Wednesday, October 18

**Registration**
Grand Ballroom Foyer - Ballroom Level (East Tower)
Wednesday, October 18, 9 a.m. - 7:30 p.m. U.S. Central Time Zone

**Prayer Room**
Hong Kong - Ballroom Level (West Tower) and Field - Third Floor (West Tower)
Wednesday, October 18, 7 a.m. - 7 p.m. U.S. Central Time Zone

**Nursing Mothers Room**
Grand Suite 1 and Grand Suite 4 - Ballroom Level (East Tower)
Wednesday, October 18, 7 a.m. - 7 p.m. U.S. Central Time Zone

**Global Health (ACGH) Pre-Meeting Course:**
Effectively Communicating in Global Health: The Science of Public Engagement and Lessons from the Field

*Michigan 3 - Concourse Level (East Tower)*
Wednesday, October 18, 9 a.m. - 3:30 p.m. U.S. Central Time Zone

The purpose of this course is to provide global health professionals with the tools they need to improve their engagement with community partners and their communication with media, governments, healthcare professionals and the general public. In this course, participants will first learn methodologies of developing successful public engagement activities and initiatives and will hear from experts in the field of community and public engagement. They will then learn didactic and pragmatic tools for communicating in science and the science behind these tools and gain more specific tools tailored to global health work from professionals working in public health. By the end of the course, participants will have learned the skills needed to more effectively communicate their work to various different audiences.

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

- Understand the basic principles of public engagement, science communication and community outreach;
- Consider the different audiences in global health communication and tools for reaching them;
- Describe the best approaches for community outreach;
- Compare/contrast the differences between community outreach and communicating scientific content; and
- Develop a toolkit that can be used for communicating their work in the future.

**COURSE CO-CHAIRS**
James Colborn  
Clinton Health Access Initiative, Inc., Evergreen, CO, United States
Hannah Bialic  
Wellcome Centre for Integrative Parasitology, University of Glasgow, Glasgow, United Kingdom

9 a.m.
**WELCOME, INTRODUCTION OF TOPICS AND LOGISTICS**
James Colborn  
Clinton Health Access Initiative, Inc., Evergreen, CO, United States
Hannah Bialic  
Wellcome Centre for Integrative Parasitology, University of Glasgow, Glasgow, United Kingdom

9:15 a.m.
**COMMUNITY ENGAGEMENT IN NORTHEAST THAILAND**
Tom Crellen  
University of Glasgow, Glasgow, United Kingdom
Arporn Wangwiwatsin  
Khon Kaen University, Khon Kaen, Thailand

9:45 a.m.
**COMMUNITY ENGAGEMENT AND HEALTH MESSAGING IN MALAWI**
Janelisa Musaya  
Kamuzu University of Health Sciences, Blantyre, Malawi

10:15 a.m.
**PUBLIC ENGAGEMENT IN GLOBAL HEALTH: HOW, WHERE AND WHY (WORKSHOP)**
Hannah Bialic  
Wellcome Centre for Integrative Parasitology, University of Glasgow, Glasgow, United Kingdom
Julian C. Rayner  
Cambridge Institute for Medical Research, University of Cambridge, Cambridge, United Kingdom

11:30 a.m.
**BREAK**

11:45 a.m.
**PANEL DISCUSSION - COMMUNITY OUTREACH AND PUBLIC ENGAGEMENT**
Tom Crellen  
University of Glasgow, Glasgow, United Kingdom
Arporn Wangwiwatsin  
Khon Kaen University, Khon Kaen, Thailand
Janelisa Musaya  
Blantyre, Malawi

12:15 p.m.
**LUNCH BREAK**

1 p.m.
**INTRODUCTION OF AFTERNOON SESSION**
James Colborn  
Clinton Health Access Initiative, Inc., Evergreen, CO, United States
Hannah Bialic  
Wellcome Centre for Integrative Parasitology, University of Glasgow, Glasgow, United Kingdom
1:15 p.m.
COMMUNICATING SCIENCE TO THE MEDIA
Jennie Bragg
Malaria No More, Washington, DC, United States

2 p.m.
RISK COMMUNICATIONS – STRATEGIES TO COMMUNICATE PUBLIC HEALTH INFORMATION DURING OUTBREAKS
Jessica Anderson
U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States

2:30 p.m.
RESEARCH ELEVATOR PITCH INTERACTIVE SESSION
Hannah Bialic
Wellcome Centre for Integrative Parasitology, University of Glasgow, Glasgow, United Kingdom

2:30 p.m.
RESEARCH ELEVATOR PITCH INTERACTIVE SESSION
Julian C. Rayner
Cambridge Institute for Medical Research, University of Cambridge, Cambridge, United Kingdom

Clinical Pre-Meeting Course (ACCTMTH): Fever in the Tropics

Plaza Ball Room- Lobby Level (East Tower)
Wednesday, October 18, 9 a.m. - 5 p.m. U.S. Central Time Zone

The purpose of this course is to educate healthcare professionals about the clinical aspects of fever in the tropics and the etiologies prevalent in Central and Southeast Asia, Sub-Saharan Africa and Central and South America. Participants will learn about the epidemiology of fevers in tropical areas, their diagnosis, management, prevention and control, as well as the public health impact and the measures taken by public health authorities to prevent and control these diseases and their transmission.

COURSE CO-CHAIRS
Sapha Barkati
J.0. MacLean Centre for Tropical Diseases, McGill University, Montreal, QC, Canada
Miguel Cabada
University of Texas Medical Branch and UPCI and UTMB Collaborative Research Center – Cusco Universidad Peruana Cayetano Heredia, Galveston, TX, United States

9 a.m.
INTRODUCTION
Sapha Barkati
J.0. MacLean Centre for Tropical Diseases, McGill University, Montreal, QC, Canada
Miguel Cabada
University of Texas Medical Branch and UPCI and UTMB Collaborative Research Center – Cusco Universidad Peruana Cayetano Heredia, Galveston, TX, United States

9:15 a.m.
EMERGENT CAUSES OF FEVER OUTSIDE THE TROPICS
Francesca Norman
Hospital Ramón Y Cajal, Madrid, Spain

10 a.m.
FEVER IN CENTRAL AND SOUTH AMERICA
Carlos Seas
Universidad Peruana Cayetano Heredia, Instituto de Medicina Tropical Alexander von Humboldt, Lima, Peru

10:45 a.m.
BREAK

11 a.m.
FEVER IN SUB-SAHARAN AFRICA
Emmanuel Bottieau
Institute of Tropical Medicine, Antwerp, Belgium

11:45 a.m.
INTERACTIVE CASE PRESENTATION
Carlos Seas
Universidad Peruana Cayetano Heredia, Lima, Peru

11:45 a.m.
INTERACTIVE CASE PRESENTATION
Emmanuel Bottieau
Institute of Tropical Medicine, Antwerp, Belgium

12:30 p.m.
LUNCH

1:30 p.m.
FEVER FROM SOUTH CENTRAL ASIA
Priscilla Rupali
Christian Medical College (CMC), Vellore, India

2:15 p.m.
EPIDEMIOLOGY OF FEVER IN THE TROPICS
Michael Libman
McGill University, Montréal, QC, Canada

3 p.m.
BREAK

3:15 p.m.
FEVER IN SOUTHEAST ASIA
Wasin Matsee
Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand

4 p.m.
INTERACTIVE CASE PRESENTATIONS
Wasin Matsee
Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand

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

ASTMH thanks Pfizer for support of the Young Investigators.

ASTMH thanks the following Friends of the Young Investigators
Anonymous
William A. Petri, Jr. in memory of William A. Petri, Sr.
All individuals who made a donation during registration and throughout the year.

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Young Investigator Award Session A

**Grand Hall J - Ballroom Level (East Tower)**

**Wednesday, October 18, 9 a.m. – 2 p.m. U.S. Central Time Zone**

**JUDGE**

Sasisekhar Benrunu  
National Institutes of Health, Bethesda, MD, United States

Katia Bruxvoort  
University of Alabama at Birmingham, Birmingham, AL, United States

Juliana Otieno  
Uzima University, Kisumu, Kenya

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**5029**

**TEMPORAL TRENDS OF BLOOD GLUCOSE IN CHILDREN WITH CEREBRAL MALARIA**

Kennedy M. Chastang1, Rami Imam2, Meredith G. Sherman2, Ronke Olowojesiku3, Amina M. Mukadam4, Kari B. Seydel5, Alice M. Liomba6, John R. Barber6, Douglas G. Postels8  
1Howard University, Washington, DC, United States  
2The George Washington University School of Medicine, Washington, DC, United States  
3Global Health Initiative, Children’s National Medical Center, Washington, DC, United States  
4Department of Pediatrics, Children's National Medical Center, Washington, DC, United States  
5University of Washington, Seattle, WA, United States  
6Michigan State University, East Lansing, MI, United States  
7Blantyre Malaria Project, Blantyre, Malawi  
8Division of Biostatistics and Study Methodology, Children’s National Research Institute, Washington, DC, United States

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**5537**

**FECAL PH AS A MARKER OF CHRONIC MALNUTRITION OR STUNTING AMONG CHILDREN HOSPITALIZED FOR DIARRHEA AND OTHER NON-DIARRHEAL PATHOLOGIES**

Md. Shabab Hossain  
International Centre for Diarrhoeal Disease Research, Bangladesh (icdd,b), Dhaka, Bangladesh

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**5706**

**EFFECTIVENESS OF THE EUVICHOL® ORAL CHOLERA VACCINE AT 2 YEARS: A CASE-CONTROL AND BIAS-INDICATOR STUDY IN HAITI**

Wilfredo R. Matias1, Yodeline Guillaume1, Gertrude Cene Augustin2, Kenia Vissieres3, Ralph Terriner4, Damien M. Slater5, Jason B. Harris6, Molly F. Franke7, Louise C. Ivers8  
1Massachusetts General Hospital, Boston, MA, United States  
2Zamni Laisante, Port-au-Prince, Haiti  
3Harvard Medical School, Boston, MA, United States

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**5763**

**POTENTIAL SUITABILITY OF SULFADOXINE-PYRIMETHAMINE PLUS AMODIAQUINE FOR SEASONAL MALARIA CHEMOPREVENTION IN AREAS OF HIGH, PRE-EXISTING DRUG RESISTANCE**

Gina Maria Cuomo-Dannenburg1, Andria Mousa1, Sam Gudoi2, Kevin Baker2, Maria Suau Sans3, Chukwu Nna Obi4, John Baptist Bwanka4, Ivan Alejandro Pulido Tarquino5, Christian Rass6, Monica A. de Cola7, Craig Bonnington8, Robert Verity8, Matthew Cairns9, Paul Milligan10, Sally Fegan10, Lucy Okell11, Patrick G T Walker12  
1Imperial College London, London, United Kingdom  
2London School of Hygiene & Tropical Medicine, London, United Kingdom  
3Malaria Consortium, London, United Kingdom

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**5839**

**ASSOCIATIONS BETWEEN MATERNAL AND PATERNAL STRESS, MATERNAL DEPRESSION, MATERNAL EXPOSURE TO INTIMATE PARTNER VIOLENCE, AND CHILD STRESS**

Alexis V. Silvera1, Zachary Butzin-Douzie2, Sophia T. Tan3, Andrew N. Mertens3, Kausar Parvin4, Md. Mahfuzul Alam Munmun5, Dora Ifyosa6, Md. Ziaur Rahman7, Helen O. Pitchik8, Benjamin F. Arnold9, Idan Shalev9, Ivan Spasojevic9, Shahzahan Ali10, Gabrielle Shuman11, Mohammed R. Karim12, Sunny Shahriar12, Christine P. Stewart12, Abul K. Shoabi12, Syeda L. Fami13, Salma Akhter14, Md. Saheen Hosseni14, Palash Mutsumudi15, Mahbubbar Rahman16, Leonne Uincare17, Lijing Yan18, Lisa C. H. C. Fernald19, John M. Colford1, Stephen P. Luby1, Douglas A. Granger1, Ruchira T. Naved1, Audrie Lin1  
1School of Public Health, University of California, Berkeley, Berkeley, CA, United States  
2International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh  
3Department of Medicine, Duke University, Durham, NC, United States  
4Francis I. Proctor Foundation, University of California, San Francisco, San Francisco, CA, United States  
5Department of Biobehavioral Health, Pennsylvania State University, University Park, PA, United States  
6Department of Nutrition, University of California, Davis, CA, United States  
7EpiGenDi, Inc., Hopkinton, MA, United States  
8Division of Infectious Diseases and Geographic Medicine, Stanford University, Stanford, CA, United States, 9Institute for Interdisciplinary Salivary Bioscience Research, University of California, Irvine, Irvine, CA, United States

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**5839**

**CLINICAL SIGNS AND IMMUNE RESPONSE CHANGES DURING PLASMODIUM FALCIPARUM CO-INFECTION OF ART-TREATED SIV+ RHESUS MACAQUES**

Sydney Nemphos1, Hannah Green1, Sallie Feller1, James Prusak2, Kelly Goff2, Matilda Mostrom3, Coty Tatton4, Robert Blair4, Carolina Allers2, Monica Embres5, Nicholas Manness7, Preston Marx8, Brooke Gasperge8, Amanda Kaur9, Berlin Londono-Renteria10, Jennifer A. Manuzak1  
1Tulane National Primate Research Center, Covington, LA, United States  
2Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States

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**6425**

**DEVELOPING NOVEL FLATWORM ION CHANNEL LIGANDS TO TREAT NEGLECTED TROPICAL DISEASES**

Daniel J. Sprague1, Sang-Kyu Park1, Claudia M. Rohr1, Simone Häberlein2, Jonathan S. Marchant1  
1Medical College of Wisconsin, Milwaukee, WI, United States, 2Institute of Parasitology, Justus Liebig University Giessen, Giessen, Germany

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**6509**

**AFTERSHOCK: PERSISTENT INFLAMMATION AND ENDOTHELIAL ACTIVATION IN ADULT SURVIVORS OF DENGUE SHOCK**

Angela McBride1, Phan Vinh Tho2, Luong Thi Hue Tai3, Nguyen Thanh Phong4, Nguyen Thanh Ngoc5, Duyen Huynh Thi Le3, Nguyen Lam Vuong3, Louise Thwaites3, Martin J Llewelyn3, Nguyen Van Hao3, Sophie Yacoub4  
1Brighton and Sussex Medical School, Brighton, United Kingdom, 2Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam, 3Oxford University Clinical Research Unit, Ho Chi Minh City, Vietnam, 4University of Medicine and Pharmacy, Ho Chi Minh City, Vietnam

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**6545**

**IMPACT OF AN ANCILLARY CARE POLICY DURING AN EBOLA VACCINE TRIAL IN THE DEMOCRATIC REPUBLIC OF THE CONGO**

Gwen Lemey1, Yinke Larivière1, Tresor Zola2, Solange Milolo2, Engbu Danoff, Emmanuel Esang3, Junior Matangila4, Raffaella Ravinetto5, Jean-Pierre Van Geertruyden6, Vivi Maketa7, Patrick Mitashi8, Pierre Van Damme8, Hyopilte Muhindo Mavoko9  
1University of Antwerp, Antwerp, Belgium, 2University of Kinshasa, Kinshasa, Democratic Republic of the Congo, 3Institute of Tropical Medicine, Antwerp, Belgium

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CONDUCTING AN EBOLA VACCINE TRIAL IN A REMOTE AREA OF THE DEMOCRATIC REPUBLIC OF THE CONGO: CHALLENGES, MITIGATIONS, AND LESSONS LEARNED

Ynke Lariviè re1, Trésor M. Zola2, Gwen Lemey1, Bernard Osangiri1, Paul P. Vermeiren1, Solange Milolo1, Rachel Meta3, Emmanuel Esang1, Jean-Pierre Van geertruyden1, Pierre Van Damme1, Vivi Maketa1, Patrick Mitashi1, Hypolite Muhindo-Mavoko1

1University of Antwerp, Antwerp, Belgium, 2University of Kinshasa, Kinshasa, Democratic Republic of the Congo

ASSOCIATION BETWEEN ARTERIAL STIFFNESS AND LOAMCROFILAREMIA: A POPULATION BASED CROSS-SECTIONAL STUDY IN A RURAL AREA OF THE REPUBLIC OF CONGO

Jérémy T. Campillo1, Valentin Dupasquier1, Elodie Lebredonchet1, Ludovic G. Rancé2, Marlhand C. Hemilembolo1, Sébastien D. S. Pion1, Michel Boussinesq1, Francois Missamou1, Antonia Perez Martin5, Cédric B. Chesnais1

1Institut de Recherche pour le Développement, Montpellier, France, 2CHU de Montpellier, Montpellier, France, 3AP-HP, Paris, France, 4PNLO, Brazzaville, Republic of the Congo, 5CHU de Nîmes, Nîmes, France

MICRONUTRIENT STATUS DURING PREGNANCY IS ASSOCIATED WITH YOUNG CHILD TELOMERE LENGTH

Farheen Jamshed1, Shahjahan Ali1, Sophia T. Tan1, Andrew N. Mertens1, Yue Lin2, Zachary Butzin-Dozier1, Md. Ziaur Rahman1, Rubhana Raqib1, Douglas A. Granger1, Anjan K. Roy1, Abul K. Shoab1, Firdaus S. Dhahbhar1, Syeda L. Famida2, Md. Saheen Hosseni1, Palash Mutsuddi1, Salma Akkter1, Mahbubur Rahman1, Juergen Erhardt1, Idan Shalev1, John M. Colford Jr1, Stephen P. Luby1, Lia C. H. Fernald7, Syeda L. Famida2, Christine P. Stewart1, Audrie Lin1

1Department of Epidemiology, Mailman School of Public Health, Columbia University, New York, NY, United States, 2Infectious Diseases Division, International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, 3Division of HIV, Infectious Diseases, and Global Medicine, University of California, San Francisco, San Francisco, CA, United States, 4Division of Epidemiology and Biostatistics, School of Public Health, University of California Berkeley, Berkeley, CA, United States, 5Department of Biochemistry and Biophysics, University of California San Francisco, San Francisco, CA, United States, 6Institute for Interdisciplinary Salivary Bioscience Research, University of California Irvine, Irvine, CA, United States, 7Department of Psychiatry & Behavioral Sciences, Sylvester Comprehensive Cancer Center, University of Miami, Miami, FL, United States, 8VitaMin Lab, Willistetta, Germany, 9Department of Biobehavioral Health, Pennsylvania State University University Park, PA, United States, 10Division of Infectious Diseases and Geographic Medicine, Stanford University, Stanford, CA, United States, 11Division of Community Health Sciences, School of Public Health, University of California Berkeley, Berkeley, CA, United States, 12Institute for Global Nutrition, University of California Davis, Davis, CA, United States

ANTIBIOTIC STEWARDSHIP USING THE EPOCT+ DIGITAL CLINICAL DECISION SUPPORT ALGORITHM IN PRIMARY CARE FACILITIES IN TANZANIA: A CLUSTER RANDOMIZED CONTROLLED TRIAL

Rainer Tan1, Lameck B. Luwanda2, Godfrey Kavishe3, Alexandra V. Kulinkina3, Chacha Mangu2, Sabine Renggli1, Geoffrey Ashery4, Margreth Joram2, Ibrahim E. Mtebene1, Peter Agrea1, Alan Vonlanthen1, Vincent Faivre1, Julien Thabard1, Humphrey Mhagama1, Gillian Levine1, Marie-Annick Le Pogam1, Kristina Keitel1, Patrick Tafiri1, Nyanda Ntinginya1, Honorati Masanja1, Valérie D'Acresmont1

1Unisante, Lausanne, Switzerland, 2Vibac Health Institute, Dar es Salaam, United Republic of Tanzania, 3National Institute of Medical Research - Mbeya Medical Research Centre, Mbeya, United Republic of Tanzania, 4Swiss Tropical and Public Health Institute, Allschwil, Switzerland, 5University-Hospital Bern, Bern, Switzerland

REDUCING LOW BIRTH WEIGHT BY ADDING TWO DOSES OF AZITHROMYCIN TO THE INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANCY WITH SULFADOXINE PYRIMETHAMIN: A RANDOMIZED CONTROLLED TRIAL IN BURKINA FASO

Mousa Lingani1, Serge Henri Zango1, Innocent Valéé1, Sékou Samadoulougou2, Michèle Dramaïla1, Halidou Tinto1, Philippe Donnen1, Annie Robert1, 1Institut de Recherche en Sciences de la Santé/Direction Régionale du Centre Ouest (IRSS/ DRCO), Nanoro, Burkina Faso, 2Evaluation Platform on Obesity Prevention, Québec Heart and Lung Institute Research Center, Quebec City, QC G1V 4G5, Quebec, QC, Canada, 3École de santé publique, Université Libre de Bruxelles, CP994, route de Lennik 808, 1070 Bruxelles, Bruxelles, Belgium, 4Epidemiology and Biostatistics Research Division, Institut de recherche expérimentale et clinique, Université catholique de Louvain, Brussels B1 30.13, Clos Chapelle-aux-Champs 30, B-1200 Brussels, Bruxelles, Belgium

Young Investigator Award Session B

Roosevelt 3B - Concours Level (East Tower)
Wednesday, October 18, 9 a.m. – 2 p.m. U.S. Central Time Zone

JUDGE
Andrea Conroy
Indiana University, Indianapolis, IN, United States

EVALUATING THE CONTRIBUTION OF NS1 ANTIGENEMIA TO DENGUE-ELICITED NEUTROPENIA
Chad Gebo, Mitchell Waldran, Lauren Bahr, Adam Wegman, Nathan Roy, Adam Waickman
SUNY Upstate Medical University, Syracuse, NY, United States

SIMPLE, INEXPENSIVE IN VITRO DRUG SURVIVAL ASSAY FOR MONITORING ANTIMALARIAL DRUG SENSITIVITY IN MALARIA ENDEMIC REGIONS
Chinedu Ogbonnia Egyu, Fatoumata Bojang, Ndey Fatou Drammeh, Aminata Seedy Jawara, Fatou K. Jaihel, Eniyi Orien, Alfred Arambua-Ngwa
Medical Research Council unit at London School School of Hygenie and Tropical Medicine, Banjul, Gambia

EXPLORING DIMETHYL FUMARATE AS AN ADJUNCTIVE THERAPY FOR CEREBRAL MALARIA IN EXPERIMENTAL CEREBRAL MALARIA MODEL
Cheryl Sachdeva1, Tarun Keswani1, Akua Mensah1, Min-Hui Cui1, Craig Branch1, Johanna P. Daily1
1Albert Einstein College of Medicine, Bronx, NY, United States, 2CUNY Lehman College, Bronx, NY, United States

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COMPARISON OF ESTIMATES OF MALARIA TRANSMISSION INTENSITY DERIVED FROM THE FACILITY-BASED TEST POSITIVITY RATE VERSUS HOUSEHOLD, MALARIA-INDICATOR STYLE SURVEYS
Brandon D. Hollingsworth\textsuperscript{1}, Emmanuel Baguma\textsuperscript{2}, Moses Ntarro\textsuperscript{2}, Edgar Mulogo\textsuperscript{2}, Ross M. Boyce\textsuperscript{3}
\textsuperscript{1}Cornell University, Ithaca, NY, United States, \textsuperscript{2}Mbarara University of Science & Technology, Mbarara, Uganda, \textsuperscript{3}University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

SCHISTOSOMAL CIRCULATING ANODIC ANTIGEN CLEARANCE IN PRESCHOOL AGED CHILDREN FROM THE PIP (PRAZIQANTEL IN PRESCHOOLERS) TRIAL
Gloria Kakoba Ayebazibwe\textsuperscript{1}, Andrew Edielu\textsuperscript{2}, Susannah Colt\textsuperscript{2}, Emily L. Webb\textsuperscript{2}, Patrice A. Mawa\textsuperscript{3}, Hannah W. Wu\textsuperscript{4}, Govert J. van Dam\textsuperscript{4}, Paul Corstjens\textsuperscript{4}, Rachael Nakyesige\textsuperscript{4}, Jennifer F. Friedman\textsuperscript{4}, Amaya L. Bustinduy\textsuperscript{4}
\textsuperscript{1}Medical Research Council/Uganda Virus Research Institute and London School of Hygiene & Tropical Medicine Uganda Research Unit, Entebbe, Uganda, \textsuperscript{2}Lifespan Center for International Health Research, Providence, Rhode Island, RI, United States, \textsuperscript{3}London School of Hygiene & Tropical Medicine, London, United Kingdom, \textsuperscript{4}Leiden University Medical Centre, Leiden, Netherlands

MOSQUITO ID: NANOPORE SEQUENCING OUT OF A SUITCASE LAB AS AN EARLY WARNING SYSTEM FOR EMERGING INFECTIOUS DISEASES
Arianna Ceruti\textsuperscript{1}, Antonios Michaelakis\textsuperscript{2}, Marina Bisia\textsuperscript{3}, Uwe Truyen\textsuperscript{1}, Georgios Balatsos\textsuperscript{2}, John Palmer\textsuperscript{1}, Mohammad Shaful Alam\textsuperscript{1}, Ahmed Abd El Wahed\textsuperscript{1}
\textsuperscript{1}Leipzig University, Leipzig, Germany, \textsuperscript{2}Benaki Phytopathological Institute, Athens, Greece, \textsuperscript{3}Universitat Pompeu Fabra, Barcelona, Spain, \textsuperscript{4}icddr,b, Dhaka, Bangladesh

DEFINING THE PLASMODIUM PIPECOLIC ACID PATHWAY AND ROLE IN CEREBRAL MALARIA
Akua Mensah\textsuperscript{1}, Cheryl Sachdeva\textsuperscript{1}, Tarun Keswani\textsuperscript{2}, Edward Nieves\textsuperscript{2}, Uwe Truyen\textsuperscript{1}, Georgios Balatsos\textsuperscript{2}, John Palmer\textsuperscript{1}, Mohammad Shaful Alam\textsuperscript{1}, Ahmed Abd El Wahed\textsuperscript{1}
\textsuperscript{1}CUNY Lehman College, Bronx, NY, United States, \textsuperscript{2}Albert Einstein College of Medicine, Bronx, NY, United States, \textsuperscript{3}Johns Hopkins University, Baltimore, MD, United States, \textsuperscript{4}Michigan State University, East Lansing, MI, United States, \textsuperscript{5}Weill Cornell Medical College, New York, NY, United States

LATE POST-TREATMENT INFLAMMATORY RESPONSE AND RESIDUAL CALCIFICATION IN NEUROCYSTICEROSIS
Laura E. Baquedano Santana\textsuperscript{1}, Noemi Miranda\textsuperscript{1}, Gianfranco Arroyo\textsuperscript{2}, Hector H. Garcia\textsuperscript{3}, Javier A. Bustos\textsuperscript{4}
\textsuperscript{1}Universidad Peruana Cayetano Heredia, Lima, Peru, \textsuperscript{2}Instituto Nacional de Ciencias Neuropediatricas, Mexico City, Mexico, \textsuperscript{3}Universidad de la Cuenca del Magdalena, Barranquilla, Colombia, \textsuperscript{4}Medical Library, Johns Hopkins School of Medicine, Baltimore, MD, United States, \textsuperscript{5}Universitat Pompeu Fabra, Barcelona, Spain

MULTIPLEXED ANTIGEN SPECIFIC ANTIBODY FC PROFILING FOR POINT OF CARE DIAGNOSIS OF TUBERCULOSIS
Sarah Ali\textsuperscript{1}, Preetham Peddireddy\textsuperscript{2}, Abhijna Panigrahi\textsuperscript{2}, Asma Hashim\textsuperscript{2}, Aniruddh Sarkar\textsuperscript{2}
\textsuperscript{1}Georgia institute of Technology, Atlanta, GA, United States, \textsuperscript{2}Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

ASSESSING PROGRESS TOWARDS THE WORLD HEALTH ORGANIZATION TARGET OF ZERO CATASTROPHIC COSTS DUE TO TUBERCULOSIS BY 2035
Paula P. Jimenez\textsuperscript{1}, Sumona Datta\textsuperscript{2}, Luz Quevedo Cruz\textsuperscript{2}, Matthew J. Saunders\textsuperscript{2}, Carlton A. Evans\textsuperscript{3}
\textsuperscript{1}Innovation For Health and Development, London, United Kingdom, \textsuperscript{2}Department of Clinical Sciences, Liverpool School of Tropical Medicine, Liverpool, United Kingdom

INVESTIGATING THE ACCURACY OF MALARIA DIAGNOSTIC TESTS: A BAYESIAN META-ANALYSIS COMPARING CONVENTIONAL AND ULTRASENSITIVE RAPID DIAGNOSTIC TOOLS
Muhammed Elfaituri, Taha Khaled
University of Tripoli, Tripoli, Libyan Arab Jamahiriya

MOLECULAR EPIDEMIOLOGY OF NON-FALCIPARUM PLASMODIUM INFESTATIONS IN DIFFERENT AREAS OF THE IVORY COAST
Assouhoun Jean Sebastien Miezan\textsuperscript{1}, Akpa Pateme Gnagne\textsuperscript{2}, Akoua Valérie Bedia-Tanoh\textsuperscript{1}, Estelle Kone\textsuperscript{1}, Abibatou Konate-Toure\textsuperscript{1}, Kpongbò Etienne Angora\textsuperscript{1}, Abo Henriette Bossou-Vanga\textsuperscript{3}, Kondo Fulgence Kassi\textsuperscript{2}, Pulchérie Christiane Michelle Kiki-Barro\textsuperscript{1}, Vincent Djobhari\textsuperscript{1}, Eby Hervé Menari\textsuperscript{1}, William Yavo\textsuperscript{1}
\textsuperscript{1}UNIVERSITE FELIX HOUPOUET BOIGNET, Abidjan, Côte d'Ivoire, \textsuperscript{2}National Institute of Public Health, Abidjan, Côte d'Ivoire, \textsuperscript{3}Université Felix Houphoet-Boigny, Abidjan, Côte d'Ivoire

DETECTING AND TREATING SEPTIC SHOCK IN DIARRHEAL PATIENT WITH POINT OF CARE (POC) LACTATE TESTING: A LIFE-SAVING STRATEGY BEYOND ICU
Lubaba Shahrin, Monira Sarmin, Irin Parvin, Mohammad Jobayer Chisti
International Centre for Diarrheal Disease Research, Bangladesh, Dhaka, Bangladesh

TOWARDS IMPROVED ONCHOCERCIASIS DIAGNOSTICS: CHARACTERIZATION OF A MAJOR ANTIGEN OF ONCHOCERCA VOLVULUS IDENTIFIED FROM THE PLASMA OF INFECTED INDIVIDUALS
Adebiyi A. Adeniran, Kurt C. Curtis, Lucia Sanchez Di Maggio, Kerstin Fischer, Gary Weil, Peter U. Fischer
Washington University School of Medicine, St Louis, MO, United States

Young Investigator Award Session C
Regency Ballroom A - Ballroom Level (West Tower)
Wednesday, October 18, 9 a.m. – 2 p.m. U.S. Central Time Zone

JUDGE
Fernando Bruno
National Institutes of Health, Bethesda, MD, United States

Rebecca Fischer
Texas A&M University, College Station, TX, United States

Alexander Kwarteng
Kumasi Centre for Collaborative Research in Tropical Medicine, Kumasi, Ghana

SUPERSPREADING OF SARS-COV-2: A SYSTEMATIC REVIEW AND META-ANALYSIS
Clifton D. McKee\textsuperscript{1}, Emma X. Yu\textsuperscript{2}, Andrés García\textsuperscript{3}, Jules Jackson\textsuperscript{4}, Aybüke Koyuncu\textsuperscript{5}, Sophie Rose\textsuperscript{1}, Andrew S. Azman\textsuperscript{6}, Katie Lobner\textsuperscript{2}, Emma Sacks\textsuperscript{1}, Maria Van Kerkhove\textsuperscript{3}, Emily S. Gurley\textsuperscript{6}
\textsuperscript{1}Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, \textsuperscript{2}Welch Medical Library, Johns Hopkins School of Medicine, Baltimore, MD, United States, \textsuperscript{3}World Health Organization, Geneva, Switzerland
USE OF INVERSE DISTANCE WEIGHTING INTERPOLATION METHOD AND GIS-BASED SPATIAL MAPPING TO ESTIMATE THE RISKS OF Hookworm and Intestinal Schistosomiasis Infections in Ghana

Jeffrey G. Sumbi1, Yvonne Ashong1, Sedzro K. Mensah2, Jewella Akorli3, Irene O. Donkor4, Elias A. Bempong5, Rahmat Yulafi6, Bright Iduru6, Freda Kwaweng6, Frank T. Abaogy6, Lisa Harrison6, Debbie Humphries6, Mike O. Atweneboana7, Michael Cappello7, Michael D. Wilson8

1Noguchi Memorial Institute for Medical Research, University of Ghana, Accra, Ghana; 2Council for Scientific and Industrial Research, Accra, Ghana; 3Yale School of Public Health, New Haven, CT, United States; 4Yale School of Public Health, New Haven, CT, United States

Young Investigator Award Session D

Regency Ballroom B - Ballroom Level (West Tower)

Wednesday, October 18, 9 a.m. – 2 p.m. U.S. Central Time Zone

JUDGE

Charles Adetunji
Edu State University; Iyambo, Nigeria

Dionicia Gamboa
Universidad Peruana Cayetano Heredia, Lima, Peru

Prasanna Jagannathan
Stanford University, Stanford, CA, United States

Anita Suress
FINO3, Singapore, Singapore

WHO IS MISSED IN A COMMUNITY-BASED SURVEY: DIFFERENCES IN SOCIO-DEMOGRAPHIC CHARACTERISTICS AND HEALTHCARE SEEKING AMONG MISSED AND SAMPLED INDIVIDUALS FOR A SEROSURVEY IN ZAMBIA AND IMPLICATIONS FOR BIASED ESTIMATES OF HEALTHCARE SEEKING, VACCINATION COVERAGE, AND SEROPREVALENCE

Natalya Kostandova1, Simon Mutembo1, Christine Prosen1, Francis D. Mwansa1, Chola N. Daka1, Harriet Namukoko1, Bertha Nachinga1, Gershom Chongwe1, Innocent Chilumba1, Kalumbu H. Matakala1, Gloria Musukwa1, Mutinta Hamahwukwa1, Webster Mufwambi1, Japhet Matoba1, Irene Mufwambi1, Edgar Simulundu1, Kenny Situtu1, Irene Mutale1, Mariam O. Fofana1, Simon Mutembo1, Christine Prosen1

1, Yvonne Ashong1, Sedzro K. Mensah1, Jewella Akorli1, Irene O. Donkor1, Elias A. Bempong1, Rahmat Yulafi1, Bright Iduru1, Freda Kwaweng1, Frank T. Abaogy1, Lisa Harrison1, Debbie Humphries1, Mike O. Atweneboana1, Michael Cappello1, Michael D. Wilson2

1Yale School of Public Health, New Haven, CT, United States; 4Yale School of Medicine, New Haven, CT, United States; 5178

PLASMODIUM FALCIPARUM KELCH13 R561H SPREAD AND EMERGENCE OF OTHER ARTEMISININ PARTIAL RESISTANT MUTATIONS ACROSS RWANDA USING A SITE AND TEMPORAL RAPID POOLING STRATEGY

Neve Wemssman Young1, Gashema Pierre2, David Giesbrecht2, Tharcisse Munyaneza3, Alec Leonetti4, Rebecca Crudule1, Vincent Idrakunda1, Ntwari Jean Bosco1, Corine Karera5, Jean-Baptiste Mazarati6, Jonathan J. Juliano7, Jeffrey A. Bailey8

1Brown University, Providence, RI, United States; 2INES-Ruhengeri, Musanze, Rwanda; 3National Reference Laboratory; Rwanda Biomedical Center, Kigali, Rwanda; 4Quality Equity Health Care, Kigali, Rwanda; 5University of North Carolina - Chapel Hill, Chapel Hill, NC, United States

BENCHMARKING AN ACCESSIBLE METHOD FOR GENERATING COMPLETE GENOMES FROM PARASITIC NEMATODES

Kaylee S. Herzog, Joseph R. Fauer
University of Nebraska Medical Center, Omaha, NE, United States

COMPARISON OF STRENGTH OF SELECTION FOR P. FALCIPARUM ARTEMISININ RESISTANCE-ASSOCIATED MUTATIONS BETWEEN SOUTHEAST ASIA AND UGANDA

Cecile P. G. Meier-Scherling1, Oliver J. Watson1, Victor Asua1, Isaac Ghan1, Thomas Katair1, Shreya Garg1, Dominic Kwiatkowski1, Melissa Conrad2, Philip J. Rosenthal2, Lucy C. Oke2, Jeffrey A. Bailey3

1Center for Computational Molecular Biology, Brown University, Providence, RI, United States; 2Medical Research Council Centre for Global Infectious Disease Analysis, Imperial College London, London, London, United Kingdom; 3Infectious Diseases Research Collaboration, Kampala, Uganda; 4Oxford University, Oxford, United Kingdom; 5University of California San Francisco, Medicine, San Francisco, CA, United States; 6Department of Pathology and Laboratory Medicine, Warren Alpert Medical School, Brown University, Providence, RI, United States

DISCORDANT CIRCULATING AND MUCOSAL ANTIBODY RESPONSES ELICITED BY SARS-COV-2 INFECTION AND VACCINATION IN A LONGITUDINAL COHORT FROM BRAZIL

Mariam G. Fofana1, Julio Silva1, Nivison Nery Jr2, Juan Pablo Aguilar Ticona3, Valter Silva Monteiro1, Emilia Andrade Bellardo1, M. Catherine Muenken1, Jacqueline Cruz1, Renato Victorionaro1, Daiana Santos de Oliveira1, Laira Lopes dos Santos1, Juliet Oliveira Santana1, Ananias Sena do Aragão Filho1, Adam Waichman1, Ricardo Khouri1, Matt D.T. Hitchings1, Mitemayer G. Reis1, Federico Costa1, Carolina Lucas1, Akiko Iwasaki2, Derek Cummings2, Albert I. Ko1

