3], Deng Madut[1], Ganga Moorthy[1], Holly Biggs[1], Michael Maze[4], Jo Halliday[5], Kathryn Allan[5], Angelo Mendes[5], Blandina Mmbaga[6], Wilbrod Saganda[7], Bingileki Lwezaula[7], Sarah Cleaveland[5], Venance Maro[6], John A. Crump[1]
[1]Duke University, Durham, NC, United States, [2]University of Otago, Dunedin, New Zealand, [3]US Centers for Disease Control & Prevention, Atlanta, GA, United States, [4]University of Otago, Christchurch, New Zealand, [5]University of Glasgow, Glasgow, United Kingdom, [6]Kilimanjaro Christian Medical Centre, Moshi, United Republic of Tanzania, [7]Ministry of Health, Moshi, United Republic of Tanzania

6 p.m. 8340

BAT HUNTING PRACTICES AND HEALTH RISKS: INSIGHTS FROM A BANGLADESHI BAT-HUNTING COMMUNITY

Abdul Khaleque Md. Dawlat Khan[1], Farhana Begum[2]
[1]Institute of Epidemiology, Disease Control and Research (IEDCR), Dhaka, Bangladesh, [2]University of Dhaka, Dhaka, Bangladesh

6:15 p.m. 8341

MICROBIOMES AND RESISTOMES IN HOUSEHOLD ENVIRONMENTS WITH DOMESTIC ANIMAL COHABITATION: A STUDY IN RURAL BANGLADESH

Jade Benjamin-Chung[1], Gabriella Barratt Heitmann[1], Kalani Ratnasiri[1], Sumaiya Tazin[2], Claire Anderson[1], Suhi Hanif[1], Afsana Yeamin[3], Abul Kasham Shoab[3], Farjana Jahan[3], Md. Sakib Hossain[3], Zahid Hayat Mahmud[3], Mohammad Jubair[3], Mustafizur Rahman[3], Mahbubur Rahman[3], Ayse Ercumen[2]
[1]Stanford University, Stanford, CA, United States, [2]North Carolina State University, Raleigh, NC, United States, [3]icddr,b, Dhaka, Bangladesh

6:30 p.m. 8342

ASSESSING ANIMAL FECAL CONTAMINATION IN FLOORS AND HAND SAMPLES FROM HOUSEHOLDS IN NORTHWESTERN COASTAL ECUADOR

Viviana A. Alban[1], Kelsey J. Jesser[1], Caitlin Hemlock[1], Aldo Lobos[2], Joseph Eisenberg[3], Gwenyth Lee[4], Gabriel Trueba[5], Valerie J. Harwood[2], Karen Levy[1]
[1]University of Washington, Seattle, WA, United States, [2]University of South Florida, Tampa, FL, United States, [3]University of Michigan, Ann Arbor, MI, United States, [4]Rutgers University, New Brunswick, NJ, United States, [5]Universidad San Francis, Quito, Ecuador

6:45 p.m. 8343

DISCOVERY OF NEW SPECIES OF WILD MAMMALS AS POTENTIAL RESERVOIRS IN AMAZONIA OF *COXIELLA BURNETII*, THE AGENT OF Q FEVER

Loïc Epelboin[1], Damien Donato[2], Edith Guilloton[1], Salma Omar[1], Mona Saout[3], Olivier Duron[4], Alizée Raptapopoulo[5], Aurelie Couesnon[5], Elodie Rousset[5], Benoit De Thoisy[2], Anne Lavergne[2]
[1]Centre Hospitalier de Cayenne, Cayenne, French Guiana, [2]Institut Pasteur in French Guiana, Cayenne, French Guiana, [3]Université de Guyane, Cayenne, French Guiana, [4]University of Montpellier, CNRS, IRD, Montpellier, France, [5]ANSES (French Agency for Food, Environmental and Occupational Health and Safety), Sophia-Antipolis, France

Scientific Session 154

American Committee of Molecular Cellular and Immunoparasitology (ACMCIP): Antiparasitic Drugs - From Target Identification to Clinical Trials

Convention Center - Room 352 (3rd Floor)
Saturday, November 16, 5:15 p.m. - 7 p.m.

Supported with funding from the Burroughs Wellcome Fund

#Therapeutics #TranslationalScience #CellBiology #InfectiousDisease

CHAIR

Daniel Sprague
Medical University of South Carolina, Charleston, SC, United States

Claudia Rohr
Medical College of Wisconsin, Milwaukee, WI, United States

5:15 p.m. 8439

IN VIVO SCREEN REVEALS PLASMODIUM FALCIPARUM TARGETS FOR MOSQUITO-BASED MALARIA INTERVENTION

Alexandra Probst[1], Douglas Paton[2], Federico Appetecchia[2], Selina Bopp[2], Tasneem Rinvee[2], Sovitj Pou[3], Rolf Winter[3], Esrah Du[2], Sabrina Yahiya[4], Charles Vidoudez[5], Naresh Singh[2], Janneth Rodrigues[6], Pablo Castañeda-Casado[6], Chiara Tammaro[2], Daisy Chen[7], Karla Godinez Macias[7], Giovanna Poce[8], Aaron Nilsen[3], Elizabeth Winzeler[7], Jake Baum[9], Jeremy Burrows[10], Michael Riscoe[3], Dyann Wirth[2], Flaminia Catteruccia[2]
[A]Immunology and Infectious Diseases, [1]Harvard. T. H. Chan School of Public Health, Boston, MA, United States, [2]Portland VA Medical Center, Portland, OR, United States, [3]Department of Life Sciences, Imperial College London, London, United Kingdom, [4]Harvard Center for Mass Spectrometry, Cambridge, MA, United States, [5]Tres Cantos Open Lab Foundation, GlaxoSmithKline, Tres Cantos, Spain, [6]Department of Pediatrics, School of Medicine, University of California, San Diego, San Diego, CA, United States, [7]Department of Chemistry and Pharmaceutical Technologies, Sapienza University of Rome, Rome, Italy, [8]School of Biomedical Sciences, University of New South Wales, Sydney, Australia, [9]Medicines for Malaria Ventures, Meyrin, Switzerland

5:30 p.m. 8344

TRANSPOSON MUTAGENESIS OF *PLASMODIUM KNOWLESI* REVEALS DETERMINANTS OF ANTIMALARIAL SUSCEPTIBILITY

Brendan Elsworth[1], Sida Ye[2], Sheena Dass[3], Jacob T. Tennessen[3], Basil T. Thommen[3], Aditya S. Paul[3], Marc-Jan Gubbels[4], Kourosh Zarringhalam[5], Manoj T. Duraisingh[3]
[1]Food and Drug Administration, Silver Spring, MD, United States, [2]University of Massachusetts, Boston, MA, United States, [3]Harvard T.H. Chan School of Public Health, Boston, MA, United States, [4]Boston College, Boston, MA, United States, [5]University of Massachusetts Boston, Boston, MA, United States