1Yale School of Public Health, New Haven, CT, United States; 2Yale School of Medicine, New Haven, CT, United States; 3University of California San Francisco, Medicine, San Francisco, CA, United States; 4Oxford University, Oxford, United Kingdom; 5178

THE GENOMICS BEHIND INSECTICIDE RESISTANCE IN ANOPHELES MOSQUITOES FROM THE BIJAGÓS ARCHIPELAGO

Sophie Moss1, Elizabeth Pretonious1, Sainey Ceeseay1, Robert Jones1, Jody Phelan1, Emma Collins1, Taane G. Clark1, Anna Last1, Susana Campino1

1Center for Computational Molecular Biology, Brown University, Providence, RI, United States; 2INES-Ruhengeri, Musanze, Rwanda; 3National Reference Laboratory, Rwanda Biomedical Center, Kigali, Rwanda; 4Quality Equity Health Care, Kigali, Rwanda; 5178

WOLBACHIA-INFECTED AEDES AEGYPTI TO CONTROL DENGUE IN DHAKA, BANGLADESH

Hasan Mohammad Al-Amin1, Leon E. Hugo1, Gordana Rafic1, Nigel W. Beebe2, Gregor J. Devine3

1QIMR Berghofer Medical Research Institute, Brisbane, Australia; 2University of Queensland, Brisbane, Australia; 3QIMR Berghofer, Brisbane, Australia

89
6615

CLIP RNAI SCREEN: UNVEILING THE PROTEASE NETWORK THAT REGULATES HUMORAL IMMUNITY IN ANOPHELES GAMBIAE

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

6764

CHARACTERIZING A NOVEL DENGUE VACCINE BY LEVERAGING CLINICAL TRIAL DATA WITH A MULTI-LEVEL MODEL

Manar Alkuzwenzew, Guido España, T. Alex Perkins
University of Notre Dame, Notre Dame, IN, United States

6899

HOST-DERIVED LIPIDS SHAPE PLASMODIUM FALCIPARUM DEVELOPMENT AND PATHOGENICITY: AN INTEGRATIVE MULTI-OМICS ANALYSIS IN MALARIА-INFECTED CHILDREN

Wael Abdabou1, Maria Nikulkova2, Massar Dieng2, Sanouf Zorit1, Manar AlShaik1, Aïssatou Diawara2, Samuel Sermet2, Safit Sombié2, Noelia Henry4, Desire Kargougou2, Issiaka Soulama4, Yousef Idaghdo14
1New York University, Abu Dhabi, United Arab Emirates, 2New York University, New York, NY, United States, 4Centre National de Recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso

7216

AGE AND PARASITEMIA EXPLAIN MOST OF THE VARIATION IN HOST AND PARASITE GENE EXPRESSION AMONG MALIAN CHILDREN INFECTED WITH P. FALCIPARUM

Kieran Tebben, Salif Yirampt1, Drissa Coulibaly1, Abdoulaye K. Koné1, Matthew B. Laurens1, Emily M. Stuc1, Ahmadou Dembélé1, Youssouf Tolo1, Karim Traoré1, Amadou Niangaly2, Andrea A. Berry1, Bourema Kouriba1, Christopher V. Plowe2, Ogobara K. Dounon1, Kirsten E. Lyke1, Shannon Takala-Harrison3, Manahadou A. Tera4, Mark A. Travassos1, David Serre1
1University of Maryland, Baltimore, Baltimore, MD, United States, 2Malaria Research and Development, University of the Philippines-Manila, Manila, Philippines, 3Malaria Research and Training Center (MRTC), Université des Sciences, des Techniques et des Technologies de Bamako, Bamako, Mali, 4Malaria Research and Training Center (MRTC), Université des Sciences, des Techniques et des Technologies de Bamako, Bamako, Mali, 5Mali

Young Investigator Award Session E

Regency Ballroom C - Ballroom Level (West Tower)
Wednesday, October 18, 9 a.m. – 2 p.m. U.S. Central Time Zone

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

Pedro Gazzinelli-Guimaraes
National Institutes of Health, Bethesda, MD, United States

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

Kirsten E. Lyke
Center for Vaccine Development, University of Maryland, Baltimore, MD, United States

5297

PERSISTENCE OF SERUM IGM ANTIBODIES ANTI-CHIKUNGUNYA VIRUS FOR MORE THAN 24 MONTHS AFTER THE ONSET OF ACUTE SYMPTOMS

Leile Camila Jacob-Nascimento1, Moyra Machado Portilho1, Rosangela Oliveira Anjos1, Patricia Sousa dos Santos Moreira1, Viviane Machicado2, Adriane Souza Paz3, Lorena Gomes3, Uleri Kitron3, Scott Weaver4, Mitemayer Galvão Reis5, Guilherme Sousa Ribeiro6
1Oswaldo Cruz Foundation, Salvador, Brazil, 2Bahiana School of Medicine and Public Health, Salvador, Brazil, 3Emory University, Atlanta, GA, United States, 4World Reference Center for Emerging Viruses and Arboviruses, University of Texas Medical Branch, Galveston, TX, United States, 5Oswaldo Cruz Foundation / Federal University of Bahia / Yale University, Salvador / New Haven, Brazil, 6Oswaldo Cruz Foundation / Federal University of Bahia, Salvador, Brazil

5301

ASSESSING THE ROLE OF NON-NEUTRALIZING ANTIBODIES IN ANTIBODY-DEPENDENT CELLULAR CYTOTOXICITY OF DENGUE VIRUS INFECTED CELLS

Mitchell J. Waldman1, Adam T. Waickman1, Jeffrey Currier2
1SUNY Upstate Medical University, Syracuse, NY, United States, 2Walter Reed Army Institute of Research, Silver Spring, MD, United States

5305

DETECTION OF ENVELOPE-DIMER EPITOPE-LIKE BROADLY PROTECTIVE ANTIBODIES IN DENGUE-IMMUNE CHILDREN IN THE PHILIPPINES FOLLOWING VACCINATION AND NATURAL INFECTION

Patrick I. Mpingabo1, Michelle Ylade2, Maria Vinna Crisostomo2, Devina Thono2, Jeda Veronica Daag3, Kristal-An Agrupis3, Ana Coello Escoto3, Christopher V. Plowe3, Ogobara K. Dounom4, Kirsten E. Lyke3, Shannon Takala-Harrison4, Manahadou A. Tera4, Mark A. Travassos1, David Serre1
1University of Maryland, Baltimore, Baltimore, MD, United States, 2Malaria Research and Development, University of the Philippines-Manila, Manila, Philippines, 3Department of Microbiology and Immunology, University of North Carolina Chapel-Hill, Chapel-Hill, NC, United States

5312

MALARIA ABOLISHES ONNV-INDUCED ARTHRITIS BY ALTERING THE KINETICS OF VIRUS-SPECIFIC CD4 T CELL DEVELOPMENT IN THE FOOTPAD-DRAINING LYMPH NODES

Anthony Torres-Ruesta, Teck-Hui Teo, Yi-Hao Chan, Siti Naqiah Amrun, Siew-Wai Fong, Fok-Moon Lum, Lauren Renia, Lisa Ng
A*STAR Infectious Diseases Labs, Singapore, Singapore

5472

COMPARISON OF P. FALCIPARUM GROWTH IN VITRO AND IN VIVO IN HUMANISED MICE

Katty Wadda1, James Keeble1, Giselle McKenzie1, Christine Zweve1, Rose Leahy1, Vicky Rannow1, Jessica Gruninger1, Charles Olomu1, Shaun Baker1, Paul Bowyer1, Sandrine Vessillier1, Alison Kemp1, Julian Rayner1, Sandra Diebold1, Adela Nacer1
1Medicines and Healthcare Products Regulatory Agency, South Mimms, United Kingdom, 2Cambridge Institute for Medical Research, University of Cambridge, Cambridge, United Kingdom

5697

BORRELIA BURGDORFERI CO-EXPOSURE ENHANCES IN VITRO HOST CELL SUSCEPTIBILITY TO L. INFANTUMAND INDUCES TH17-LIKE CELL RESPONSES IN L. INFANTUM-SEROPOSITIVE DOGS

Danielle Pessoa-Pereira1, Brenna M. Scorz1, Karen Cyndari2, Erin A. Beasley1, Christine A. Petersen1
1University of Iowa, Iowa City, IA, United States, 2University of Iowa Hospitals and Clinics, Iowa City, IA, United States
5698

STAT6-DEPENDENT/IL-5-MEDIATED EOSINOPHILIA PRIMED BY PRE-EXPOSURE TO UNINFECTED SANDFLY VECTOR BITES ENHANCE SUBSEQUENT LEISHMANIA INFECTION

Chukwunonso O. Nzelu1, Mathew B. H. Carneiro1, Claudio Meneses2, Gabriella Gee2, Leon Melo2, Nathan C. Peters1
1Snyder Institute for Chronic Diseases, Department of Microbiology, Immunology, and Infectious Diseases, Cumming School of Medicine and Faculty of Veterinary Medicine, University of Calgary, Canada, Calgary, AB, Canada, 2Vector Molecular Biology Section, Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, USA, Rockville, MD, United States

5700

INHIBITION OF SRC SIGNALING INDUCES AUTOPHAGIC KILLING OF TOXOPLASMA GONDII INDEPENDENT OF EGF RECEPTOR

Alyssa Hubal1, Jose-Andres Portillo1, Anusha Vendhoti2, Sarah Vos1, Charles Shaffer2, Carlos Subauste1
1Case Western Reserve University School of Medicine, Cleveland, OH, United States, 2Case Western Reserve University, Cleveland, OH, United States

5701

LOSS OF SIGLEC-7 CORRELATES WITH ENHANCED NATURAL KILLER CELL FUNCTION AND PROTECTION FROM MALARIAN SYMPTOMS

Jenna Dick1, Jules Sangala1, Benjamin Zandstra1, Peter Crompton1, Geoffrey Hart1
1University of Minnesota, Minneapolis, MN, United States, 2National Institutes of Health, Bethesda, MD, United States

5841

A NOVEL VIRULENCE MODIFYING EXOTOXIN SECRETED BY PATHOGENIC LEPTOSPIRA MEDIATES DISEASE PATHOGENESIS AND IS A PAN LEPTOSPIROSIS VACCINE CANDIDATE

Reetika Chaurasia, Dielson S. Vieira, Joseph M. Vinetz
Yale University, New Haven, CT, United States

6033

INVESTIGATING THE IMMUNE PROFILES ELICITED BY CLINICALLY APPARENT AND CLINICALLY INAPPARENT DENGUE VIRUS INFECTIONS

Lauren Bahr1, Darune Buddhari2, Surachai Kaewhiran2, Dirk Khampaen2, Sopon Iamsinthaworn3, Stefan Fernandez4, Aaron Farmer5, Alan Rothman5, Stephen Thomas5, Timothy Endy5, Adam Waickman5, Kathryn Anderson5
1University of Central Florida, Orlando, FL, United States, 2University of California, San Francisco, CA, United States, 3Rutgers University, Newark, NJ, United States, 4Connecticut Agricultural Experiment Station, Cheshire, CT, United States, 5Snyder Institute for Chronic Diseases, Department of Microbiology, Immunology, and Infectious Diseases, Cumming School of Medicine and Faculty of Veterinary Medicine, University of Calgary, Canada, Calgary, AB, Canada

6367

PERFORMANCE OF SARS COV-2 IGG ANTI-N AS AN INDEPENDENT MARKER OF EXPOSURE TO SARS COV-2 IN AN UNVACCINATED WEST-AFRICAN POPULATION

Adam Abdullahi1, Michael Owusu2, Mark Cheng1, Colette Smith1, Sani Aliyu1, Alash'le Abimiku1, Richard Phillips1, Ravindra K. Gupta1
1University of Cambridge, Cambridge, United Kingdom, 2Kumasi Centre for Collaborative Research in Tropical Medicine, Kumasi, Ghana, Kumasi, Ghana, 3University College London, UK, London, United Kingdom, 4Addenbrooke’s Hospital, Cambridge University Hospitals NHS Foundation Trust, Cambridge, UK, Cambridge, United Kingdom, 5Institute of Human Virology, Abuja, Nigeria, Abuja, Nigeria

6496

A HUMAN PLURIPOTENT STEM CELL DERIVED MODEL OF THE BLOOD-BRAIN BARRIER IN CEREBRAL MALARIA

Adnan Gopinadhan1, Jason M. Hughes2, Andrea L. Conroy2, Chandy C. John3, Scott G. Canfield2, Dibyadyuti Datta2
1Indiana University School of Medicine, Indianapolis, IN, United States, 2Indiana University School of Medicine, Terre Haute, IN, United States, 3Indiana University School of Medicine, Terre Haute, IN, United States

5717

SEROLOGIC RESPONSE USING ELISA ANTI-VI IGG ANTIBODIES AT SEVERAL TIME POINTS FOLLOWING IMMUNIZATION WITH TYPBAR-TCV AMONG HIV INFECTED CHILDREN IN KARACHI PAKISTAN

Zoya Haq1, Farah Qamar2, Sonia Qureshi2, Fatima Mir3, Mohammad Tahir Younusfzai2, Rabab Batool2
1Liaquat National Medical College, Karachi, Pakistan, 2Aga Khan University Hospital, Karachi, Pakistan

Young Investigator Award Session F

Regency Ballroom D - Ballroom Level (West Tower)
Wednesday, October 18, 9 a.m. – 2 p.m. U.S. Central Time Zone

JUDGE
Zannatul Ferdous
Connecticut Agricultural Experiment Station, Cheshire, CT, United States

5725

SEX HORMONES, CD8+ T CELLS, AND THE LIVER: HOW THE ENDOCRINE-IMMUNE INTERFACE ALTERS MALARIAN LIVER-STAGE VACCINE OUTCOMES

Caroline J. Duncombe, Felicia Watson, Kenneth Boey, Anya Kalata, Melanie Shears, Mariko Seilie, Shruthi Raman, Sean C. Murphy
University of Washington, Seattle, WA, United States

5901

EFFECT OF LOW RELATIVE HUMIDITY OVER MORTALITY AND VIRAL VECTOR COMPETENCE IN Aedes aegypti

Jaime Manzano1, Gerard Terradas1, Christopher J. Holmes2, Joshua B. Benoit2, Jason L. Rasgon1
1The Pennsylvania State University, State College, PA, United States, 2University of Cincinnati, Cincinnati, OH, United States

6127

MAXIMIZING THE USE OF HUMAN POPULATION MOVEMENT DATA FOR MALARIAN CONTROL AND ELIMINATION

Gréta Tam1, Ipsita Sinha1, Kulchada Pongsoipetch1, Keobouphane Chindavongsa2, Mayfong Mayxay3, Sonexay Phalivong4, Elizabeth Ashley2, Benjamin Cowling1, Olivo Miotto1, Richard Maude1
1Mahidol Oxford Tropical Medicine Research Unit (MOTRU), Bangkok, Thailand, 2Center of Malariology, Parasitology and Entomology (CMPE), Vientiane, Laos People’s Democratic Republic, 3Lao-Oxford-Mahosot Hospital-Wellcome Trust Research Unit, Vientiane, Laos People’s Democratic Republic, 4University of Hong Kong, Hong Kong, Hong Kong
6189

IMPACT OF INDOOR RESIDUAL SPRAYING AT THE END OF THE RAINY SEASON IN A HOLOENDEMIC MALARIA TRANSMISSION SETTING IN NORTHERN ZAMBIA: A DEMONSTRATION PROJECT

Anne Martin1, Mike Chaponda2, Mbanga Mulebha3, James Sichwula Lupiya4, Mary Gebhardt5, Sophie Benou6, Timothy Shields3, Amy Wesolowski2, Tamaki Kobiyashi7, Douglas Norris1, Daniel E. Impoinville8, Nélida Iwuchukwea9, Gerald Chongo10, Emmanuel Kooma11, Paul Psychas12, Matthew J. Moss13
1. Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, 2. Tropical Disease Research Centre, Ndola, Zambia, 3. U.S. President’s Malaria Initiative (PMI), U.S. States, 4. Kawsay Biological Station, Puerto Maldonado, Peru and Epidemiology, School of Veterinary Medicine, University of California, Davis, CA, United States, 5. Medicine, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, 6. London School of Hygiene & Tropical Medicine, London, United Kingdom, 7. London School of Hygiene & Tropical Medicine, London, United Kingdom, 8. London School of Hygiene & Tropical Medicine, London, United Kingdom, 9. Johns Hopkins School of Medicine, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

6355

HOUSING STRUCTURES AND VISCERAL LEISHMANIASIS TRANSMISSION IN BARINGO COUNTY, KENYA

Katherine Obrien1, Grace Kennedy2, Hellen Nyakundi3, Mwatala Kitondo4, Wilson Biwott5, Valeria Pembee6, Richard Wamai1
1. American Center for Community Investment in Health, Chemolingot, Kenya, 2. Chemolingot Sub County Hospital, Chemolingot, Kenya

6382

THE EFFECT OF SOAP USE CONDITIONS ON SCHISTOSOME CERCARIAE IN WATER

Jiaodi Zhang1, Ana K. Pito2, Laura Braun1, Michael R. Templeton1
1. Imperial College London, London, United Kingdom, 2. Liverpool School of Tropical Medicine, Liverpool, United Kingdom

5409

EXPOSURE TO WEST NILE VIRUS AND STRAIN-SPECIFIC DIFFERENCES SHAPE TRANSMISSION BY CXC. PIPIENS UNDER CLIMATE CHANGE

Rachel Fay1, Mauricio Cruz-Loya2, Ellyse Banker3, Jessica Stout1, Anne Payne2, Erin Mordecai1, Alexander Ciota1
1. School of Public Health, State University of New York Albany, Albany, NY, United States, 2. Department of Biology, Stanford University, Stanford, CA, United States, 3. Arbovirus Laboratory, Wadsworth Center, New York State Department of Health, Slingerlands, NY, United States

6525

DOGS AS RICKETTSIA SPP. SENTINELS IN A PERUVIAN AMAZON NATURAL RESERVE BUFFER ZONE

Oliver A. Bocanegra1, Cusi Ferradas1, Winnie Conterras2, Diana León-Luna2, Andrés M. Lopez1, Raul Bello3, Andres G. Lescano3
1. Emerge, Emerging Diseases and Climate Change Research Unit, School of Public Health and Administration, Universidad Peruana Cayetano Heredia, Lima, Peru, 2. Department of Medicine and Epidemiology, School of Veterinary Medicine, University of California, Davis, CA, United States, 3. Kawasy Biological Station, Puerto Maldonado, Peru

6616

IMPACT OF ARBOVIRUS INFECTION ON THE HOST-SEEKING BEHAVIOUR OF Aedes aegypti MOSQUITOES

Tessa M. Visser1, Chantal B. F. Vogels2, Goben P. Pijman3, Constantianus J. M. Koenraadt1
1. Laboratory of Entomology, Wageningen University & Research, Wageningen, Netherlands, 2. Department of Epidemiology of Microbial Diseases, Yale School of Public Health, New Haven, CT, United States, 3. Laboratory of Virology, Wageningen University & Research, Wageningen, Netherlands

6661

INTEGRATED VECTOR MANAGEMENT IMPLEMENTED TO REDUCE DENV-1 POSITIVE CASES IN HUMANS AND MOSQUITOES IN MAYAGUEZ, PUERTO RICO, 2022

Nexlianne Borrero1, Raiza Alvarado1, Luis Doel Santiago1, Joanelis Medina1, Cristhian R. Sánchez-Rolón1, Verónica Rodríguez-Quinonez1, Jania P. García2, Luis Marrero3, Tatiana Ortiz-Ortiz1, Juliane Miranda-Bermúdez1, Greyson Brown1, Puerto Rico Vector Control Unit, Ponce, PR, United States

7141

CULEX PIPIENS AND CULEX MODESTUS ARE VECTORS FOR WEST NILE VIRUS AND USUTU VIRUS, RESPECTIVELY, IN BELGIUM

Alina Soto1, Lander De Coninck1, Celine Van De Wiele1, Ann-Sophie Devlies1, Ana Lucia Rosales Rosas1, Lanjiao Wang1, Jelle Matthijssens1, Leen Delang1, Rega Institute for Medical Research, KU Leuven1, Leuven, Belgium

7151

IDENTIFYING THE DEVELOPMENTAL REGULATORS OF PLASMODIUM FALCIPARUM IN THE MALARIA MOSQUITO ANOPHELES GAMBIAE

Yan Yan1, Elaine Cheung2, Duo Peng3, W. Robert Shaw2, Esra I. Probst1, Flaminia Catteruccia1
1. Harvard TH Chan School of Public Health, Boston, MA, United States, 2. The Chan Zuckerberg Biohub, San Francisco, CA, United States

7259

ANOPHELES SALIVARY ANTIBODY BIOMARKERS ASSESS THE EFFECTIVENESS OF PERSONAL INSECT REPELLENT AND IDENTIFY FOCI OF MALARIA TRANSMISSION IN SOUTHEAST MYANMAR

Ellen A. Kearney1, Paul A. Agius2, Punam Amratia1, Su Yun Kang1, Katherine O’Flaherty1, Win Han Oo1, Julia C. Cutts1, Daniela Da Silva Goncalves2, Kefyalew A. Alene2, Aung Thu3, Htin Kyaw Thu4, Myat Mon Thwin5, Nyi Nyi Zaw6, Wai Yan Min Htay7, Aung Paing Soe1, Naaniki Pasricha1, Brendan Crabb1, James Beeson1, Victor Chaumeau6, Julie A. Simpson1, Peter Gething1, Ewan Cameron1, Freya JI Fowkes1
1. Burnet Institute, Melbourne, Australia, 2. Biostatistics Unit, Faculty of Health, Deakin University, Melbourne, Australia, 3. Malaria Atlas Project, Telethon Kids Institute, Perth, Australia, 4. Burnet Institute, Yangon, Myanmar, 5. Department of Public Health, Myanmar Ministry of Health and Sports, Yangon, Myanmar, 6. Shoklo Malaria Research Unit, Mahidol University, Mae Sot, Thailand, 7. Centre for Epidemiology and Biostatistics, The University of Melbourne, Melbourne, Australia

Workshop

Global Malaria and Gender Community of Practice (CoP)

Grand Hall KL - Ballroom Level (East Tower)

Wednesday, October 18, 10 a.m. - 12:30 p.m. U.S. Central Time Zone

Supported by the Bill & Melinda Gates Foundation, the Global Malaria and Gender Community of Practice (CoP) seeks to work with relevant stakeholders and partners to co-create, catalyze, and develop a cohesive, strategic, and measurable approach that integrates gender into malaria work and identifies gender intentional and gender-transformative opportunities to advance gender equity in the fight against malaria.

The objectives of the workshop are to:

a. Promote the “Gendered Approach to the Fight Against Malaria” Advocacy Agenda.
b. Enhance ongoing engagement and resourcing of the CoP’s Advocacy Agenda.

c. Promote the CoP to individuals and organizations working in the field of malaria and/or gender.

d. Bring together existing and new stakeholders at the local, regional, and global levels who are engaged in malaria eradication and gender equality work for discussions and deliberations on emerging paradigms in malaria and gender intersection.

University of Notre Dame, Pan-African Mosquito Control Association and Northshore Mosquito Abatement District

**Offsite Event**
**Wednesday, October 18, 10 a.m. - 3 p.m. U.S. Central Time Zone**

Attendees will meet at the Hyatt Regency Chicago by 7:15 am and depart for the North Shore Mosquito Abatement District (NSMAD) (https://www.nsmad.org) in the Chicago suburbs by Ubers/Taxis. Transportation provided to/from the Hyatt Regency Chicago. Breakfast and lunch provided.

Come and experience mosquito control in the US-Midwest context, with emphasis on Integrated Pest Management (IPM) and Larval Source Management (LSM). We welcome you to tour the NSMAD facility and learn about the equipment, procedures, data management tools, and administrative/funding model used across the Chicago area.

Also participating:

- Northwest Mosquito Abatement District (https://www.nwmadil.com/)
- Des Plaines Valley Mosquito Abatement District (https://dvmad.org/)
- North Shore Mosquito Abatement District Trustees (political leadership of the district) and local stakeholders
- Clarke Mosquito Control (a major vendor of mosquito control products in the USA as well as contractor for municipalities wishing to outsource mosquito control, https://www.clarke.com)
- Valient Biosciences (A global leader with a comprehensive range of target-specific biorational solutions for public health professionals, https://www.valentbiosciences.com)

**ACCTMTH Clinical Research Award Session**
**DuSable- Third Floor (West Tower)**
**Wednesday, October 18, 11 a.m. – 3 p.m. U.S. Central Time Zone**

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

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

**JUDGE**
German Henostroza
University of Alabama at Birmingham, Birmingham, AL, United States
Kristina Krohn
University of Minnesota, Roseville, MN, United States
Bryan N. Tegomoh
University of Yaounde I Medical School, Cameroon, Yaounde, Cameroon

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**5610**
**UTILITY OF THE LOOP-MEDIATED ISOTHERMAL AMPLIFICATION ASSAY FOR THE DIAGNOSIS OF VISCERAL LEISHMANIASIS FROM BLOOD SAMPLES IN ETHIOPIA**
Dawit Gebreegziabiher Hagos1, Yazezew Kebede kiros1, Mahmud Abdulkadir1, Dawit Wolday2, D. F. Henk Schallig3
1Mekelle University, college of Health Sciences, Mekelle, Ethiopia, 2University of Amsterdam, Academic Medical Centre (AMC), Amsterdam, Netherlands

**6277**
**HELMINTH INFECTION DRIVES REDUCED SERUM COMPLEMENT AND COMPLEMENT REGULATORY PROTEIN ACTIVATION IN INDIVIDUALS WITH COINCIDENT TYPE 2 DIABETES**
Anuradha Rajamanickam1, Bindu Dasan1, Saravanar Munisankar1, Pradeep Aravindan Menon1, Fazyah Ahamed Shaik1, Ponnuraja Chinnaiyan2, Thomas B. Nutman1, Subash Babu3
1NIRT-ICER, Chennai, India, 2National Institute for Research in Tuberculosis, Chennai, India, 3Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

**6374**
**EVALUATION OF TUBERCULOSIS TREATMENT OUTCOME AND THEIR PREDICTORS IN PUBLIC AND PRIVATE HEALTH INSTITUTIONS, SOUTHEAST, NIGERIA; AN IMPLICATION FOR POLICY IMPLEMENTATION, CLIENT CENTERED EDUCATION AND TREATMENT FOLLOW-UP**
Nelson C. Eze
Federal Ministry of Health, Abuja, Nigeria

**5726**
**MOLECULAR-BASED EVIDENCE OF TRANSMISSION OF ATYPICAL TRYPANOSOMIASIS (A-HAT) IN HUMANS IN SELECTED COMMUNITIES IN THE SUHUM MUNICIPALITY OF GHANA**
Kofi Agyapong Addo
Akenten Appiah-Menka University of Skills Training and Entrepreneurial Development, Kumasi, Ghana
6509
AFTERSHOCK: PERSISTENT INFLAMMATION AND ENDOTHELIAL ACTIVATION IN ADULT SURVIVORS OF DENGUE SHOCK

Angela McBride1, Phan Vinh Tho2, Luong Thi Hue Tai2, Nguyen Thanh Phong2, Nguyen Thanh Ngo3, Duyen Huynh Thi Le1, Nguyen Lam Vuong3, Louise Thwaites4, Martin J Llewelyn5, Nguyen Van Hao3, Sophie Yacoub2
1Brighton and Sussex Medical School, Brighton, United Kingdom, 2Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam, 3University of Medicine and Pharmacy, Ho Chi Minh City, Vietnam, 4University of Medicine and Pharmacy, Ho Chi Minh City, Vietnam

6790
REDUCING LOW BIRTH WEIGHT BY ADDING TWO DOSES OF AZITHROMYCIN TO THE INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANCY WITH SULFADOXINE PYRIMETHAMIN: A RANDOMIZED CONTROLLED TRIAL IN BURKINA FASO

Moussa Lingani1, Serre Henri Zango1, Innocent Valea1, Sékou Samadoulyougou2, Michèle Dramai3, Halidou Tinto1, Philippe Donnen2, Annie Robert1
1Institut de Recherche en Sciences de la Santé/Direction Régionale du Centre Ouest (IRSS/DRCO), Nanoro, Burkina Faso, 2Evaluation Platform on Obesity Prevention, Quebec Heart and Lung Institute Research Centre, Quebec City, QC G1V 4G5, Quebec, QC, Canada, 3Faculty of Medicine, University of Ouagadougou, Ouagadougou, Burkina Faso

5424
DYNAMICS OF SUBMICROSCOPIC MALARIA INFECTION IN SOUTHERN BENIN

Akpeyedje Yannelle Dossou
Institut de Recherche Clinique du BENIN, Abomey-Calavi, Benin

5439
GENETIC DIVERSITY OF PLASMODIUM FALCIPARUM AND GENETIC PROFILE IN CHILDREN WITH ACUTE UNCOMPlicated MALARIA IN CAMEROON

Theresia Njuabe Metoh1, Jun-Hu Chen2, Philip Fongah3, Xia Zhou4, Roger Somo-Moyou5, XiaoNong Zhou3
1University of Bamenda, Bamenda, Cameroon, 2NIPO CDC, Shanghai, China, 3IFCT Enschede, University of Twente, Hengelostraat 99, 7514 AE Enschede, Hengelostraat, Netherlands, 4National Institute of Parasitic Diseases, Chinese Centre for Disease Control and Prevention, Shanghai 200025, People's Republic of China, 5National Institute of Parasitic Diseases (NIPO-CDC, China, 1University of Yaounde I, Yaounde, Cameroon, 2National Institute of Parasitic Diseases, Chinese Centre for Disease Control and Prevention, Shanghai 200025, People's Republic of China, Shanghai, China

5488
IMPACT OF KNOWLEDGE, ATTITUDES, AND PRACTICES REGARDING LONG-LASTING IMPREGNATED NETS ON THE PREVALENCE OF MALARIA INFECTION AMONG CHILDREN UNDER 5 YEARS OF AGE IN THE DODJI-BATA DISTRICT OF SOUTHERN BENIN

Tchekhoundje Benjamin Sena
clinical research institute of Benin, Abomey-calavi, Benin

6795
INVESTIGATING THE ACCURACY OF MALARIA DIAGNOSTIC TESTS: A BAYESIAN META-ANALYSIS COMPARING CONVENTIONAL AND ULTRASENSITIVE RAPID DIAGNOSTIC TOOLS

Muhammed Elfaituri, Taha Khaled
University of Tripoli, Tripoli, Libyan Arab Jamahiriya

6075
EXTERNAL VALIDATION OF THE WORLD HEALTH ORGANIZATION INTEGRATED MANAGEMENT OF CHILDHOOD ILLNESS (IMCI) PROTOCOL FOR MALARIA TESTING IN LOW MALARIA RISK AREAS

Nadia Cattaneo1, Alexandra V. Kulinkina2, Chacha Mangui2, Victor P. Rwandarwacu3, Ludovico Cobucci1, Lameck Luwanda5, Godfrey Kavishe3, Sabine Renggli1, Geoffrey I. Ashery1, Magreth Adje1, Ibrahim E. Metebene1, Peter Agrea1, Humphrey Mhagama4, Joseph Habakurama1, Antoinette Makuza Saff3, Jonathan Niyonzima1, Emmanuel Kalisa1, Angelique Ingabire1, Cassien Havugimana1, Gilbert Rukundo3, Honorati Masanja1, Nyanda E. Ntinginya3, Valérie D'Acrescent1, Rainer Tan1
1Center for Primary Care and Public Health (Unisanté), Lausanne, Switzerland, 2Swiss Tropical and Public Health Institute, Allschwil, Switzerland, 3National Institute of Medical Research – Mbeya Medical Research Center, Mbeya, United Republic of Tanzania, 4Swiss Tropical and Public Health Institute, Kigali, Rwanda, 5Infectious Health Institute, Dar es Salaam, United Republic of Tanzania

7137
SEROLOGIC RESPONSE USING ELISA ANTI-VI IGG ANTIBODIES AT SEVERAL TIME POINTS FOLLOWING IMMUNIZATION WITH TYPBAR-TCV AMONG HIV INFECTED CHILDREN IN KARACHI PAKISTAN

Zoya Haq1, Farah Qamar2, Sonia Qureshi3, Fatima Mir3, Mohammad Tahir Yousafzai3, Rabab Batool2
1National Institute of Medical Research – Mbeya Medical Research Center, Mbeya, United Republic of Tanzania, 2Hospital for Tropical Diseases (NIPD-CDC, China, 3National Institute of Parasitic Diseases (NIPD-CDC, China, 1University of Yaounde I, Yaounde, Cameroon, 2National Institute of Parasitic Diseases, Chinese Centre for Disease Control and Prevention, Shanghai 200025, People's Republic of China, Shanghai, China
American Committee on Arthropod-Borne and Zoonotic Viruses (ACAV) SIE Subcommittee Meeting

Atlanta - Ballroom Level (West Tower)
Wednesday, October 18, 11 a.m. - Noon U.S. Central Time Zone

Speaker Ready Room

Grand Suite 2AB - Ballroom Level (East Tower)
Wednesday, October 18, Noon - 5 p.m. U.S. Central Time Zone

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) Mentor/Trainee Lunch Kick-Off Panel

Crystal Ballroom C - Lobby Level (West Tower)
Wednesday, October 18, Noon-1:30 p.m. U.S. Central Time Zone

An introduction to the experts, their fields, and a quick discussion of suggested topics to get experts and trainees in the mentoring mindset for their one-on-two Mentor/Mentee lunch. By invitation only.

Press Room

Randolph 1A - Concourse Level (East Tower)
Wednesday, October 18, Noon-5 p.m. U.S. Central Time Zone

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

Atlanta - Ballroom Level (West Tower)
Wednesday, October 18, Noon-2 p.m. U.S. Central Time Zone

Point-of-Entry: First-Time Attendee Orientation

Crystal Ballroom A - Lobby Level (West Tower)
Wednesday, October 18, 1 p.m. - 2 p.m. U.S. Central Time Zone

Are you new to the ASTMH Annual Meeting and want to get the lay of the land? Don’t miss our Point of Entry session. ASTMH Board Member Desiree LaBeaud will orient new attendees to the schedule, session structure and highlights of the Annual Meeting. Meet others attending the conference for the first time and expand your professional network while learning the ins and outs of the meeting.

Point of Entry: First-Time Attendee Orientation

Desiree LaBeaud
Stanford University, Stanford, CA, United States

Workshop

Malaria No More/Forecasting Healthy Futures/ACGH - Climate Fresk: Empowerment in Action. A Workshop to Understand the Physics, Causes and Consequences of Climate Change

Michigan 1A - Concourse Level (East Tower)
Wednesday, October 18, 1 p.m. - 4 p.m. U.S. Central Time Zone

In partnership with the ASTMH Committee on Global Health (ACGH), Forecasting Healthy Futures, an initiative of Malaria No More, plans to host a Climate Fresk workshop as a part of a climate-health series of events for ASTMH. Through the workshop, we aim to:

1) Offer a collaborative learning experience for ACGH members and the larger ASTMH community to understand the science, causes, and consequences of climate change, based on the IPCC reports.

2) Encourage participants to engage with climate change by identifying strategic linkages to their existing body of work, and

3) Increase awareness of potential climate-health solutions that participants can incorporate into their specific work in infectious/tropical disease or health in general.

More generally, we hope this workshop will help to make ACGH the voice of climate change and health within ASTMH, and to generate momentum for future climate change and health activities within ASTMH.

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

Atlanta - Ballroom Level (West Tower)
Wednesday, October 18, 2 p.m. - 3:30 p.m. U.S. Central Time Zone

Workshop

Biological Threat Reduction Program - Supporting Global Health Engagement Biosafety and Biosecurity Goals through Cooperative Biosurveillance Studies

Acapulco - Ballroom Level (West Tower)
Wednesday, October 18, 2 p.m. - 4 p.m. U.S. Central Time Zone

Come out and learn how you can be a part of the BTRP mission to help strengthen capabilities of partner nations and the international community to prevent, detect, and prepare for outbreaks caused by biological pathogens through efforts focused on improving biosurveillance to support early and accurate warning of biological threats and reporting of incidents to appropriate national, regional, and international bodies.
Workshop

Writing for Publication and Discovery: Best Practice for Manuscript Writing and Open Science

Grand Hall K/L - Ballroom Level (East Tower)
Wednesday, October 18, 2 p.m. – 4 p.m. U.S. Central Time Zone

PLOS Neglected Tropical Diseases presents a writing workshop to equip and support early-career researchers and re-searchers from disease-endemic regions in understanding the publication process and best practices for manuscript writing. The session will address framing your research and choosing a journal, mapping out your paper, abstracts, the mechanics of writing, how to properly respond to reviewer comments, and best practices for data sharing and Open Science. The panel of presenters will feature PLOS Editors-in-Chief, and this workshop is designed to give attendees the opportunity to tailor the end of the session with an Editor Q&A.

Young Investigator Award Committee Meeting

Regency Ballroom A (West Tower)
Wednesday, October 18, 2 p.m. - 3:30 p.m. U.S. Central Time Zone

Student Reception

Crystal Ballroom C - Lobby Level (West Tower)
Wednesday, October 18, 2:30 p.m. - 3:30 p.m. U.S. Central Time Zone

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

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

Atlanta - Ballroom Level (West Tower)
Wednesday, October 18, 3:30 p.m. - 5:30 p.m. U.S. Central Time Zone

American Committee on Global Health (ACGH) Council Meeting

Columbian - Concourse Level (West Tower)
Wednesday, October 18, 4:00 p.m. - 5:30 p.m. U.S. Central Time Zone

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

McCormick - Third Floor (West Tower)
Wednesday, October 18, 3:30 p.m. - 5:30 p.m. U.S. Central Time Zone

American Committee of Medical Entomology (ACME) Council Meeting

DuSable- Third Floor (West Tower)
Wednesday, October 18, 3 p.m. - 4 p.m. U.S. Central Time Zone

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

Gold Coast - Concourse Level (West Tower)
Wednesday, October 18, 3:30 p.m. - 5:30 p.m. U.S. Central Time Zone

Plenary Session 1

Plenary Session I: Opening Session and Awards Program

Grand Ballroom - Ballroom Level (East Tower)
Wednesday, October 18, 5:30 p.m. - 7 p.m. U.S. Central Time Zone

This session does not carry CME credit.

CHAIR
Daniel G. Bausch
FIND, Geneva, Switzerland

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

5:45 p.m.
HIV/AIDS AND COVID-19 PANDEMICS: IMPLICATIONS FOR GLOBAL HEALTH SECURITY

Ambassador Dr. John N. Nkengasong
U.S. Global AIDS Coordinator and Special Representative for Global Health Diplomacy
The United States President’s Emergency Plan for AIDS Relief
Washington, DC, United States

Dr. John N. Nkengasong was selected to lead the new U.S. Bureau of Global Heath Security and Diplomacy that was launched August 1. The Bureau's mission is to fortify global health and help prevent, detect, control and respond to infectious diseases, including HIV/AIDS, through international cooperation. Dr. Nkengasong serves as Ambassador-at-Large, U.S. Global AIDS Coordinator, and Senior
Bureau Official for Global Health Security and Diplomacy, reporting directly to U.S. Secretary of State Antony Blinken.

Prior to this role, he was the first Director of Africa CDC. He has received numerous prestigious awards and recognitions, and has authored or co-authored over 250 peer-reviewed papers and book chapters in professional journals.

PEPFAR is the largest commitment by any nation to address a single disease in history, preventing millions of HIV infections, saving lives and making progress toward ending the HIV/AIDS pandemic.

Through Dr. Nkengasong’s leadership, a framework for transforming Africa CDC into a full autonomous health agency of the Africa Union was established. He also led the COVID-19 response in Africa, coordinating with heads of state and governments across the continent, among other achievements, to fight the COVID-19 pandemic and helped secure 400 million doses of COVID-19 vaccines at the height of vaccine scarcity. Dr. Nkengasong also served as acting deputy principal director of the Center for Global Health, as well as the Division of Global HIV and TB’s chief of the International Laboratory Branch at the U.S. Centers for Disease Control and Prevention.

As a world-renowned public health leader, Dr. Nkengasong’s contributions to global health have been recognized by numerous prestigious awards and honors including the Bill & Melinda Gates Foundation, 2020 Global Goalkeeper Award; Time Magazine, 2021 Time 100 List of Most Influential People; Fortune magazine, 2021 World’s 50 Greatest Leaders; Bloomberg, 2021 Bloomberg 50 Influential People; and U.S. Centers for Disease Control and Prevention, Shepard Award and William Watson Medal of Excellence. In 2022, he was invited to join the National Academy of Medicine and he became the first laureate of the Virchow Prize for Global Health. Dr. Nkengasong also holds the rare honor of being knighted by the governments of Sénégal, Côte d’Ivoire, and Cameroon.

6:15 p.m.
AWARDS PROGRAM
Daniel G. Bausch
FIND, Geneva, Switzerland

Recognition of ASTMH/BMGF Annual Meeting Travel Awards
Recognition of Burroughs Wellcome Fund - ASTMH Postdoctoral Fellowship in Tropical Infectious Diseases

Donald Krogstad Award for Early-Career Malian Scientists
Moussa Sangare
University of Sciences, Techniques, and Technology of Bamako, Mali

Recognition of Young Investigator Awards

Recognition of ACCTMTH (Clinical Group) Clinical Research Award

Recognition of ASTMH Fellowship and Grant Recipients

Recognition of 2023 Fellows of ASTMH (FASTMH)
Recognition of ASTMH Distinguished International Fellows (FASTMH)

Subash Babu
NIAID-ICER, India

Alan Cowman
Walter & Eliza Hall Institute of Medical Research, Australia

Patricia Graves
James Cook University, Australia

Jennifer Keiser
Swiss Tropical & Public Health Institute, Switzerland

Marcelo Labruna
Universidade de São Paulo, Brazil

Maria Anice Sallum
Universidade de São Paulo, Brazil

Eli Schwartz
Center for Geographic Medicine Tropical Disease, Israel

Mauro Teixeira
Universidade Federal de Minas Gerais, Brazil

Alan J. Magill Fellow
Issiaka Soulama
Institut de Recherche en Sciences de la Santé (IRSS), Burkina Faso
Subgroup Medals and Awards

Harry Hoogstraal Medal (ACME)
Jose Ribeiro
National Institute of Allergy and Infectious Diseases, United States

William Trager Award For Basic Parasitology (ACMCIP)
Jonathan Marchant
Medical College of Wisconsin, United States

Dalrymple-Young (ACAV)
Nikos Vasilakis
University of Texas Medical Branch, United States

Society-Level Medals and Awards

Communications Award
“Small Victories: Nearly 30 years after apartheid’s demise, a reporter revisits children’s health in South Africa”
Meredith Wadman
Science

Bailey K. Ashford Medal
Andrea L. Conroy
Indiana University, United States
Manoj Theodore Duraisingh
Harvard T. H. Chan School of Public Health, United States
Philippe J. Guérin
University of Oxford, United Kingdom
Matt Laurens
University of Maryland School of Medicine, United States

Clara Southmayd Ludlow Medal
Dyann Wirth
Harvard T. H. Chan School of Public Health, United States

Donald Mackay Medal
Maria Friedly
WHO, Congo

Walter Reed Medal
Charles H. Calisher
Colorado State University, United States

Opening Reception
Riverside Center - Exhibit Level (East Tower)
Wednesday, October 18, 7 p.m. - 9:30 p.m. U.S. Central Time Zone

Exhibit Hall Open
Riverside Center - Exhibit Level (East Tower)
Wednesday, October 18, 7 p.m. - 9:30 p.m. U.S. Central Time Zone
Thursday, October 19

Registration

Grand Ballroom Foyer - Ballroom Level (East Tower)
Thursday, October 19, 7 a.m. - 5 p.m. U.S. Central Time Zone

Speaker Ready Room (Closed 11 a.m. - Noon)

Grand Suite 2AB - Ballroom Level (East Tower)
Thursday, October 19, 7 a.m. - 5 p.m. U.S. Central Time Zone

Meeting Sign-Up Room

Horner and Ogden - Third Floor (West Tower)
Thursday, October 19, 7 a.m. - 7 p.m. U.S. Central Time Zone

TropStop - Student/Trainee Lounge

Grand Hall MN – Ballroom Level (East Tower)
Thursday, October 19, 7 a.m. - 5 p.m. U.S. Central Time Zone

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.

Prayer Room

Hong Kong - Ballroom Level (West Tower) and Field - Third Floor (West Tower)
Thursday, October 19, 7 a.m. - 7 p.m. U.S. Central Time Zone

Nursing Mothers Room

Grand Suite 1 and Grand Suite 4 - Ballroom Level (East Tower)
Thursday, October 19, 7 a.m. - 7 p.m. U.S. Central Time Zone

Diploma Course Directors Meeting

Wright - Third Floor (West Tower)
Thursday, October 19, 7 a.m. - 8 a.m. U.S. Central Time Zone

International Membership Committee Meeting

Haymarket - Concourse Level (West Tower)
Thursday, October 19, 7 a.m. - 8 a.m. U.S. Central Time Zone

AJTMH Editorial Board Meeting

McCormick - Third Floor (West Tower)
Thursday, October 19, 7 a.m. - 8 a.m. U.S. Central Time Zone

Centennial Travel Award Committee Meeting

DuSable - Third Floor (West Tower)
Thursday, October 19, 7 a.m. - 8 a.m. U.S. Central Time Zone

Special Session 1A

A Conversation about NIH Pre-Clinical Services

Grand Hall J - Ballroom Level (East Tower)
Thursday, October 19, 7:00 a.m. - 7:30 a.m. U.S. Central Time Zone

The purpose of this conversation is to learn more about the NIH pre-clinical contractual services offered to scientists. Join us and meet other larger collaborative grant holders (CREID network, ICMR, TMRC, etc.) that attend ASTMH but may not normally be in the sessions you attend.

CHAIR

Christine Petersen
University of Iowa, Iowa City, IA, United States

NIH PRE-CLINICAL SERVICES

John Pesce
NIH, Bethesda, MD, United States

Press Room

Randolph 1A - Concourse Level (East Tower)
Thursday, October 19, 7:45 a.m. - 5 p.m. U.S. Central Time Zone

Symposium 2

How the Pandemic Pushed the Paradigm to Elevate the Voice of Health Care Providers in Public Health Problem-Solving

Grand Ballroom A - Ballroom Level (East Tower)
Thursday, October 19, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

The COVID pandemic interrupted our typical ways of working. With the ability to meet, work and learn in-person suspended, new approaches were needed to maintain progress in public health programs. This presented an opportunity to push the paradigm for public health training, resulting in new and creative ways to engage health care providers at all levels, bringing in new voices and perspectives across the health care spectrum. This session will explore some of these experiments and their potential to change the paradigm of training and engagement in global health and public health problem solving. Historically, formal, in-service training has been hierarchical, often relying on male physicians from international organizations or the national level of a country to define learning needs and methods for sub-national staff and health workers on the front lines. However, an estimated 70% of health care workers are female and many at the community level are nurses, aides or volunteers rather than physicians. Their voices and experience are seldom included in training or problem-solving for new solutions. Most significant learning that contributes to improved performance takes place outside of formal training but occurs through informal and incidental forms of learning between
peers. However, the most prevalent pedagogies have ignored such learning and been limited to training focused on knowledge transmission from teacher (knowledge holder) to student (knowledge recipient) hierarchies, underestimating the capacity of health care workers to create knowledge and undervaluing the educational value of their voices and experiences. New approaches are needed to tackle increasingly complex, globally interconnected challenges. Transformation requires realizing how much we can learn from each other (peer learning), experiencing the power of defying distance to solve problems together (remote learning), and feeling a growing sense of belonging to a community (social learning), emergent across country borders and health system levels (networked learning). This session invites you to learn from practical approaches and interventions that are forging new paths away from traditional, knowledge-transfer to intrinsically - motivated, participatory peer learning that builds on the direct experience and local contexts of health practitioners and volunteers and strengthens global capacity to support local transformation.

**CHAIR**
Julie Jacobson
Bridges to Development, Vashon, WA, United States
Reda Sadki
The Geneva Learning Foundation, Geneva, Switzerland

**8 a.m.**
**INTRODUCTION**

**8:10 a.m.**
**PEER LEARNING FOR GLOBAL HEALTH: WHY AND LEARNING SCIENCE WHAT UNDERPINS IT**
Reda Sadki
The Geneva Learning Foundation, Geneva, Switzerland

**8:30 a.m.**
**ENGAGING NEW VOICES AND EMPOWERING LOCAL PROBLEM SOLVING: CASE STUDY 1; IMMUNIZATION**
Maria Fernanda Monzón
Ministry of Health, Corrientes, Argentina

**8:45 a.m.**
**ENGAGING NEW VOICES AND EMPOWERING LOCAL PROBLEM SOLVING: CASE STUDY 2 FEMALE GENITAL SCHISTOSOMIASIS**
Ruth Aliotey
Ministry of Health, Accra, Ghana

**9 a.m.**
**ENGAGING NEW VOICES AND EMPOWERING LOCAL PROBLEM SOLVING: CASE STUDY 3; INTEGRATED SKIN DISEASE TRAINING**
George Taleo
Consultant, Port Vila, Vanuatu

**9:15 a.m.**
**A NEW PARADIGM FOR EQUITABLE AND INCLUSIVE LEARNING IN PUBLIC HEALTH**
Alan Brooks
Bridges to Development, Geneva, Switzerland

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**Scientific Session 3**

**Malaria - Elimination**

**Grand Ballroom B - Ballroom Level (East Tower)**

**Thursday, October 19, 8 a.m. - 9:45 a.m. U.S. Central Time Zone**

**CHAIR**
Karl Seydel
Michigan State University, East Lansing, MI, United States

Siv Sovannaroth
National Center for Parasitology, Entomology and Malaria Control, Phnom Penh, Cambodia

**8 a.m.**
**5000**
**SMALL-SCALE RELEASE OF NON-GENE DRIVE MOSQUITOES IN BURKINA FASO: FROM ENGAGEMENT IMPLEMENTATION TO ASSESSMENT, A LEARNING JOURNEY**
Lea Pare Toe1, Nourou Barry1, Anselme D. Ky1, Souleymane Kekele1, Wilfrid Medahi1, Korotimi Bayala1, Mouhamed Drabo1, Delphine Thzy1, Abdoulaye Diabate1
1 Institut de recherche en sciences de la santé (IRSS/UNB), Bobo Dioulasso, Burkina Faso, 2Department of Life Sciences, Imperial College London, London, UK, Bobo Dioulasso, Burkina Faso

**8:15 a.m.**
**5001**
**ACCELERATING MALARIA ELIMINATION IN CAMBODIA: ANALYSIS OF IMPACT OF THE “LAST MILE” INTENSIFICATION PLAN**
Siv Sovannaroth1, Chawarat Rotejanaprasert1, Pengby Ngor2, Anchalee Jatapai2, Richard J. Maude2
1 National Center for Parasitology, Entomology and Malaria Control, Phnom Penh, Cambodia, 2 Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

**8:30 a.m.**
**5002**
**MALARIA TREND AND IDENTIFICATION OF RISK GROUPS IN AN ELIMINATION SETTING, 2019-2022**
Safia Mohammed1, Majda Hassan1, Bimukwba Khamis1, Bakar Mohammed1, Shija J. Shija1, Mohamed Haji1, Humphrey Mikali1, Saidi Mgata2, Stella Makwaruzi2, Michael Gulaka2, Nicodemus Govella1, Sigisbert Mkude1, Erik Reaves2, Naomi Serbantez1, Chonge Kitojo2, Geoffrey Makenga2, Isobel Routledge3, Roly Gosling3
1 Zanzibar Malaria Elimination Program, Ministry of Health, Zanzibar, United Republic of Tanzania, 2 Dhibiti Malaria project, Population Services International, Dar es Salaam, United Republic of Tanzania, 3 U.S. President’s Malaria Initiative, U.S. Centers for Disease Control and Prevention, Dar es Salaam, United Republic of Tanzania, 4 U.S. President’s Malaria Initiative, U.S. Agency for International Development, Dar es Salaam, United Republic of Tanzania, 5 PMI Insights Project, Malaria Elimination Initiative, University of California San Francisco, California, CA, United States

**8:45 a.m.**
**5003**
**EFFECTIVENESS OF THE EXPANDED ROLE OF COMMUNITY HEALTH WORKERS IN MALARIA ELIMINATION IN MYANMAR: AN OPEN STEPPED-WEDGE CLUSTER-RANDOMISED CONTROLLED TRIAL**
Win Han Oo1, Win Htike1, May Chan Oo1, Ei Phyu Htwe1, Aung Khine Zaw1, Kaung Myat Thu1, Naw Hkawng Galau1, Julia C. Cutts1, Nilay Aye Tun1, Nick Scott2, Katherine O’Flaherty2, Paul A. Agius2, Freya JI Fowkes2
1 Burnet Institute, Yangon, Myanmar, 2 Burnet Institute, Melbourne, Australia, 3 Deakin University, Melbourne, Australia
MALARIA CASE-BASED SURVEILLANCE FOR THE INTERRUPTION OF LOCAL MALARIA TRANSMISSION IN TANZANIA MAINLAND

Elizabeth kasagama1, Khalfia Munisi2, Denis Kailenbo1, Fabricio Molteni3, Noela Kisoka1, Pai Chambongo4, Christian Lengeler5, Samwel Lazaro6, Sijenunu Aron7
1SWISS TPH, Dar es Salaam, United Republic of Tanzania, 2NMCP, Dodoma, United Republic of Tanzania, 3SWISS TPH, Swiss Tropical and Public Health Institute, Basel, Switzerland

9:15 a.m.

ENHANCED ACTIVE CASE DETECTION TO ELIMINATE MALARIA IN YALA PROVINCE, THAILAND

Suravadee Kitchakarn1, Sathapana Naowarat2, Prayuth Sudathip3, Pratin Dharmarak4, Deyer Gopinath5, Hope Simpson6, Rungrawee Tipmontree7, Chantana Padungtd8, Donal Bisanzo9, Niparueradee Pinjajierapat10, David Sintasathath11, Jui A. Shah12
1Division of Vector Borne Diseases, Department of Disease Control, Ministry of Public Health, Nonthaburi, Thailand, 2Inform Asia/USAID’s Health Research Program, RTI International, Bangkok, Thailand, 3Independent consultant, Bangkok, Thailand, 4World Health Organization, Nonthaburi, Thailand, 5London School of Hygiene & Tropical Medicine, London, United Kingdom, 6U.S. President’s Malaria Initiative, United States Agency for International Development (USAID), Regional Development Mission for Asia, Bangkok, Thailand

9:30 a.m.

A PROGRAM EVALUATION OF REACTIVE FOCAL DRUG ADMINISTRATION IN NORTHERN SENEGAL

Ellen Ferriss1, Caterina Guinovart2, yakou Dieye3, Moustapha Cisse4, Abiboulaye Sall5, Tidiane Thiam6, Adam Bennett7
1PATH, Seattle, WA, United States, 2PATH, Barcelona Institute for Global Health, Barcelona, Spain, 3PATH, Dakar, Senegal

Global Health: Maternal Health, Community Health and Non-Communicable Diseases

Grand Hall J - Ballroom Level (East Tower)
Thursday, October 19, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR
Mamadou O. Diallo
Centers for Disease Control and Prevention, Atlanta, GA, United States
Andrea Buchwald
University of Maryland School of Medicine, Baltimore, MD, United States

8 a.m.

PREGNANT WOMEN EXCLUSION IN CLINICAL TRIALS FOR MALARIA, TUBERCULOSIS, AND COVID-19: A REVIEW OF TRIAL REGISTRY DATA

Elias Rejoice Maynard Phiri1, Claudia Emerson2, Lizzie Divala3, Aaron Roberts3, Lufina Tsirizani-Galiyeva4, Randy George Mungririra5, Titus Divala6
1Malawi-Liverpool-Wellcome Programme, Blantyre, Malawi, 2MacMaster University, Hamilton, ON, Canada, 3Glasgow University, Glasgow, United Kingdom, 4University of Cape Town, Cape Town, South Africa, 5World Health Organization, Tunis, Italy, 6Wellcome Trust, London, United Kingdom

8:15 a.m.

NODDING SYNDROME CLINICAL CHARACTERISTICS, RISKS FACTORS, ACCESS TO TREATMENT, AND PERCEPTIONS IN THE GREATER MUNDRI AREA, SOUTH SUDAN

Gasim Abd-Elfarag1, Jake Mathewson2, Lukudu Emmanuel3, Arthur Edridge4, Stella van Beers5, Mohamed Sebit6, Robert Colebunders7, Michael van Hensbroek8, Ente Rood9
1Access for Humanity, Juba, South Sudan, 2KIT-Royal Tropical Institute, Amsterdam, Netherlands, 3Amsterdam Center for Global Health, Department of Pediatrics and Department of Global Health, Amsterdam, Netherlands, 4University of Juba, Juba, South Sudan, 5Global Health Institute, University of Antwerp, Antwerp, Belgium

8:30 a.m.

DIABETES-ASSOCIATED MAJOR LIMB AMPUTATION IN SOLOMON ISLANDS: EPIDEMIOLOGICAL CHARACTERISTICS AND CLINICAL MANAGEMENT

Dylan Bush1, Thomas Fitzpatrick2, Adrian Garcia Hernandez3, Rooney Jagilly4, Eileen Natuzzi5, Mickey Olangi6, Mark Love7, Jones Ghabi8, Hugo Bugoro9, Alexandria Martiniuk10
1Solomon Islands Ministry of Health and Medical Services, Honiara, Solomon Islands, 2Australian Volunteers International, Melbourne, Australia, 3Columbia University, New York City, NY, United States, 4Solomon Islands National Referral Hospital, Honiara, Solomon Islands, 5Georgetown Center for Australian, New Zealand & Pacific Studies, Georgetown, DC, United States, 6Kilu’ufi Hospital, Auki, Solomon Islands, 7Griffith University, Brisbane, Australia, 8Solomon Islands National University, Honiara, Solomon Islands, 9University of Sydney School of Public Health, Sydney, Australia

8:45 a.m.

LEVERAGING PARTICIPATORY MAPPING AND FINE-SCALE GEOSPATIAL ANALYSES TO OPTIMIZE COMMUNITY-BASED HEALTHCARE PROGRAMS AND POLICIES

Felana A. Ihantamalala1, Vincent Herbretou2, Christophe Revillion3, Lucas Longourd4, Michelle V. Evans5, Mauricianot Randriamihaja6, Laura F. Cordier7, Benedicte Razafinjato8, Luc Rakotonirina9, Isaie Jules Andriamianandra10, Karen E. Finnegan11, Matthew H. Bonds12, Andres Garchitorena13
1ONG Pivot, Ranomafana, Madagascar, 2Institut de Recherche pour le Developpement, Montpellier, France, 3Université de La Réunion, La Réunion, France, 4Ministry of Public Health, Antananarivo, Madagascar, 5Harvard Medical School, Boston, MA, United States

9 a.m.

WHO IS MISSED IN A COMMUNITY-BASED SURVEY: DIFFERENCES IN SOCIO-DEMOGRAPHIC CHARACTERISTICS AND HEALTHCARE SEEKING AMONG MISSED AND SAMPLED INDIVIDUALS FOR A SEROSURVEY IN ZAMBIA AND IMPLICATIONS FOR BIASED ESTIMATES OF HEALTHCARE SEEKING, VACCINATION COVERAGE, AND SEROPREVALENCE

1Johns Hopkins University, Baltimore, MD, United States, 2Directorate of Public Health and Research, Ministry of Health, Lusaka, Zambia, 3Zambia Statistics Agency, Lusaka, Zambia, 4Tropical Diseases Research Centre, Ndola, Zambia, 5Macha Research Trust, Macha, Zambia, 6University of Georgia, Athens, GA, United States
THE EFFECT OF COMMUNITY-BASED PACKAGE OF INTERVENTIONS ON IMPROVING INSTITUTIONAL DELIVERY CARE SERVICES UTILIZATION IN ARBA MINCH HDSS, SOUTHERN ETHIOPIA: A CLUSTER-RANDOMIZED CONTROLLED TRIAL

Mekdes Kondale Gurara1, Veerle Draulans2, Jean-Pierre Van geertruyden2, Yves Jacquemyn2
1Arba Minch University, Arba Minch, Ethiopia, 2KU Leuven, Leuven, Belgium

9:30 a.m. 5013

IMPACT OF A MOBILE OBSTETRIC REFERRAL EMERGENCY SYSTEM (MORIES) ON REDUCING CARE DELAYS IN RURAL LIBERIA

Christopher Reynolds1, Nancy Lockhart1, Joseph Sieka1, Clare Edson2, Aloysius Nyanplu3, Jody Lori1
1University of Michigan, Ann Arbor, MI, United States, 2University of Liberia, Monrovia, Liberia, 3Bong County Health Team, Gbanga, Liberia

9:45 a.m. 5016

MULTIPLEX MICROFLUIDIC CARTRIDGE ‘MICROLAMP’ FOR MALARIA DETECTION AND SPECIFICATION

Hitendra Kumar, Nabil Royez, Jack Burke-Gaffney, Keekyoung Kim, Dylan R. Pillai1
University of Calgary, Calgary, AB, Canada

8:30 a.m. 6791

PRECLINICAL PERFORMANCE AND USABILITY EVALUATION OF A NEW POINT-OF-CARE TEST FOR GLUCOSE-6-PRECLINICAL PERFORMANCE AND USABILITY EVALUATION OF A NEW POINT-OF-CARE TEST FOR GLUCOSE-6-PHOSPHATE DEHYDROPENTASE DEFICIENCYPHOSPHATE DEHYDROPENTASE DEFICIENCY

Rebecca K. Green1, Gornpan Gornsawun1, Paw Khu Moo2, Chanikan Thipwong2, Stephanie Zobrist1, Laypaw Archasukan1, Huyen Nguyen1, Huong Nguyen1, Cindy S. Chua, Emily Geth-Guyette, Podjane Jittamala1, Francois Nosten4, Sampa Pal1, Gonzalo J. Domingo2, Germana Bancone4
1PATH, Diagnostics, Seattle, WA, United States, 2Shoklo Malaria Research Unit, Mahidol-Oxford Tropical Medicine Research Unit, Mahidol University, Mae Sot, Thailand, 3PATH, Oxford Tropical Medicine Research Unit, Mahidol University, 4Center for Global Health Research, Kisumu, Kenya

9:30 a.m. 5018

NEW THYMIDINE KINASE-INDEPENDENT CLICK CHEMISTRY DNA DETECT™ PROBES FOR ASSESSMENT OF DNA PROLIFERATION IN MALARIA PARASITES

David H. Hilkio, Gillian M. Fisher, Katherine Andrews, Sally-An Poulsen
Griffith University, Nathan, Australia

9:15 a.m. 5019

USE OF MINIMALLY INVASIVE TISSUE SAMPLING (MITS) TO DETERMINE THE CONTRIBUTION OF MALARIA INFECTIONS TO MORTALITY IN CHILDREN UNDER 5 YEARS OF AGE IN THE CHAMPS NETWORK

Ikechukwu U. Ogbanu1, Kephas Otieno1, Rosaura Varro2, Zachary Madewell1, Beth A. Tippett3, Inacio Mandomando4, Dianna M. Blau5, Cynthia G. Whitney5, Aaron M. Samuels6, Quique Bassat7
1Crown Agents in Sierra Leone, Freetown, Sierra Leone, 2Kenya Medical Research Institute, Centre for Global Health Research, Kisu, Kenia, 3I4Global, Barcelona, Spain, 4Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States, 5Nyanja Health Research Institute, Salima, Malawi, 6Center de Investigacao em Saude de Manhiça, Manhiça, Mozambique, 7Emory Global Health Institute, Emory University, Atlanta, GA, United States

8:30 a.m. 5017

ACTIVE CASE DETECTION AND TREATMENT OF MALARIA IN PREGNANCY USING LAMP TECHNOLOGY (LAMPREG): A PRAGMATIC RANDOMIZED DIAGNOSTIC OUTCOMES TRIAL

Rediet Fikru1, Claire Kamaliddin2, Filmona Menyaev3, Betelhem Solomon1, Banchamlak Tegegne4, Delenasaw Yewhalaw4, Mekonnen Feleke2, Abebe G. Bayih5, Dylan R. Pillai5
1Armauer Hansen Research Institute, Addis Ababa, Ethiopia, 2University of Calgary, Calgary, AB, Canada, 3University of Western Australia, Perth, Australia

8:45 a.m. 5017

ACTIVE CASE DETECTION AND TREATMENT OF MALARIA IN PREGNANCY USING LAMP TECHNOLOGY (LAMPREG): A PRAGMATIC RANDOMIZED DIAGNOSTIC OUTCOMES TRIAL

Rediet Fikru1, Claire Kamaliddin2, Filmona Menyaev3, Betelhem Solomon1, Banchamlak Tegegne4, Delenasaw Yewhalaw4, Mekonnen Feleke2, Abebe G. Bayih5, Dylan R. Pillai5
1Armauer Hansen Research Institute, Addis Ababa, Ethiopia, 2University of Calgary, Calgary, AB, Canada, 3University of Western Australia, Perth, Australia

9 a.m. 5018

NEW THYMIDINE KINASE-INDEPENDENT CLICK CHEMISTRY DNA DETECT™ PROBES FOR ASSESSMENT OF DNA PROLIFERATION IN MALARIA PARASITES

David H. Hilkio, Gillian M. Fisher, Katherine Andrews, Sally-An Poulsen
Griffith University, Nathan, Australia

(ACMCIP Abstract)
5361

DIAGNOSTIC PERFORMANCE OF NXTEK™ ELIMINATE MALARIA PF TEST FOR THE DETECTION OF PLASMODIUM FALCIPARUM IN SCHOOL CHILDREN WITH ASYMPTOMATIC MALARIA

Abdissa Biruksew Hordofa1, Ashenafi Demekie2, Prof. Zewdie Birhanu1, Esfinanos Kebede1, Lemu Golasa1, Evans M. Mathhebula1, Prof. Delenasaw Yewhalaw1
1Jimma University, Jimma, Ethiopia, 2Minch Health Science College, Arba Minch, Ethiopia, 3Kilili Lemma Institute of Pathobiology, Addis Ababa University, Addis Ababa, Ethiopia, 4University of Pretoria, South Africa, Ethiopia

5023

NATIONAL INSTITUTES OF HEALTH, LABORATORY OF MOLECULAR VECTOR RESEARCH, ROCKVILLE, MD, UNITED STATES, 1University of California, San Francisco, CA, United States

5024

A DIGITAL MICROSCOPE FOR THE DIAGNOSIS OF PLASMODIUM FALCIPARUM PARASITES WITH HRP2 AND HRP3 DELETION AND PLASMODIUM VIVAX

Yaleenwork Ewetu1, Lise Carlier2, Claudia A. Vera Arias2, Jieun Shin3, Chae Yun Baek2, Hyun Cher Youm1, Nega Berhan1, Wossenseged Lemma1, Soyeon Yi2, Cristian Koepfli3, Fitsum Girma Tadesse1
1Amauer Hansen Research Institute, Addis Ababa, Ethiopia, 2University of Notre Dame, South Bend, IN, United States, 3Karolinska Institute, Stockholm, Sweden

8 a.m.

5020

ALTERED IL-7/IL-7R SIGNALING IN CD4+ T CELLS FROM PATIENTS WITH ACTIVE VISCERAL LEISHMANIASIS

Shashi Kumar1, Shashi Bhushan Chauhan1, Shreya Upadhyay2, Siddharth Sankar Singh2, Rajiv Kumar1, Christian Engwerda3, Susanne Nylen4, Shyam Sundar5
1Banaras Hindu University, Varanasi, India, 2George Washington University, Washington, WA, United States, 3University of Massachusetts Chan Medical School, Varanasi, MA, United States, 4QIMR Berghofer Medical Research Institute, Brisbane, Australia, 5Karolinska Institutet, Stockholm, Sweden

8:15 a.m.

5021

DECONSTRUCTING TRANSMISSION OF VISCERAL LEISHMANIASIS THROUGH ANALYSIS OF BLOOD FED SAND FLIES

Patrick Allen Huffcutt1, Khushbu Priyamvada1, Pushkar Dubey2, Joy Bindroo2, Aasgar Ali1, Asahar Alam1, Shalini Singh1, Mohammad Shahnawaz2, Debanjan Patra1, Indranil Sukla1, Aneesh Kumar1, Gaurav Kumar1, Pankaj Kumar1, Shani Pandey1, Claudio Meneses3, Jesus G. Valenzuela4, Sridhar Srikanthiah4, Caryn Bern5, Tiago Donatelli5, Eva Iniguez1, Shaden Kamhawi5
1National Institutes of Health, Laboratory of Molecular Vector Research, Rockville, MD, United States, 2CARE India Solutions for Sustainable Development, Patna, India, 3University of California, San Francisco, CA, United States

(ACMCI Abstract)

8:30 a.m.

5022

NEUTROPHILS IN PATHOGENESIS OF POST KALA-AZAR DERMAL LEISHMANIASIS (PKDL), FRIEND OR FOE?

Madhumita Roy
Institute of Post Graduate Medical Education & Research, Kolkata, India

(ACMCI Abstract)

8:45 a.m.

5023

ALTERED PROFILE OF CD4+T CELLS CHEMOKINE RECEPTOR EXPRESSION DURING VISCERAL LEISHMANIASIS

Shreya Upadhyay1, Shashi Kumar1, Shashi Bhushan Chauhan1, Siddharth Sankar Singh2, Susanne Nylen3, Christian Engwerda4, Rajiv Kumar1, Madhukar Rai1, Shyam Sundar5
1Banaras Hindu University, Varanasi, India, 2University of California, San Francisco, CA, United States, 3Karolinska Institutet, Stockholm, Sweden, 4QIMR Berghofer Medical Research Institute, Brisbane, Australia

(ACMCI Abstract)

9 a.m.

5024

A POTENTIAL ROLE FOR ADIPOCYTES IN VISCERAL LEISHMANIASIS

Patrick Kwadwo Nuro-Gyina, Bayan Zhanbolat, Yani Chen, Carter R. Dwyer, Jacilara Alexandra-Conceicao, Aloysius Klingelhutz, Mary Wilson
University of Iowa, Iowa City, IA, United States

(ACMCI Abstract)
Symposium 7

Reaching Indigenous Populations with NTDs Interventions

Grand Hall L - Ballroom Level (East Tower)
Thursday, October 19, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

Preventive chemotherapy (PC) through mass drug administration (MDA) is one of the main interventions endorsed by WHO to eliminate several neglected tropical diseases (NTDs). Many countries have adopted this strategy and made significant progress: 47 countries have declared elimination of at least one NTD by 2022, and several other countries are well on their way to stopping MDA. However, it is well known that the proverbial ‘last mile’ is usually the hardest. To reach NTD elimination goals and to ensure equity, Health Ministries must be able to identify and address the barriers to reaching marginalized populations with MDA, including indigenous communities. Many indigenous populations face a variety of socio-economic barriers, which powerfully shape their access to and acceptance of MDA, with the potential for continued risk of disease. Geographic remoteness, language differences, mobile pastoralism, and distinct social and political identities can result in less contact with or resistance to health services. It is therefore incumbent on health service providers to overcome these barriers, to identify knowledge and skill gaps, and to learn from successes reaching indigenous populations from around the world. This symposium will explore this issue using four case studies that present an analysis of NTD treatment delivery to four different indigenous populations. Each case study will present the related disease epidemiology and social determinants of health, the barriers to access they face, and efforts that have been made to re-design MDA approaches. The case studies will be preceded with an introduction that frames the issues within the scientific literature. The first two cases will look at delivering Trachoma MDA to nomadic Pastoralist populations in East Africa and how barriers to participation were addressed using participatory approaches and supported gaining entry to the communities and empowering communities. The third case focuses on the implementation of Onchocerciasis MDA in Yanomami communities. The fourth case will focus on how trust was built back in ‘custom villages’ in Vanuatu to enable MDA for Yaws following the COVID-19 pandemic. The key theme that runs strongly across these case studies is the need for locally developed and locally led solutions that facilitate strong community engagement. These case highlight how the expertise and leadership of the indigenous communities themselves was used to design effective NTD interventions.

CHAIR
Upendo J. Mwingira
RTI International, Washington, DC, United States
Margaret Baker
Georgetown University, Washington, DC, United States

8 a.m.
INTRODUCTION

8:10 a.m.
ADDRESSING BARRIERS OF COMMUNITY PARTICIPATION AND ACCESS TO MDA FOR TRACHOMA USING PARTICIPATORY APPROACHES IN A PASTORAL CONFLICT AREA OF KENYA
Doris Njomo
KEMRI, Nairobi, Kenya

8:30 a.m.
HOW TO GAIN ENTRY TO AND EMPOWER COMMUNITIES TO DELIVER MDA FOR NTDS: A CASE STUDY OF THE MAASAI POPULATION IN TANZANIA
Stella Kasindi Mwita
WiHer, Dar es salaam, United Republic of Tanzania

8:45 a.m.
BUILDING BACK TRUST FOR YAWS MDA AFTER COVID IN “CUSTOM VILLAGES” IN VANUATU, SOUTH PACIFIC
Fasiha Taleo
WHO, Vanuatu, Vanuatu

9 a.m.
OVERVIEW OF THE LITERATURE IN DELIVERING CAMPAIGNS TO MINORITY POPULATIONS
Margaret Baker
Georgetown University, Washington, DC, United States

9:20 a.m.
IMPLEMENTATION OF ONCHOCERCIASIS MDA IN YANOMAMI COMMUNITIES IN VENEZUELA
Oscar Noya
SACAICET, Venezuela, Bolivarian Republic of Venezuela

Symposium 8

Strategies for Prevention and Control of Typhoid and Cholera Outbreaks

Plaza Ballroom - Lobby Level (East Tower)
Thursday, October 19, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

Enteric diseases, including typhoid and cholera, threaten life and well-being in already marginalized communities. Typhoid, caused by Salmonella Typhi, and cholera, caused by Vibrio cholerae, disproportionately impact poor communities with inadequate sanitation and populations made vulnerable by displacement...
and migration. Both diseases are spread through ingestion of unclean water or contaminated food and are endemic in several countries. Typhoid affects up to 20 million people annually, claiming 8 million years of healthy life each year. Cholera infects more than two million people per year, threatens an estimated 1.3 billion people living in risk zones, and is prone to explosive outbreaks that can cause high mortality. Though improved water and sanitation infrastructure remain the most robust long-term prevention strategies for enteric infections, targeted vaccination may serve as a bridge intervention to interrupt transmission in acute outbreak scenarios. Indeed, the global cholera vaccine stockpile was established for this reason. The number and frequency of outbreaks has stretched the stockpile to its limit, leading to vaccine use prioritization decisions and rationing. While typhoid conjugate vaccines (TCV) are being added to the routine immunization schedule in many countries, there is no clear guidance on how to deploy TCV most effectively in an outbreak setting. Gavi, the Vaccine Alliance, has negotiated mechanisms with vaccine manufacturers to supply 500,000 doses of TCV in the event of a typhoid outbreak. However, this supply promise has not been matched with clear guidance from SAGE regarding how those vaccines should be used in emergency circumstances. In a 2019 outbreak in Harare, Zimbabwe, anecdotal evidence indicates that delays in the availability of TCVs likely contributed to unnecessary additional mortality and morbidity. To ensure timely, appropriate response, outbreaks must be identified and characterized with accurate diagnostics. Current typhoid diagnostics require a laboratory setting; field use of these tools is not yet possible. Without accurate, rapid diagnostics, outbreaks remain undetected and infect many more. Consensus is developing that outbreak prevention and rapid termination require development and utilization of quality rapid diagnostic tests (RDTs), validation of their use for identification and characterization of outbreaks, modeling of scenarios to inform when and how vaccine should be used in outbreak response, and development of clear guidance for decision-makers facing outbreaks. This symposium brings together researchers from the typhoid and cholera fields to present the latest progress toward meeting these goals and addressing the key challenges that remain.