(ACMCIP Abstract)

5:45 p.m. 8345

IMPROVING CESTOCIDES THROUGH TARGET-BASED DESIGN

Daniel J. Sprague[1], Sang-Kyu Park[2], Jonathan S. Marchant[2]
[1]Medical University of South Carolina, Charleston, SC, United States, [2]Medical College of Wisconsin, Milwaukee, WI, United States

(ACMCIP Abstract)

6 p.m. 8346

DISCOVERY AND OPTIMIZATION OF ANTHELMINTIC CANDIDATES FOR SOIL TRANSMITTED HELMINTHS

Mostafa A. Elfawal[1], Emily Goetz[1], You-Mie Kim[1], Paulina Chen[1], Leonard Barasa[2], Sergey Savinov[3], Paul R. Thompson[2], Raffi Aroian[1]
[1]Program in Molecular Medicine, UMass Chan Medical School, Worcester, MA, United States, [2]Department of Chemical Biology, UMass Chan Medical School, Worcester, MA, United States, [3]GALY Co, Boston, MA, United States

(ACMCIP Abstract)

6:15 p.m. 8347

INVESTIGATING THE MECHANISM OF ACTION FOR THE AMOEBICIDAL AGENT NITROXOLINE AGAINST *BALAMUTHIA MANDRILLARIS*

Kaitlin Marquis[1], Natasha Spottiswoode[2], Angela Detweiler[1], Samuel Lord[2], Norma Neff[1], Dyche Mullins[2], Julia Haston[3], Heather Stone[4], Joseph DeRisi[5]
[1]Chan Zuckerberg Biohub, San Francisco, CA, United States, [2]University of California San Francisco, San Francisco, CA, United States, [3]Centers for Disease Control and Prevention, Atlanta, GA, United States, [4]US Food and Drug Administration, Silver Spring, MD, United States, [5]Chan Zuckerberg Biohub and University of California San Francisco, San Francisco, CA, United States

(ACMCIP Abstract)

6:30 p.m. 8348

GLUCOSE IN - LACTATE OUT: GLUCOSE AND LACTATE TRANSPORT IN *SCHISTOSOMA MANSONI*

David L. Williams[1], Sammy Y. Aboagye[1], Pavel A. Petukhov[2]
[1]Rush University Medical Center, Chicago, IL, United States, [2]University of Illinois, Chicago, Chicago, IL, United States

(ACMCIP Abstract)

6:45 p.m. 8349

INDIVIDUAL-LEVEL EFFICACY OF ALBENDAZOLE AND FIXED-DOSE FORMULATION OF IVERMECTIN/ALB (FDC) AGAINST *T. TRICHIURA* AND HOOKWORMS IN ETHIOPIA, KENYA AND MOZAMBIQUE. PER PROTOCOL ANALYSIS OF THE ALIVE CLINICAL TRIAL

Pedro E. Fleitas[1], Stella Kepha[2], Woyneshet Gelaye[3], Augusto Messa Jr.[4], Javier Gandasegui[1], Lisette van Lieshout[5], Jaime Algorta[6], Áuria de Jesus[4], Valdemiro Novela[4], Inácio Mandomando[4], Charles Mwandawiro[2], Wendemagegn Enbiale[3], Paula Petrone[1], Jose Muñoz[1], Alejandro J. Krolewiecki[7]
[1]Barcelona Institute for Global Health (ISGlobal), Barcelona, Spain, [2]Eastern and Southern Africa Centre of International Parasite Control, Kenya Medical Research Institute, Nairobi, Kenya, Nairobi, Kenya, [3]Bahir Dar University, College of Medicine and Health Sciences, Bahir Dar, Ethiopia, [4]Centro de Investigação em Saúde de Manhiça (CISM), Maputo, Mozambique, [5]Leiden University Center for Infectious Diseases, Leiden, Netherlands, [6]Departamento Investigación clínica, Laboratorios Liconsa (InsudPharma group), Madrid, Spain, [7]Universidad Nacional de Salta, Instituto de Investigaciones de Enfermedades Tropicales/CONICET, Oran, Argentina

(ACMCIP Abstract)

Scientific Session 155

Mosquitoes- Epidemiology and Vector Control II

Convention Center - Room 353 (3rd Floor)
Saturday, November 16, 5:15 p.m. - 7 p.m.

This session does not carry CME credit.

#FieldStudies #Prevention #Epidemiology

CHAIR

Duncan Athinya
Vestergaard Frandsen (EA) Limited, Nairobi, Kenya

Nancy Stephen Matowo
London School of Hygiene & Tropical Medicine, London, United Kingdom

5:15 p.m. 8350

A MULTI-COUNTRY COMMUNITY EVALUATION OF THE LONG-TERM PERFORMANCE OF PERMANET 3.0, A LONG-LASTING PYRETHROID-PBO NET

Duncan K. Athinya[1], Patrick K. Tungu[2], Samuel K. Dadzie[3], Raghavendra Kamaraju[4], Maurice Ombok[5], John E. Gimnig[6], Melinda Hadi[7]
[1]Vestergaard Frandsen (EA) Limited, Nairobi, Kenya, [2]Muheza College of Health and Allied Sciences, Muheza, United Republic of Tanzania, [3]Noguchi Memorial Institute for Medical Research, University of Ghana, Accra, Ghana, [4]National Institute of Malaria Research (Indian Council of Medical Research), New Delhi, India, [5]Kenya Medical Research Institute, Kisumu, Kenya, [6]Centers for Disease Control and Prevention, Division of Parasitic Diseases and Malaria, Atlanta, GA, United States, [7]Vestergaard Sàrl, Lausanne, Switzerland

5:30 p.m. 8351

RANDOM CONTROLLED TRIALS AND BEYOND - RESULTS FROM THE FIRST MULTI- COUNTRY STUDY OF THE EFFECTIVENESS OF SPATIAL REPELLENTS TO CONTROL VECTOR BORNE DISEASES AMONGST FORCED DISPLACED POPULATIONS IN CONFLICT AFFECTED AREAS OF N. SYRIA, YEMEN AND N. NIGERIA, 2019 - 2024

Richard James Allan[1], Ramona Scherrer[1], Sara Estecha Querol[1], Laura Paris[1], Olivia Wetherill[1], David Weetman[2], Sergio Lopes[1]
[1]The MENTOR Initiative, Haywards Heath, United Kingdom, [2]Liverpool School of Tropical Medicine, Liverpool, United Kingdom

5:45 p.m. 8352

HOUSE MODIFICATIONS USING INSECTICIDE TREATED SCREENING OF EAVE AND WINDOW AS VECTOR CONTROL TOOL: EVIDENCE FROM A SEMI-FIELD SYSTEM IN TANZANIA AND SIMULATED EPIDEMIOLOGICAL IMPACT

Olukayode Ganiu Odufuwa[1], Richard Sheppard[2], Safina Ngonyani[1], Ahmadi Mpelepele[1], Dickson Kobe[1], Agathus Njohole[1], Jason Moore[1], Jastin Lusoli[1], Joseph Muganga[1], Rune Bosselmann[3], Ole Skovmand[4], Zawadi Mageni Mboma[1], Emmanuel Mbuba[1], Rose Philipo[1], Jennifer Stevenson[1], Ellie Sherrard-Smith[2], John Bradley[5], Sarah Moore[1]
[1]Ifakara Health Institute, Bagamoyo, United Republic of Tanzania, [2]Imperial College, London, United Kingdom, [3]Vegro Aps, Copenhagen, Denmark, [4]MCC47, Montpellier, France, [5]London School of Hygiene & Tropical Medicine (LSHTM), London, United Kingdom

6 p.m. 8353

ENTOMOLOGICAL EFFECTS OF ATTRACTIVE TARGETED SUGAR BAIT STATION DEPLOYMENT IN WESTERN ZAMBIA: VECTOR SURVEILLANCE FINDINGS FROM A TWO-ARM CLUSTER RANDOMIZED PHASE III TRIAL

Javan Chanda[1], Joseph Wagman[2], Benjamin Chanda[3], Kochelani Saili[3], Erica Orange[4], Patricia Mambo[3], Rayford Muyabe[3], Tresford Kaniki[3], Mwansa Mwenya[3], Mirabelle Ng'andu[3], John Miller[1], Annie Arnzen[4], Kafula Silumbe[1], Gift Mwaanga[5], Limonty Simubali[5], Edgar Simulundu[5], Mulenga Mwenda[1], Busiku Hamainza[6], Ruth A. Ashton[7], Thomas P. Eisele[7], Angela Harris[8], Joshua Yukich[7], Laurence Slutsker[9], Thomas Burkot[10], Megan Littrell[2]
[1]PATH, Lusaka, Zambia, [2]PATH, Washington, DC, United States, [3]PATH, Kaoma, Zambia, [4]PATH, Seattle, WA, United States, [5]Macha Research Trust, Choma, Zambia, [6]National Malaria Elimination Centre, Lusaka, Zambia, [7]Centre for Applied Malaria Research and Evaluation, Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States, [8]Innovative Vector Control Consortium, Liverpool, United Kingdom, [9]Independent Consultant, Atlanta, GA, United States, [10]Australian Institute of Tropical Health and Medicine, Cairns, Australia

6:15 p.m. 8354

FIELD TRIAL RESULTS OF A VOLATILE PYRETHROID SPATIAL REPELLENT USING A TRANSFLUTHRIN ACTIVE INGREDIENT AS A CONTROL INTERVENTION FOR OUTDOOR-BITING *ANOPHELES* MOSQUITOES

Tim Burton[1], Limonty Simubali[2], Lewis Kabinga[2], Lepa Syahrani[3], Dendi H. Permana[3], Ismail E. Rozi[3], Jennifer Stevenson[2], Monicah Mburu[2], Edgar Simulundu[2], Puji Asih[3], Din Syafruddin[3], Neil Lobo[1]
[1]University of Notre Dame, Notre Dame, IN, United States, [2]Macha Research Trust, Macha, Zambia, [3]Eijkman Research Center for Molecular Biology, National Research and Innovation Agency (BRIN), Cibinong, Indonesia

6:30 p.m. 8355

FINAL YEAR RESULTS FROM A FOUR-ARM CLUSTER-RANDOMIZED TRIAL IN TANZANIA COMPARING THE EFFECTIVENESS OF THREE TYPES OF LONG-LASTING INSECTICIDAL NETS (LLINS) - PYRIPROXYFEN-PYRETHROID, CHLORFENAPYR-PYRETHROID, AND PIPERONYL BUTOXIDE-PYRETHROID - VERSUS A PYRETHROID-ONLY LLIN, AGAINST MALARIA

Nancy Matowo[1], Jacklin F. Mosha[2], Manisha A. Kulkarni[3], Eliud Lukole[4], Jacklin Martin[4], Alphaxard Manjurano[4], Immo Kleinschmidt[1], Naomi Serbantez[5], Mark Rowland[1], Franklin Mosha[6], Natacha Protopopoff[1]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]National Institute for Medical Research, Mwanza Medical Research Centre, Mwanza, United Republic of Tanzania, [3]School of Epidemiology and Public Health, University of Ottawa,, Canada, United Kingdom, [4]National Institute for Medical Research, Mwanza, United Republic of Tanzania, [5]PMI-USAID, Dar es Salaam, United Republic of Tanzania, [6]5. Department of Parasitology, Kilimanjaro Christian Medical University College, Moshi, United Republic of Tanzania

6:45 p.m. 8356

A CLUSTER-RANDOMIZED CONTROLLED PHASE III EVALUATION OF 3D WINDOW DOUBLE SCREEN (3D-WDS) IN REDUCING MALARIA TRANSMISSION WHEN COMBINED WITH PYRETHROID-TREATED LONG-LASTING INSECTICIDAL NETS IN NORTHEASTERN TANZANIA

Subam Kathet[1], Victor Mwingira[2], Frank S. Magogo[2], Veneranda M. Bwana[2], Hanna Granroth-Wilding[1], Patrick Tungu[2], Tomi Hakala[3], Markku Honkala[3], Mikko Aalto[4], William N. Kisinza[2], Seppo Meri[1], **Ayman Khattab**[1]
[1]University of Helsinki, Helsinki, Finland, [2]National Institute for Medical Research, Muheza, United Republic of Tanzania, [3]Tampere University of Technology, Tampere, Finland, [4]East Africa University, Bosaso, Somalia

Scientific Session 156

Clinical Tropical Medicine: Malaria and Fevers

Convention Center - Room 354/355 (3rd Floor)
Saturday, November 16, 5:15 p.m. - 7 p.m.

This session does not carry CME credit.

#InfectiousDisease #ClinicalResearch #Diagnostics #TranslationalScience

CHAIR

Johanna Daily
Albert Einstein College of Medicine, Bronx, NY, United States

Daniel Camprubí Ferrer
ISGlobal/Hospital Clínic Barcelona, Barcelona, Spain

5:15 p.m. 8357

ARTIFICIAL INTELLIGENCE LEVERAGING A VISION FOUNDATION MODEL FOR RECOGNITION OF MULTIPLE BLOOD PARASITES IN MICROSCOPY IMAGES