CHAIR
Denise Garrett
Sabin Vaccine Institute, Washington, DC, United States
Lucy Breakwell
Centers for Disease Control, Atlanta, Georgia

8 a.m.
INTRODUCTION

8:10 a.m.
TYPHOID AND CHOLERA DIAGNOSTIC TOOLS CURRENTLY AVAILABLE AND IN DEVELOPMENT
Richelle Charles
Massachusetts General Hospital, Boston, MA, United States

8:25 a.m.
Pakistan Flood Response 2022 and Disease Surveillance
Adil Haider
Aga Khan University, Medical College, Karachi, Pakistan

8:40 a.m.
VACCINE INTRODUCTION IN OUTBREAK SETTINGS
Phiona Atuhebwe
UNICEF, Nairobi, Kenya

8:55 a.m.
CHALLENGES IN DETECTING AND RESPONDING TO TYPHOID OUTBREAKS
Daniela Garone
Médecins Sans Frontières, Brussles, Belgium

9:10 a.m.
EFFECTIVE USE OF ORAL CHOLERA VACCINE IN OUTBREAK SETTINGS
Elizabeth Lee
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

9:25 a.m.
MODERATOR, PANEL DISCUSSION
Denise Garrett
Sabin Vaccine Institute, Washington, DC, United States

Scientific Session 9
Clinical Tropical Medicine: Pediatrics

Crystal Ballroom A - Lobby Level (West Tower)
Thursday, October 19, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR
Melinda Tanabe
UTMB, Galveston, TX, United States
Martin Grobusch
Academic Medical Center, Amsterdam, Netherlands

8 a.m.
5027
GEOSPATIAL ANALYSIS OF THE DISTRIBUTION OF H. NANA INFECTION AMONG CHILDREN’S HOUSEHOLDS AND SCHOOLS OF THE PROVINCE OF ANTA, PERU
Melinda B. Tanabe1, Maria Alejandra Caravedo Martínez2, María Luisa Morales3, Martha Lopez2, Benicia Baca-Turpo2, Eulogia Arque Sollace3, Miguel M. Cabada3
1University of Texas Medical Branch, Galveston, TX, United States, 2Alexander von Humboldt Tropical Medicine Institute, UPCH, Cusco, Peru, 3UpCH – UTMB Collaborative Research Center - Cusco, Universidad Peruana Cayetano, Cusco, Peru

8:15 a.m.
5028
ACUTE KIDNEY INJURY IN CHILDREN WITH SICKLE CELL ANEMIA IS LINKED TO TUBULOINTERSTITIAL INJURY AND MICROCIRCULATORY DYSFUNCTION
Rodney Ogwang1, Ivan Mufumba1, Caroline Kazinga1, Anthony Batte2, Andrea Conroy2
1Global Health Uganda, Kampala, Uganda, 2Makerere University, Kampala, Uganda, 3University of Indiana, Indiana, IN, United States
8:30 a.m.

**5029**

**TEMPORAL TRENDS OF BLOOD GLUCOSE IN CHILDREN WITH CEREBRAL MALARIA**

Kennedy M. Chahta1, Rami Imam1, Meredith G. Sherman2, Ronke Ololowojusika1, Amina M. Mukadam3, Karl B. Seydel4, Alice M. Liomba5, John R. Barber2, Douglas G. Postels6

1Howard University, Washington, DC, United States, 2The George Washington University School of Medicine, Washington, DC, United States, 3Global Health Initiative, Children’s National Medical Center, Washington, DC, United States, 4Department of Pediatrics, Children’s National Medical Center, Washington, DC, United States, 5University of Washington, Seattle, WA, United States, 6Michigan State University, East Lansing, MI, United States

**5030**

**NEUROLOGICAL SYMPTOMS IN SICK CHILDREN PRECEDING DEATH AND CORRELATION WITH POSTMORTEM DIAGNOSIS: RESULTS FROM CHAMPS MORTALITY SURVEILLANCE NETWORK**

Sara Ajanovic Andalic1, Elsio Xerinda1, Rosaura Varo1, Zachary Madewell1, Muntasir Alam1, Nega Assefa2, Shams El Arifeen3, Lola Madrid4, Aggrey Igunza5, Aaron Samuel6, Adama Keita7, Amana Jambai8, Solomon Samou9, Sanaa Mahata8, Portia Mutevedzi10, Beth A. Tippet Barr11, Dianna Blau12, Cynthia Whitney13, Quique Bassat14

1Barcelona Institute for Global Health (ISGlobal), Barcelona, Spain, 2Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States, 3International Center for Diarrhoeal Diseases Research (icddr,b), Dhaka, Bangladesh, 4College of Health Medical Sciences, Haramaya University, Harar, Ethiopia, 5London School of Hygiene & Tropical Medicine, London, United Kingdom, 6Kenya Medical Research Institute (KEMRI), Nairobi, Kenya, 7Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States, 8Center for the Development of the Vaccines (CVD-Mali), Bamako, Mali, 9World Health Sanitation and Freetown, Sierra Leone, 10World Hope International, Makensi, Sierra Leone, 11Wits Health Consortium, University of Witwatersrand, Johannesburg, South Africa, 12Global Health Network, Centers for Disease Control and Prevention, Kissumu, Kenya, 13Centre pour le Développement des Vaccines (CVD-Mali), Bamako, Mali, 14Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States

8:45 a.m.

**5031**

**SOLUBLE TRIGGERING RECEPTOR EXPRESSED ON MYELOID CELLS 1 (STREM-1) TO RISK-STRATIFY CHILDREN PRESENTING WITH FEBRILE ILLNESS IN SOUTHERN MOZAMBIQUE**

Nuria Balanza1, Barbara Baro1, Sara Ajanovic1, Andrea M. Weckman1, Marta Valente1, Justina Bramugy1, Anelsio Gossa1, Kathleen Zhong1, Elizabeth JA Fitchett2, Shummay Yeung1, Tegwen Marlaire1, Heidi Hopkins3, David Mabey4, Kevin C. Kain5, Quique Bassat14

1ISGlobal, Hospital Clinic - Universitat de Barcelona, Barcelona, Spain, 2Global Health Network, Centers for Disease Control and Prevention, Kissumu, Kenya, 3Centre pour le Développement des Vaccines (CVD-Mali), Bamako, Mali, 4Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States, 5Emory Global Health Institute, Emory University, Atlanta, GA, United States

9 a.m.

**5032**

**EFFECT OF POINT-OF-CARE RAPID DIAGNOSTIC TESTS ON ANTIBIOTIC PRESCRIPTION IN PRIMARY HEALTH CARE SETTINGS IN TWO PERI-URBAN DISTRICTS IN GHANA**

Alexander Adjei1, Vida A. Kukula1, Clement Narh2, Piere Ollario3, Rita Baiden4

1dodowa health research centre, Accra, Ghana, 2Fred N. Binka School of Public Health, University of Health and Allied Sciences, Ho, Ghana, 3FIN2, the global alliance for diagnostics, Geneva, Switzerland

9:45 a.m.

**5033**

**ASSESSING THE PORTABILITY OF A PEDIATRIC TELEMEDICINE AND MEDICATION DELIVERY SERVICE TO THE GHANAIAN SETTING: A PILOT STUDY**

Katelyn E. Flaherty1, Molly Klarman2, Nana Anyimadu Anana-Binofo3, Mohammed-Najeeb Mahama4, Maxwell Osei-Ampofo5, Taiba Afaa Jibril6, Ahmed N. Zakaria7, Eric J. Nelson1, Torben K. Becker1

1University of Florida, Gainesville, FL, United States, 2Korle Bu Teaching Hospital, Accra, Ghana, 3National Ambulance Service, Accra, Ghana, 4Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, 5University of Ghana, Accra, Ghana

**Symposium 10**

**A Changing World - Practice in Travel Medicine**

**Crystal Ballroom B - Lobby Level (West Tower)**

**Thursday, October 19, 8 a.m. - 9:45 a.m. U.S. Central Time Zone**

The world is rapidly evolving. Changing travel and migration patterns are progressively confronted due to socio-economic advances, emerging infections in a changing ecosystem causing pandemics such as COVID-19, travelers are high risk because of their itinerary microbes that accrued during the journey and awaiting at a destination, eventually the digital revolution and telemedicine that has improved our lives and accelerated by COVID-19 pandemic. So how will our daily practice in travel medicine be affected? How can we practice travel medicine and meet the increasing demand for travel medicine services in this changing world? Each talk will cover different aspects in travel medicine. Dr. Paul Hunsajarupan will share his recent research finding of the trend in practicing travel medicine. Rebecca Acosta will share her experience working in running travel medicine during the pandemic and what lessons learned from that and how it can improve our practice in travel medicine. Followed by Dr. David Freedman, who will give a talk on the recent epidemiologic shifts and optimizing pre-travel preparation through the pandemic, discussing the up to date guidelines in COVID-19 prophylactic medication and vaccination. Lastly, we will also hear from Dr. Camille Kotton in the latest and up-to-date travel medicine practice in consulting special risk travelers by presenting challenging travel scenarios.

**Chair**

Shaymaa Abdalal

King Abdul-Aziz University, Jeddah, Saudi Arabia

David Freedman

University of Alabama at Birmingham, Birmingham, AL, United States

8 a.m.

**INTRODUCTION**

8:10 a.m.

**LANDSCAPE OF TRAVEL MEDICINE PRACTICE**

Bhanasut Hunsajarupan

Institute of Preventive Medicine, Department of Disease Control, Ministry of Public Health Thailand, Nonthaburi, Thailand

8:30 a.m.

**STARTING A TRAVEL CLINIC: OPERATIONAL NEEDS**

Rebecca Wolfe Acosta

Traveler’s Medical Service, New York, NY, United States
8:50 a.m.  5034

**IMMUNOCOMPROMISED TRAVELERS: CHALLENGING TRAVEL SCENARIOS**

Camille Kotton  
Massachusetts General Hospital, Boston, MA, United States

9:10 a.m.  5035

**RECENT EPIDEMIOLOGIC SHIFTS: ADVISING TRAVELERS**

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

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**Scientific Session 11**

**Viruses - Field Studies of Viruses**

*Regency Ballroom A - Ballroom Level (West Tower)*  
*Thursday, October 19, 8 a.m. - 9:45 a.m. U.S. Central Time Zone*

**CHAIR**  
Rebekah Kading  
Colorado State University, Fort Collins, CO, United States

Ariful Islam  
EcoHealth Alliance, New York, NY, United States

8 a.m.  5036

**SEROLOGIC EVIDENCE OF MARBURG VIRUSES AND A BUNDIBUGYO VIRUS-LIKE EBOLAVIRUS IN MADAGASCAR ROUSSETTE BATS**

Marana Tso1, Spencer Sterling1, Hafaliana Christian Ranaivoson2, Gwendolene Kettenburg2, Angelo Andrianiaina3, Santino Andry3, Jean-Michel Héraud4, Eric D. Laing5, Cara E. Brook2  
1Uniformed Services University of Health Sciences, Bethesda, MD, United States, 2University of Chicago, Chicago, IL, United States, 3University of Antananarivo, Antananarivo, Madagascar, 4Institut Pasteur de Dakar, Dakar, Senegal

8:15 a.m.  5037

**EXPOSURE OF EGYPTIAN ROUSSETTE BATS (ROUSETTUS AESGYPTIACUS) AND A LITTLE FREE-TAILED BAT (CHAEREPHON PUMILUS) TO ALPHAVIRUSES IN UGANDA**

Rebekah Kading1, Erin Borland2, Clara Laing1, Spencer Sterling2, Clifton McKee3, Mohammad Enayet Hossain1, Mohamed Ziaur Rahman1, Md. Jahidul Kabir1, Eric D. Laing2, Peter Hudson2, Raina Plowright3, Emily S. Gurley4  
1icddr,b, Dhaka, Bangladesh, 2Uniformed Services University of the Health Sciences, Bethesda, MD, United States, 3Walter Reed Project-Kenya, Kisumu, Kenya, 4Walter Reed Project, Kisumu, Kenya

8:50 a.m.  5038

**SPATIAL VARIATION IN NIPAH VIRUS SEROPREVALENCE AMONG PTEROPUS MEDIUS BATS IN BANGLADESH**

Ausrul Islam1, Spencer Sterling2, Clifton McKee1, Mohammad Enayet Hossain1, Mohammed Ziaur Rahman1, Md. Jahidul Kabir1, Eric D. Laing2, Peter Hudson2, Raina Plowright3, Emily S. Gurley4  
1icddr,b, Dhaka, Bangladesh, 2Uniformed Services University of the Health Sciences, Bethesda, MD, United States, 3Johns Hopkins University, Maryland, MD, United States, 4Bangladesh Forest Department, Dhaka, Bangladesh, 5The Pennsylvania State University, Pennsylvania, PA, United States, 6Cornell University, New York, NY, United States

9:15 a.m.  5039

**INVESTIGATION OF RIFT VALLEY FEVER OUTBREAK ASSOCIATED WITH ‘ABORTION STORMS’ IN MBARARA DISTRICT, UGANDA 2023**

Luke Nyakarahuka1, Jackson Kinyondo2, Jimmy Baluku2, Alex Tumusiime1, Simon Aziz3, Shannon Whitmer2, Joel Montgomery2, Julius L. Lutwama4, Stephen K. Balnamid8, John D. Klena1, Trevor R. Shoemaker2  
1Uganda Virus Research Institute, Kampala, Uganda, 2One United States Centers for Disease Control and Prevention, Atlanta, GA, United States

9:30 a.m.  5040

**GENETIC DIVERSITY AND AMINO ACIDS VARIATIONS AT VACCINE TARGET SITES IN RABIES VIRUSES COLLECTED FROM DIFFERENT HOST SPECIES IN MAKUENI AND SIAYA COUNTIES, KENYA**

Evaluyn N. Wambugu1, Kimita Gathii2, Sarah Kituyi2, Michael Washington3, Clement Masakhwe4, Lucy Mutungu5, Gardeep Jaswant6, Thombi Mwangi7, Brian Schaefer2, John Wahlund8  
1Walter Reed Project-Kenya, Kisumu, Kenya, 2Walter Reed Project, Kisumu, Kenya, 3Fogarty international center of the National institutes of health, Bethesda, MD, United States, 4Uniformed Services University, Bethesda, MD, United States, 5Institute of Tropical and Infectious Diseases, University of Nairobi, Kenya, Nairobi, Kenya
Symposium 12

Spillover: Assessing the Risk and Preparing for Disease X

Regency Ballroom B - Ballroom Level (West Tower)
Thursday, October 19, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

Emerging and re-emerging infectious diseases continue to pose significant threats to animal and human health. The preponderance of evidence suggests that most recent emerging infectious diseases events have wildlife origins, underscoring the importance of understanding transmission dynamics between animals and people and emphasizing the need for better characterization of the risk of spillover events from various classifications of pathogens. Zoonotic viruses remain a particular concern, as they are more frequently being identified as emerging human pathogens of significant concern. Once spillover from animals to humans has occurred, human-to-human transmission can facilitate sustained disease propagation given the right pathogen, environment, and host factors. Identifying common traits among zoonotic viruses and their associated potential for onward transmission is, therefore, an important step towards ultimately developing surveillance systems to rapidly identify emerging infectious diseases and the mitigation measures that will be essential to control them. Substantial efforts to characterize pathogen, host, and environmental factors have highlighted the role of high-risk interfaces as well as viral host plasticity as contributing factors to spillover events and disease transmission. Adopting a robust One Health approach to surveillance and forecasting of priority pathogens and their spillover potential will be critical to improving early warning systems of emerging health threats and for countermeasure development, including the optimization of vaccine pipelines. This symposium aims to provide an overview of spillover events and to explore global trends related to emerging infectious diseases from a One Health perspective. Factors associated with One Health reporting of outbreaks and global disease surveillance and forecasting will be discussed. Finally, programs that seek to identify priority zoonoses, potential spillover events, and their epicemic or pandemic potential will be presented in an attempt to explore optimal strategies for countermeasure development.

CHAIR
Angel N. Desai
University of California Davis Medical Center, Sacramento, CA, United States

Maïna L'Azou Jackson
Coalition for Epidemic Preparedness Innovations, London, United Kingdom

8 a.m.
INTRODUCTION

8:10 a.m.
ASSESSING SPILLOVER RISK
Jonna K. Mazet
University of California Davis, Davis, CA, United States

Symposium 13

Spotted Fever Rickettsiosis: A Globally Neglected Cause of Acute Febrile Illness Hospitalizations

Regency Ballroom C - Ballroom Level (West Tower)
Thursday, October 19, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

With increasing international travel and new or expanding distribution of tick species, the emergence of introduced and domestic tick-borne diseases is an urgent worldwide threat. Rickettsial infections are clinically indistinguishable from other causes of febrile illness and diagnostics for detection of acute disease are unavailable. Diagnostic delays translate into prolonged hospital stays, increased mortality, and epidemiology largely depends on findings from cohort studies and retrospective diagnoses of febrile returned travelers. While scrub typhus has commanded considerable attention in recent years, ongoing studies document the increasing prevalence and incidence of spotted fever group rickettsioses (SFGR) in AFI studies in more than 5-50% of cases across Africa, Asia, and South America. Unfortunately, little attention is paid to these neglected infections because of the difficulty in establishing diagnoses in real time, which in turn reflects the lack of mature technological advances in diagnostics seen for other infectious diseases. While most studies still rely on serologic investigations using 50 year-old methods, or PCR approaches that are insensitive because of low-burden bacteremia, there is a real need to move forward diagnostics that can be used at the time of acute illness such that specific anti-rickettsial therapies, such as doxycycline, can be used in a timely manner. This symposium will provide the background for SFGR epidemiology and knowledge gaps in studies of SFGR in order to provide highlights of some advances in diagnostic approaches that will facilitate early sensitive detection, including advanced PCR methods that target abundant SFGR RNAs and that detect circulating antigen during the acute illness, including point-of-care lateral flow devices.
Between May and July 2023, eight cases of P. vivax malaria were diagnosed among persons in Florida and Texas. In early August 2023, one case of P. falciparum malaria was diagnosed in a Maryland resident. None of the cases reported travel to a malaria endemic country and all were determined to be the result of locally acquired mosquito transmission. We will present an overview of the clinical, epidemiological, entomological, and molecular investigations that supported the public health response to this outbreak. Interventions to interrupt malaria transmission in the affected communities will be described. We will explore potential explanations for a return of domestic malaria transmission after two decades.

**CHAIR**
Peter D. McElroy
CDC, Atlanta, GA, United States

**8:10 a.m.**
**INTRODUCTION**
Peter D. McElroy
CDC, Atlanta, GA, United States

**8:20 a.m.**
**PUBLIC HEALTH SURVEILLANCE AND RESPONSE TO LOCALLY ACQUIRED PLASMODIUM VIVAX IN FLORIDA**
Andrea Morrison
Florida Department of Health, Tallahassee, FL, United States

**8:30 a.m.**
**STRATEGIES FOR ANOPHELES SURVEILLANCE AND LABORATORY ANALYSES TO GUIDE DOMESTIC OUTBREAK RESPONSE**
Audrey Lenhart
Entomology Branch, CDC, Atlanta, GA, United States

**8:40 a.m.**
**MALARIA DIAGNOSTICS AND PARASITE GENOTYPING APPROACHES TO INFORM A DOMESTIC MALARIA OUTBREAK**
Brian Raphael
Centers for Disease Control and Prevention, Atlanta, GA, United States

**8:50 a.m.**
**MODERATED DISCUSSION/QUESTION AND ANSWER**
Peter D. McElroy
CDC, Atlanta, GA, United States

**9:10 a.m.**
**WRAP-UP AND SUMMARY**
Peter D. McElroy
CDC, Atlanta, GA, United States
Career Chats: Networking Strategies for Trainees (via Zoom)

Thursday, October 19, 9:15 a.m. - 10:15 a.m. U.S. Central Time Zone

This session is limited to attendees who pre-registered for this event.

Networking—a crucial academic research skill for career advancement—can be challenging, particularly for early career researchers and trainees. Building relationships with established scientists, colleagues from a point of common interest—your career, work, and ambitions. We will explore strategies for networking based around your current position, and your future plans.

PANELISTS

Bartholomew Ondigo, Research Fellow, Lecturer
Egerton University, Nakuru, Kenya

Sapna P. Sadarangani, Senior Consultant
National Centre for Infectious Diseases, Singapore, Singapore

Exhibit Hall Open

Riverside Center - Exhibit Level (East Tower)
Thursday, October 19, 9:30 a.m. - 10:30 a.m. U.S. Central Time Zone

Coffee Break

Riverside Center - Exhibit Level (East Tower)
Thursday, October 19, 9:45 a.m. - 10:15 a.m. U.S. Central Time Zone

Poster Session A Set-Up

Riverside Center - Exhibit Level (East Tower) and Grand Hall GHI – Ballroom Level (East Tower)
Thursday, October 19, 9:45 a.m. - 10:15 a.m.

Poster Session A Viewing

Riverside Center - Exhibit Level (East Tower) and Grand Hall GHI – Ballroom Level (East Tower)
Thursday, October 19, 10:15 a.m. - Noon

Symposium 14

Reaching Conflict Affected Areas for Neglected Tropical Diseases, Malaria, and Polio - Barriers to Elimination

Grand Ballroom A - Ballroom Level (East Tower)
Thursday, October 19, 10:15 a.m. - Noon U.S. Central Time Zone

Conflict-affected and fragile states are a significant barrier to country-wide elimination and achieving the WHO's 2030 NTD goals. Lessons from long-standing polio and malaria programs illustrate how such areas pose the greatest operational, logistical, and epidemiological challenges. Conflict affected and fragile states are a key challenge and as the total number of districts requiring treatment declines, the proportion that remain in conflict-affected and fragile states increases. The world is experiencing a 30-year high in violent conflict. Recent reports have found a disconcerting increase in the total number of fragile contexts worldwide, with 1.9 billion people—24% of the world's population and 73% of the world's extreme poor—living in environments of chronic instability, conflict, or violence. Working in conflict affected and fragile areas requires innovative thinking and changing our approaches to be able to repeatedly access at-risk populations multiple times at high treatment coverage and integrate conflict prevention and peacebuilding elements. In this session we will provide an overview of conflict and fragility and the challenges of working to reduce and eliminate diseases and the lessons from polio, and malaria (in Ethiopia) and how they can be used to inform NTD programs. We will present the experience of countries working in such areas against the NTDs lymphatic filariasis (Haiti) and trachoma (Mozambique). This session will build on ASTMH sessions in 2016 (Terrorism, Conflict, Epidemics, and Acts of God: The impact of the unpredictable on NTD programs) and 2019 (Challenges of Implementing NTD Assessments in Conflict Areas and Fragile States). Here we significantly broaden the scope to identify lessons across NTDs, malaria, and polio to overcome the challenges in reaching elimination and best practices from the conflict prevention and peacebuilding sector. As conflict and fragility is increasing, if the global community is to meet the WHO's 2030 NTD goals, we must innovate and change our approaches and not leave these areas until the 'last minute'.

CHAIR

Michael French
RTI International, Washington, DC, United States

10:15 a.m.
INTRODUCTION

10:25 a.m.
CONFLICT-AFFECTED AND FRAGILE STATES - SETTING THE SCENE

Liz Hume
Alliance for Peace Building, Washington, DC, United States

10:40 a.m.
REACHING CONFLICT AFFECTED AREAS, LESSONS FROM POLIO

Babar Khan
RTI International, Washington, DC, United States

10:55 a.m.
IMPACT OF INSECURITY ON MALARIA IN TIGRAY, ETHIOPIA

Hiwot Solomon
Ministry of Health, Addis Ababa, Ethiopia
11:10 a.m.  
IMPLEMENTING A LYMPHATIC FILARIASIS PROGRAM DURING CONFLICT, NATURAL DISASTERS, AND POLITICAL INSTABILITY

Farah Momprevil  
Ministère de la Santé Publique et de la Population, Port-au-Prince, Haiti

11:25 a.m.  
ADAPTING CONFLICT SENSITIVE APPROACHES TO TRACHOMA IN CABO DELGADO, MOZAMBIQUE

Henis Sitoe  
Ministério da Saude, Maputo, Mozambique

Scientific Session 15

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

Grand Ballroom B - Ballroom Level (East Tower)  
Thursday, October 19, 10:15 a.m. - Noon U.S. Central Time Zone

Supported with funding from the Burroughs Wellcome Fund

CHAIR

Omar Harb  
University of Pennsylvania, Philadelphia, PA, United States
Camila Queiroz Glauss  
National Institutes of Health, Bethesda, MD, United States

10:15 a.m.  
5041

A GUT COMMENSAL PROTOZOA REMOTELY TUNES PULMONARY DISEASE SEVERITY

Kyle Burrows1, Louis Ngai1, Pauln Chiaranunt1, Jacqueline Watt1, Eric Cao1, Sui Ling1, Jun Liu1, Arthur Mortha1
1Department of Immunology, University of Toronto, Toronto, ON, Canada, 2Department of Molecular Genetics, University of Toronto, Toronto, ON, Canada

10:30 a.m.  
5042

HYPOXIA PROMOTES CYTOLYTIC ACTIVITY OF CDB T CELLS AND PATHOGENESIS IN CUTANEOUS LEISHMANIASIS

Erin AL. Fowler1, Camila Amorim2, Emily Ds. Hailes1, Aditi Varkey1, Mariam Salem1, Gang Xin1, Patrick L. Collins1, Fernanda O. Novais1
1Department of Microbial Infection & Immunity, Wexner Medical Center, The Ohio State University, Columbus, OH, United States, 2Department of Pathobiology, School of Veterinary Medicine, University of Pennsylvania, Philadelphia, PA, United States

10:45 a.m.  
5043

CD30L EXPRESSION ON CD4+T CELLS IS REQUIRED FOR THE DEVELOPMENT OF ALLERGEN- AND HELMINTH-DRIVEN TYPE 2 INFLAMMATION IN THE LUNG

Camila de Almeida Lopes1, Dominic Golec2, Daniel Barber3, Thomas Nutman2, Pedro Gazzinelli-Guimaraes2
1Federal University of Minas Gerais, Belo Horizonte, Brazil, 2National Institutes of Health, Bethesda, MD, United States

11 a.m.  
5044

HUMAN FILARIAL INFECTION DRIVES A DISTINCT SIGNATURE OF CD8+ T CELL POPULATIONS AT HOMEOSTASIS AND IN RESPONSE TO CYTOMEGALOVIRUS (CMV) IN FILARIAL/CMV COINFECTIONS

Camila Queiroz Glauss, Thomas B. Nutman  
National Institutes of Health, Bethesda, MD, United States

11:15 a.m.  
5045

IL-11 REGULATES MUCOSAL RESPONSES IN ACUTE PULMONARY HELMINTH INFECTION

Pablo Bara-Garcia1, Oyebola Oyesola1, Fabricio Oliveira1, Jonah Kupritz1, Thomas B. Nutman1, Pedro E. Gazzinelli-Guimaraes1
1Laboratory of Parasitic Diseases, NIAID, National Institutes of Health, Bethesda, MD, United States, 2Laboratory of Immunology and Genomics of Parasites, Department of Parasitology, ICMBIO, Belo Horizonte, Brazil

(ACMCIP Abstract)

Scientific Session 16

Global Health: Use of Modeling to Improve Our Understanding of Disease Epidemiology and Implementation of Interventions

Grand Hall J - Ballroom Level (East Tower)  
Thursday, October 19, 10:15 a.m. - Noon U.S. Central Time Zone

CHAIR

Michael Wimberly  
University of Oklahoma, Norman, OK, United States
Jeanne Lemant  
Swiss TPH, Allschwil, Switzerland
10:15 a.m.  
5048
MODELING TO SUPPORT DECISIONS ABOUT THE GEOGRAPHIC AND DEMOGRAPHIC EXTENSION OF SEASONAL MALARIA CHEMOPREVENTION IN BENIN
1Swiss Tropical and Public Health Institute, Allschwil, Switzerland, 2National Malaria Control Program, Ministry of Health, Cotonou, Benin, 3Clinton Health Access Initiative, Boston, MA, United States

10:30 a.m.  
5049
USING CAUSAL INFERENCE METHODS TO ACCURATELY ESTIMATE THE EFFECT OF INSECTICIDE TREATED NET USE ON RISK OF MALARIA INFECTION
Noel Patson*, Lauren Colher*, Peter Ntenda*, Terrie Taylor*, Don Mathanga*, Clarissa Valim*, Eric Tchetgen Tchetgen*
1Malaria Alert Center, Kamuzu University of Health Sciences, Blantyre, Malawi, 2Center for Vaccine Development and Global Health, University of Maryland School of Medicine, Baltimore, MD, United States, 3Department of Osteopathic Medical Specialties, College of Osteopathic Medicine, Michigan State University, East Lansing, MI, United States, 4Department of Global Health, Boston University School of Public Health, Boston, MA, United States, 5Department of Statistics and Data Science, The Wharton School, University of Pennsylvania, Philadelphia, PA, United States

10:45 a.m.  
5050
MATHEMATICAL MODELLING TO SUPPORT STRATEGIC MALARIA PLANNING IN MOZAMBIQUE
Tatiana Alonso Amor*, Sophie Diarra*, James Colborn*, Bradley Didier*, Baltazar Candrinho*, Emilie Pothin*, Branwen Owen*
1Swiss Tropical and Public Health Institute, Allschwil, Switzerland, 2Clinton Health Access Initiative, Boston, MA, United States, 3Ministry of Health Mozambique, Maputo, Mozambique

11 a.m.  
5051
CAUSES OF UNDER-FIVE DEATH USING A PROBABILISTIC MODEL (INTERV5) IN QUELIMANE DISTRICT, CENTRAL MOZAMBIQUE
1Malaria Health and Research Centre, Manhica-Maputo, Mozambique, 2Emory University, Atlanta, GA, United States, 3Barcelona Institute for Global Health, ISGlobal, Barcelona, Spain

11:15 a.m.  
5052
INVESTIGATING THE ROLE OF HUMAN MOVEMENT ON DISEASES TRANSMISSION DYNAMIC IN KENYA, A TOOL FOR OUTBREAK PREPAREDNESS
1RTI International, Washington, DC, United States, 2Department of Environment and Health Sciences, Technical University of Mombasa, Mombasa, Kenya, 3Vector Borne Disease Control Unit, Mambweni County Referral Hospital, Mambweni, Kenya, 4Department of Pediatrics, Division of Infectious Diseases, Stanford University School of Medicine, Stanford, CA, United States

11:30 a.m.  
5053
IMPORTANCE OF COUNTRY PREPAREDNESS IN HANDLING HEALTH EMERGENCY, THE 2023 EBOLA OUTBREAK IN UGANDA
Donal Bisanzio*, Sharonne Backers*, Richard Reithinger*
1RTI International, Washington, DC, United States, 2RTI International, Kampala, Uganda
**10:50 a.m.**

**THE MOSQUITO/HUMAN INTERFACE (I.E., VECTOR CONTROL IMPLEMENTATION IN THE COMMUNITY)**

Keziah Malm
Programme Manager for the National Malaria Elimination Programme (NMEP), Accra, Ghana

**11:10 a.m.**

**INTERVENING AT LARVAL HABITAT LEVEL**

Gabriel Carrasco-Escobar
Institute of Tropical Medicine, Universidad Peruana Cayetano Heredia, Lima, Peru

**11:30 a.m.**

**INNOVATIONS/New HORIZONS FOR VECTOR CONTROL AND MALARIA ELIMINATION**

Flaminia Catteruccia
Harvard T.H. Chan School of Public Health, Boston, MA, United States

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**Scientific Session 18**

Kinetoplastida and Other Protozoa: Diagnosis and New Detection Tools

Grand Hall K - Ballroom Level (East Tower)

**Thursday, October 19, 10:15 a.m. - Noon U.S. Central Time Zone**

**CHAIR**

Omar Hamarsheh
AI-Quds University, Abu Dies, Palestinian Territory

Jaime Altschuh
Hospital de Niños R. Gutierrez, Buenos Aires, Argentina

**10:15 a.m.**

**5055**

**TRANSMISSIBILITY OF LEISHMANIA DONOVANI FROM HUMAN TO SAND FLIES IN AN AREA ENDEMIC FOR VISCERAL LEISHMANIASIS IN INDIA**

Om Prakash Singh1, Puja Tiwary1, Anurag Kumar Kushwaha1, Shakti Kumar Singh1, Dhiraj Kumar Singh1, Rahul Chaube1, Abhishek Kumar Singh1, Tulika Rai1, Edgar Rowton1, Jaya Chakravarty1, David Sacks1, Shyam Sundar1

1Banaras Hindu University, Varanasi, India, 2Walter Reed Army Institute of Research, Silver Spring, MD, United States, 3National Institute of Allergy and Infectious Diseases, National Institute of Health, Bethesda, MD, United States

**10:30 a.m.**

**5056**

**MOLECULAR IDENTIFICATION OF LEISHMANIAI STAINED SLIDES FROM PATIENTS WITH CUTANEOUS LEISHMANIASIS IN SANTARÉM, PARÁ, BRAZIL**

Lucia Maria Almeida Braz1, Vanessa N. Kehdý1, Nara Karyne D. Feitosa2, Rose Grace B. Marques2, José Angelo L. Lindo-so3, Expedito José A. Luna4

1FMUSP - IMT, São Paulo, Brazil, 2Núcleo Técnico de Vigilância em Saúde, Santarém, Pará, Brazil, 3Faculdade de Medicina da Universidade de São Paulo, São Paulo, Brazil, 4Centro de Investigaciones en Hidratos de Carbono (CIHIDECAR), Facultad de Ciencias Exactas y Naturales. Departamento de Química Orgánica, Buenos Aires, Argentina, 5Universidad de Buenos Aires. CONICET, 6Instituto de Investigaciones Biotecnológicas “Dr. Rodolfo A. Ugalde” (ACMICP Abstract)

**10:45 a.m.**

**5057**

**USEFULNESS OF ANTI ALPHA-GAL ANTIBODIES AS BIOMARKERS OF THERAPEUTIC RESPONSE IN CHAGAS DISEASE**

Jaime Altschuh1, Manuel Abal1, Cintia V. Cruz, MD2, Virginia Balouz2, Maria E. Giorgi3, Maria C. Marino4, Rosa M. Muchnik de Lederkremer5, Carlos Buscaglia5

1Servicio de Parasitología y Chagas-Hospital de Niños Ricardo Gutierrez, Instituto de Investigaciones Biotecnológicas “Dr. Rodolfo A. Ugalde” (ACMICP Abstract)

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**11 a.m.**

**5058**

**CUTANEOUS LEISHMANIASIS DISEASE AWARENESS IN HIGH ENDEMIC, RURAL SRI LANKA: NEED FOR IMPROVED HEALTH PROMOTION**

Sonali Dinushika Gunasekara1, Nuwan Darshana Wickramasinghe2, Manjula Weerasinghe2, Manoj Sanjeewa Fernando2, Helen Philippa Price2, Thiimi Chanchal Agampodi2, Suneth Buddhika Agampodi2

1Faculty of Medicine and Allied Sciences, Rajarata University of Sri Lanka, Saliyapura, Sri Lanka, 2Faculty of Applied Sciences, Rajarata University of Sri Lanka, Mihinthale, Sri Lanka, 3Centre for Applied Entomology and Parasitology, School of Life Sciences, Keele University, Newcastle-under-Lyme, Staffordshire, United Kingdom, 4International Vaccine Institute, Seoul, Republic of Korea

**11:15 a.m.**

**5059**

**A COST-EFFECTIVE LAMP-PCR FOR SCREENING AND MONITORING CHAGAS DISEASE**

Sneider Alexander Gutierrez Guarnizo1, Anshule Takyar1, Siena Defazio1, Monica Mugnies1, Robert Gilman1, Juan Ramirez2, Monica Pajuelo3

1Johns Hopkins University, Baltimore, MD, United States, 2Universidad del Rosario, Bogotá, Colombia, 3Universidad Peruana Cayetano Heredia, Lima, Peru (ACMICP Abstract)

**11:30 a.m.**

**5060**

**A SET OF DIAGNOSTIC TESTS USEFUL FOR THE DETECTION AND IDENTIFICATION OF LEISHMANIA PARASITES CAUSING CUTANEOUS LEISHMANIASIS**

Yusr Saadi1, Ahmed Chakroun1, Hamed Chouaib2, Hejer Souguir1, Insaf Bel Haj Ali2, Alia Yaacoub1, Moncef Ben Said2, Akiia Fatallah-Mili3, Ikram Guizani1

1Molecular Epidemiology & Experimental Pathology, Institut Pasteur de Tunis, Tunisia, 2Parasitology department, Farhat Hached University Hospital, Sousse, Tunisia

**11:45 a.m.**

**5061**

**THE PATHWAY TO SUSTAINABLE ELIMINATION OF HUMAN AFRICAN TRYPANOSOMIASIS IN DEMOCRATIC REPUBLIC OF CONGO**

Crispin Lumbala wa Mbuyi1, Pascal Lutumba2, Jean-Pierre Van geertruyden1

1University of Antwerp, Wilrijk, Belgium, 2University of Kinshasa, Kinshasa, Democratic Republic of the Congo
Symposium 19

Overcoming the Lymphatic Filariasis and Onchocerciasis Cliff to Accelerate the Elimination of Two Filarial Diseases

Grand Hall L - Ballroom Level (East Tower)
Thursday, October 19, 10:15 a.m. - Noon U.S. Central Time Zone

Lymphatic filariasis (LF) and Onchocerciasis (OV) are two major filarial diseases targeted by Act to End NTD West program. In most endemic countries, the LF and OV mass drug administration (MDA) represents the largest platform for the control and elimination of neglected tropical diseases as it often involves millions of people to be treated or surveyed. The two conditions share many programmatic features for program implementation, drug usage (both using Ivermectin) and community-based platforms for mass drug administration. In several countries, the LF and OV programs are under the same leadership and management of one coordinator, which in many instances, facilitates the coordination and collaboration with donors, partners, and stakeholders, as well as the interactions with the Mectizan Donation Program (MDP). Within the countries supported by the Act to End NTD West program, Niger and Senegal have stopped MDA for both diseases, respectively in 5 and 8 formally co-endemic districts. The two countries urgently need to develop novel strategies for joint surveillance. In Burkina Faso, where the LF MDA is one of the two rounds of a bi-annual OV MDA, stopping the LF MDA following successful transmission assessment survey (TAS) implementation yields a gap in OV programming. OV/LF endemic districts implementing MDA and planning for entomological assessments or skin snip microscopy should necessarily stop MDA with Ivermectin for 6 to 11 months before the evaluations. Other challenges include the need for more valid and reliable integrated field serological tools (bi-plex) capable of detecting the antigens for the two diseases altogether. Currently, Cote D’Ivoire, Nigeria, Benin, and Uganda have successfully stopped MDA for one of the two filarial diseases in part of their countries and to continue MDA for the remaining single disease. Implementing confirmatory mapping for LF in Ghana and onchocerciasis elimination mapping in Guinea and Ghana yield a problematic prospect of starting MDA for one program while stopping MDA for the other. Likewise, the integrated TAS (I-TAS) tool, which combines the assessments of the two filarial diseases, has helped evaluate the presence or absence of a signal of OV endemicity in Côte d’Ivoire. However, the issue of the focality of OV and the age group remains a challenge for the I-TAS. A panel of implementing partners, endemic country program managers, and scientists will share experiences discuss the OV/LF cliff co-investigations, and joint surveillance for LF and OV.

CHAIR

Ernest K O. Mensah
FHI 360, Accra, Ghana

Katherine Gass
Task Force for Global Health, Decatur, GA, United States

10:15 a.m.
INTRODUCTION

10:25 a.m.
LYMPHATIC FILARIOISIS AND ONCHOCERCIASIS CO-ENDEMICITY IN A COMPLEX CONTEXT OF LOASIS

Georges Nko’A’yissi
Directorate of Control of Malaria and Neglected Tropical Diseases, Yaoundé, Cameroon

10:40 a.m.
THE Lymphatic Filariasis - Onchocerciasis Cliff in Cote D’Ivoire - Continuing Ivermectin Distribution in an Increasing Number of Lymphatic Filariasis and Onchocerciasis Co-Endemic Districts That Are Stopping LF MDA

Aboulaye Méité
Ministry of Health Cote D’Ivoire, Abidjan, Côte D’Ivoire

10:55 a.m.
LYMPHATIC FILARIOISIS AND ONCHOCERCIASIS DIAGNOSTIC TOOLS FOR SURVEILLANCE

Kimberly Won
CDC, Atlanta, GA, United States

11:10 a.m.
The Importance of Integrated Post-Validation Surveillance for Lymphatic Filariasis and Onchocerciasis

Katherine Gass
Task Force for Global Health, Decatur, GA, United States

Scientific Session 20

Bacteriology: Salmonella, Shigella, and Other Enteric Infections

Plaza Ballroom - Lobby Level (East Tower)
Thursday, October 19, 10:15 a.m. - Noon U.S. Central Time Zone

CHAIR

Kesia da Silva
Stanford University, Stanford, CA, United States

Kawtar Talat
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

10:15 a.m.
DETECTION OF SALMONELLA TYPHI BACTERIOPHAGES IN SURFACE WATERS AS A SCALABLE APPROACH TO ENVIRONMENTAL SURVEILLANCE

Kesia da Silva1, Sneha Shrestha2, Jivan Shakya3, Alexander T. Yu4, Nishan Katuwal5, Rajeev Shrestha1, Mudita Shakya1, Sabin B. Shahia1, Shiva R. Nagal1, Christopher LeBoa1, Kristen Aiemojoyo6, Isaac I. Bogoch7, Senjuti Saha1, Dipesh Tamrakar8, Jason R. Andrews9

1Department of Medicine, Division of Infectious Diseases and Geographic Medicine, Stanford University, Stanford, CA, United States
2Center for Infectious Diseases, Dhulikhel Hospital Kathmandu University Hospital, Dhulikhel, Nepal
3Institute for Research in Science and Technology, Kirtipur, Nepal
4University of California Berkeley, Department of Environmental Health Sciences, Berkeley, CA, United States
5University of California Davis, School of Medicine, Department of Public Health Sciences, Davis, CA, United States
6Department of Medicine, Division of Infectious Diseases, University of Toronto, Toronto, ON, Canada
7Child Health Research Foundation, Dhaka, Bangladesh

ASTMH — Advancing Global Health Since 1903
10:30 a.m.  5063
SEROINCIDENCE OF SALMONELLA ENTERICA SEROVARS TYPHI AND PARATYPHI IN CHILDREN IN KENYA
Aslan Khan1, Izabela Rezende1, Richelle Charles1, Francis Mutuku1, Bryson Ndenga1, Zainab Jembe2, Priscilla Maina3, Philip Chebii4, Charles Ronga4, Laura Mwambingu5, Victoria Okuta6, Donal Bisanzi7, Jason Andrews1, Angelle D. LaBeaud1
1Stanford University, Stanford, CA, United States, 2Massachusetts General Hospital, Boston, MA, United States, 3Technical University of Mombasa, Mombasa, Kenya, 4Kenya Medical Research Institute (KEMRI), Kisumu, Kenya, 5Vector Borne Disease Control Unit, Msambweni, Kenya, 6RTI International, Washington, DC, United States

10:45 a.m.  5064
EFFICACY AND SAFETY OF A TYPHOID CONJUGATE VACCINE: FINAL ANALYSIS OF A FOUR-YEAR, PHASE 3 TRIAL IN MALAWIAN CHILDREN
Priyanka D. Patel1, Yuanyuan Liang1, James E. Meiring1, Nginache V. Namapot-Nkomba1, Theresa Misiri1, Felistas Mwakisehile1, Leslie P. Jamka1, J. Kathleen Tracy1, Osward Nyirenda2, Richard Wachepa1, Robert S. Heyderman3, Matthew B. Laurens4, Melita A. Gordon1, Kathleen M. Neuzi5
1Malawi-Liverpool-Wellcome Trust Clinical Research Programme, Blantyre, Malawi, 2Department of Epidemiology and Public Health, University of Maryland School of Medicine, Baltimore, MD, United States, 3Blantyre Malaria Project, Blantyre, Malawi, 4Center for Vaccine Development and Global Health, University of Maryland School of Medicine, Baltimore, MD, United States, 5Division of Infection and Immunity, University College London, London, United Kingdom

11 a.m.  5065
CROSS PROTECTION OF HETEROLOGOUS SHIGELLA FLEXNERI 2A AND S. SONNEI CHALLENGE IN HEALTHY ADULTS IN THE UNITED STATES
Kawar R. Talaat1, Chad K. Porter1, Subhra Chakraborty1, Bridgett Finley1, Arthi Ramesh Kumar1, Jessica L. Brubaker1, Sandra D. Isidnane1, Courtney M. Swisher1, Madison M. Billingsley1, Brittany L. Feijoo1, Katherine J. DeTizio2, Kamal Dhanjani3, Barbara DeNearing4, Akamol E. Suvamapunya5, Nicole Maiers6, Patricia Njuguna7, Calman Maclean8, John Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, 1Naval Medical Research Command, Silver Spring, MD, United States, 2Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc., Bethesda, MD, United States, 3Walter Reed Army Institute of Research, Silver Spring, MD, United States, 4PATH Center for Vaccine Innovation and Access, Washington, DC, United States, 5PATH Center for Vaccine Innovation and Access, Seattle, WA, United States, 6Bill & Melinda Gates Foundation, Seattle, WA, United States

11:15 a.m.  5066
DEVELOPMENT OF A SHIGELLA MULTIVALENT BIOCONJUGATE VACCINE: A PHASE I/II RANDOMIZED, CONTROLLED AND AGE DESCENDING STUDY INCLUDING DOSE FINDING IN KENYAN INFANTS
Chinaza Ezirim1, Cristina Alaimo1, Mainga Hamaluba2, Josaphat Kosgei1, Jane Adetifa1, Patricia Martin1, 1LimmaTech Biologics, Schlieren, Switzerland, 2KEMRI-CGMRC, Kikuy, Kenya, 3KEMRI-USAMRD-K, Kericho, Kenya

11:30 a.m.  5067
HUMAN MILK OLIGOSACCHARIDES AND CAMPYLOBACTER JEJUNI INFECTION RISK IN NICARAGUAN CHILDREN
Rebecca J. Rubinstein1, Roberto Herrera2, Christian Toval-Ruiz3, Nadja Violet4, Lester Gutierrez5, Yoaoska Reyes5, Fredman Gonzalez6, Patricia Blandon6, Natalie Bowman7, Lars Bode8, Flenomn Bucardo1, Sylvia Becker-Drees1, Samuel Vilchez1
1University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, 2Universidad Nacional Autonoma de Nicaragua-Leon, Leon, Nicaragua, 3University of California San Diego, San Diego, CA, United States

11:45 a.m.  5068
PREDICTING SEROCONVERSION FAILURE AFTER ORAL POLIO VACCINATION IN CHILDREN IN LOW- AND MIDDLE-INCOME COUNTRIES
Sharia M. Ahmed1, Ben J. Brintz1, Patricia B. Pavlinac2, James A. Platts-Mills3, Daniel T. Leung4
1University of Utah, Salt Lake City, UT, United States, 2University of Washington, Seattle, WA, United States, 3University of Virginia, Charlottesville, VA, United States

Symposium 21
Kidney Disease of Unknown Etiology and Other Challenges to Renal Health in the Tropics
Crystal Ballroom A - Lobby Level (West Tower)
Thursday, October 19, 10:15 a.m. - Noon U.S. Central Time Zone
Epidemics of chronic kidney disease of unknown etiology (CKDu) in recent years in Central America, Sri Lanka, and other tropical regions have shined a spotlight on the changing clinical and epidemiologic picture of kidney disease, worldwide. Kidney disease in the tropical context does not mirror what is observed elsewhere. Opportunities for prevention and therapeutic intervention are hindered by, among other things, limited resources and access to advanced renal care. This panel of nephrology and tropical medicine experts will discuss the epidemiology of tropical kidney disease - including CKDu, provide some insight into infectious, toxic, and other environmental exposures contribute to the mounting renal morbidity and mortality, and address some of the challenges to preserving and improving renal health in the tropics.

Chair
Rebecca SB Fischer
Texas A&M University, College Station, TX, United States
Anna Strasma
Duke University, Durham, NC, United States

10:15 a.m. INTRODUCTION

10:25 a.m. GLOBAL PERSPECTIVES ON RENAL HEALTH
Vivekanand Jha
The George Institute for Global Health, Delhi, India

10:50 a.m. GLOBAL OVERVIEW OF CKDU, A TROPICAL MEDICINE MYSTERY
Marvin A. Gonzalez Quiroz
University College London, London, United Kingdom
11:10 a.m.
KIDNEY DISEASE IN HIV, MALARIA, LEPTOSPIROSIS, AND OTHER TROPICAL INFECTIONS
Christina M. Wyatt
Duke University School of Medicine, Durham, NC, United States

11:30 a.m.
SPOTLIGHT ON KIDNEY DISEASE IN CENTRAL AMERICA – CHALLENGES TO PREVENTION, DIAGNOSIS, AND MANAGEMENT
Ramón García Trabanino
Emergency Social Fund for Health of Tierra Blanca, Usulután, El Salvador

11:55 a.m.
MODERATOR, PANEL DISCUSSION
Anna Strasma
Duke University, Durham, NC, United States

Symposium 22
Antimicrobial Stewardship in LMIC: Impact of Research, Training, Biomarkers, and Digital Health Tools

Crystal Ballroom B - Lobby Level (West Tower)
Thursday, October 19, 10:15 a.m. - Noon U.S. Central Time Zone

Antimicrobial resistance (AMR) is a major global health issue that is associated with deaths of more people than HIV and malaria each year. Inappropriate antibiotic prescription is among the biggest drivers of AMR. This symposium will bring together a diverse group of experts implementing antimicrobial stewardship initiatives at the primary care health facility level in low- and middle- income countries (LMICs). A wide range of antimicrobial stewardship initiatives will be presented including digital health tools, point-of-care biomarkers, AMR research, education, and training. Attendees will learn about why some digital health tools have reduced antibiotic prescription by 3-fold, while others have had little to no impact on antibiotic prescriptions. The impact of point of care inflammatory markers such as C-reactive protein and procalcitonin in combination with digital health tools or alone will be explored, dissecting how such biomarkers can have the greatest impact on antibiotic prescription. Finally, sustainable research platforms, education and training programs to tackle AMR will be reviewed. This symposium will provide valuable insights and practical solutions to help understand what antibiotic stewardship initiatives can best address the challenge of inappropriate antibiotic prescription, and antimicrobial resistance.

CHAIR
Janak Koirala
Patan Academy of Health Sciences, Lalitpur, Nepal
Rainer Tan
Unisanté / SwissTPH / Ifakara Health Institute, Lausanne, Switzerland

10:15 a.m.
INTRODUCTION

10:25 a.m.
AN EDUCATION AND TRAINING PROGRAM TO IMPLEMENT AN ANTIMICROBIAL STEWARDSHIP PROGRAM IN NEPAL
Andrew Trotter
University of Illinois at Chicago, Chicago, IL, United States

10:45 a.m.
DIGITAL HEALTH TOOLS FOR ANTIBIOTIC STEWARDSHIP
Rainer Tan
Unisanté / SwissTPH / Ifakara Health Institute, Lausanne, Switzerland

11:05 a.m.
AMR DIAGNOSTICS USE ACCELERATOR
Juvenal Nkeramahame
FIND, the global alliance for diagnostics, Geneva, Switzerland

11:25 a.m.
AMR RESEARCH: SUSTAINABLE RESEARCH PARTNERSHIPS AND GLOBAL HEALTH EQUITY
Abhilasha Karkey
Oxford University Clinical Research Unit Nepal, Lalitpur, Nepal

Scientific Session 23
Viruses - Evolution and Genomic Epidemiology

Regency Ballroom A - Ballroom Level (West Tower)
Thursday, October 19, 10:15 a.m. - Noon U.S. Central Time Zone

CHAIR
Rafael Kroon Campos
University of Texas Medical Branch at Galveston, Galveston, TX, United States
Emily Gallichotte
Colorado State University, Fort Collins, CO, United States

10:15 a.m.
5069
ASSESSING THE CONTRIBUTION OF NUCLEOTIDE VARIATIONS IN THE MAYARO VIRUS GENOME TO ITS ADAPTIVE LANDSCAPE IN A. AEGYPTI AND A. ALBOPICTUS MOSQUITOES
Rafael Kroon Campos1, Sashsa R. Azar2, Tina Nguyen1, Judy Ly3, Ruimei Yun1, Bilal Khan1, Shannan L. Rossi4, Scott C. Weaver5
1Department of Microbiology and Immunology, University of Texas Medical Branch at Galveston, Galveston, TX, United States, 2Department of Surgery, Houston Methodist Research Institute, Houston, TX, United States, 3Department of Pathology, University of Texas Medical Branch at Galveston, Galveston, TX, United States, 4Department of Pathology and the Institute for Human Infections and Immunity, University of Texas Medical Branch at Galveston, Galveston, TX, United States, 5Department of Microbiology and Immunology and the Institute for Human Infections and Immunity, University of Texas Medical Branch at Galveston, Galveston, TX, United States

10:30 a.m.
5070
USING BARCODED WEST NILE VIRUS TO QUANTIFY THE IMPACT OF TISSUE-ASSOCIATED BOTTLENECKS ON VIRUS POPULATIONS IN ENZOOTIC AND BRIDGE VECTORS OF WNV
Emily Anne Fitzmeyer, Emily N. Gallichotte, Kyra Pyron, Marylee Kapuscinski, Gregory D. Ebel
Colorado State University, Fort Collins, CO, United States

10:45 a.m.
5071
INTRA-HOST DIVERSITY IN VACCINATED COVID-19 PATIENTS INFECTED WITH DIFFERENT SARS-COV-2 VARIANTS
Beatriz de Carvalho Marques1, Cecília Banho1, Renan Souza2, Nikos Vasilakis3, Lívia Sacchietto1, Maurício Nogueira1
1Faculdade de Medicina de São José do Rio Preto, São José do Rio Preto, Brazil, 2Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, 3The University of Texas Medical Branch, Galveston, TX, United States
One Health I: The Interconnection Between People, Animals, Plants and Their Shared Environment

Regency Ballroom B - Ballroom Level (West Tower)  
Thursday, October 19, 10:15 a.m. - Noon U.S. Central Time Zone

CHAIR
Ahmed Abd El Wahed  
Leipzig University, Leipzig, Germany

Kelly Baker  
University of Iowa, Iowa City, IA, United States

10:15 a.m.  
5072

VIRAL SEQUENCE DATA FOR EPIEMIOLOGICAL CHARACTERIZATION OF GLOBAL DENGUE VIRUS OUTBREAKS
Sindiso Nyathi, Izabella Mauricio Rezende, A. Desiree LaBeaud  
Stanford University, Stanford, CA, United States

11:15 a.m.  
5073

THE IMPACT OF TEMPERATURE ON WEST NILE VIRUS MOSQUITO BOTTLENECKS AND ANTIVIAL IMMUNITY
Emily Gallichotte, Emily Fitzmeyer, Gregory Ebel  
Colorado State University, Fort Collins, CO, United States

11:30 a.m.  
5074

GENOMIC SURVEILLANCE DURING THE FIRST-EVER HYPERENDEMIC TRANSMISSION OF ALL FOUR DENGUE VIRUS SEROTYPES IN NICARAGUA IN 2022 REVEALS NEW VIRAL INTRODUCTIONS POST-PANDEMIC
Gerald Vasquez1, Cristhiam Cergas1, Hanny Moeira1, Jose Soto1, Mabel Hernandez1, Jose Suarez1, Josefina Coloma1, Shannon Bennett1, Eva Harris1, Angel Balmaseda1  
1Sustainable Science Institute, Managua, Nicaragua, 2Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua, 3División of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, 4California Academy of Sciences, San Francisco, CA, United States

11:45 a.m.  
5075

METAGENOMICS IDENTIFIES EMERGING AND RE-EMERGING VIRUSES IN NIGERIAN COHORTS WITH ACUTE FEBRILE ILLNESSES, INCLUDING PATHOGENS OF GLOBAL CONCERN
Judith Uche OGUZIE1, Brittany A. Petros2, Paul E. Olunyij1, Samar B. Mehta1, Philomena E. Eronmon1, Opeoluwa Adewale-Fasoro1, Peace D. Ifoga1, Ikponmwasoa Odia1, Andrej Pastusiak1, Olodoala S. Gbemusola1, John O. Ayepada1, Eghosase E. Uyigbo1, Akhiolomen P. Edamhandhe1, Osisiem Blessing1, Michael Airende1, Parvathy Nair1, Christopher Tomkins-Tinch1, James Q. Li1, Liam Stenson1, Nicholas Oyejide1, Nnenna A. Ajayi1, Kingsley Ojud1, Onwe Ogah1, Chukwuebukwue Ajebejegha1, Nelson Adeodosu1, Oluwafemi Ayodeji1, Sylvynas Okogbenin1, Peter O. Okohere1, Onikepe A. Folarin1, Isaac O. Komolafe1, Chikeke Ikhekwuzu1, Simon D.W. Frost1, Ethan K. Jackson1, Katherine J. Siddle1, Paridde C. Sabeti1, Christian 1 Hipp1  
1Redemer’s University, Ede, Nigeria, 2Broad Institute of Harvard and MIT, Cambridge, MA, USA, 3University of Maryland Medical Center, Baltimore, MA, USA, 4Catholic University, Managua, Nicaragua, 5Foundation for the Study and Control of Dengue and Yellow Fever, São Paulo, Brazil, 6Department of Public Health, Federal University of Bahia, Salvador, Brazil, 7Centre for Health Informatics, Computing, and Statistics, Lancaster University Medical School, Lancaster, UK, 8Swedish University of Agricultural Sciences, Umeå, Sweden, 9University of California, Berkley, Cal, USA, 10EcoHealth Alliance, New York, NY, USA, 11Institute of Epidemiology, Disease Control and Research (IEDCR), Dhaka, Bangladesh, 12One Health Laboratory, International Center for Diarrheal Disease Research (icdd,b), Dhaka, Bangladesh

10:45 a.m.  
5076

ASSESSING RISK FACTORS FOR MALARIA AND SCHISTOSOMIASIS AMONG CHILDREN IN MISUNGWI, TANZANIA, AN AREA OF ENDEMICITY: A MIXED METHODS STUDY
Claudia Duguy1, Jacklin Mosha2, Natacha Protopopoff3, Franklin Mosha4, Charles Thickstun1, Eluid Lokule1, Elizabeth Mallya1, Tatu Aziz2, Cindy Feng2, Alphaxard Manjurano2, Alison Krentel1, Manishita A. Kulkarni1  
1University of Ottawa, Ottawa, ON, Canada, 2National Institute for Medical Research Tanzania, Mwanza Research Centre, Mwanza, United Republic of Tanzania, 3London School of Hygiene & Tropical Medicine, London, United Kingdom, 4Kilimanjaro Christian Medical University College, Moshi, United Republic of Tanzania, 5Dalhousie University, Halifax, NS, Canada

10:50 a.m.  
5077

ONE HEALTH APPROACH TO NIPAH VIRUS OUTBREAK INVESTIGATION AMIDST OF COVID-19 PANDEMIC IN BANGLADESH, 2021-2022
Ariful Islam1,Shariful Islam1, Shusmita Dutta Choudhury1, Sarah Munro1, Md Abu Sayeed2, Md Meheri Hasan1, Md. Zulqarnine ibne Noman Noman2, Abdul Khaqlue Me Dawlait Khan2, Nabila Nujhat Choudhury2, Sharmin Sultana2, Ahmad Rahain Sharif2, Mohammad Enayet Hosssain3, Maryska Kaczmarek1, Md Ziaur Rahman1, Tahmina Shrin3, Jonathan H Epstein4  
1EcoHealth Alliance, New York, NY, USA, United States, 2Institute of Epidemiology, Disease Control and Research (IEDCR), Dhaka, Bangladesh, 3One Health Laboratory, International center for diarrheal disease research (icdd,b), Dhaka, Bangladesh

10:45 a.m.  
5078

DELINEATING THE ROLE OF RATS, CLIMATE AND ENVIRONMENT AS DRIVERS OF LEPTOSPIRA SPILLOVER TRANSMISSION USING ECO-EPIEMIOLOGICAL GEOSTATISTICS IN AN URBAN BRAZILIAN INFORMAL SETTLEMENT
Max Eyre1, Fabio N. Souza2, Pablo R. Cuenca2, Nivison Nery Jr.2, Daiana de Oliveira2, Jaqueline S. Cruz1, Marbisa NR de Vargas1, Juliet G. Santana1, Mayara C. de Santana1, Gielson A. Sacramento1, Hussein Khalil1, Kathryn P. Hacker1, Elsio A. Wunder Jr.1, James E. Childs5, Myrthes Mayre4, Mike Begon1, Peter J. Diggle1, Albert I. Ko1, Emanuele Giorgi6, Federico Costa7  
1London School of Hygiene & Tropical Medicine, London, United Kingdom, 2Institute of Collective Health, Federal University of Bahia, Salvador, Brazil, 3Centre for Health Informatics, Computing, and Statistics, Lancaster University Medical School, Lancaster, United Kingdom, 4Swedish University of Agricultural Sciences, Umea, Sweden, 5University of Pennsylvania, Philadelphia, PA, United States, 6Department of Epidemiology of Microbial Diseases, Yale School of Public Health, New Haven, CT, United States, 7Oswaldo Cruz Foundation, Brazilian Ministry of Health, Salvador, Brazil, 8Department of Evolution, Ecology and Behaviour, University of Liverpool, Liverpool, United Kingdom

11 a.m.  
5079

BREAKING TRANSMISSION: A TRANSDISCIPLINARY ONE HEALTH APPROACH TO IMPROVE HOOKWORM CONTROL
Vito Coletta1, Patsy A. Zendejas-Hereida2, Virak Khieu3, Susana Vaz Nery4, Robin B. Gasser5, Rebecca J. Traub5, Martin Walker4  
1The University of Melbourne, Melbourne, Australia, 2Ministry of Health, Phnom Penh, Cambodia, 3The University of New South Wales, Sydney, Australia, 4Royal Veterinary College, Melbourne, Australia
10:30 a.m.  5084

INTERSPECIES CO-FEEDING TRANSMISSION OF HEARTLAND VIRUS BETWEEN A NATIVE TICK SPECIES, AMBLYOMMA AMERICANUM, AND THE INVASIVE EAST ASIAN TICK, HAEMAPHYSALIS LONGICORNS

Parker D. Norman, Clemence Obellianne, Meghan E. Hermione
University of South Alabama College of Medicine, Mobile, AL, United States

10:45 a.m.  5085

BORRELIA BURGDORFERI ENZOOTIC CYCLE IN CONSTANT FLUX

Heidi Goethert1, Richard Johnson2, Patrick Roden-Reynolds3, Sam Telford4
1Tufts Cummings School of Veterinary Medicine, Grafton, MA, United States, 2Martha’s Vineyard Tick Initiative, West Tisbury, MA, United States

11 a.m.  5086

SPATIOTEMPORAL EVOLUTION OF LYME DISEASE IN NORTH CAROLINA FROM 2010 TO 2020

Neha V. Mokashi, Amanda Brown Marusiak, Dana Giandomenico, Annie Green Howard, Paul L. Delamater, Ross M. Boyce
University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

11:15 a.m.  5087

ECO-EPIDEMIOLOGY OF RICKETTSIA SPP. IN RURAL ANDEAN COMMUNITIES: FIRST REPORT OF R. MONACENSIS AND R. RAOUltII-LIKE ORGANISMS IN SOUTH AMERICA AND THEIR POTENTIAL VECTORS

Winnie Contreras1, Cusi Ferradas1, Marco Risco1, Luis Mosto1, Oliver Bocanegra1, Laura Backus1, Victor Pacheco1, Evan M. Bloch1, Andrés G. Lescano1
1Emerging Diseases and Climate Change Research Unit, School of Public Health and Administration, Universidad Peruana Cayetano Heredia (UPCH), Lima, Peru, 2Department of Medicine and Epidemiology, School of Veterinary Medicine, University of California, Davis, CA, United States, 3Universidad Nacional Mayor de San Marcos, Natural History Museum, Lima, Peru, 4Department of Pathology, Johns Hopkins University School of Medicine, Baltimore, MD, United States

11:15 a.m.  5088

SCRB TYPHUS OUTBREAK IN AUSTRALIAN MILITARY PERSONNEL

Rebecca Suhr, Samantha Nind, Fiona McCallum
ADFMIDI, Brisbane, Australia

11:45 a.m.  5089

ESTIMATING THE SEROINCIDENCE OF SCRUB TYPHUS USING ANTIBODY DYNAMICS FOLLOWING INFECTION

Kristen Aiemjoy
University of California Davis, Davis, CA, United States

Scientific Session 25
Ectoparasite-Borne Diseases I

Regency Ballroom C - Ballroom Level (West Tower)
Thursday, October 19, 10:15 a.m. - Noon U.S. Central Time Zone

CHAIR
Kristen Aiemjoy
University of California Davis, Davis, CA, United States
J. Stephen Dumler
Uniformed Services University of the Health Sciences, Bethesda, MD, United States

11:15 a.m.  5080

BARRIERS AND ENABLERS TO THE IMPLEMENTATION OF THE ANTIMICROBIAL RESISTANCE NATIONAL ACTION PLAN IN MALAWI

Elias Rejoice Maynard Phiri1, Jessie Mphande1, Tumaini Malenga1, Nicholas Feasey2, Russell Dacombe3
1Malawi-Liverpool-Wellcome Programme, Blantyre, Malawi, 2Africa Institute for Development Policy, Lilongwe, Malawi, 3Liverpool School of Tropical Medicine, Liverpool, United Kingdom

11:30 a.m.  5081

A PLANETARY HEALTH INNOVATION FOR DISEASE, SUSTAINABILITY, FOOD, WATER, & POVERTY CHALLENGES IN WEST AFRICA

Jason R. Rohr1, Alexandra Sack1, Sidi Bakhoum1, Christopher B. Barrett2, David Lopez-Carr3, Andrew Chamberlin4, David J. Civitello5, Molly J. Doruska6, Giulio A. De Leo7, Christopher J E Haggerty1, Isabela J. Jones8, Nicolas Jouanard2, Andrea J. Lund2, Amadou T. Ly1, Raphael A. Ndione1, Justin V. Remais1, Gilles Riveau1, Mommy Sack1, Simon Senghor1, Susanne H. Sokolow1, Caitlin Wolfe1
1University of Notre Dame, Notre Dame, IN, United States, 2Cornell University, Ithaca, NY, United States, 3UC Santa Barbara, Santa Barbara, CA, United States, 4Stanford University, Stanford, CA, United States, 5Emory University, Atlanta, GA, United States, 6SIA, St Louis, Senegal, 7EPLS, St Louis, Senegal, 8UC Berkeley, Berkeley, CA, United States, 9EPFL, St Louis, Senegal, 10University of South Florida, Tampa, FL, United States

11:45 a.m.  5082

APPLYING A ONE HEALTH DISPARITIES FRAMEWORK TO ADDRESS THE SOCIAL GRADIENT AND HEALTH DISPARITIES OF BLASTOCYSTIS SP. INFECTION IN NORTHEAST MADAGASCAR

Alma Solis1, Angela Anaeme1, Georgia Titcomb2, Mark Janko1, Michelle Pender1, Jean Y. Rabezara1, Tyler Barrett1, Randy Kramer1, Hillary Young1, Charles Numi2
1University of California Davis, Davis, CA, United States, 2University at Albany School of Public Health and Wadsworth Center, Albany, NY, United States

11:15 a.m.  5083

EMERGENCE AND SPREAD OF HEARTLAND AND BOURBON VIRUSES IN NEW YORK STATE

Alan P. Dupuis II1, Rachel Elizabeth Lange1, Melissa Prusinski2, Joseph G. Maffei2, Cheri A. Koetzer3, Lindsey Tomaszek1, Bryon Backenson3, Laura D. Kramer4, Alexander T. Cota5
1Arbovirus Laboratory, Wadsworth Center NYSDOH, Slingerlands, NY, United States, 2University at Albany School of Public Health and Wadsworth Center, Albany, NY, United States, 3Bureau of Communicable Disease Control, New York State Department of Health, Albany, NY, United States, 4Arbovirus Laboratory, Wadsworth Center NYSDOH, Albany, NY, United States
Symposium 26

Antimalarials: Tackling P. falciparum Resistance Through the Use of Irresistible Compounds

Regency Ballroom D - Ballroom Level (West Tower)
Thursday, October 19, 10:15 a.m. - Noon U.S. Central Time Zone

A major hurdle to successful treatment and control of Plasmodium falciparum malaria has been the emergence and spread of parasite resistance to first-line drugs. This is especially concerning with the recent emergence of artemisinin partial resistance in several countries in eastern Africa, placing partner drugs and treatment efficacy at increased risk. This symposium highlights recent evidence that parasites in Uganda appear to be acquiring resistance to both components of the dominant first-line therapy artether-lumefantrine (Coartem). The symposium then explores the portfolio of compounds, termed “irresistibles”, that are being developed by the Medicines for Malaria Venture and its partners and that have not yielded resistance via in vitro selection experiments. The next talk highlights recent Insights into P. falciparum genetic determinants that can modulate parasite susceptibility to a collection of these samples, using genetic crosses in humanized mice. The fourth talk illustrates proteomic approaches that are providing important insights into the mode of action of irresistible drugs as well as compounds in advanced stages of development. Identifying genetic markers of P. falciparum resistance to first-line drugs that historically have been refractory to resistance and developing a pipeline of irresistible drugs are vital components of global efforts to effectively treat P. falciparum malaria.

CHAIR
Didier Jean Leroy
Medicines for Malaria Venture, Geneva, Switzerland

10:15 a.m.
INTRODUCTION

10:25 a.m.
REDUCED SUSCEPTIBILITY OF FRESH PLASMODIUM FALCIPARUM ISOLATES TO LUMEFANTRINE IN NORTHERN UGANDA
Patrick K. Tumwebaze
Infectious Disease Research Collaboration, Kampala, Uganda

10:50 a.m.
DEVELOPING A PIPELINE OF IRRESISTIBLE ANTIMALARIALS
Didier J. Leroy
Medicines for Malaria Venture, Geneva, Switzerland

11:15 a.m.
DEFINING P. FALCIPARUM SUSCEPTIBILITY TO IRRESISTIBLE COMPOUNDS USING GENETIC CROSSES
David A. Fidock
Columbia University Medical Center, New York, NY, United States

American Committee of Medical Entomology (ACME)
Trainee Networking Lunch Event

Crystal Ballroom C - Lobby Level (West Tower)
Thursday, October 19, 12:15 p.m. - 1:30 p.m. U.S. Central Time Zone

These lunch table meetings, organized by the ACME subgroup of ASTMH, aims to provide students and postdoctoral fellows an opportunity to interact with established medical entomologists to discuss job opportunities, related scientific work and receive valuable career guidance and direction.

Exhibit Hall Open

Riverside Center - Exhibit Level (East Tower)
Thursday, October 19, Noon- 1:30 p.m. U.S. Central Time Zone
Global Health - Information/Communication/Technologies Solutions in Global Health including Modeling

A CONTENT REVIEW OF COVID-19 RELATED APPS USED IN VIETNAM
Linh Tran1, Nguyen Thanh An1, Federica Cucel2, Kadek Agus Dila3, Nguyen Hai Nam4, Doan Le Nguyet Cat5, Lee Wei Jun6, Farrukh Ansar7, Fatima Abdallh8, Au Vo9, Nguyen Tien Huy10
1Duy Tan University, Da Nang, Vietnam, 2University hospital of Verona, Verona, Italy, 3Giri Emas Hospital, Bali, Indonesia, 4Johns Hopkins University School of Medicine, Baltimore, MD, United States, 5Fleetwood Park Secondary School, Surrey, BC, Canada, 6International Medical University, Kuala Lumpur, Malaysia, 7Rhyber Medical University, Peshawar, Pakistan, 8Hashemite University, Zarqa, Jordan, 9University of California, Los Angeles, CA, United States, 10School of Tropical Medicine and Global Health, Nagasaki University, Nagasaki, Japan

COMPREHENSIVE COST-EFFECTIVENESS ANALYSIS OF A NEW COMPARTMENTAL MODEL FOR BACTERIAL MENINGITIS CONSIDERING THE INFLUENCE OF THE MEDIA
Yarhands Dissou Arthur1, Joshua Kiddy K Asamoah1, Alexander Kwarteng2
1AKENTEN APPIAH-MENKA UNIVERSITY OF SKILLS TRAINING AND ENTREPRENEURIAL DEVELOPMENT, Kumasi, Ghana, 2KWAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY, Kumasi, Ghana

COST-EFFECTIVENESS ANALYSIS OF 4TH GENERATION RAPID DIAGNOSTIC TESTING FOR HIV AMONG MEN WHO HAVE SEX WITH MEN IN NIGERIA
David Wastlund1, Rebecca Sim Shu Yu1, Michelle Sotak2
1Vista Health Pte Ltd, Singapore, Singapore, 2Abbott, Abbott Park, IL, United States

DIGITIZATION OF THE NATIONAL LONG ACTING INSECTICIDE TREATED MOSQUITO NET MASS DISTRIBUTION CAMPAIGN IN GUINEA: PROCESS, CHALLENGES AND LESSONS LEARNED
Abdourahamane Diallo1, Moustapha Camara2, Fatoumata Battouly Diallo3, Mamadou Sitan Keita4, Agossa Charles Lebon LAWSON5, Mohamed Saran CONDE6, Mamadou Bhye Diallo7, Alioune Camara8
1National Program for Malaria Control, Conakry, Guinea, 2Catholic Relief Services, Conakry, Guinea, 3Notre Santé / RTI, Conakry, Guinea

SYSTEMATIC REVIEW AND META ANALYSIS ON PREVALENCE OF ORAL SUBMUCOUS FIBROSIS
Savitha Satish
Johns Hopkins Bloomberg School of Public Health, South Windsor, CT, United States

WHO ESPEN COUNTRY HEALTH INFORMATION PLATFORM (CHIP)
Alexandre Laurent Pavluck
Sightsavers, Covington, GA, United States
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HEALTH AND ECONOMIC IMPACTS OF SUBSTANDARD UTEROTONICS IN GHANA AND NIGERIA

Yi-Fang (Ashley) Lee1, Colleen R. Higgins1, Petra Proctor1, Sara Rushwan1, A. Metin Gülmezoglu1, Lester Chinery2, Sachiko Ozawa2

1University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, 2Concept Foundation, Geneva, Switzerland

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SPATIOTEMPORAL ANALYSIS OF THE RELATIVE RISK OF POST-INFECTIONOUS VERSUS NON-POST-INFECTIOUS HYDROCEPHALUS AND ITS RELATIONSHIP WITH ENVIRONMENTAL FACTORS

Lucinda Hadley

Lancaster University, Lancaster, United Kingdom

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IS SUB-SAHARAN AFRICA READY FOR DIGITAL CLINICAL TRIALS?