David Bermejo-Peláez[1], Lin Lin[2], Lucía Pastor[1], Roberto Mancebo-Martin[1], Ramon Vallés-López[1], Elena Dacal[1], Claudia Carmona[3], Victor Anton Berenguer[4], Alexandra Martín Ramírez[3], Maria Flores-Chaves[5], Ana Valeria Soriano[6], Fabiola Gonzales[6], Mary Cruz Torrico[6], Daniel Illanes[6], Jose Miguel Rubio[7], Miguel Luengo-Oroz[1]
[1]Spotlab, Madrid, Spain, [2]Spotlab & Universidad Politécnica de Madrid & CIBERBBN, Madrid, Spain, [3]National Microbiology Centre (Instituto de Salud Carlos III), Madrid, Spain, [4]Microbiology Service (Hospital Universitario Severo Ochoa) & National Microbiology Centre (Instituto de Salud Carlos III), Madrid, Spain, [5]National Microbiology Centre (Instituto de Salud Carlos III) & Fundación Mundo Sano, Madrid, Spain, [6]Universidad Mayor de San Simón, Cochabamba, Plurinational State of Bolivia, [7]National Microbiology Centre (Instituto de Salud Carlos III) & CIBERINFEC, Madrid, Spain

5:30 p.m. 8358

EVALUATING THE ACCURACY OF CLINICAL MALARIA DIAGNOSES USING TAQMAN® ARRAY CARD MOLECULAR DETECTION IN NIGERIA

Emmanuel Oga[1], Claire Quiner[1], Jean Kim[1], Cyril Erameh[2], Vivian Kwaghe[3], Philippe Chebu[4], Lauren Courtney[1], Kat Asman[1], Osas Edeawe[2], Ephraim Ogbaini[2], Nankpah Vongdip[3], Victoria Orok[3], Oladimeji Matthew[3], Onyia Ejike[3], Ikponmwosa Odia[2], Blessed Okira[3], Jacqueline Agbukor[2], Julius Imoyera[2], Adamu Ephraim[1], Jay Samuels[4]
[1]RTI International, Research Triangle Park, NC, United States, [2]Irrua Specialist Teaching Hospital, Irrua, Nigeria, [3]University of Abuja Teaching Hospital, Abuja, Nigeria, [4]APIN Public Health Initiatives, Abuja, Nigeria

5:45 p.m. 8359

SOLUBLE TRIGGERING RECEPTOR EXPRESSED ON MYELOID CELLS 1 (STREM-1) TO RISK-STRATIFY PEDIATRIC AND ADULT PATIENTS WITH FEBRILE ILLNESS IN SOUTHERN MOZAMBIQUE

Núria Balanza[1], Bàrbara Baro[1], Sara Ajanovic[1], Zumilda Boca[2], Justina Bramugy[2], Anelsio Cossa[2], Elizabeth JA Fitchett[3], Heidi Hopkins[3], David Mabey[3], Tegwen Marlais[3], Hridesh Mishra[4], Campos Mucasse[2], Marta Valente[1], Andrea M. Weckman[4], Shunmay Yeung[3], Kathleen Zhong[4], Kevin C. Kain[4], Quique Bassat[1]
[1]ISGlobal, Barcelona, Spain, [2]Centro de Investigação em Saúde de Manhiça, Maputo, Mozambique, [3]London School of Hygiene & Tropical Medicine, London, United Kingdom, [4]University Health Network, Toronto, ON, Canada

6 p.m. 8360

COULD WE USE CONVENTIONAL MALARIA RDT TO IDENTIFY SEVERE MALARIA IN TRAVELERS?

Daniel Camprubí Ferrer, Julia Pedreira, Leire Balerdi-Sarasola, Guillermo Villanueva, Qiuyue Yang, Paula Petrone, Jose Muñoz, Claudio Parolo
ISGlobal / Hospital Clínic Barcelona, Barcelona, Spain

6:15 p.m. 8361

ADMISSION POINT-OF-CARE TESTING FOR THE CLINICAL CARE OF CHILDREN WITH CEREBRAL MALARIA

Geoffrey Guenther[1], David Wichman[2], Nthambose M. Simango[3], Mengxin Yu[4], Olivia D. Findorff[5], Nathaniel O. Amoah[2], Rohini Dasan[2], Karl B. Seydel[6], Douglas G. Postels[7], Nicole F. O'Brien[8]
[1]Boston Children's Hospital, Boston, MA, United States, [2]The George Washington University School of Medicine and Health Sciences, Washington, DC, United States, [3]Kamuzu University of Health Sciences, Blantyre, Malawi, [4]The Wharton School of the University of Pennsylvania, Philadelphia, PA, United States, [5]University of Virginia College of Arts and Sciences, Charlottesville, VA, United States, [6]Michigan State University College of Osteopathic Medicine, East Lansing, MI, United States, [7]Children's National Hospital / The George Washington University School of Medicine and Health Sciences, Washington, DC, United States, [8]Nationwide Children's Hospital / The Ohio State University College of Medicine, Columbus, OH, United States

6:30 p.m. 8362

FLUID BOLUS RESUSCITATION INCREASES MORTALITY IN MALAWIAN CHILDREN WITH CEREBRAL MALARIA

Meredith G. Sherman[1], Pallavi Dwivedi[2], Ronke Olowojesiku[3], Rami Imam[4], Kennedy M. Chastang[5], Eduardo A. Trujillo Rivera[2], James E. Bost[2], Amina M. Mukadam[6], Alice Liomba[7], Karl B. Seydel[8], Douglas G. Postels[9]
[1]Global Health Initiative, Children's National Hospital, Washington, DC, United States, [2]Division of Biostatistics and Study Methodology, Children's National Hospital, Washington, DC, United States, [3]Department of General and Community Pediatrics, Children's National Hospital, Washington, DC, United States, [4]The George Washington University School of Medicine, Washington, DC, United States, [5]Howard University, Washington, DC, United States, [6]University of Washington, Seattle, WA, United States, [7]Blantyre Malaria Project, Blantyre, Malawi, [8]Department of Internal Medicine, College of Osteopathic Medicine, Michigan State University, East Lansing, MI, United States, [9]Division of Neurology, Children's National Hospital, Washington, DC, United States

6:45 p.m. 8363

DEREGULATED IL-10 EXPRESSING T CELLS IN CHILDREN WITH ACUTE *PLASMODIUM FALCIPARUM* MALARIA: IMPLICATIONS FOR ETIOLOGY OF BURKITT LYMPHOMA

Bonface Ariera[1], sidney ogolla ogolla[1], ROSEMARY RORCHFORD[2]
[1]Kenya Medical Research Institute-Kenya, Kisumu, Kenya, [2]University of Colorado, Anschutz medical campus, DENVER, CO, United States

Scientific Session 157

Viruses - Transmission Biology, Pathogenesis and Animal Models

Convention Center - Room 356 (3rd Floor)
Saturday, November 16, 5:15 p.m. - 7 p.m.