Dawit Asmamaw Ejigu1, Eysau Makonnen1, Thy Pham2, Brenda Okech2, Kristin Kristin Croucher3, Abebaw Fekadu2


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SPATIO-TEMPORAL OCCURRENCE, BURDEN, RISK FACTORS AND MODELLING METHODS FOR ESTIMATING SCRUB TYPHUS BURDEN FROM GLOBAL TO SUBNATIONAL RESOLUTIONS: A SYSTEMATIC REVIEW

Qian Wang1, Tian Ma2, Fangyu Ding3, Kartika Saraswati4, Benn Sartorius5, Nicholas Philip John Day6, Richard James Maude1

1Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand, 2Institute of Geographic Sciences and Natural Resources Research, Beijing, China, 3Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing, China, 4Centre for Tropical Medicine and Global Health, Nuffield Department of Medicine, University of Oxford, Oxford, United Kingdom

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MATHEMATICAL MODELS OF PLASMODIUM VIVAX MALARIA: A SYSTEMATIC REVIEW

Rachel A. Hounsell1, Caroline Franco2, Sheetal P. Silal3

1University of Oxford, Oxford, United Kingdom, 2University of Cape Town, Cape Town, South Africa

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STRATIFICATION OF MALARIA BURDEN AND SUBNATIONAL TAILORING OF INTERVENTIONS TOWARDS TO INFORM THE DEVELOPMENT OF THE NATIONAL MALARIA ELIMINATION STRATEGIC PLAN IN GHANA

Samuel K. Oppong1, Punam Amratia1, Beatriz Galatas Andrade2, Abdissalan NOOR2, Wahjib Mohammed3, Nana Yaw Peprah4, Peter Gething5, Keziah Malm1

1National Malaria Elimination Programme, Accra, Ghana, 2Malaria Atlas Project, Telethon Kids Institute, Perth, Australia, 3Global Malaria Programme, WHO, Geneva, Switzerland

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MOLECULAR BIOMARKER IDENTIFICATION IN SEASONAL CARDIOVASCULAR COMORBID DISEASES (SCCD) USING NETWORK METANALYSIS

Apoorv Gupta1, Jaichand Patel2, Prince Kumar3, Kamran Manzoor Waidha4, Arun K. Sharma5

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THE ROLE OF BELIEFS IN MALARIA PREVENTION AND TREATMENT BEHAVIOR: ANALYSIS OF THE 2021 NIGERIA MALARIA INDICATOR SURVEY

Indrani Saran, Oladoyin Okunoren

Boston College, Chestnut Hill, MA, United States

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SYSTEMATIC REVIEW: MATHEMATICAL MODELLING PARAMETERS OF THE NINE WORLD HEALTH ORGANIZATION PRIORITY PATHOGENS

Gina Maria Cuomo-Dannenburg, Sabine van Elstain, Natsuko Imai, Sangeeta Bhatia, Anne Cot, Imperial College Priority Pathogen Group

Imperial College London, London, United Kingdom

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GEOSPATIAL MODELLING OF FEBRILE ILLNESS PREVALENCE AMONG CHILDREN AGED UNDER 5 YEARS IN UGANDA

Misaki Sasanami1, Paddy Ssentongo2, Camille Moeckel3, Claudio Fronterè1

1Lancaster University, Lancaster, United Kingdom, 2Penn State Health Medical Center, Hershey, PA, United States

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THE ROLE OF COMMUNITY HEALTH WORKERS IN TREATMENT MONITORING OF RADICAL CURE FOR PLASMODIUM VIVAX MALARIA IN PAPUA, INDONESIA: A MIXED METHODS STUDY

Annissa Rahmalia1, Enny Kenangalem2, Lioniy Francisco2, Reynold R. Ubra3, Ric N. Price4, Jeanne R. Poepoprodjo5, Koen Peeters Grietens6, Charlotte Gryseels7

1Menzies School of Health Research, Darwin, Australia, 2Papuan Community and Health Development Foundation, Timika, Indonesia, 3Mimika Regency Health Office, Timika, Indonesia, 4Institute of Tropical Medicine, Antwerp, Belgium

Global Health – Other

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COVID-19 VACCINATION IN GHANA: THE DISCOURSE OF RELIGION, GENDER, PERCEIVED SAFETY OF VACCINE AND GHANAIANS’ READINESS TO BE VACCINATED

Perpetual Adjoa Antobam1, Alexander Kwarteng2

Kwame Nkrumah University of Science and Technology, KUMASI, Ghana

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PREVALENCES, RISK FACTORS AND CONSEQUENCES OF MICROCEPHALY IN LOW- AND MIDDLE-INCOME COUNTRIES: A CALL TO ACTION FOR THE GLOBAL MATERNAL AND CHILD HEALTH COMMUNITY

Molly M. Lamb1, Olivia Fluss2, Kirsten Fong2, Anna Funk3, Amy K. Connery1, Alison M. Colbert2, Thomas Jaenisch2

1Colorado School of Public Health, Aurora, CO, United States, 2University of Calgary, Calgary, AB, Canada, 3Childrens Hospital Colorado, Aurora, CO, United States
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ASSESSMENT OF DIETARY HABITS AND IODINE STATUS AMONG PREGNANT WOMEN IN SOUTHERN GHANA

Nana Yaa Asiedua Appiah¹, Frank Hayford², Samuel Antwi-Baffour²
¹Noguchi Memorial Institute for Medical Research, Accra, Ghana; ²School of Biomedical and Allied Health Science, University of Ghana, Accra, Ghana

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EFFECT OF PARTICIPANTS AGE AND OCCUPATION ON PERCEIVED SAFETY OF COVID-19 VACCINE AND PARTICIPANTS WILLINGNESS TO BE VACCINATED WITH COVID-19 VACCINE IN GHANA

Barbara Botwe¹, Alexander Kwarterg²
¹Akenten Appiah-Menka University of Skills Training and Entrepreneurial Development, KUMASI, Ghana; ²KUAMET UNIVERSITY OF SCIENCE AND TECHNOLOGY, KUMASI, Ghana

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EVALUATION OF THE CLINICAL TRIAL OPERATION TRAINING CONDUCTED BY CENTER FOR INNOVATIVE DRUG DEVELOPMENT AND CLINICAL TRIALS FOR AFRICA

Eyasu Makonnen Esthetu
Addis Ababa University, Addis Ababa, Ethiopia

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THE RELATIONSHIP BETWEEN DISTANCE TO PRIMARY HEALTH CENTER, CHILD MORTALITY, AND AZITHROMYCIN MASS DISTRIBUTION IN NIGER: A SUBGROUP ANALYSIS OF THE MORDOR I CLUSTER-RANDOMIZED TRIAL

Ahmed M. Arzika¹, Dennis Chao², Elisabeth Root³, Anu Mishra², Abdou Amza², Ramatou Maliki², Karamba Alio¹, Diallo Beidi¹, Elodie Lesbas², Ben F. Arnold³, Jeremy D. Keenan³, Thomas M. Lietman¹, Kieran S. O'Brien¹
¹Centre de Recherche et Interventions en Santé Publique, Niamey, Niger; ²Bill & Melinda Gates Foundation, Seattle, WA, United States; ³Programme Nationale de Santé Oculaire, Niamey, Niger; ⁴UCSF Proctor Foundation, San Francisco, CA, United States

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SPILLOVER EFFECT OF AZITHROMYCIN MASS DRUG ADMINISTRATION ON ANTIMICROBIAL RESISTANCE IN NIGER

Brittany Peterson¹, Ahmed Arzika¹, Ramatou Maliki², Amza Abdou³, Eric Houpt¹, Tom Lietman¹, Kieran S. O'Brien¹, Jeremy Keenan¹, Jie Liu¹
¹University of California San Francisco, San Francisco, CA, United States; ²Centre de Recherche et Interventions en Santé Publique, Niamey, Niger; ³Biomedical Research in Africa, Bethesda, MD, United States

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TAKING BLOOD FROM CHILDREN FOR RESEARCH PURPOSES—WHAT DO PEOPLE THINK ABOUT IT? A QUALITATIVE STUDY TO EXPLORE THE FACILITATORS AND BARRIERS FROM A CLINICAL TRIAL CONDUCTED IN LALITPUR, NEPAL

Ashata Dahal
OXFORD UNIVERSITY CLINICAL RESEARCH UNIT AND UNIVERSITY OF OXFORD, PATAN, NEPAL

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EPIDEMIOLOGY OF LEPROSY IDENTIFIED THROUGH ACTIVE CASE DETECTION IN SIX DISTRICTS OF NEPAL

Ram Kumar Mahato
Epidemiology and Disease Control Division, Kathmandu, Nepal

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Enobong Idong¹, Angela Acosta², Bolatito Ayeni³, Jethro Oghenewovoga¹, Chika Aboh¹, Nnenne Ugbulu², Foyeke Oyedokun-Adebiyale³, Ian Tweedie¹
¹Breakthrough ACTION Project, Johns Hopkins Center for Communication Programs, Abuja, Nigeria; ²Breakthrough ACTION Project, Johns Hopkins Center for Communication Programs, Baltimore, MD, United States; ³National Malaria Elimination Program, Abuja, Nigeria; ⁴U.S. President’s Malaria Initiative, USAID, Abuja, Nigeria

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LIVED EXPERIENCES AND COPING STRATEGIES ADOPTED BY ADOLESCENTS IN THE MANAGEMENT OF ONCHOCERCIASIS IN A RESOURCE LIMITED SETTING OF GHANA

Sitsofe Gbogbo, Hubert Amu, Robert Dowou, Martin Ayanore
University of Health and Allied Sciences, Ho, Ghana

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SPATIAL INEQUALITY IN CHILDHOOD IMMUNIZATION COVERAGE IN NIGERIA: A GEOSTATISTICAL APPROACH

Ezra Gayawan¹, Osafu Egbon², Olamide Orumolu³
¹Federal University of Technology, Akure, Nigeria; ²University of Sao Paulo, Sao Carlos, Brazil

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James Douglas Sinnatwah Jr.
University of Liberia School of Public Health, Monrovia, Liberia

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Rabila Bamogo¹, Achille Sindimbabasa Nikiema¹, Mamounata Belem², Youssouph Dianta³, Roc Dabiré¹
¹Institut de Recherche en Sciences de la Santé, Bobo-Dioulasso, Burkina Faso; ²Université de Joseph Ki-ZERBO; ³Ouagadougou, Burkina Faso; ⁴Université Cheikh Anta Diop, IFAN, Dakar, Senegal

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Onitiri Ian Aro¹, Ariera Bonface¹, Koech Emmily¹, Waamba Kevin¹, Stella Chumbe¹, Jackson Conner², Samayoa-Reyes Gabriela³, Katherine R. Sabourin³, Sidney Ogolla¹, Rosemary Rockfeld³, ¹Center for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya; ²University of Virginia, Charlottesville, VA, United States; ³University of Colorado, Anschutz Medical Campus, Denver, CO, USA, Denver, CO, United States

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MOLECULAR CHARACTERIZATION OF THE RHESUS D (RHD) GENE IN BLOOD DONORS WITH THE DEL PHENOTYPE AT THE NATIONAL BLOOD TRANSFUSION CENTER (CNTS) OF BAMAKO, MALI

Ramatoulaye Diallo¹, Dramane Diallo², Amadou Kone³, Tenin Aminatou Coulibaly², Alhassane BA¹, Moussa Cisse¹, Boubacar Maiga²
¹Centre National de Transfusion Sanguine, Bamako, Mali; ²University of Clinical Research Center, Bamako, Mali; ³Université des Sciences des Techniques et des Technologies de Bamako, Bamako, Mali
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Shubaya K. Naggayi1, Paul Bangirani2, Robert O. Opoka1, Deogratias Munube1, Phillip Kasirye1, Ezekiel Mupere1, Betty Nyangoma1, Annet Birabwa1, Grace Namtabya1, Maxencia Kabatabaazy1, Ann Jacqueline Nakitende1, Dennis Kalibbala1, John Ssenkusuku1, Chandy C. John1, Nancy S. Green1, Richard Idro1
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Maylis Douine1, Yann Lambert1, Lorraine Plessis1, Irene Jimeno1, Teddy Bardoni1, Carlotta Carboni1, Antoine Adenis1, Denis Vandenplas1, Thomas Hall5, Thomas M. Arnold2, Thomas M. Fisher2
1Centre d’Investigation Clinique Artilles-Guyane Insmer 1424, Cayenne, French Guiana, 2Foundation for Scientific Research, Paramaribo, Suriname, 3Foundation Oswaldo Cruz, Rio de Janeiro, Brazil

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DXCONNECT TEST DIRECTORIES: GLOBAL IMPACT THROUGH ACCESSIBLE DATA ON DIAGNOSTIC ASSAYS
Victoria O. Aroworade, Anna Mantoski, Stefano Onagrello, Devy Emperador, Sarah Nogaro, Sophie Cretzaz, Dounia Cherkhaoui, Daniel G. Bausch, Sarah-Jane Loveday, Kavi M. Ramjeet
FINQ, Geneva, Switzerland

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Juah T Karpeh
Cuttington University, Gbanga, Liberia

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Mamadou Ouattara1, Ali Sie1, Mamadou Bountogo1, Valentin Boudo1, Elodie Lebas2, Huiy Hu1, Benjamin F. Arnold3, Thomas M. Lietman4, Catherine Oldenburg5
1Centre de Recherche en Sante de Nouna, Nouna, Burkina Faso, 2University of California, San Francisco, 3Columbia University, New York, NY, United States, 4Department of Pediatrics, Indiana University, Indiana, IN, United States, 5Department of Pediatrics, Division of Pediatric Hematology, Oncology and Stem Cell Transplantation, Columbia University Irving Medical Center, New York, NY, United States

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Adefisoye Oluwasanwo Adewole1, Nidainlasina Waziri2, Idriss Bomo3, Simple Edwin4, Babatunde Amoo5, Gideon Ugbenyo6, Rhoda Fadahunsi7, Elizabeth Adedefin8, Aishat Usman9, Belinda Uba10, Patrick Ngu11
1AFRICAN FIELD EPIDEMIOLOGY AND NETWORK, Abuja, Nigeria, 2ECOWAS Regional Center for Surveillance and Disease Control, West African Health Organization, Abuja, Nigeria
Global Health - Security/Emerging Infection Preparedness, Surveillance and Response(s)

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IMPROVED DATA QUALITY FROM AUTOMATED DHIS2 DATA EXCHANGE BETWEEN THE MALARIA RAPID REPORTING SYSTEM AND HEALTH MANAGEMENT INFORMATION SYSTEMS IN ZAMBIA
Japhet Chiwaula1, Dingani Chinfula1, Ronelle Knit2, Gift Sitenge3, Ignatious Banda4, Mercy Mwanza5, Isaac Mwase6, Celia Tusime7, Busiku Hamainza2

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Md Golam Dostoir Harun1, Lisa P Oakley1, Sharifun Amin Sumon2, Aninda Rahman3, Syed Abul Hassan Md Abdulullah4, Md Saiful Islam5, Ashley R Styczynski6, S. Cornelia Kaydos-Daniels6
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Arabella S V Stuart, Natalie G. Marchevsky, Xinxue Liu, Sagida Bibi, Federica Cappuccini, Christina Dold, Andrew J. Pollard, Christine S. Rollier
University of Oxford, Oxford, United Kingdom

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Dallas M. Rohraff1, Lilt Kazaazian1, Madeline R. Farron1, Rewa K. Choudhary1, Casey J. Siegel1, Katie R. Hooker1, Aishat Usman1, Muhammad S. Balogun1, Carol Y. Rao1
1Centers for Disease Control and Prevention (CDC), Atlanta, GA, United States, 2Communicable Disease Control, Directorate General of Health Services, Dhaka, Bangladesh, 3Safetynet, Dhaka, Bangladesh, 4University of New South Wales, Sydney, Australia, 5Centers for Disease Control and Prevention (CDC), Dhaka, Bangladesh

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ROOT CAUSE ANALYSIS OF HEALTH SECTOR VIOLENCE IN NEPAL: A QUALITATIVE EXPLORATION OF STAKEHOLDERS’ VIEWS
Pradip Lamsal, Bharati Bhetwal sapkota, Rabin Pokharel, Gupta Bahadur Shrestha
Helping Hands Community Hospital, Kathmandu, Nepal

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Christy H. Clutter1, Molly B. Klarmann2, Youseline Cajusma3, Emilee T. Cato2, Md Abu Sayeed2, Lindsey Brinkley2, Owen Jensen3, Chantale Baril4, V Madsen Beau De Rochars5, Andrew S. Azman1, Maureen T. Long6, Derek Cummings7, Daniel T. Leung1, Eric J. Nelson2
1University of Utah, Salt Lake City, UT, United States, 2University of Florida, Gainesville, FL, United States, 3State University of Haiti, Port au Prince, Haiti, 4Johns Hopkins University, Baltimore, MD, United States

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ANTIBIOTIC USAGE IN LAYER FARMS: POTENTIAL ROLE IN EMERGENCE OF ANTIBIOTIC RESISTANCE
Khushbu Khushbu, Pallavi Moudgil, Vijay J. Jhavad, Deepak Soni
College of Veterinary Sciences, Lala Lajpat Rai University Of Veterinary And Animal Sciences, Hisar, India

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GLOBAL PUBLIC HEALTH INTELLIGENCE: WORLD HEALTH ORGANIZATION OPERATIONAL PRACTICES
Neil J. Saad1, Blanche Greene-Cramer1, Adedoyin Awofisayo-Okuyelu1, Dubravka Selenic Minet1, Mania Almiront2, Kristina Swanson3, Masaya Kato4, Phiangiao Boosunk5, Tamano Matsui6, Manilay Phenxay4, Aura Corpuz7, Jeremias Naimeni8, Jukka Pukkilä9, Silviu Ciobanu10, Eben Koua1, George Sie Williams11, Olver Morgan12, Ibrahim Soce Fall1, Abdi Rahman Mahamud12, Esther L. Hamblion1, on behalf of the World Health Organization Public Health Intelligence Teams1
1World Health Organization, Geneva, Switzerland, 2World Health Organization Regional Office for the Americas, Washington DC, WA, United States, 3World Health Organization Regional Office for South-East Asia, New Delhi, India, 4World Health Organization Regional Office for the Western Pacific, Manila, Philippines, 5World Health Organization Regional Office for the Eastern Mediterranean, Cairo, Egypt, 6World Health Organization Regional Office for Europe, Copenhagen, Denmark, 7World Health Organization Regional Office for Africa, Brazzaville, Republic of the Congo, 8World Health Organization, Berlin, Germany, 9Opayo Ogundiran, Jean-Pierre Kimenyi, Perez Enriquez, Mahmoud Hassan, Ka Yeung Cheng, Lauren MacDonald, Tshewang Dorji, Hannah Brindle, Viema Biakula, Ariuntuya Ochipurev, Alessandro Miglietta, Anastasia Smimova, Etsub Tahelew, Harsh Lata, Kaja Kaasik, Lidia Ezerska, Tatiana Metcalf, Savina Stoiitso, Switzerland

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EPIDEMIOLOGICAL INVESTIGATION OF GROUPED CASES OF DEATH DUE TO POISONING WITH CLOSTRIDIUM BOTULINUM IN A VILLAGE IN CÔTE D’IVOIRE, AFRICA, DECEMBER 2022 - JANUARY 2023
Damus Paquin Kouassi, Béné Joseph Vroh Bi, DébyArsène Kouamé, Sory Ibrahim Soumahoro, M’Bégnan Coulibaly, Opri Irika, Fatoumata Bamba, François Brizalekou National Institute of Public Hygiene, Abidjan, Côte d’Ivoire

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THE PREVALENCE AND RISK FACTORS OF PTSD SYMPTOMS AMONG NURSES DURING THE COVID-19 PANDEMIC. A SYSTEMATIC REVIEW AND META-ANALYSIS
Santiago Hernandez, Adriana Campos, Jeegan Parikh, Jason Beckstead, Marc Lajeunesse, Derek Wildman
University of South Florida, Tampa, FL, United States

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PERCEPTIONS OF YELLOW FEVER EMERGENCY MASS VACCINATIONS IN UGANDA: A QUALITATIVE STUDY
Lena Huelb1, Aloysious Nnyombi2, Aban Kihumuro1, Denis Lukwago1, Eddy Walakira2, Ruth Kutalek2
1Department of Tropical Medicine, Bernhard Nocht Institute for Tropical Medicine & I Department of Medicine, University Medical Center Hamburg-Eppendorf, Hamburg, Germany, 2Department of Social Work and Social Administration, Makerere University, Kampala, Uganda, 3Department of Nursing and Health Sciences, Bishop Stuart University, Mbarara, Uganda, 4Clustor Monitoring and Evaluation Lead, Rakai Health Sciences Program, Masaka, Uganda, 5Unit Medical Anthropology and Global Health, Department of Social and Preventive Medicine, Center for Public Health, Medical University of Vienna, Vienna, Austria

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ASSESSMENT OF THE AVAILABLE RESOURCES AND MEASURES TO CONTROL COVID-19 AT THE DISTRICT-LEVEL IN LIBERIA
Helena Juah Nyanti
Alliance for Conscious Change Leader, Paynesville, Liberia
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ANTIBODY RESPONSE TO DIFFERENT COVID-19 VACCINES AMONG THE MIGRANT WORKERS OF BANGLADESH

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(ACMCIP Abstract)

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EFFICACY OF PIRIKOOL® 300 CS USED FOR INDOOR RESIDUAL SPRAYING ON THREE DIFFERENT SUBSTRATES IN SEMI-FIELD EXPERIMENTAL CONDITIONS

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MEASUREMENT OF OOCYST AND SPOROZOITE INFECTION RATES IN AN. GAMBIAE S.L. UNDER NATURAL CONDITIONS IN BANCOUMANA, MALI

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MEASUREMENT OF OOCYST AND SPOROZOITE INFECTION RATES IN AN. GAMBIAE S.L. UNDER NATURAL CONDITIONS IN BANCOUMANA, MALI

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(ACMCIP Abstract)

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(BMCMP Abstract)

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INVESTIGATION OF THE MEASLES OUTBREAK IN DJIBOUTI
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METAGENOMIC SEQUENCING REVEALS EXTENSIVE DIVERSITY OF RNA VIRUSES IN WESTERN AUSTRALIAN MOSQUITOES


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DENGUESEQ: DEVELOPMENT AND VALIDATION OF A PAN-SERO>Type WHOLE GENOME AMPICLON SEQUENCING APPROACH FOR DENGUE VIRUS


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DEVELOPMENT OF A PSEUDOTYPED LENTIVIRAL REPORTER VIRUS SYSTEM FOR NIPAH AND HENDRA VIRUSES
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MAPPING ANTIBODY EPITOPES USING A COMPREHENSIVE MUTAGENESIS LIBRARY OF SARS-COV-2 S PROTEIN
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DEVELOPING NOVEL INHIBITORS AGAINST VENEZUELAN EQUINE ENCEPHALITIS VIRUS BY TARGETING VIRUS-HOST INTERACTIONS
Abdulahi Temitope Jamni, Ivan Akhrumov, Kenneth Foreman, Dmitri Klimov, Mikell Paige, Kylene Kehn-Hall
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Malaria - Antimalarial Resistance and Chemotherapy

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FACTORS ASSOCIATED WITH ADHERENCE TO MALARIA TREATMENT GUIDELINES IN PRIVATE DRUG OUTLETS - KISUMU COUNTY, KENYA
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RETROSPECTIVE STUDY TO DETERMINE ANTIMALARIAL RESISTANCE MARKERS PROFILE USING TAQMAN ARRAY CARD (TAC) IN TAK PROVINCE THAILAND FROM 1998-2001
Sasikanya Thaloengsok, Chaiyaporn Chaisatit, Piyaporn Saingam, Paphavee (Lertsethtakarn) Ketwalha, Michele Spring, Sabathip Sriwichai, Suporn Pholwat, Jenny Galer, Eric Houpit, Brian Andrew Vesely
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EMERGING PLASMODIUM FALCIPARUM WITH REDUCED SUSCEPTIBILITY TO ARTESINEMIN AND LUMEFRANTRINE IN AFRICA

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SANGER SEQUENCING AND DECONVOLETION OF POLYCLONAL INFECTIONS: A QUANTITATIVE APPROACH TO MONITOR DRUG RESISTANT PLASMODIUM FALCIPARUM

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(ACMCIP Abstract)

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IDENTIFICATION OF NEW ANTIMALARIALS TARGETING THE P. FALCIPARUM PROLINE TRNA SYNTHETASE

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(ACMCIP Abstract)

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SIMPLE, INEXPENSIVE IN VITRO DRUG SURVIVAL ASSAY FOR MONITORING ANTIMALARIAL DRUG SENSITIVITY IN MALARIA ENDEMIC REGIONS

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(ACMCIP Abstract)

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ANALYSIS OF THE SUITABILITY OF USE OF MUTATIONS IN THE PFCRT-0 AND PVMDR1 GENES AS MARKERS OF RESISTANCE OF PLASMODIUM VIVAX TO CHLOROQUINE IN AMAZONIC BASIN

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(ACMCIP Abstract)

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IDENTIFICATION OF B-CARBOLINE DERIVATIVES ACTIVE AGAINST QUIESCENT ARTESINEMIN-RESISTANT PLASMODIUM FALCIPARUM

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PLASMODIUM FALCIPARUM KELCH13 R561H SPREAD AND EMERGENCE OF OTHER ARTESINEMIN PARTIAL RESISTANT MUTATIONS ACROSS RWANDA USING A SITE AND TEMPORAL RAPID POOLING STRATEGY

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PLASMODIUM FALCIPARUM DRUG RESISTANCE MARKERS AND GENETIC STRUCTURE IN MOZAMBIQUE, 2015-2022

Simone Salvador Boene1, Clemente da Silva1, Arlindo Chidimatembe2, Glória Matambisso1, Abel Nhama2, Eusebio Macete3, Pedro Aide4, Francisco Sáute5, Eduard Rovira-Vallbona6, Debyan Datta7, Alfredo Mayor8
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INADEQUATE ARTEMETHER-LUMEFANTRINE TREATMENT RESPONSE IN A 15-MONTH OLD PATIENT WITH UNCOMPLICATED FALCIPARUM MALARIA IN WESTERN KENYA: A CASE REPORT

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ESTIMATING THE IMPACT OF PLASMODIUM FALCIPARUM DHFR AND DHPS MUTATIONS ON PROTECTIVE EFFICACY OF SULFADOXINE-PYRIMETHAMINE: EVIDENCE FROM THERAPEUTIC EFFICACY STUDIES AND IMPLICATIONS FOR MALARIA CHEMOPREVENTION

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IMPACT OF SEASONAL MALARIA CHEMOPREVENTION (SMC) ON MOLECULAR MARKERS OF PLASMODIUM FALCIPARUM ANTIMALARIAL DRUG RESISTANCE IN KOULIKORO HEALTH DISTRICT, MALI

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SYSTEMATIC REVIEW & GEOSPATIAL MODELLING OF MOLECULAR MARKERS OF RESISTANCE TO ARTESININS & SULFADOXINE-PYRIMETHAMINE IN PLASMODIUM FALCIPARUM INDIA


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PHARE, A BIOINFORMATICS PIPELINE TO DETECT MINORITY HAPLOTYPES IN MULTICLONAL SPECIMENS

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MOLECULAR MARKERS OF RESISTANCE TO SULFADOXINE-PYRIMETHAMINE AND AMODIAQUINE IN THE HEALTH DISTRICT OF BOUSSE, BURKINA FASO

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RESISTANCE HAPLOTYPES DETECTED IN PREGNANT WOMEN IN BURKINA FASO RECEIVING INTERMITTENT PREVENTIVE TREATMENT WITH SP

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DIAGNOSTIC PERFORMANCE OF N versatile Malaria PF TEST FOR THE DETECTION OF PLASMODIUM FALCIPARUM IN SCHOOL CHILDREN WITH ASYMPTOMATIC MALARIA

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EVIDENCE OF NON-FALCIPARUM PLASMODIUM CIRCULATION IN WESTERN AND EASTERN SENEGAL AND ITS IMPLICATIONS FOR MALARIAC CONTROL

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PERFORMANCE EVALUATION OF NOVEL LDH-BASED RAPID DIAGNOSTIC TESTS FOR F. FALCIPARUM AND R. VIVAXMALARIA ON FROZEN SPECIMENS: IMPLICATIONS FOR ACCESS TO RADICAL CURE

Marcelo Brito, Dhiello Pereira, Anne Almeida, Gabrielly Santos da Silva, Emmanuelle Lira, Vanessa Castro, Stephanie Zobrist, William Sheahan, Eduardo Garbin, Emily Gerth-Guyette, Sampa Pal, Allison Golden, Marcus VG Lacerda, Gonzalo J. Domingo, Fundação de Medicina Tropical Dr Heitor Vieira Dourado (FMT/HVD), Manaus, Brazil; 2Centro de Pesquisa Em Medicina Tropical (CEPEM), Porto Velho, Brazil; 3Fundação de Medicina Tropical Dr Heitor Vieira Dourado (FMT/HVD) and Universidad del Estado del Amazonas, Manaus, Brazil; 4PATH, Seattle, WA, United States; 5Fundação de Medicina Tropical Dr Heitor Vieira Dourado (FMT/HVD) and Instituto Leônidas & Maria Deane (ILMD), Manaus, Brazil

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LOW PREVALENCE OF PFHRP2 AND PFHRP3 DELETIONS AND NON-FALCIPARUM MALARIA INFECTIONS IN OUTPATIENTS SAMPLED DURING THE 2021 BENIN HEALTH FACILITY SURVEY

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PLASMODIUM FALCIPARUM KELCH13 MUTATIONS IN ERITREA AND ASSOCIATIONS WITH PFHRP2 AND PFHRP3 DELETIONS
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SURVEILLANCE OF PLASMODIUM FALCIPARUM HRP23 GENE DELETIONS IN MOZAMBIQUE: A PROSPECTIVE STUDY
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AVAILABILITY OF FREE MALARIA RAPID DIAGNOSTIC TESTS AT THE LEVEL OF PRIVATE PHARMACIES FOR THE CONFIRMATION OF THE DIAGNOSIS OF MALARIA PRIOR TO ANTIMALARIAL TREATMENT: RESULTS OF A PILOT PROJECT IN BENIN: MARCH TO DECEMBER 2022
Edgard Mario Badet, Virginie Gnaguenon, Eugène Montcho, Patrick Condo, Cyriaque D. Affoukou, Gisalaine Loko Djidjohoue, Mourchidhathe Adegbinti, Pascal Fafeh, Vivien Akan
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MALARIA PARASITEMIA ESTIMATES BASED ON HRP2 AND PLDH ANTIGEN CONCENTRATIONS FROM A LARGE HOUSEHOLD SURVEY IN NIGERIA: HOW MUCH DIFFERENCE DOES RDT PERFORMANCE MAKE?
Laura Steinhardt, Abiodun Ogunniyi, Nwando Mba, Ado Abubakar, Perpetua Uhuomoibhi, McPaul Okoye, Nnaemeka Iriemenam, Michael Aidoo, Eric Rogier, Chikwe Ihekweazu
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MALARIA MISDIAGNOSIS IN THE ROUTINE HEALTH SYSTEM IN ARBA MINCH AREA DISTRICT IN SOUTHWEST ETHIOPIA: AN IMPLICATION FOR MALARIA CONTROL AND ELIMINATION
Engida Yigezu, Biniam Wondale, Daniel Abebe, Girum Tamiru, Nigatu Eligo, Bernt Lindtjørn
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USER PERCEPTIONS OF A SMARTPHONE-BASED MALARIA RAPID DIAGNOSTIC TEST (RDT) FOR COMMUNITY AND PRIVATE CLINIC-BASED HEALTH WORKERS IN WESTERN KENYA
Wycliffe Waweru, Shawna Cooper, Christopher Lourenco, Malia Skjeeffe, Christine Oduor, Sam Smedinghoff, Stephen Poyer

LACK OF MUTANT P. FALCIPARUM PARASITES WITH PFHRP2AND PFHRP3 GENE DELETIONS IN ANLONG VENG AND KRATIE, CAMBODIA
Cielo Pasay, David Smith, Karen Anderson, Jennifer Sally, Brian Vesely, Mariusz Wojnarowski, Worchuch Kuntawungnirat, Nillawan Buathong, Kittjarakon Phontham, Lychthea Huot, Qin Cheng
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PERFORMANCE AND USABILITY EVALUATION OF NOVEL MALARIA RDTs FOR IMPROVED CASE MANAGEMENT IN KÉDOUGOU, SENEGAL
Stephanie Zobrist, Babacar Souleymane Sambe, Divya Soni, Aissatou Diagne, Ibrahim Sarr, Arona Sabene Diatta, William Sheahan, Sampa Pa, Allison Golden, Rebecca Green, Yakou Dieye, Moustapha Cisse, Gonzalo J. Domingo, Makhtar Niang
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DEVELOPMENT OF A FIELD-DEPLOYABLE RT-PCR DIAGNOSTIC SYSTEM FOR PLASMODIUM DETECTION IN ANOPHELES SPECIES.
Madhavanhada Prasad Kona, George Dimopoulos
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EVALUATION OF MALARIA RAPID DIAGNOSTIC TEST SERVICES PERFORMANCE AT HEALTH POSTS IN ETHIOPIA
Adugna Abeba, Abnet Abebe, Desalegn Negu, Bokretsion Gidey, Ashenafi Assefa, Geremaw Tasew, Adugna Woyessa
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A NOVEL COMPETITIVE ELISA ASSAY TO MEASURE AMODIAQUINE CONCENTRATION IN CHILDREN RECEIVING SULFADOXINE-PYRIMETHAMINE PLUS AMODIAQUINE FOR SEASONAL MALARIA CHEMOPREVENTION IN KOULIKORO, MALI.
Ilo Dicko, Hawa Boukary Diarra, Daouda Sanogo, Soumbe Keita, Fousseyni Kane, Ibrahim Sanogo, Mountaga Diallo, Nadie Coulibaly, Mamadou Wague, Hamady Coulibaly, Jingji Qian, Baomin Wang, Liwang Cui, Djenaba Dabitaou, Mahamoudou Toure, Seydou Doumbia
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USING DEATH AUDITS TO IMPROVE CLINICAL MANAGEMENT OF SEVERE MALARIA AND MAP KEY NEEDS TO REDUCE MORTALITY IN NORTHERN ANGOLA
Teresa Nobrega, David Sunda, Davista Abilio, Gabriel Wangama, Jose Franco Martins, Ana Direito, Sergio Lopes
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MULTIPLY LAMP COUPLED TO CARTRIDGE BASED NALFA DEVICE AS A ONE POT DIAGNOSTIC PLATFORM FOR MALARIA

Nabil Royez, Ayesha Wijesinghe, Jack Burke-Gaffney, Hitendra Kumar, Claire Kamalidin, Shoaib Ashraf, Dylan R. Pillai
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MALARIO RDT INTERPRETATION ACCURACY OF HEALTH WORKERS COMPARED TO ARTIFICIAL INTELLIGENCE (AI) AND PANEL READ IN KANO STATE, NIGERIA

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EVOLUTION OF PFHRP2 AND PFHRP3 DELETIONS IN EQUATORIAL GUINEA BETWEEN THE PRE AND POST RDT INTRODUCTION AND THE IMPACT OF PUBLIC HEALTH STRATEGIES ON THEIR EXPANSION

Irene Molina de la Fuente, M. Andrea Pacheco, Luz García, Vicenta González, Matilde Riloha, Consuelo Oki, Policarpo Ncoço, Agustín Benito, Ananias A. Escalante, Pedro Berzosa
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Malaria - Drug Development and Clinical Trials

SUPEROXIDE GENERATION AND REDOX CYCLING OF PRIMAQUINE METABOLITES ARE DRIVEN BY BILVERDIN REDUCTASE B AND N-RIBOSYLDIHYDRONICOTINAMIDE:QUINONE REDUCTASE 2

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POTENT ACYL-COA SYNTHETASE 10 INHIBITORS KILL PLASMODIUM FALCI/PARUM BY DISRUPTING TRIGLYCERIDE FORMATION

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FIGHTING MALARIA WITH IRRESISTIBLE DRUGS

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LEVERAGING RWANDA’S COMMUNITY HEALTH WORKERS TO CONDUCT A THERAPEUTIC EFFICACY STUDY IN AREAS OF DECLINING MALARIA TRANSMISSION

Noelia Umulisa, Aline Uwimana, Katherine Wolf, Jean M. Harerimana, Celestin Nitiranderka, Naomi Lucchi, Kaendi Mungutu, Beata Mukarugwiro, Jehan Ahmed, Amable Mbituyumuremyi
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NOVEL MULTIPLE-STAGE ANTIMALARIAL PRODIGININES

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SPATIO-TEMPORAL DISTRIBUTION OF MALARIA CASES IN MUTASA DISTRICT FOLLOWING MALARIA CONTROL INTERVENTION BETWEEN 2017 AND 2023

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SPATIAL DYNAMICS OF MALARIA TRANSMISSION

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EPIDEMIOLOGICAL PROFILE OF PLASMODIUM SPECIES IN SYMPTOMATIC SUBJECTS IN THE CITIES OF BANDUNDU AND KIKWIT&TKWILU PROVINCE&GDTRIPUBLIC REPUBLIC OF CONGO

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METHODOLOGY TO ESTIMATE DISTRIBUTION OF MALARIA CASES AMONG CHILDREN IN SUB-SAHARAN AFRICA BY SPECIFIED AGE CATEGORIES

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PREVALENCE OF ASYMPTOMATIC AND SUBMICROSCOPIC MALARIA INFECTIONS AMONG PATIENTS IN YAOUNDE, CAMEROON

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EXPLORING THE COST EFFECTIVENESS OF PROACTIVE CASE DETECTION IN HARD-TO-REACH, HIGH INCIDENCE COMMUNITIES FROM A COHORT STUDY IN SOUTHEAST MADAGASCAR