#Pathogenesis #InfectiousDisease

CHAIR

Katie Anders
World Mosquito Program, Monash University, Melbourne - Clayton, Australia

Declan Pigeaud
Pathology, University of Texas Medical Branch, Galveston, TX, United States

5:15 p.m. 8364

LONG-TERM DURABILITY AND PUBLIC HEALTH IMPACT OF WMEL *WOLBACHIA* DEPLOYMENTS FOR *AEDES*-BORNE DISEASE CONTROL IN NITERÓI, BRAZIL

Katie Anders[1], Luciano Moreira[2], Gabriel Sylvestre Ribeiro[2], Thais Riback[2], Diogo Chalegre[2], Cameron P. Simmons[1], Peter A. Ryan[1], Scott L. O'Neill[1]
[1]World Mosquito Program, Monash University, Melbourne - Clayton, Australia, [2]World Mosquito Program, Fiocruz, Rio de Janeiro, Brazil

5:30 p.m. 8365

INTERACTIONS BETWEEN TEMPERATURE, VIRUS STRAIN, AND DOSE INFLUENCE EXTRINSIC INCUBATION PERIOD AND COMPETENCE OF CULEX PIPIENS FOR WEST NILE VIRUS

Elyse M. Banker, Rachel L. Fay, Laura Munn, Anne F. Payne, Alexander T. Ciota
New York State, Wadsworth Center, Slingerlands, NY, United States

5:45 p.m. 8366

PATHOGENESIS AND TRANSMISSION OF SEVERE FEVER WITH THROMBOCYTOPENIA SYNDROME VIRUS IN EXPERIMENTALLY INFECTED ANIMALS

Jeffrey M. Marano[1], Angela Bosco-Lauth[1], Airn E. Hartwig[1], Stephanie M. Porter[2], Nicole M. Nemeth[3], Marissa Quilici[1]
[1]Colorado State, Fort Collins, CO, United States, [2]United Stated Department of Agriculture - Animal & Plant Health Inspection Service, Fort Collins, CO, United States, [3]University of Georgia, Athens, GA, United States

6 p.m. 8367

HIGH MOUSE PATHOGENESIS ASSOCIATED WITH A NEW YORK POWASSAN VIRUS LINEAGE II ISOLATE

Samantha J. Courtney[1], Rebekah J. McMinn[1], Chasity E. Trammell[1], Anna C. Fagre[1], Allison C. Vilander[1], Sam R. Telford[2], Gregory D. Ebel[1]
[1]Colorado State University, Fort Collins, CO, United States, [2]Tufts University, North Grafton, MA, United States

6:15 p.m. 8368

COLLABORATIVE CROSS MICE AS A NEW MODEL FOR IDENTIFYING IMMUNE CORRELATES OF PROTECTION FROM NEUROINVASIVE ST. LOUIS ENCEPHALITIS VIRUS DISEASE

Manuel Arturo Flores Rodriguez, Lark L. Coffey
University of California, Davis, Davis, CA, United States

6:30 p.m. 8369

FEASIBILITY OF TRACKING NIPAH VIRUS-INDUCED BRAIN CHANGES AND LESION DETECTION USING 0.05T MRI AND RADIOMICS

Sairam Geethanath[1], Kunal Aggarwal[2], Ivan E. Oiye[1], Yu Cong[3], Naveen Anaswara[4], Emily S. Gurley[4], Venkatesh Mani[3], Claudia Calcagno[3], Michael R. Holbrook[3]
[1]Johns Hopkins University School of Medicine, Baltimore, MD, United States, [2]Technical University Munich, Munich, Germany, [3]National Institute of Allergy and Infectious Diseases, Ft. Detrick, MD, United States, [4]Johns Hopkins University School of Public Health, Baltimore, MD, United States

6:45 p.m. 8370

HENDRA VIRUS GENOTYPE 2 LACKS SEVERE PATHOGENIC HALLMARKS OF PROTOTYPE HENDRA VIRUS INFECTION IN AFRICAN GREEN MONKEYS

Declan Pigeaud[1], Karla Fenton[1], Courtney Woolsey[1], Robert Cross[1], Christopher Broder[2], Thomas Geisbert[1]
[1]University of Texas Medical Branch, Galveston, TX, United States, [2]Uniformed Services University of the Health Sciences, Bethesda, MD, United States

Symposium 158

The Devil is in the Details: Strategies for the Integrated Delivery of Neglected Tropical Disease Services within Primary Health Care and National Systems

Convention Center - Room 357 (3rd Floor)
Saturday, November 16, 5:15 p.m. - 7 p.m.

The first WHO Roadmap on Neglected Tropical Diseases (NTDs) published in 2012, reflected the new approach at that time of coordinating programmatic efforts to control or eliminate ancient diseases, impacting the most marginalized of people. This drove the rapid scale up of mass drug administrations (MDA), reaching over a billion people a year by the year 2020, with disease elimination now validated in 19 countries for lymphatic filariasis and 15 for trachoma. As a result, many new cases of blindness, disability, and severe disfigurement, that have hampered growth and development in resource limited settings for centuries, have been prevented. But gaps remain: many NTDs cannot be targeted with limited rounds of MDA and new diagnostics and surveillance methods are required to strengthen elimination. The most recent WHO roadmap, endorsed by member states in 2020, has responded to this by promoting a fundamental shift in strategy - away from vertical programming and towards NTD services that are integrated into health systems, including primary and tertiary care, preventative services, and beyond the health sector. This has created momentum and is offering an opportunity for experimentation. Research is needed to improve our understanding of the biology, epidemiology and pathology of some of these long ignored diseases and to drive innovation in diagnostics and treatment. Ultimate success also hinges on context specific technical decisions on what to integrate where, when, and how, with due attention to the political process. Implementation science research is therefore also needed to test integration interventions, measure outcomes, and carefully document the context, barriers

and enablers. This symposium provides examples, from across four world regions, of early adopters. All talks analyze the shift from disease focused programming towards more comprehensive integrated service delivery. They present outcomes to date and highlight gaps in current scientific knowledge. The first two talks present on lessons learned from the integration of skin NTDs in Vanuatu and of NTDs targeted by preventive chemotherapy in Uganda and Tanzania. They will speak of strengthening the capacity of health workers, integrating into supply chains and information systems, and working at the finance and policy level. The third talk explores a new policy being implemented in the Philippines to manage several NTDs through a comprehensive primary health care package that includes the elimination of 13 diseases, including NTDs, malaria, and several vaccine preventable diseases. The final talk presents PAHO's initiative to eliminate 30+ communicable diseases and related conditions by 2030, including and going beyond NTDs. #Elimination #InfectiousDisease #SocialScience #TranslationalScience

CHAIR

Margaret Baker
Georgetown University, Washington, DC, United States

Emily Wainwright
U.S. Agency for International Development Bureau for Global Health/Office of Infectious Diseases, Washington, DC, United States

5:15 p.m.
INTRODUCTION

5:35 p.m.
MOVING TOWARDS INTEGRATED DELIVERY OF SERVICES TO ADDRESS SKIN DISEASES IN THE REPUBLIC OF VANUATU

Fasihah Taleo
World Health Organization, Port Vila, Vanuatu

5:55 p.m.
INTEGRATING PREVENTATIVE CHEMOTHERAPY NTDS INTO NATIONAL HEALTH SYSTEMS: EXPERIENCES FROM UGANDA AND TANZANIA

Andrew P. Kyambadde
RTI International, Washington, United States

6:15 p.m.
INTEGRATING NTDS, MALARIA, AND OTHER DISEASES THROUGH A COMPREHENSIVE PRIMARY HEALTH CARE APPROACH IN THE PHILIPPINES

Raffy A. Deray
Department of Health, Manila, Philippines

6:35 p.m.
ELIMINATION OF 30+ COMMUNICABLE DISEASES AND RELATED CONDITIONS BY 2030 - A MULTI-COUNTRY AND MULTI-DISEASE PERSPECTIVE FROM THE AMERICAS REGION

Martha I. Saboyá
Pan American Health Organization, Washington, DC, United States

Symposium 159

Revolutionizing Healthcare: The Impact of Artificial Intelligence on Neglected Tropical Diseases

Convention Center - Room 383/384/385 (3rd Floor)
Saturday, November 16, 5:15 p.m. - 7 p.m.

Although artificial intelligence (AI) has been available for some time, it has garnered significant interest recently for improving accuracy and effective management of neglected tropical diseases (NTDs). Increasingly AI is being recognized for its potential to optimize NTD diagnostic sensitivity, which is particularly pertinent in the context of declaring elimination. This session aims to present an overview of the current research into AI studies that have been conducted for NTD diagnostics, which are vulnerable to human error resulting in poor sensitivity and reproducibility. AI, or use support of AI, can address some shortcomings in diagnostic accuracy. There are limitations to AI, however, including affordability, large datasets needed to optimize techniques, and scalability. In this symposium, we present proof-of-concept for AI in NTDs, including trachoma, soil-transmitted helminths (STH) and schistosomiasis, onchocerciasis, skin NTDs, and dengue. As trachoma prevalence significantly decreases, it has become difficult to train health workers to detect cases due to their rarity. To address this, a novel image-recognition based smartphone app has been developed to improve trachoma (TT) screening by taking an image of an individual's eyelid and the app indicates whether the individual may have TT. The app has been tested in three countries, with an accuracy of over 95%. Similarly, photographic imaging has been used for the detection of STH and intestinal schistosomiasis eggs in Kato-Katz using an AI-based digital pathology scanner. Like trachoma, years of mass drug administration has resulted in a significant reduction in STH and intestinal schistosomiasis, as a result Kato Katz has poor sensitivity in low-intensity settings. The AI Kato Katz scanner has been tested in four countries, with an average precision of 96.1%. To evaluate the success of novel drugs or regimens against onchocerciasis, worm nodules must be removed from patients and analysed. Like Kato Katz, this process is time-consuming and depends on the experience of the laboratory technician. The University Hospital Bonn has developed an AI system that automatically evaluates Onchocerca volvulus worm nodule samples that could overcome limitations with human graders. Skin NTDs are a group of diseases that manifest symptoms on the skin, including leprosy, Buruli ulcer, mycetoma, and scabies. The diagnosis of skin diseases depends in large, though not exclusively, on visual inspection. The diagnosis of these diseases is amendable to AI approaches whereby machine learning is trained using skin images through the eSkinHealth app. Finally, statistical and machine learning approaches were explored simultaneously for differentiating tropical infections including Dengue and Malaria.

CHAIR

Anna E. Phillips
FHI360, Washington, DC, United States

Rie Roselyne Yotsu
Nagasaki University, Nagasaki-shi, Japan

5:15 p.m.
INTRODUCTION

5:25 p.m.
USING ARTIFICIAL INTELLIGENCE-BASED DIGITAL PATHOLOGY FOR THE DETECTION OF SOIL-TRANSMITTED HELMINTHS AND INTESTINAL SCHISTOSOMIASIS
Peter Kenneth Ward
University of Technology Sydney, Uppsala, Sweden

5:45 p.m.
ARTIFICIAL INTELLIGENCE IN THE EVALUATION OF ONCHOCERCA VOLVULUS WORM NODULES
Professor Achim Hoerauf
Bonn University Medical Center, Bonn, Germany

6:05 p.m.
ARTIFICIAL INTELLIGENCE FOR SKIN NEGLECTED TROPICAL DISEASES (SKIN NTDS) – THE CURRENT STATE OF THE ART AND THE CHALLENGES
Rie Roselyne Yotsu
Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States

6:25 p.m.
A NOVEL IMAGE-RECOGNITION BASED SMARTPHONE APPLICATION TO IMPROVE TRACHOMA SCREENING
Emily Gower
University of North Carolina, Chapel Hill, NC, United States

6:45 p.m.
USING BIOMETRIC FINGERPRINTING TO TRACK COMPLIANCE TO TREATMENT
Ewnetu F. Liyew
Ethiopian Public Health Institute, Addis Ababa, Ethiopia

EDU-CATION CONTENT

Symposium 160

The Economics of Global Health R&D: Can We Find a Balance Between Financial Sustainability and Equitable Access?

Convention Center - Room 388/389 (3rd Floor)
Saturday, November 16, 5:15 p.m. - 7 p.m.

From novel vaccine platforms to full genome sequencing and gene therapies, recent decades have seen stunning technical advances in the health sciences. However, deep divides persist with regards to access to the fruits of these amazing advances, both across countries and regions and often even between demographic groups in the same country or city. Many if not all pharmaceutical products have been partially supported, at some stage, by governments or other public resources, typically through competitive grants and contracts. In most cases the final pharmaceutical is then produced and distributed primarily by private sector partners, at prices generally set by them, often protected for a time by intellectual property law. However, access to the final products is often not equitably distributed, prompting increasing criticism of this process, and calls to revisit private sector products and the profits fueled in part by public funds. On the other hand, defenders of this process point to the scientific innovation that public funding and its economic incentives bring. In this symposium, a panel of experts will discuss the economics of research and the complex financial gauntlet that must be traversed to bring technological advances to the forefront and make them equitably available. #ClinicalResearch #InfectiousDisease #Diagnostics #Therapeutics #Vaccinology

CHAIR
Daniel Bausch
London School of Hygiene & Tropical Medicine, London, United Kingdom

Cristina Cassetti
NIH/NIAID, Rockville, MD, United States

5:15 p.m.
INTRODUCTION

5:25 p.m.
CAN GLOBAL VACCINE EQUITY BE BALANCED WITH THE NEEDS FOR INCENTIVES FOR VACCINE DEVELOPMENT?
Mark Jit
New York University School of Global Public Health, New York, NY, United States

5:50 p.m.
LICENSING TECHNOLOGIES FOR PUBLIC HEALTH – THE NIH EXPERIENCE
Tara Kirby
National Institutes of Health, Bethesda, MD, United States

6:10 p.m.
AN INDUSTRY PERSPECTIVE
Kent Kester
Coalition for Epidemic Preparedness Innovations, Washington, DC, United States

6:30 p.m.
ENSURING EQUITABLE ACCESS – REFLECTIONS FROM MSF'S 25 YEARS ON THE FRONT LINES
Mihir Mankad
MSF-USA, New York, NY, United States

Symposium 161

Generating Durable Protective Immunity with Malaria Vaccines

Convention Center - Room 391/392 (3rd Floor)
Saturday, November 16, 5:15 p.m. - 7 p.m.