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GENETIC DIVERSITY AND GENOTYPE MULTIPLICITY OF PLASMODIUM FALCIPARUM INFECTION IN PATIENTS WITH UNCOMPICLATION MALARIA IN CHEWAKA DISTRICT, ETHIOPIA

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ULTRA-DEEP AMPICION SEQUENCING OF HIGHLY POLYMORPHIC NOBLE MARKERS OF PLASMODIUM FALCIPARUM SHOWS DECLING OF MALARIA TRANSMISSION IN ETHIOPIA

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GENETIC DIVERSITY OF PLASMODIUM FALCIPARUM AND TRANSMISSION PATTERNS IN FOREST-GOING POPULATIONS IN SOUTHERN LAO PDR

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GENETIC DIVERSITY OF PLASMODIUM FALCIPARUM AND GENETIC PROFILE IN CHILDREN WITH ACUTE UNCOMPICLATION MALARIA IN CAMEROON

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CYP3A4 GENE VARIANTS IN RESIDENTS OF LAKE VICTORIA REGION, KENYA, 2013

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Malaria - Genetics, Genomics and Evolution

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**PLASMODIUM FALCIPARUM WITH PFHRP2 AND PFHRP3 GENE DELETIONS IN ASYMPTOMATIC MALARIA INFECTIONS IN THE LAKE VICTORIA REGION, KENYA**

Takatsugu Okai, Chim Wai Chan, Wataru Kagaya, Protus Okwot Omondi, Kelvin Brian Musyoka, James Kongere, Jesse Gitaka, Akira Kaneko

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**5442**

**POPULATION AND EVOLUTIONARY GENETICS OF AMA1 GENE IN CAMEROONIAN PLASMODIUM FALCIPARUM ISOLATES**

Joseph Hawadak, Loick Pradel Kojom Foko, Rodurige Roman Dongang Nana, Vineeta Singh

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(ACMCIP Abstract)

**5443**

**GENETIC DIVERSITY AND MOLECULAR EVOLUTION OF PLASMODIUM VIVAX/DUFFY BINDING PROTEIN AND MEROZOITE SURFACE PROTEIN I IN NORTHWESTERN THAILAND**

Paraskorn Tapaopong

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(ACMCIP Abstract)

**5444**

**PREDICTING THE GENETIC SIGNATURES OF DRY SEASON AESTIVATION AMONG MALARIA TRANSMITTING MOSQUITOES**

Rita Mwima, Tin-Yu Jonathan Hui, Austin Burt

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**5445**

**TRANSCRIPTOME ANALYSIS REVEAL MOLECULAR TARGETS OF INVASION PHENOTYPE DIVERSITY IN NATURAL PLASMODIUM FALCIPARUM ISOLATES FROM MALARIA ENDEMIC REGIONS OF CAMEROON**

Ines A. Ngoh, Karim Mane, Damian N. Anong, Thereesa N. Akenji, Jarrah Mannehr, Fatoumata Bojang

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(ACMCIP Abstract)

**5446**

**NANOPORE SEQUENCING FOR REAL-TIME GENOMIC SURVEILLANCE OF PLASMODIUM FALCIPARUM**


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**5447**

**GYPB DELETION VARIANTS (DEL1 AND DEL2) DISTRIBUTION AMONG GHANAIAN POPULATIONS AND RELATIONSHIP WITH MALARIA SUSCEPTIBILITY**

Dominic SY Amuzu, Lucas N. Amenga-Etego, Kirk A. Rockett, Collins M. Moranga, Nancy K. Nyakoe, Ellen M. Leffler, Christina Hubbard, Kate Rowlands, Anna Jeffreys, Alfred Amambua-Ngwa, Dominick P. Kwiatkowski, Gordon A. Awandare

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(ACMCIP Abstract)

**5448**

**INCREASED FREQUENCY OF PFHRP2-DELETED PLASMODIUM FALCIPARUM IN THE PERUVIAN AMAZON IS NOT EXPLAINED BY SELECTION OF THE GENE DELETION**

Erick Figueroa-Ildefonso, Hugo Valdivia, Eline Kattenberg, Christopher Delgado-Ratto, Anna Rossanas-Urgell, Dionicia Gabriela

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**5449**

**HYBRID CAPTURE SEQUENCING OF PLASMODIUM MALARIAE FROM TANZANIA**

Zachary R. Popkin-Hall, Misago D. Seth, Rashid A. Madebe, Rule Budod, Oksana Kharabora, Claudia F. Gaither, Catherine Bakari, David J. Giesbrecht, Celine I. Mandari, Daniel Mbwamboro, Sijenunu Aaron, Samwel Lazaro, Eric Rogier, Jeffrey A. Bailey, Jessica T. Lin, Jonathan J. Juliano, Deus S. Ishengoma

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**5450**

**EXPLORING HOW TRANSMISSION INTENSITY, SAMPLING, AND HUMAN MOBILITY IMPACT OUR ABILITY TO MEASURE GENETIC RELATEDNESS ACROSS PLASMODIUM FALCIPARUM POPULATIONS**

Sophie Berube, Rohan Arambepola, Betsy Friedman, Steve Taylor, Wendy O’Meara, Andrew Obala, Amy Wesolowski

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**5451**

**AMPLICON DEEP SEQUENCING REVEALS MULTIPLE GENETIC EVENTS LEAD TO TREATMENT FAILURE WITH ATIVAMINE-PROGUANIL INPLASMODIUM FALCIPARUM**

Daniel Castañeda-Mogollón, Noah B. Toppings, Claire Kamaliddin, Dylan R. Pillai

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**Malaria - Immunology**

**5452**

_A Candidate Gene Analysis of Severe Malaria Variants in a Cohort of Malian Children Identifies a Novel Susceptibility Locus in CSM1Dogene_

Delesa Damen Mulisa, Amadou Barry, Robert Morrison, Santara Gaoussou, Almahamoudou Mahama, Omar Attaheh, Allassane Dicko, Patrick Duffy, Michal Abdouramane Traore, Karamoko Tangara

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**5453**

_Protective Humoral Response to Plasmodium Falciparum Pf27 and Its Ortholog Plasmodium Vivax Pv27 Antigens in Sera from Dangassa and Koila, Two Malaria Endemic Areas in Mali_

Salimata Kante, Saidou Balam, Drissa Konate, Merepen dite Agnes Guindo, Abdouramane Traore, Karamoko Tangara, Issouf Y Maiga, Sedina AS Diakite, Fatoumata Kasse, Karim Traore, Larissa Denou, Seydou Doumbia, Corradin Giampietro, Mahamadou Diakite

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(ACMIPC Abstract)

**5454**

_Broadly Reactive Antibodies Target Severe Malarial Antigen to Neutralise Parasite Sequestration_

Sai Sundar Rajan Raghavan, Louise Turner, Gregory Martin, Andrew Ward, Evelien Bunnik, Thomas Lavstsen

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(ACMIPC Abstract)

**5455**

_The Chemokine Receptor CXCR3 Plays a Critical Role in T Cell-Mediated Protection from Liver-Stage Plasmodium Infection_

Rebecca Blyn, Laura M. Reynolds, Lisa Wegmair, Patrick Lewis, Amina Sheikh, Vera Okolo, Brandon Wilder, Stefan Kappe, Nana Minkah

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(ACMIPC Abstract)

**5456**

_Immunological Profiling of Malaria Phenyotypes in Endemic Areas of Kenya: A Longitudinal Cohort Study_

Laura Barbieri, Wataru Kagaya, Mtakal Ngaro, James B. Wing, James Kongere, Chin W. Chan, Bernard N. Kanoji, Cedrick Shikhol, Jesse Gitakor, Akira Kaneko

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(ACMIPC Abstract)

**5457**

_Opsonic Phagocytosis IgGs to ICAM1 Binding Plasmodium Falciparum Erythrocyte Membrane Protein 1 Are Associated with the Clinical Presentation of Malaria in Beninese Children_


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**5458**

_Composition of Pre-Transmission Season Stool Microbiota is Associated with Resistance to Malaria in Older Malian Children_

Kristin Van Den Ham, Layne Bowser, Morgan Little, Olivia Bednarski, Elizabeth Fuscio, Rabindra Mandal, Piten Mitra, Shangping Li, Safatou Doumbour, Didier Doumtabe

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**5459**

_Evaluating the Impact of Natural Killer Cell Phenotype, Malaria Diversity and Transmission, and Erythrocyte Polymorphisms on Antibody-Dependent Cellular Cytotoxicity_


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**5460**

_Biochemical and Bioinformatic Characterization of Surface Expressed Hypervariable Protein Families (Rifin and Stevor) Associated with Pathogenesis and Acquired Immunity to Plasmodium Falciparum Infection_

Hristina Vasilyeva

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

(ACMIPC Abstract)

**5461**

_Cryo-Em Reveals the Structural Basis of Epitope Selectivity and Protection from Malaria Infection in a Family of Potent Anti-Pfcrsp Antibodies_

Gregory Martin, Jon Torres, Tossapal Pholcharoe, Monica Fernandez Quintero, Wen-Hsin Lee, Yevel Flores-Garcia, Daniel Emerling, Randall MacGill, Emily Locke, C. Richter King, Ashley Birkett, Fidel Zavala, Ian Wilson, Andrew Ward

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**Malaria – Pathogenesis**

**5462**

ANTIBODY PROFILES AGAINST NON-MALARIA PATHOGENS DISPLAYED IN *P. VIVAX*-INFECTED INDIVIDUALS FROM THE PERUVIAN AMAZON

Elizabeth Melisa Villasis, Fiona Angrißanova, Mitchel Guzman, Julian Torres, Katherine Garro, Stefano Garcia, Carolina Abanto, Luis Cabrera, Herbert Opi, James Beeson, Joseph Vinetz, Dionicia Gamboa, Leanne Robinson, Katherine Torres

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(ACMCIP Abstract)

**5463**

PLACENTAL MALARIA MODULATES NEONATAL DENDRITIC CELLS’ PHENOTYPE AND FUNCTION: A CROSS SECTIONAL STUDY IN BENIN

Sebastien Dechavanne, Omar Malade, Simon Akpi, Nadine Fievet, Achille Massougbodji, Elodie Segura, Celia Dechavanne

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(ACMCIP Abstract)

**5464**

THE ROLE OF PFEMP1 IN SICKLE-CELL RESISTANCE TO PLASMODIUM FALCIPARUM MALARIA

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(ACMCIP Abstract)

**5465**

ASSESSMENT OF HOST CLINICAL PARAMETERS AND PARASITE DETERMINANTS RESPONSIBLE FOR DISEASE SEVERITY

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(ACMCIP Abstract)

**5466**

THE DIRECT BINDING OF PLASMODIUM VIVAX AMA1 TOERYTHROCYTES DEFINES A RON2-INDEPENDENT INVASION PATHWAY

Seong-Kyun Lee, Leanne Low, John Andersen, Lee Yeo, Paola Carolina Valenzuela Leon, Damien Drew, Johannes Doehl, Eric Calvo, Louis Miller, James Beeson, Karthigyan Gunalan

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(ACMCIP Abstract)

**5467**

ELEVATED FERRITIN, SEVERE MALARIA, AND ACUTE KIDNEY INJURY

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(ACMCIP Abstract)

**5468**

IMPACT OF SEASONAL MALARIA CHEMOPREVENTION ON MALARIA PREVALENCE AND IMMUNITY AMONG CHILDREN IN NORTHERN BENIN

Azizath Moussiliou, Charles Ahouansou, Blaise Choki, Achille Massougbodji, Adrian Luty, Thierry Adoukonou, Nicaise Georges Tukue Ndami

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(ACMCIP Abstract)

**5469**

NEUREGULIN 1 DECREASES HEME-INDUCED INFLAMMATION IN INDUCED PLURIPOTENT STEM CELLS-DERIVED ENDOTHELIAL CELLS FROM CHILDREN WITH INTRAVASCULAR HEMOLYSIS

Cecilia Elorm Lekpor, Adriana Harbuzariu, Andrew A. Adjei, Afsa Darkwah Abrahams, Felix A. Botchway, Michael D. Wilson, Kwadwo A. Kusi, Godfried Futagbi, Wesley Solomon, Jonathan K. Stiles

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(ACMCIP Abstract)

**5470**

IDENTIFICATION OF BIOMARKERS ASSOCIATED WITH MALARIA IN PREGNANCY AND CLINICAL CORRELATION WITH OUTCOMES

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**5471**

HISTOPATHOLOGICAL CHARACTERISTICS OF DISCRETE BRAIN REGIONS DURING P. FALCIPARUM MALARIA IN A NONHUMAN PRIMATE MODEL

James Prusak, Krystal Vail, Sydney Nemphos, Hannah Green, Sallie Fell, Chad Massey, Monica Embers, Robert Blair, Brooke Grasperge, Tracy Fischer, Andrew MacLean, Berlin Londono-Renteria, Jennifer A. Manuzak

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(ACMCIP Abstract)

**5472**

COMPARISON OF *P. FALCIPARUM* GROWTH IN VITRO AND IN VIVO IN HUMANISED MICE

Katty Wadda, James Keeble, Giselle McKenzie, Christine Zverev, Rose Leahy, Vicky Rannow, Jessica Gruninger, Charles Olomu, Shaun Baker, Paul Bowyer, Sandrine Vessillier, Alison Kemp, Julian Rayner, Sandra Diebold, Adela Nacer

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(ACMCIP Abstract)
Malaria - Prevention

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GENERATION OF A PLASMODIUM BERGHEI LINE EXPRESSING A HALOTAGGED PARASITOPHOROUS-VACUOLE MEMBRANE PROTEIN TO STUDY TARGETED PROTEIN DEGRADATION DURING LIVER STAGE MALARIA
Melanie Lam1, Ashley A. Lantigua2, Laura Torres3, Alexander Probst4, Jyothesha R. Kumar5, Alixion Torres6, Alex Chao7, Zacharias Thiel8, Maude Pattori9, Carole Maneville10, Matthew F. Fishbaugh11, Erika E. Flannery12, Thierry T. Diagana13, David Marcellin14, Beat Nyfeler15, Sebastian A. Mikolajczak16, Anke Harupa-Chung17, Gabriel Mitchell18
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PATHWAYS OF MALADAPTIVE REPAIR FOLLOWING SEVERE MALARIA ASSOCIATED ACUTE KIDNEY INJURY
Anthony Batte1, Ruth Namazi1, Geoffrey Situmma1, Robert O. Opoka2, Stuart L. Goldstein3, Chandy C. John4, Andrea L. Conroy5
1Makerere University College of Health Sciences, Kampala, Uganda, 2Global Health Uganda, Kampala, Uganda, 3Cincinnati Children’s Hospital Medical Center, Cincinnati, OH, United States, 4Indiana University, Indianapolis, IN, United States

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DRIVERS OF LONG-LASTING INSECTICIDE-TREATED NET UTILIZATION AND PARASITEMIA AMONG UNDER-FIVE CHILDREN IN 13 STATES WITH HIGH MALARIA BURDEN IN NIGERIA
Perpetua Uhomboh1, Chukwu Okoronkwo1, Ikeoluwapo Ajayi2, Olugbenga Mokuolu3, Ibrahim Maikore4, Adeniyi Fagbamiye5, Joshua Awinyemi6, Festus Okoh7, Cyril O. Ademun8, Issa Bolakale Kauw9, Jo-angelina Kalambo10, James Ssekitooleko11
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1Aga Khan University Hospital, Karachi, Pakistan, 2University of Sydney, Sydney, Australia, 3Liaquat National Hospital, Karachi, Pakistan
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Md. Shabab Hossain
International Centre for Diarrhoeal Disease Research, Bangladesh (icddr,b), Dhaka, Bangladesh

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ASSESSING IMPACT OF IVERMECTIN AND ALBENDAZOLE MASS DRUG ADMINISTRATION ON TRANSMISSION OF LYMPHATIC FILARIASIS IN 24 DISTRICTS IN SENEGAL

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BENCHMARKING AN ACCESSIBLE METHOD FOR GENERATING COMPLETE GENOMES FROM PARASITIC NEMATODES

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Helminths – Nematodes – Filariasis

IMPACT OF Wuchereria Bancrofti Infection on Cervical Mucosal Immunity of Women in Lindi, Tanzania

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(ACMCIP Abstract)
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UTILITY OF THE LOOP-MEDIATED ISOTHERMAL AMPLIFICATION ASSAY FOR THE DIAGNOSIS OF VISCERAL LEISHMANIASIS FROM BLOOD SAMPLES IN ETHIOPIA
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EVALUATION OF NOVODIAG® STOOL PARASITES TEST, A HIGH-PLEX STOOL TEST, AGAINST TRADITIONAL METHODS IN A HIGH-RISK TRAVELLER AND MIGRANT POPULATION AS A POTENTIAL FOR QUICKER AND MORE ACCURATE IDENTIFICATION OF INTESTINAL PARASITES
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DRIED BLOOD SPOTS (DBS): A SUITABLE ALTERNATIVE TO USING WHOLE BLOOD SAMPLES FOR DIAGNOSTIC TESTING OF VISCERAL LEISHMANIASIS IN THE POST-ELIMINATION ERA
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EVALUATION OF TRYPANOSOMA CRUZI AMASTIGOTE ANTIGENS IN CARDIAC TISSUE AT DIFFERENT POST-INFECTION TIMES
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HYBRID ASSEMBLY OF THE LEISHMANIA VIANNIA PERUVIANA GENOME

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MECHANISM OF INTESTINAL BARRIER REPAIR IN GIARDIASIS

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GENOMIC ANALYSIS DEMONSTRATES EXTENSIVE DIVERSITY AND SUBTLE POPULATION STRUCTURE IN PLASMODIUM VIVAX ACROSS 9 DISTRICTS OF ETHIOPIA

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GENOME ASSEMBLY OF TRYPANOSOMA CRUZI TULAHUEN STRAIN REVEALS HIGHLY ABUNDANT TRANSPOSABLE ELEMENTS ASSOCIATED WITH VARIABLE SURFACE PROTEINS

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ZOONOTIC HEPATITIS E VIRUS GENOTYPE 3 STRAIN DETECTED IN A CAPYBARA (HYDROCHERIS HYDROCHAERIS) FECAL SAMPLE, BRAZIL

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ASYMPTOMATIC VISCERAL LEISHMANIASIS PREVALENCE IN MILITARY WORKING DOGS COMPARED TO SOLDIERS DEPLOYED TO IRAQ

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DOES CAVE USE POSE A RISK FOR PATHOGEN SPILL? A CASE OF CHEKWOPUTOI CAVE IN MT ELGON EASTERN UGANDA

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PURCHASE, CONSUMPTION, AND OWNERSHIP OF CHICKENS AND CHICKEN PRODUCTS AMONG HOUSEHOLDS IN MAPUTO, MOZAMBIQUE: A CROSS-SECTIONAL STUDY

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EXPLORING THE HEALTH SEEKING BEHAVIOR OF SNAKEBITE VICTIMS AND COMMUNITY PERCEPTIONS IN THE VOLTA AND OTI REGIONS OF GHANA

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PREVALENCE AND RISK FACTORS FOR HUMAN LEPTOSPIROSIS IN A PASTORALIST COMMUNITY, ENDULEN, TANZANIA

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CRIMEAN CONGO HEMORRHAGIC FEVER IN TANZANIA: RELEVANCE OF ONE HEALTH APPROACH ON UNDERSTANDING THE EPIDEMIOLOGY OF A PRIORITY ZOONOSIS

Ray Kayaga1, Gabriell Shirima1, Lugano Kusiluka1, Sarah Cleaveland1, Blandina Mmbaga2, Felix Lankester3, Furaha Mramba3, William B. karesh1, Elichia Shao1, Tito Kibona1, Roger Hewson4, Oliver Carr5, Brian Willett6, Ryan Carter6, Andrew Clarke7, Julius Kyyu7, Carlos Zambrana-Torrelio1, Abdul Lukambagire8, Nichiar Gregory9, Rebecca Bodenham10, Johana Teigen11, Melinda Rostal12

1Nelson Mandela African Institution of Science and Technology, Arusha, United Republic of Tanzania, 2Mzumbe University, Morogoro, United Republic of Tanzania, 3University of Glasgow, Glasgow, United Kingdom, 4Kilimanjaro Clinical Research Institute, Moshi, United Republic of Tanzania, 5Washington State University, Washington, DC, United States, 6Hester Biosciences Africa Limited, Kibaha, United Republic of Tanzania, 7EcologyHealth Alliance, New York, NY, United States, 8Kilimanjaro Christian Medical University College, Moshi, United Republic of Tanzania, 9Global Animal Health, Arusha, United Republic of Tanzania, 10UK Health Security Agent, Porton Down, United Kingdom, 11Tanzania Wildlife Research Institute, Arusha, United Republic of Tanzania

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ARPHILAKE COMBATING ANTIBIOTIC RESISTANCE IN PHILIPPINES' LAKES: ONE HEALTH UPSTREAM INTERVENTIONS TO REDUCE THE BURDEN

Ricardo Castellanos1, Windell Rivera2, Ana Pereira Do Vale3, Paul Wigley7, Stefanos Giannakos4, Dylan R. Pillai5

1University of Calgary, Calgary, AB, Canada, 2University of Philippines Diliman, Manila, Philippines, 3University College Dublin, Dublin, Ireland, 4University of Bristol, Bristol, United Kingdom, 5Polytechnic University of Madrid, Madrid, Spain
5642
CHARACTERISING PSYCHOSOCIAL IMPACT OF TUBERCULOSIS AND THE SOCIAL SUPPORT NEEDS FOR PEOPLE WITH TUBERCULOSIS IN INDONESIA
Ahmad Fuady1, Bustanul Arifin1, Ferdiana Yunita1, Saidah Rauf1, Agus Fitriangga1, Agus Sugiharto1, Finny Fitri Yani1, Helmi Suryani1, I Wayan Gede Artawan Eka Putra1, Muchtaruddin Mansyur2, Tom Wingfield1
1Universitas Indonesia, Jakarta, Indonesia, 2Universitas Hasanuddin, Makassar, Indonesia, 3Universitas Gunadarma, Depok, Indonesia, 4Politeknik Kesehatan Kemenkes Maluku, Maluku, Indonesia, 5Universitas Tanjungpura, Pontianak, Indonesia, 6Universitas Andalas, Padang, Indonesia, 7Universitas Jambi, Jambi, Indonesia, 8Universitas Udayana, Bali, Indonesia, 9Liverpool School of Tropical Medicine, Liverpool, United Kingdom

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DIAGNOSTIC ACCURACY OF THE NOVA TUBERCULOSIS TOTAL ANTIBODY RAPID TEST FOR DETECTION OF PULMONARY TUBERCULOSIS AND INFECTION WITH MYCOBACTERIUM TUBERCULOSIS
Gideon Nsubuga
Makerere University, Kampala, Uganda

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Orchid M. Alliço, Tzu-Yi Lin, Katherine Fajardo, Devyn Yolda-Carr, Claire Laxton, Maikel S. Hislop, Jianhui Wang, Denora Zuniga, William Platt, Beth Tuhyo, Anne L. Wyllie
1Yale School of Public Health, New Haven, CT, United States, 2Yale University, New Haven, CT, United States

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PREVALENCE OF NASOPHARYNGEAL CARRIAGE OF MACROLIDE RESISTANCE-ASSOCIATED CRM GENES AMONG HEALTHY CHILDREN AND ADULTS IN A PERI-URBAN COMMUNITY IN LIMA, PERU
Cara E. Charnogursky1, Ana I. Gil, Lucie Ecker1, Rubelio Cornejo1, Stefano Rios1, Mayra Ochoa1, Bia Peña1, Omar Flores1, Claudia F. Lanata1, Carlos G. Grijalva1, Leigh M. Howard1, Fara Rahdah Hussein1
1Tuanku Mizan Armed Forces Hospital, Kuala Lumpur, Malaysia, 2Putrajaya Hospital, Kuala Lumpur, Malaysia, 3International Islamic University, Pahang, Malaysia, 4National University of Malaysia, Kuala Lumpur, Malaysia

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VACCINATION FOLLOWING THE EXPANDED PROGRAM ON IMMUNIZATION SCHEDULE COULD HELP TO REDUCE DEATHS IN CHILDREN UNDER FIVE HOSPITALIZED FOR PNEUMONIA & SEVERE PNEUMONIA IN A DEVELOPING COUNTRY
Abu Sadat Mohammad Sayeem Bin Shahid, Tahmina Alam, Lubaba Shahrin, Mohammad Jobayer Chisti
International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

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RESPIRATORY SYNCYTIAL VIRUS INFECTION IN CHILDREN ADMITTED TO A PEDIATRIC INTENSIVE CARE UNIT IN GHANA AMID COVID-19 PANDEMIC
Comfort Nuamah Antwi1, Evangelina Oboadi1, Kwabena Osman1, Jonas Kusah1, Renate Visser1, Yvette Lowenstein2, John Kofi Odoom1, Bamenla Quarm Goka1, Noguchi Memorial Institute for Medical Research, University of Ghana, Legon, Accra, Ghana, 1Department of Child Health, Medical School, College of Health Sciences, University of Ghana, Legon, Accra, Ghana, 2Department of Pediatric Infectious Diseases and Immunology, Welheline Children’s Hospital, University Medical Center, Utrecht, Netherlands, 3Department of Child Health, Medical School, College of Health Sciences, University of Ghana, Accra, Ghana

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MOLECULAR INVESTIGATION OF THE AETIOLOGY OF TUBERCULOSIS-LIKE CLINICAL SYNDROMES IN ADULTS PRESENTING FOR PRIMARY HEALTH CARE AT LIMBE AND NDIRANDE HEALTH CENTRES
Alice Chimwemwe Mnyanga1, Mariottiu Nliwasa2, Elisabeth L Corbett2, Katherine L Fielding Fielding2, Dereck J Sloan3, Neil French4, Peter MacPherson5, Chikondi Kundulu6, Lingstone Chiurwe7, Sanderson Chilanga8, Titus H. Divala1, Masiye John Ndaferanhande1
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PULMONARY-UREGENITAL TUBERCULOSIS: A DELAYED DIAGNOSIS
Fara Rahdah Hussein1, Nor Shuhaila Shahril1, Ummu Aferra Zainulabid1, Najma Kori1, Petrick Periyasamy1
1Tuanku Mizan Armed Forces Hospital, Kuala Lumpur, Malaysia, 2Putrajaya Hospital, Kuala Lumpur, Malaysia, 3International Islamic University, Pahang, Malaysia, 4National University of Malaysia, Kuala Lumpur, Malaysia

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PREVALENCE OF MALARIA-PNEUMONIA OVERLAP IN RURAL GAMBIA: 9 YEARS OF CLINICAL EXPERIENCE IN ENDEMIC AREA
Mohammad Ilias Hossain, Malick Ndiaye, Babila G Lobga, Golam Sarwar, Grant Mackenzie
MRC Unit The Gambia at the London School of Hygiene & Tropical Medicine, Banjul, Gambia

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DETERMINANTS OF TUBERCULOSIS OUTCOMES DURING THE COVID-19 PANDEMIC AT A REFERRAL HOSPITAL IN RURAL HAITI
Elie Saintilien1, Aaron Richterman2, Medgine St-Cyr1, Louise Claudia Gracia1, Inobert Pierre1, Moise Compré1, Ahmed Elaïem1, Dyerney Dumérjuste1, Louise C. Ivers1
1St. Boniface Hospital, Fond-des-Blancs, Haiti, 2University of Pennsylvania, Philadelphia, PA, United States, 3Brigham and Women’s Hospital, Boston, MA, United States, 4Massachusetts General Hospital, Boston, MA, United States
Schistosomiasis and Other Trematodes – Diagnostics and Treatment

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SCHISTOSOMAL CIRCULATING ANODIC ANTIGEN CLEARANCE IN PRESCHOOL AGED CHILDREN FROM THE PIP (PRAZIQUANTEL IN PRESCHOOLERS) TRIAL
Gloria Kakoba Ayebazibwe1, Andrew Edebiu1, Susannah Colly1, Emily L. Webb1, Patrice A. Mawa1, Hannah W. Wu1, Govert J.van Dam1, Paul Corstjens1, Rachael Nakuye1, Jennifer F. Friedman1, Amaya L. Bustinduy4
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GAPS IN BEDSIDE PROTOCOLS AND POLICIES FOR MANAGEMENT OF FEMALE GENITAL SCHISTOSOMIASIS IN ENDEMIC SOUTH AFRICA AND NON-ENDEMIC NORWAY
Iris Kamilla Ottosen1, Stina Josefine Karlsten1, Patricia Ndhlovu2, Solrun Saffelt1, Soloshni Naidoo2, Motshedisi Sebitoane1, Pamela S. Mbabazi1, Santiago Martinez2, Takalani Nemungadi2, Themba Ginindza2, Fortunate Shabalala3, Sakhile Masuku2, Svein Gunnar Gundersen4, Pavtila Pillay5, Myra Taylor5, Eyun Floerecke Kjetland5
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NEXT STEP TOWARDS POINT-OF-CARE MOLECULAR DIAGNOSIS OF FEMALE GENITAL SCHISTOSOMIASIS (FGS): EVALUATION OF AN INSTRUMENT-FREE LAMP PROCEDURE
Kim van Bergen1, Eric Brien2, Bodo Randrianasolo1, Charles Ramarokoto3, Peter Leutscher1, Eyun Kjetland2, Angela van Diepen3, Vittorio Saggiomo5, Aldrik Velders1, Lisette van Lieshout5
1Leiden University Medical Center (LUMC), Leiden, Netherlands, 2Association KOLO VANONA, Antananarivo, Madagascar, 3Aalborg University, Aalborg, Denmark, 4University of KwaZulu-Natal, Durban, South Africa, 5Wageningen University, Wageningen, Netherlands

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POPULATION LEVEL IMPACT OF NOVEL DRUGS TARGETING JUVENILE SCHISTOSOMES ON CONTROL AND ELIMINATION OF SCHISTOSOMIASIS
Benjamin J. Singer1, Minoli Daigavane1, Sophia Tan1, Mireille Gomes2, Thomas Spangenberg1, Jason R. Andrews1, Issac I. Bogoch1, Nathan C. Lo1
1University of California, San Francisco, San Francisco, CA, United States, 2Global Health Institute of Merck, Ares Trading S.A., a subsidiary of Merck KGaA, Eysins, Switzerland, 3Stanford University, Stanford, CA, United States, 4University of Toronto, Toronto, ON, Canada
5662 DEVELOPMENT OF ANTIGEN-BASED MULTIPLEX IMMUNODIAGNOSTICS FOR TWO PREDOMINANT SCHISTOSOMA PARASITES IN SUB-SAHARAN AFRICA

Oyetunde T. Oyeyemi, Lisa M. Shollenberger
Old Dominion University, Norfolk, VA, United States
(ACMCIP Abstract)

5663 BASELINE SEROPREVALENCE OF SCHISTOSOMA IN ZAMBIAN WOMEN ENROLLED IN A COHORT STUDY (THE ZIPIME WEKA SCHISTA STUDY)

Bronwyn Neufeld1, Olimpia Lamberti1, Helen Kelly1, Rhoda Ndubani1, Nkayta Kasese2, Emily Webb1, Beatrice Nyondo1, Barry Kosloff1, Jennifer Fitzpatrick1, Bonnie Webster1, Maina Cheeba1, Helen Ayles1, J Russell Stothard1, Kwame Shan abduction1, Amaya Bustinduy2
1London School of Hygiene & Tropical Medicine, London, United Kingdom, 2Zambart, Lusaka, Zambia, 3Natural History Museum, London, United Kingdom, 4Liverpool School of Tropical Medicine, Liverpool, United Kingdom

5664 DEVELOPMENT OF AN ELISA TO DETECT ANTIBODY TO SCHISTOSOMA JAPONICUM INFECTION USING A BACTERIAL EXPRESSED RECOMBINANT ANTIGEN SJ10.3

Maurice Terrell Royal1, Saima Chavnenet1, Sylvia Ossai1, William Secor1, Sukanw Handali1
1Center for Disease Control, Decatur, GA, United States, 2Gwinnett School of Mathematics Science and Technology, Gwinett, GA, United States

5665 URINARY HPV ANALYSIS AS A COMPLEMENTARY DIAGNOSTIC TEST AMONG WOMEN AT RISK FOR CERVICAL CANCER & FGS

Pavitra Pillay1, Hashini N. Galappaththi-Arachchige1, Myra Taylor2, Borghild B H Roald1, Eyun F. Kjetland3
1Tulane University, New Orleans, LA, United States, 2University of California San Diego, San Diego, CA, United States, 3Cleveland Clinic, Cleveland, OH, United States, 4Independent Consultant, Atlanta, GA, United States

5666 POPULATION PHARMACOKINETICS OF PRAZIQUANTEL IN PRE-SCHOOL AGE CHILDREN PARTICIPANTS IN THE PRAZIQUANTEL IN PRE- SCHOOLS (P3) TRIAL

Bonniface Obura, Andrew Edielu1, Emily Webb1, Jennifer Unsworth1, Ana Jimenez-Valverde1, Patrice Mawa2, Amaya L. Bustinduy1, Jennifer Friedman1, Shampa Das1
1University of Liverpool, Liverpool, United Kingdom, 2MRC/UVRI and LSHTM Uganda Research Unit, Entebbe, Uganda, 3London School of Hygiene & Tropical Medicine, London, United Kingdom, 4Alpert Medical School of Brown University, Providence, RI, United States

5667 PHARMACOLOGIC MONITORING OF PLASMA CONCENTRATION OF PRAZIQUANTEL ON THE INTENSITY OF SCHISTOSOMA INFECTION IN A THERAPEUTIC EFFICACY MONITORING STUDY IN PERSONS TREATED FOR SCHISTOSOMIASIS IN ABUJA, FEDERAL CAPITAL TERRITORY, NIGERIA

Godswill Iboma1, WELLINGTON OYIO1, Rita O. Urude1, Obiageli J. Nebe1, Michael N. Akpan1
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**Schistosomiasis and Other Trematodes – Epidemiology and Control**

5668 THE PREVAILING INFECTION OF SCHISTOSOMA JAPONICUM AND OTHERZONOTIC PARASITES INBULBALINE RESERVOIR HOSTS IN THE RICEFIELD OF LAKE ECOSYSTEM; A CASE IN LAKE MAINIT THE PHILIPPINES

Joyce C. Jumawan1, Leonardo A. Estano2
1Caraga State University, BUTUAN CITY, Philippines, 2Mindanao State University Iligan Institute of Technology, Iligan City, Philippines

5669 POOLED PEAKS PIPELINE (P3): AN R-BASED PROGRAM FOR POPULATION GENETIC ANALYSES IN POOLED SAMPLES

Kathleen M. Kuesters1, Jessica M. Blanton1, Jeffrey D. Kovach1, Walter A. Blank1, Jeffrey C. Long1, Ronald E. Blanton1
1Tulane University, New Orleans, LA, United States, 2University of California San Diego, San Diego, CA, United States, 3Cleveland Clinic, Cleveland, OH, United States, 4Independent Consultant, Atlanta, GA, United States, 5University of New Mexico, Albuquerque, NM, United States

5670 RISK FACTORS FOR HIGHER-INTENSITY SCHISTOSOMA MANSONI INFESTION IN LAKE ALBERT COMMUNITIES, UGANDA: A CROSS-SECTIONAL STUDY

Dominic P. Dee1, Germain Lam1, Andrew Edielu1, Victor Anguajibi1, Emily L. Webb1, Aidah Wamboko1, Patrice A. Mawar1, Jennifer F. Friedmann1, Amaya L. Bustinduy1
1Department of Clinical Research, London School of Hygiene & Tropical Medicine, London, United Kingdom, 2China-Uganda Friendship Hospital, Kampala, Uganda, 3Department of Infectious Disease Epidemiology, London School of Hygiene & Tropical Medicine, London, United Kingdom, 4Vector Control Division, Kampala, Uganda, 5MRC/UVRI and LSHTM Uganda Research Unit, Entebbe, Uganda, 6Rhode Island Hospital, Brown University, Providence, RI, United States

5671 SNAIL-SCHISTOSOME DYNAMICS IN COMPLEX ECOLOGICAL COMMUNITIES

Kelsey E. Shaw1, Ella Arms1, Teckla Angelo1, Moses Mahalilia1, Raeyan Syed2, Safari Kinung’hi2, David Civitello1
1Emory University, Atlanta, GA, United States, 2National Institute of Medical Research, Mwanza, United Republic of Tanzania

5672 A COMPLEX INTERPLAY BETWEEN FOOD, HEALTH AND LIVELIHOODS – LIVE FLUKE (OPISTHORCHIS VIVERRINI) IN NORTHEAST THAILAND

Hannah C. Bialic1, Thomas Crelle1, Aporn Wangwivatwiri1, Watcharin Loilome1
1University of Glasgow, Glasgow, United Kingdom, 2Khon Kaen University, Khon Kaen, Thailand
THE SNAIL-TREMATODE-MICROBIOME TRIPARTITE INTERACTION: FROM LAB MANIPULATIONS TO THE FIELD
Ruben Schols1, Cyril Hammoud1, Tim Maes1, Bruno Senghor1, Tine Huys1, Ellen Decaestecker1
1The Royal Museum for Central Africa, Tervuren, Belgium
2The Catholic University of Leuven, Leuven, Belgium
3Ucad-IRD de Hann, Dakar, Senegal
4The Catholic University of Leuven, campus Kortrijk, Kortrijk, Belgium

USING MATHEMATICAL MODELS TO UNDERSTAND SCHISTOSOMIASIS TRANSMISSION IN A UGANDAN HOTSPOT
Gregory C. Milne1, Rebecca Oettle1, Joanne P. Webster1, Martin Walker1, Shona Wilson1
1Royal Veterinary College, Brookmans Park, United Kingdom
2University of Cambridge, Cambridge, United Kingdom