A major impediment to malaria elimination remains relatively low vaccine efficacy and duration of protection for both RTS,S and R21 vaccines. Although the hypothesis that prior malaria exposure contributes to poor vaccine immunogenicity is supported by multiple studies, direct evidence of the causal mechanisms remains elusive. While vaccine mediated protection can be improved by combining vaccination with other control measures such as seasonal malaria chemoprevention, limited durability of protection remains a major risk for a post-intervention "rebound" in symptomatic or severe disease, or a resurgence of malaria if there is a breakdown or disruption in vaccination programs or other control measures. Therefore, it is important that we establish the extent to which immune regulatory networks that protect against

disease are maintained within the immune cells of people living in malaria endemic areas, and whether these functional patterns can be modified to improve anti-parasitic immune responses without increasing the risk of developing severe disease. Recent advances in our understanding of dynamics of T cell subset population structures, such as the relationships between memory T cells with stem cell-like properties, and those with various effector functions, will be key to making these advances. Analysis of samples from well-defined longitudinal studies conducted in malaria endemic areas, placebo-controlled clinical trials assessing the impact of seasonal or perennial malarial chemoprevention on immune regulatory or vaccine-induced responses, and CHMI studies in malaria naïve and exposed individuals, provide new opportunities. Multimodal analysis of these samples using single cell RNA sequencing and single cell assay for transposase-accessible chromatin with sequencing is allowing evaluation of immune cell responses at high resolution ex vivo and identify inflammatory and regulatory genes. Such approaches can also identify molecular targets for host-directed strategies aimed at improving both the efficacy and duration of immune responses. In depth immunological analysis from vaccination trials will also lead to new strategies to increase efficacy and longevity. For example, in some studies delayed fractional dosing has higher efficacy than monthly vaccination. The continued application of emerging technologies to human malaria research provides opportunities for the discovery of new strategies to target and overcome malaria driven immunoregulatory networks that prevent development of durable protection from malaria vaccination. These opportunities will be discussed in the proposed symposium. #Immunology, #InfectiousDisease, #HostResponse, #Vaccinology, #ClinicalResearch

CHAIR

Christian Engwerda
QIMR Berghofer, Brisbane, Australia

Michelle Boyle
Burnet Institute, Melbourne, Australia

5:15 p.m.
INTRODUCTION

5:25 p.m.
LONGEVITY OF RTS,S IMMUNE RESPONSES IN AFRICAN CHILDREN AND DETERMINANTS OF DURABILITY

Gemma Moncunill
ISGlobal Barcelona Institute for Global Health Hospital Clínic - Universitat de Barcelona, Barcelona, Spain

5:40 p.m.
UNDERSTANDING HOW HOW SEMI-IMMUNE INDIVIDUALS CONTROL MALARIA PARASITE GROWTH AND THE ASSOCIATED INFLAMMATION.

Francis Ndungu
KEMRI Wellcome Trust Research Program, Kilifi, Kenya

5:55 p.m.
HOST-DIRECTED TREATMENTS TO IMPROVE ANTI-PARASITIC IMMUNE RESPONSES

Michelle Boyle
Burnet Institute, Melbourne, Australia

6:10 p.m.
NEW INSIGHTS INTO REGULATORY RESPONSES INDUCED BY REPEATED *PLASMODIUM* INFECTIONS IN CHILDREN

Prasanna Jagannathan
Standford University, Palo Alto, CA, United States

6:25 p.m.
THE HUMAN ADAPTIVE IMMUNE RESPONSE TO *PLASMODIUM FALCIPARUM* CIRCUMSPOROZOITE PROTEIN

Hedda Wardermann
Division of B Cell Immunology at the German Cancer Research Center & Bill & Melinda Gates Foundation, Heidelberg, Germany

Symposium 162

Artemisinin Resistance Response in Africa: Integrating Molecular Surveillance and Mathematical Modeling to Mitigate Emerging Risk and Impact on Malaria Burden Reduction

Convention Center - Room 393/394 (3rd Floor)
Saturday, November 16, 5:15 p.m. - 7 p.m.

The evolution of artemisinin resistance (ART-R) in Africa threatens to reverse the gains in malaria control made in the last 25 years. Artemisinin resistance has now emerged independently in multiple countries in eastern Africa. De novo emergence of WHO validated markers of ART-R were first identified in Rwanda in 2014. Since 2014, artemisinin resistance has been observed in 6 countries in Africa and, more concerningly, the evidence from longitudinal molecular surveys in these countries suggests that it is rapidly spreading. While phenotypic evidence of treatment failure is still limited, the increasing reports of validated ART-R mutations are alarming. Unlike the emergence of artemisinin resistance in South-East Asia, our understanding of the genetic determinants of artemisinin resistance and our ability to sequence and map the spread of resistance are significantly greater. With this greater insight comes the ability to map both the emergence and spread of ART-R in Africa, but equally importantly the ability to design interventions and leverage innovative tools to slow the spread of resistance. This symposium will explore the current state of ART-R in Africa, the specific challenges faced by hotspot countries, the use of mathematical modelling and the broader implications for malaria control efforts. The session will begin with an overview of the current distribution of ART-R in Africa, highlighting the regions most affected and the molecular markers that signal the presence of resistance. Country-specific insights will shed light on the unique challenges and developments in Ethiopia, Uganda, and other regions, offering a comprehensive picture of the resistance landscape. In addition to surveillance, the symposium will focus on the role of mathematical modelling in guiding response strategies. By combining genomic data with control program expertise, the

modelling efforts aim to identify effective drug strategies and policies to slow the spread of resistance. Innovative tools, such as novel point-of-care diagnostics, will be discussed for their potential to extend the useful lifespan of antimalarial drugs. The symposium will conclude with a dynamic panel discussion and a closing call to action, where experts will discuss the emerging risks, impacts, and mitigation strategies for ART-R in Africa. The panel will also explore how genomic surveillance data can be used by National Malaria Control Programs (NMCPs) and other governmental organizations to inform decision-making and policy implementation. #Genomics #Modeling #PopulationSurveillance #Resistance #Evolution

CHAIR

Issiaka Soulama
Institut de Recherche en Sciences de la Sante, Ouagadougou, Burkina Faso

Oliver J. Watson
Department of Infectious Disease Epidemiology, Imperial College London, London, United Kingdom

5:15 p.m.
INTRODUCTION

5:25 p.m.
CURRENT UNDERSTANDING OF ARTEMISININ RESISTANCE (ART-R) IN AFRICA

Jeff Bailey
Brown University, Providence, RI, United States

5:30 p.m.
IMPACT OF HRP2/3 DELETION AND *ANOPHELES* STEPHENSI ON ART-R IN ETHIOPIA

Bokretsion Gidey
Ethiopian Public Health Institute, Addis Ababa, Ethiopia

5:35 p.m.
EXPLORING PARTNER DRUG RESISTANCE WITH EX VIVO AND IN VITRO STUDIES IN UGANDA

Melissa Conrad
University of California, San Francisco, San Francisco, CA, United States

5:45 p.m.
PMI COUNTRY STRATEGIES OF SURVEILLANCE AND TES UNDER PARMA

Awa Deme
PARMA, CIGASS, UCAD, Dakar, Senegal

5:55 p.m.
GENOMIC SURVEILLANCE AND EVOLUTION OF ARTEMISININ DRUG RESISTANCE IN WEST AFRICA

Alfred Amambua-Ngwa
Medical Research Council Unit The Gambia, Banjul, Gambia

6 p.m.
CONTEXTUALIZING HOW MATHEMATICAL MODELLING CAN GUIDE THE RESPONSE TO RESISTANCE BUT INTEGRATING THE OUTPUTS OF MOLECULAR SURVEILLANCE EFFORTS

Maciej F. Boni
Temple University, Philadelphia, PA, United States

6:05 p.m.
MODELLING THE IMPACT OF NOVEL POINT-OF-CARE RESISTANCE DIAGNOSTICS ON THE SPREAD OF ANTIMALARIAL RESISTANCE

Lucy Okell
Imperial College London, London, United Kingdom

6:15 p.m.
MAPPING THE RISK AND SPREAD OF ANTIMALARIAL RESISTANCE IN AFRICA

Oliver J. Watson
Department of Infectious Disease Epidemiology, Imperial College London, London, United Kingdom

6:25 p.m.
PANEL: CONTROL PROGRAM STRATEGIES FOR OVERCOMING ANTIMALARIAL DRUG RESISTANCE

Corine K. Karema
Infectious Diseases Prevention and Control, University of Global Health Equity, Kigali, Rwanda

6:35 p.m.
PANEL: CONTROL PROGRAM STRATEGIES FOR OVERCOMING ANTIMALARIAL DRUG RESISTANCE

Dyann Wirth
Harvard T.H. Chan School of Public Health, Boston, MA, United States

6:45 p.m.
PANEL: CONTROL PROGRAM STRATEGIES FOR OVERCOMING ANTIMALARIAL DRUG RESISTANCE

Didier Menard
Institut Pasteur, Paris, France

6:55 p.m.
OPTIMIZING STRATEGIES TO LIMIT OR PREVENT ART-R EMERGENCE AND SPREAD IN AFRICA

Deus Ishengoma
National Institute of Medical Research, Dar es Salaam, United Republic of Tanzania

Symposium 163

Outlook for Vaccination and Global Elimination of Leishmaniasis

Convention Center - Room 395/396 (3rd Floor)
Saturday, November 16, 5:15 p.m. - 7 p.m.

This session does not carry CME credit.

Leishmaniasis is a neglected tropical disease caused by infection with *Leishmania* parasites transmitted via the bite of an infected sand fly. The different clinical presentations of leishmaniasis range from cutaneous leishmaniasis (CL), leading to skin ulceration and physical disfigurement, to visceral leishmaniasis (VL), resulting in fatal systemic infection if not treated. Over a billion people worldwide live in areas endemic for leishmaniasis, with over 600,000 cases of CL and 50,000 cases of VL each year. Although progress has been made in reducing VL in South Asia through the VL elimination program, there are numerous new outbreaks worldwide, including Chad, Senegal, Tanzania, Ethiopia, Brazil, Nepal, Somalia, and Sudan. To make progress towards the global

elimination of leishmaniasis, new tools are required, including a safe and effective vaccine and better surveillance. The majority of patients with leishmaniasis develop long-term protective immunity after cure, indicating that development of an effective human vaccine against leishmaniasis is achievable, particularly using a live attenuated vaccine strategy. Because of the sporadic nature of VL outbreaks, we propose that vaccine efficacy studies can be performed using a Controlled Human Infection Model (CHIM) and in field studies using the leishmanin skin test (LST) as a biomarker of protective cellular immunity. Moreover, the LST is needed to enhance surveillance that will better define the epidemiology of VL in countries with ongoing and new outbreaks. This symposium will present the current challenges to VL elimination, the advancement of the LmCen-/- live attenuated vaccine toward human trials, the reintroduction of the LST into the field, and the planned integration of these efforts in the near future to support the elimination of visceral leishmaniasis as a major global public health problem. #EmergingDiseaseThreats #Elimination #InfectiousDisease #Vaccinology #TranslationalScience

CHAIR

Shinjiro Hamano
Department of Parasitology, Institute of Tropical Medicine (NEKKEN), Nagasaki University, Nagasaki, Japan

Kawsar Talaat
John Hopkins University, School of Public Health, Baltimore, MD, United States

5:15 p.m.
INTRODUCTION

5:25 p.m.
VL ELIMINATION AND THE NEED FOR VACCINES AND BETTER SURVEILLANCE

Greg Matlashewski
McGill University, Montreal, QC, Canada

5:45 p.m.
FIELD STUDIES OF LST FOR ***LEISHMANIA*** **SURVEILLANCE AND VACCINE TRIALS**

Ahmed Musa
Institute of Endemic Diseases, University of Khartoum, Khartoum, Sudan

6:05 p.m.
GMP PRODUCTION OF THE LMCEN-/- LIVE ATTENUATED VACCINE AND THE LEISHMANIN ANTIGEN

Sanjay Singh
Gennova Biopharmaceutical Ltd., Hinjawadi, Pune, India

6:25 p.m.
CONTROLLED HUMAN INFECTION MODELS FOR LEISHMANIASIS

Shaden Kamhawi
National Institutes of Health, National Institute of Allergy and Infectious Diseases, Rockville, MD, United States

6:45 p.m.
THE REGULATORY PATHWAY FOR PARASITIC VACCINES

Peter Weina
OVRR, CBER, FDA, Silver Spring, MD, United States

Special Session 164

ASTMH Committee on Global Health (ACGH) Networking and Lightning Presentations

Convention Center - Room 398 (3rd Floor)
Saturday, November 16, 5 p.m. - 6:30 p.m.

Please join ACGH members for an early-evening social that brings together members of the subgroup, stimulates opportunities for networking, and gives trainees an opportunity to present their research in 3-minute presentations. Light snacks provided with one free drink for the first 50 ACGH members to arrive. Light snacks provided with one free drink for the first 50 ACGH members to arrive.

CHAIR

Jennifer A. Downs
Weill-Cornell Medical College, New York, NY, United States

Ben Kean Fellowship Reception - By Invitation Only

Hilton - Fulton (3rd Floor)
Saturday, November 16, 6 p.m. - 7 p.m.