MALE GENITAL SCHISTOSOMIASIS (MGS) AMONG LOCAL FISHERMEN ALONG SOUTH SHORELINE OF LAKE MALAWI IN MANGOCHI DISTRICT
Sekeleghe Amos Kayuni1, Mohammad H. Alharbi2, Adam Abdullahi3, Peter Makaula1, Fanuell Lampiao1, Janelisa Musaya1, E. James LaCourse1, Jaco J. Verweij1, Johnstone J. Kumwenda1, Peter D.C. Leutscher1, Anna Maria Geretti1, J. Russell Stothard1
1Malawi Liverpool Wellcome Programme (MLW), Blantyre, Malawi
2Liverpool School of Tropical Medicine, Liverpool, United Kingdom
3Department of Infectious Diseases, Fondazione PTV, University of Rome, Rome, Italy

PREVALENCE OF SCHISTOSOMIASIS & IMPLEMENTATION OF SCHISTOSOMA PREVENTION PROJECT IN GEZIRA STATE, SUDAN 2022-23
Mazin Mohammed Osman
King Fahad Hospital, Al baha, Saudi Arabia

EVALUATION OF THE BURDEN AND RISK FACTORS ASSOCIATED WITH FEMALE GENITAL SCHISTOSOMIASIS IN TWO ENDEMIC AREAS IN MALAWI AS PART OF THE MORBIDITY OPERATIONAL RESEARCH FOR BILHARZIASIS IMPLEMENTATION DECISIONS (MORBID) STUDY
Olimpia Lamberti1, Sekeleghe Kayuni2, Dingase Kumwenda3, Varsha Singh1, Veena Moktali1, Neerav Dhanani1, Els Wessels3, Lisette Van Lieshout3, Fiona M. Fleming1, Themba Mtiali2, Amaya Bustinduy1
1Department of Clinical Research, London School of Hygiene & Tropical Medicine, London, United Kingdom
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3Department of Infectious Diseases, University of Cambridge, Cambridge, United Kingdom

PRESENCE OF SARS-COV-2 RNA IN DIFFERENT SOURCES OF WATER OF NEPAL
Sarmila Tandukar1, Eiji Haramoto2, Samendra Sherchan3
1Interdisciplinary Center for River Basin Environment, University of Yamanashi, Kofu, Japan
2Morgan State University, Baltimore, MD, United States

POOR OUTDOOR BATHROOMS DRAINAGE SYSTEMS OF CHING’AMBO RESIDENTS IN MZUZU CITY AS A SAFE HAVEN AND TOOL FOR INCREASED EXPOSURE TO TROPICAL PARASITES
Vita Mith1, Sarah Eliza Dunn1
1Center for Life Toxicology Data, Mzuzu, Malawi
2Bayer/Crop Science Division, Chesterfield, MO, United States

SOCIOCULTURAL INFLUENCES ON ACCEPTANCE AND HEALTH RISK OF WATER RESOURCES IN REMOTE COMMUNITIES IN GHANA
Forgive A. Norvivor
University of Health and Allied Sciences, Ho, Ghana

MOLECULAR DETECTION OF PATHOGENIC LEPTOSPIRA AND HELICOBACTER PYLORI IN ENVIRONMENTAL SPECIMENS COLLECTED FROM THE OPISTHORCHIASIS ENDEMIC AREAS AT KHON KAEN PROVINCE, THAILAND
Shih Keng Loong1, Manop Sripa2, Sangduan Wannachart1, Laksika Phumipheng1, Thanagorn Saykaew1, Yuchen Liu1, Sirikchorn Tangkawattana1, Banchob Siripa1
1Universiti Malaya, Kuala Lumpur, Malaysia
2Khon Kaen University, Khon Kaen, Thailand
3University of Liverpool, Liverpool, United Kingdom

ASSESSMENT OF THE MICROBIAL CONTAMINATION OF DELIVERY BOXES OF ONLINE FOOD DELIVERY SERVICES PROVIDERS IN ACCRA
Doreen Dedo Adi1, Chris Y. Asare2
1Akenkeng Appiah-Menka University of Skills Training and Entrepreneurial Development, Kumasi, Ghana
2Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

INCREASING THE ACCESSIBILITY AND HANDWASHING PRACTICES THROUGH TIPPY TAPS IN CABO DELGADO PROVINCE, MOZAMBIQUE
Xavier Badia-Rius1, James Mungai Waringa1, Nelson Sequeia1, Maria Sacchetti1, Anastacia Lidimb1, Pablo Ignacio Eulogio de Sancha2, Sérgio Lopes1, Mussa M. Aly1
1The MENTOR Initiative, Haywards Heath, United Kingdom
2The MENTOR Initiative, Pemba, Mozambique
3Serviço Provincial de Saúde, Pemba, Mozambique
4Núcleo de Investigação Operacional de Pemba, Pemba, Mozambique
Work Related Injuries: What Factors Determine its Severity in a Low Resource Setting?
Regina Adiyah¹, Alfred Kwame Owusu¹, Francis Adjei Osei¹, Alexis Buunaaim¹
¹Centre for Research, Innovation and Development, Accra, Ghana, ²Komfo Anokye Teaching Hospital, Accra, Ghana, ³Tamale Teaching Hospital, Accra, Ghana

Association of Prenatal Environmental Factors with Under 5 Nutritional Growth Outcomes in Uganda
Paddy Ssentongo¹, Claudio Fronterre², Steven Schiff³
¹Penn State Hershey Medical Center, Hershey, PA, United States, ²Lancaster University, Lancaster, United Kingdom, ³Yale University School of Medicine, New Haven, CT, United States

Barriers of Effective and Sustainable Water, Sanitation and Hygiene (WASH) Services at Schools in Bangladesh
Debashish Biswas¹, Md. Rofi Uddin¹, Jyoti Bhushan Das¹, Md. Asadullah¹, Mahbub-Ul Alam¹, Habibur Rahaman¹, Pritum Kumar Sabheta³, Emanuel Owako¹, Mathubur Rahman¹, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ³Water & Sanitation for the Urban Poor (WSUP), Dhaka, Bangladesh, ⁴Water & Sanitation for the Urban Poor (WSUP), London, United Kingdom

Evaluation of a Multi-Level, Participatory Intervention to Reduce Arsenic Exposure in American Indian Communities: A Cluster Randomized Controlled Trial of the Community-Led Strong Heart Water Study Program
Christine Marie George¹, Tracy Zacher², Kelly Endres¹, Francine Richards¹, Lisa Bear Robe¹, David Harvey¹, Lyle G. Best¹, Reno Red Cloud², Reno Red Cloud³, Jennifer Red Cloud¹, Steve Ristau¹, Dean Aurand¹, Leslie Skinner¹, Christa Cuny⁷, Marie Gross⁷, Elizabeth D. Thomas¹, Ana Rule¹, Kellogg Schwab¹, Lawrence H. Moulton¹, Marcia O'Leary¹, Ana Navas-Acien⁸
¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Missouri Breaks Industries Research Inc., Eagle Butte, SD, United States, ³Indian Health Service, Rockville, MD, United States, ⁴Environmental Resource Department, Ogala Sioux Tribe, Rapid City, SD, United States, ⁵Missouri Breaks Industries Research Inc, Eagle Butte, SD, United States, ⁶Mid Continent Testing Labs, Inc, Rapid City, SD, United States, ⁷Missouri Breaks Industries Research, Inc, Eagle Butte, SD, United States, ⁸Columbia University Mailman School of Public Health, New York, NY, United States
The Fred L. Soper Lecture is an honor bestowed upon distinguished workers in environmental control or preventive medicine. Born in 1893, Dr. Soper received his MD from the University of Chicago and a doctorate in public health from Johns Hopkins University in 1925. He began his career working with the Rockefeller Foundation on hookworm control in Brazil. Soper headed an international group that did revolutionary work in research and control of yellow fever in South America, and eventually became director of the Pan American Health Organization. Dr. Soper died in 1977. The first Lecture was delivered by Thomas Weller in 1978, former president of ASTMH and winner of the 1954 Nobel Prize in Medicine or Physiology, in celebration of the 40th anniversary of the Gorgas Memorial Laboratory. The lecture is now a biannual event for ASTMH and focuses on a topic related to environmental control and preventive medicine.

CHAIR
Albert Icksang Ko
Yale School of Public Health, New Haven, CT, United States

1:45 p.m.
INTRODUCTION
Albert Icksang Ko
Yale School of Public Health, New Haven, CT, United States

2 p.m.
FRED L. SOPER LECTURE: MILES TO GO: VACCINES FOR ENTERIC INFECTIONS

Gagandeep Kang, MBBS, MD, PhD, FRCPath
Director EDGE, Global Health
Bill & Melinda Gates Foundation
Seattle, Washington

Professor Gagandeep Kang received her training in medicine and microbiology at the Christian Medical College, Vellore and postdoctoral training the UK and US before returning to India to continue her work on enteric infections in children. With Indian and global collaborators, Professor Kang has worked on the development and use of vaccines for rotavirus, cholera and typhoid, conducting large studies to define burden, test vaccines and conduct the comprehensive studies required for introduction into the national immunization program. Post-introduction, her group were the first to conduct studies in India to measure rotavirus vaccine safety and measure impact. With ancillary community-based research, she has shown that infections in early life impact nutrition, future growth and cognitive development. During the peak of the COVID-19 pandemic, she became a trusted voice for science communication in India. Following her 35-year career in medicine and public health in India, Professor Kang joined the Bill & Melinda Gates Foundation in 2023 to continue and expand her efforts to address infectious diseases in India and globally. She is the first woman from India to be elected a Fellow of the Royal Society and a fellow of the American Academy of Microbiology and the second elected to the US National Academy of Medicine.
Symposium 32
Approaching Malaria Elimination in Cambodia: Progress and Challenges

Grand Ballroom B - Ballroom Level (East Tower)
Thursday, October 19, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

Malaria in Cambodia has decreased by 90.8% between 2010 and 2020, driven by the commitment of the National Center for Parasitology, Entomology and Malaria (CNM). Cambodia aims to eliminate *Plasmodium falciparum* malaria by 2023, and all species of malaria, including *Plasmodium vivax*, by 2025. Challenges remain in preventing malaria re-introduction in elimination areas and scaling up elimination efforts nationally and within specific high-risk populations, such as forest workers and mobile and migrant populations. Artemisinin resistance and partner drug resistance continues to present a threat to malaria elimination efforts if parasites become resistant to the partner drug, yet again. Rotating artemisinin-based combination therapies (ACTs) is logistically challenging and delays could result in patients being treated with suboptimal ACTs leading to a resurgence of *P. falciparum* malaria. As *P. falciparum* malaria cases have decreased in Cambodia, infection has become increasingly focal in hotspots across the country and in populations that are routinely harder to reach. *P. vivax* has become the prominent species causing malaria in Cambodia. Vivax malaria is more difficult than falciparum to eliminate because of the dormant hypnozoites. In this symposium we will present the overall plan of CNM to achieve malaria elimination within the next few years and discuss progress and challenges. We will present data from a randomized, controlled, clinical trial with artemether-lumefantrine and amodiaquine (ALAQ) that demonstrates the safety, tolerability and efficacy of a triple ACT, that could become available for deployment before novel antimalarials become available, and could provide a tool to be used instead of another rotation of ACTs. We will present a study on antimalarial chemoprophylaxis in forest-goers with artemether-lumefantrine, that was acceptable, feasible and well-tolerated and substantially reduced malaria prevalence among forest goers. We will also present the development of a panel of serological exposure markers (SEMs) to *P. vivax* infection for the identification of people at risk of carrying clinically silent hypnozoites to be targeted with anti-hypnozoite therapy. We will describe the application of this SEM panel to a longitudinal cohort that tested the feasibility of a serological and testing approach in remote, resource-limited settings in rural Cambodia. Community engagement has increasingly received attention in malaria research and program interventions, particularly as countries aim for malaria elimination. We present a novel approach by engaging Cambodian youth to sustain malaria elimination activities and will present their opinions and perspectives via video recordings.

CHAIR
Arjen M. Dondorp
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand
Chaonaki Amaratunga
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

3 p.m.
INTRODUCTION

3:05 p.m.
MODERATOR
Richard Baron
Coalition for Trust in Health and Science, Washington, DC, United States

PANELISTS
Daniel G. Bausch
FIND, Geneva, Switzerland
Peter Daszak
EcoHealth Alliance, New York, NY, United States
Peter Hotez
National School of Tropical Medicine, Baylor College of Medicine, Houston, TX, United States
Carol Schadelbauer
Burness, Bethesda, MD, United States

3:10 p.m.
IMPLEMENTATION OF NOVEL STRATEGIES TO ELIMINATE MALARIA IN CAMBODIA
Dysoley Lek
National Center for Parasitology, Entomology and Malaria Program, Phnom Penh, Cambodia

3:30 p.m.
SAFETY, TOLERABILITY AND EFFICACY OF ARTEMETHER-LUMEFANTRINE+AMODIAQUINE IN CAMBODIA
Chanaki Amaratunga
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

3:50 p.m.
ANTIMALARIAL CHEMOPROPHYLAXIS FOR FOREST GOERS IN CAMBODIA
Rupam Tripura
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

4:10 p.m.
ASSESSING THE SPECIFICITY, SENSITIVITY AND FEASIBILITY OF A SEROLOGICAL TESTING AND TREATMENT APPROACH TO ELIMINATE *P. VIVAX* IN CAMBODIA
Costanza Tacoli
Pasteur Institute of Cambodia, Phnom Penh, Cambodia

4:30 p.m.
EMBEDDING THE VOICES OF CAMBODIAN YOUTH IN MALARIA RESEARCH
Phaik Yeong Cheah
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand
Symposium 33

A Global Health Two-fer: How Integrating Health Campaigns Delivers on Both Desired Programmatic Intervention Coverage and Greater Sustainability

Grand Hall J - Ballroom Level (East Tower)
Thursday, October 19, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

To meet goals of universal health coverage, many countries rely on both facility- and community-based health services and campaigns. Campaigns are time-limited, targeted, intermittent activities that are implemented to address specific health needs, fill delivery gaps, or provide surge coverage for health interventions. Campaigns are used to prevent, control, and in some cases even eliminate malaria and neglected tropical diseases, vaccine preventable diseases, malnutrition, and vitamin deficiency. Since 2020, more than 450 health campaigns have been conducted worldwide each year, totaling almost $10 billion. Health campaigns occur within vertical (disease-specific) programs, often externally funded, and planned and implemented independently from one another and from primary health care services, with little communication, coordination, or collaboration. Strategic and operational inefficiencies and inequities may result, which strain health systems, burden health care workers, and limit campaigns’ impact. There is increasing recognition that collaborative and integrated approaches to campaign planning, implementation, and monitoring—whether between campaigns in different health programs or in greater linkages with primary health care system—may increase campaigns’ effectiveness and sustainability. Public health agencies implementing these changes need guidance and advice on how to conduct integration or transition efficiently and effectively. What challenges can be anticipated and how can they be addressed? What opportunities may arise to circumvent known financial barriers and disincentives to strengthen inter-agency collaboration? What tools exist to aid campaign managers? How can a primary healthcare system be assessed for readiness in taking on campaign activities and services? This symposium will cover much ground as we provide: (1) an overview of the health campaign integration and mainstreaming landscape, including promising practices from a synthesis of implementation research studies on campaign integration and transition to primary health care; (2) share a landscape analysis of campaign financing and the rationale for integration, including key financial barriers and disincentives as well as opportunities for action; (3) describe the acceptability, feasibility, efficacy and challenges of a pilot study integrating nutrition assessments and immunizations into SMC campaigns in Guinea; (4) present a readiness assessment of NTD campaign mainstreaming at all levels and in diverse regions of Ethiopia; and (5) an evaluation of mainstreaming of mass drug administrations for soil transmitted helminthiasis and schistosomiasis (NTD) campaign with handover to government agencies in Nigeria.

CHAIR
Richard Reithinger
RTI International, Washington, DC, United States
Kristin Saarlas
Task Force for Global Health, Decatur, GA, United States

3 p.m.
INTRODUCTION

3:10 p.m.
OVERVIEW OF THE HEALTH CAMPAIGN EFFECTIVENESS COALITION: PROMISING PRACTICES AND TOOLS FOR CAMPAIGN INTEGRATION AND MAINSTREAMING/LINKAGES WITH THE PRIMARY HEALTHCARE SYSTEM FROM IMPLEMENTATION RESEARCH PROJECTS IN 14 COUNTRIES
Kristin Saarlas
The Task Force for Global Health, Decatur, GA, United States

3:25 p.m.
FINANCING OF HEALTH CAMPAIGNS AND INTEGRATION: A LANDSCAPE ANALYSIS
Annette Ozaltin
Independent Health Finance Consultant, Washington, DC, United States

3:40 p.m.
INTEGRATION OF NUTRITIONAL ASSESSMENTS AND IMMUNIZATION INTO SEASONAL MALARIA CHEMOPREVENTION CAMPAIGNS
Alioune Camara
National Malaria Control Program, Conakry, Guinea

3:55 p.m.
READINESS ASSESSMENT FOR NTD CAMPAIGN MAINSTREAMING IN ETHIOPIA
Teshome Gebre
International Trachoma Initiative, Addis Ababa, Ethiopia

4:10 p.m.
EFFECTS OF TRANSITION TO COUNTRY OWNERSHIP OF INTEGRATED NTD MASS DRUG ADMINISTRATION IN NIGERIA
Emmanuel Emukah
The Carter Center, Abuja, Nigeria

Scientific Session 34

Malaria - Drug Development and Clinical Trials

Grand Ballroom CDEF - Ballroom Level (East Tower)
Thursday, October 19, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

CHAIR
David Saunders
U.S. Army, Rockville, MD, United States
Luana Ortolan
Seattle Children’s Research Institute, Seattle, WA, United States
3 p.m. 5688

A CLUSTER RANDOMIZED CONTROLLED NON-INFERIORITY TRIAL TO COMPARE THE PROTECTIVE EFFECTIVENESS OF SULFADOXINE PYRIMETHAMINE AND AMODIAQUINE AND DIHYDROARTESININ PIPERAQUINE FOR SEASONAL MALARIA CHEMOPREVENTION AMONG CHILDREN 3 TO 59 MONTHS, IN THE CONTEXT OF HIGH PARASITE RESISTANCE, KARAMOJA REGION, UGANDA

Anthony Nuwa1, Richard Kajubi1, Craig Bonnington1, Kevin N. Baker2, Chulks Nnaji Nnaji, Musa Odongo3, Tonny Kyagulanyi3, Jane I. Nabakkoza3, David S. Odong3, Denis Rubahika3, Maureen Nakirunda3, Godfrey Magumba3, Madeleine Marasciulo-Rice1, Jane Achari1, Christian Rassi1, Erica Viganò1, Jennifer Ainsworth1, Damian Rutazana1, Jimmy Opiyo1, James K. Tipenderana1
1Malaria Consortium, Kampala, Uganda, 2Malaria Consortium, London, United Kingdom, 3Ministry of Health, Uganda, Kampala, Uganda, 4Malaria Consortium, Raleigh, NC, United States, 5PATH, Seattle, WA, United States

4 p.m. 5692

ANTI-GAMETOCYTE ACTIVITY AND POST-TREATMENT PROTECTIVE EFFICACY OF ARTEMETHER-LUMEFANTRINE VS. DIHYDROARTESININ-PIPERAQUINE FOR UNCOMPLICATED MALARIA: PRELIMINARY RESULTS OF A MULTI-DOSE PHARMACOKINETIC/PHARMACODYNAMIC TRIAL

Jean-Berit B. Kabuya1, Jay Sikilima1, Luc Kambale Karnavu1, Proscovia Miye Banda1, Amary Fall2, Hebä H. Mostafa2, Liusheng Huang3, Francesca Avekoa3, Jerry A. Bailey4, Jonathan D. Juliano5, Philip E. Thumar6, Gershom Chongwe7, Theresa A. Shapiro1, William J. Moss8, Matthew M. Ippolito9
1Tropical Diseases Research Centre, Ndola, Zambia, 2CHAZ, Lusaka, Zambia, 3Saint Paul's General Hospital, Nchelenge, Zambia, 4Johns Hopkins School of Medicine, Baltimore, MD, United States, 5University of California, San Francisco, San Francisco, CA, United States, 6Brown University, Providence, RI, United States, 7University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, 8Macha Research Trust, Macha, Zambia, 9Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

Scientific Session 35

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

Grand Hall K - Ballroom Level (East Tower)
Thursday, October 19, 3 p.m. - 4:45 p.m. U.S. Central Time Zone
Supported with funding from the Burroughs Welcome Fund

CHAIR
Manuel Linhas
Pennsylvania State University, University Park, PA, United States

Dylan Piliai
University of California, Albany, CA, Canada
Symposium 36

Neurocysticercosis: An Inflammatory Topic

Grand Hall L - Ballroom Level (East Tower)
Thursday, October 19, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

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. The host inflammatory response is critical to both the presentation and response to treatment, but not well understood. There is increasing evidence that calcified NCC plays a large role in both cause and maintenance of seizures and epilepsy. Emerging data also suggests a causal association between inflammation due to calcified parenchymal NCC, perilesional edema and seizures. This symposium will bring participants up to date on the current knowledge of inflammation in NCC using both the animal model and clinical cases to lay the groundwork for a discussion on the role of anti-inflammatory agents and their use in the treatment of NCC.

Chair
Christina Coyle
Albert Einstein College of Medicine, Bronx, NY, United States
Hector H. Garcia
Universidad Peruana Cayetano Heredia, Lima, Peru

3 p.m.
INTRODUCTION

3:10 p.m.
UNDERSTANDING TREATMENT RELATED BRAIN INFLAMMATION IN NEUROCYSTICEROSIS: DATA FROM ANIMAL MODEL
Manuela Verastegui
Universidad Peruana Cayetano Heredia, Lima, Peru

3:40 p.m.
INFLAMMATION DRIVING THE CLINICAL PRESENTATION IN NCC: LESSONS FROM THE BEDSIDE
Christina M. Coyle
Albert Einstein College of Medicine, Bronx, NY, United States
Scientific Session 37

Bacteriology: Cholera

Plaza Ballroom - Lobby Level (East Tower)
Thursday, October 19, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

CHAIR
Wilfredo Rafael Matias
Massachusetts General Hospital, Boston, MA, United States
Denise Chac
University of Washington, Seattle, WA, United States

3 p.m.

5702

GUT MICROBIOTA-DERIVED METABOLITES ALTER HUMAN-DERIVED MACROPHAGE STIMULATION AND MAY INCREASE IMMUNE RESPONSES TO ORAL CHOLERA VACCINE
Denise Chac1, Susan M. Markiewicz2, Ashraful I. Khan1, Fahima Chowdhury1, Emily Pruitt3, Taufiquir R. Bhuiyan3, Regina C. LaRocque1, Jason B. Harris1, Libin Xu1, Edward T. Ryan1, Firdausi Qadri1, Ana A. Weil1
1University of Washington, Seattle, WA, United States, 2International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, 3Massachusetts General Hospital, Boston, MA, United States

3:15 p.m.

5703

ASCERTAINING TRUE CHOLERA BURDEN AND SUBNATIONAL CHOLERA RISK WITH A NOVEL CONTINUOUS DISEASE ENDEMICY INDEX
Neda Jalali1, Sandra Mendoza Guerrero1, Andrew Azman1, Elizabeth Lee1, Steven Stoddard2, Sean Moore1
1University of Notre Dame, South Bend, IN, United States, 2Emergent BioSolutions, Gaithersburg, MD, United States, 3Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, 4Emergency BioSolutions, Redwood City, CA, United States

3:30 p.m.

5704

ENHANCED CHOLERA SURVEILLANCE AS A TOOL FOR IMPROVING VACCINATION CAMPAIGN EFFICIENCY
Hameng Xu1, Kaiyue Zou1, Juan Dent2, Kirsten E. Wiens3, Espoir B. Malembaka4, Lee Hampton1, Andrew S. Azman1, Elizabeth C. Lee1
1Johns Hopkins University, Baltimore, MD, United States, 2Temple University, Philadelphia, PA, United States, 3Gavi, the Vaccine Alliance, Geneva, Switzerland, 4Emergent BioSolutions, Gaithersburg, MD, United States

3:45 p.m.

5705

RE-EMERGENCE OF CHOLERA IN HAITI LINKED TO ENVIRONMENTAL V. CHOLERAE 01 OGAWA STRAINS
Carla N. Mavian1, Massimiliano Tagliamonti1, Meer T. Alam1, Nazmus Sakib2, Melanie N. Cash3, Juan Perez Jimenez1, Alberto Riva1, Eric J. Nelson1, Emile T. Cato1, Jayakrishnan Ajayakumar2, Andrew Curtis5, V. Madsen Beau De Rochars6, Vanessa Rouzier1, Jean William Pape1, J. Glennon Morris Jr1, Marco Salem3, Afasari Ali1
1University of Florida, Gainesville, FL, United States, 2Case Western Reserve University, Cleveland, OH, United States, 3Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, 4Department of Epidemiology, Gillings School of Global Public Health, and University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, 5Case Western Reserve University, Cleveland, OH, United States, 6International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

4 p.m.

5706

EFFECTIVENESS OF THE EUVICHOL® ORAL CHOLERA VACCINE AT 2 YEARS: A CASE-CONTROL AND BIAS-INDICATOR STUDY IN HAITI
Wilfredo R. Matias1, Yodeline Guillaume1, Gertrude Cene Augustin1, Kenia Vissieres1, Ralph Ternier1, Damien M. Slater1, Jason B. Harris1, Molly F. Franke1, Louise C. Ivers1
1Massachusetts General Hospital, Boston, MA, United States, 2Zanmi Lasante, Port-au-Prince, Haiti, 3Harvard Medical School, Boston, MA, United States

4:15 p.m.

5707

THE EFFECTIVENESS OF ONE DOSE OF ORAL CHOLERA VACCINE: MATCHED CASE-CONTROL STUDIES FROM UVIRA, DEMOCRATIC REPUBLIC OF CONGO
Espoir Bwenge Malembaka1, Patrick Musole Bugeme1, Chloe Hutchins1, Hameng Xu2, Juan Dent3, Maya N. Demby4, Karin Gallandat5, Jaime M. Saidi6, Baron Bashige Rumeđeka7, Moïse Tongwa7, Esperance Tshiwedî7, Faida Kitoga8, Amanda K. Debes8, Justin Lessler9, Oliver Cunnum10, Placide O. Welo11, Daniel Mukadi-Bamuleka12, Jackie Kree13, Andrew S. Azman14
1Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, 2Department of Disease Control, London School of Hygiene & Tropical Medicine, London, United Kingdom, 3Zone de Santé d’Uvira, Ministère de la Santé Publique, Uvira, Democratic Republic of Congo, 4Institut National de Recherche Biomédicale, Goma, Democratic Republic of the Congo, 5Department of International Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, 6Department of Epidemiology, Gillings School of Global Public Health, and University of North Carolina Population Center, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, 7PNECHOL-MD, Community IMCI, Ministry of Health, Kinshasa, Democratic Republic of the Congo

4:30 p.m.

5708

SINGLE DOSE ORAL VAXCHORA VACCINE (CVD103-HGR) FOR THE PREVENTION OF CHOLERA IN TRAVELERS
James M. McCarty1, Lisa Bedell2
1Stanford University, Stanford, CA, United States, 2Emergent BioSolutions, Gaithersburg, MD, United States

Symposium 38

Clinical Pearls in the Diagnosis and Management of Tropical Infections

Crystal Ballroom A - Lobby Level (West Tower)
Thursday, October 19, 3:30 p.m. - 4:45 p.m. U.S. Central Time Zone

This session will cover relevant topics related to neglected infectious and tropical diseases prevalent in the region. This session is aimed to infectious disease specialists in general. This symposium will address the following topics: the impact of erroneous or delayed treatment of neglected infectious and tropical diseases and management of hepatic hydatid disease;
the treatment challenges of hepatic hydatid disease and endemic mycoses of Latin America; the most important clinical pearls to recognize endemic mycoses in Latin America and diagnosis and management of patients with complicated cutaneous and mucocutaneous leishmaniasis. In addition, the symposium will review the treatment challenges of complicated leishmaniasis and free-living amoebas: Balamuthia mandrilaris; the diagnosis pearls and treatment available for Balamuthia mandrilaris and how to overcome challenges in the management of P. vivax malaria, as well as current developments and future directions. Finally, the symposium will explore the treatment challenges of P. vivax malaria, including the appropriate use of antimalarial drugs and measures to prevent relapse and transmission. The session will conclude with a roundtable discussion that will allow participants to ask some questions on the topics discussed, as well as the speakers emphasizing key messages.

**CHAIR**
Theresa J. Ochoa
Universidad Peruana Cayetano Heredia, Lima, Peru
Carlos Seas
Universidad Peruana Cayetano Heredia, Lima, Peru

3 p.m.
**INTRODUCTION**

3:10 p.m.
**MANAGEMENT OF HEPATIC HYDATID DISEASE**
Pedro Legua
Universidad Peruana Cayetano Heredia, Lima, Peru

3:25 p.m.
**ENDEMIC MYCOSES OF LATIN-AMERICAN**
Carlos Seas
Universidad Peruana Cayetano Heredia, Lima, Peru

3:40 p.m.
**DIAGNOSIS AND MANAGEMENT OF PATIENTS WITH COMPLICATED CUTANEOUS AND MUCOCUTANEOUS LEISHMANIASIS**
Martin Montes
Universidad Peruana Cayetano Heredia, Lima, Peru

3:55 p.m.
**FREE-LIVING AMOEVAS: BALAMUTHIA MANDRILARIS**
Eduardo Gotuzzo
Universidad Peruana Cayetano Heredia, Lima, Peru

4:10 p.m.
**OVERCOMING CHALLENGES IN THE MANAGEMENT OF P. VIVAX MALARIA: CURRENT DEVELOPMENT AND FUTURE DIRECTION**
Sapha Barkati
Universidad Peruana Cayetano Heredia, Lima, Peru

Symposium 39

**American Committee on Clinical Tropical Medicine and Travelers’ Health (Clinical Group - ACCTMTH)**
**Symposium I: Vincenzo Marcolongo Lecture: Dengue - The Latest in Vaccines and Other Prevention Tools**

**Crystal Ballroom B - Lobby Level (West Tower)**
**Thursday, October 19, 3 p.m. - 4:45 p.m. U.S. Central Time Zone**

**Supported with funding from the International Association for Medical Assistance to Travellers (IAMAT)**

This session features the Vincenzo Marcolongo Lecture, which honors Dr. Vincenzo Marcolongo, the founder of IAMAT - the International Association for Medical Assistance to Travelers in 1960. Dr. Marcolongo’s lifelong work was devoted to the medical needs of travelers. Through IAMAT and numerous publications, Dr. Marcolongo worked tirelessly to inform travelers of health risks and raise awareness of travelers’ health. His foresight, compassion and generosity continue to serve as inspiration for IAMAT’s work. To quote Dr. Vincenzo Marcolongo, “Distinguished physicians and respected medical institutions, with a sense of solidarity which makes them like one family, are now working in harmony to assist the traveler who may require medical assistance on his journey... The need for peace and understanding between the peoples of the world has never been as great as now. Peace can come only with understanding, and travel is an important means of acquiring it.”

The incidence of dengue fever worldwide continues to increase, and about half of the world’s population is at risk, with an estimated 100-400 million infections per year. Dengue fever remains an ongoing challenge for endemic disease transmission in over 100 countries in parts of Africa, east Asia, the eastern Mediterranean, and South America as well as for travelers to these endemic areas. International travel and trade are facilitating the geographical spread of mosquito vectors and the introduction of dengue to new areas. Although much of the illness is on the milder spectrum, for severe or life-threatening dengue, early access to care and judicious fluid management can be lifesaving, especially given the lack of targeted therapeutics. Increased understanding of dengue epidemiology and immune response, as well as the availability of partially effective vaccines, candidate vaccines in the pipeline, and novel approaches to mosquito control have the potential to inform and significantly improve the effectiveness of dengue control. Gabriela Paz Bailey will deliver the Marcolongo Lecture and provide an update on the latest trends in dengue epidemiology and risk, as well as new information related to mosquito control efforts and vaccines.
Gabriela Paz-Bailey, MD, PhD, MSc, DTM&H is the Chief of the Dengue Branch (DB), Division of Vector-Borne Diseases (DVBD), National Center for Emerging and Zoonotic Infectious Diseases (NCEZID) in San Juan, Puerto Rico. Dr. Paz-Bailey completed a degree in Medicine and Surgery at the University of San Carlos of Guatemala. She continued her graduate studies at the London School of Hygiene & Tropical Medicine in London, England, where she pursued a Master of Science in Tropical Medicine and International Health, and a PhD in Clinical Epidemiology. She joined the Centers for Disease Control and Prevention (CDC) in 2000 as an Epidemic Intelligence Service Officer.

Dr. Paz-Bailey has over two decades of experience in public health and epidemiology in the United States, Central America, Africa, and Asia. She has studied the natural history of several infectious diseases, focusing on their acquisition and response to therapies. These include tuberculosis, Chagas disease, HIV, hepatitis B and C viruses, herpes viruses, and arboviral diseases such as dengue and Zika. She has focused her efforts on strengthening surveillance systems and comprehensive treatment and prevention programs, and has authored over 190 publications. She now leads dengue research and program development for the CDC, including dengue transmission dynamics, evaluation of novel mosquito control interventions, and dengue vaccine policy and implementation. Dr. Paz-Bailey is passionate about working on disease control and prevention and the use of science-based tools to improve public health.
EPSTEIN BARR VIRUS SYNERGIZES WITH PLASMODIUM FALCIPARUM MALARIA TO INDUCE ABERRANT EXPRESSION OF ACTIVATION INDUCED CYTIDINE DEAMINASE

Bonface Ariera, Sidney Ogolla, Rosemary Rochorford
University of Colorado Anschutz medical campus, Aurora, CO, United States

PARTICIPANTS FOR SECONDARY DENGUE VIRUS INFECTION AFTER A PRIMARY ZIKVA VIRUS INFECTION: A POSSIBLE ROLE FOR IGA

Jaime A. Cardona-Ospina, Sandra Bos, Gregorio Dias Jr., Jose Victor Zambrana, Vicky Roy, Elias Duarte, Guillermina Kuan, Angel Balmaseda, Eva Harris
Division of Infectious Disease and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States; Department of Epidemiology, School of Public Health, University of Michigan, Ann Arbor, MI, United States; Ragon Institute of MGH, MIT, and Harvard, Cambridge, MA, United States; Viral Epidemiology and Immunity Unit, Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States; Centro de Salud Sócrates Flores Vivias, Ministerio de Salud, Managua, Nicaragua; Laboratorio Nacional de Virologia, Centro Nacional de Diagnostico y Referencia, Ministerio de Salud, Managua, Nicaragua

IN-DEPTH ANALYSIS OF THE IMMUNOGENICITY OF A SINGLE DOSE OF DENVAXIA IN BASELINE DENGUE-NAIVE CHILDREN IN CEBU, PHILIPPINES

Laura J. White, Lindsay Dahora, Elizabeth Adams, Emily Freeman, Lucas Laszaca, Ruby Shah, Lakshmamane Premkumar, Oidio Camilar, Leah Katzelinick, Jedas Daag, Maria Vinna Crisostomo, Kristal-An Agrupis, Galit Alter, Eva Harris
1Division of Infectious Disease and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States; Department of Epidemiology, School of Public Health, University of Michigan, Ann Arbor, MI, United States; Ragon Institute of MGH, MIT, and Harvard, Cambridge, MA, United States; Viral Epidemiology and Immunity Unit, Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, 2Department of Epidemiology, School of Public Health, University of Michigan, Ann Arbor, MI, United States; 3Ragon Institute of MGH, MIT, and Harvard, Cambridge, MA, United States; 4Centro de Salud Sócrates Flores Vivias, Ministerio de Salud, Managua, Nicaragua; 5Laboratorio Nacional de Virologia, Centro Nacional de Diagnostico y Referencia, Ministerio de Salud, Managua, Nicaragua

Symposium 41
Neglected Tropical Diseases at Home: Leishmania spp. in the United States

Regency Ballroom B - Ballroom Level (West Tower)
Thursday, October 19, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

Disease caused by infection with Leishmania spp. parasites is a prime example of a One Health concern as it affects both humans (leishmaniasis) and animals (leishmaniosis) and is spread by sandfly vectors with species-specific environmental requirements. In the United States, leishmaniasis is considered an exotic illness occurring among people who have traveled or lived abroad. However, movement of people and animals across borders and environmental changes could facilitate establishment of infection in new areas. Increasing numbers of autochthonous cases of cutaneous leishmaniasis caused by L. mexicana are reported and both vectors and animal reservoirs (primarily Neotoma spp.) have been documented in the southern U.S. Climate modeling studies have indicated that climate change will allow for northern expansion of sandfly vectors, which will likely increase the incidence of autochthonous cutaneous leishmaniasis in the U.S. Lack of awareness among U.S. physicians for endemic cutaneous leishmaniasis delays diagnosis and could result in inappropriate treatment of patients. Additionally, dogs are a major reservoir for zoonotic visceral leishmaniasis caused by Leishmania infantum, a potentially fatal disease affecting an estimated 90,000 people each year in over 80 endemic countries. The parasite has been expanding into non-endemic areas globally due to climate change and increasing world trade and international movement of dogs. Currently, few countries conduct surveillance for animal leishmaniosis or have control programs in place. In the U.S., hunting hounds have maintained infection through vertical transmission without apparent spread to sandflies, although one U.S. sandfly species (Lutzomyia shannoni) has demonstrated competence as a vector of L. infantum in South America. Importation of dogs from endemic areas brings concerns about the risk of zoonotic transmission to veterinary staff and dog owners, household transmission between pets, and establishment of an enzootic cycle in the U.S. if suitable vectors are present. Globally, both leishmaniasis and leishmaniosis are considered neglected tropical diseases. Likewise, there is a lack of knowledge and awareness of endemic leishmaniasis and leishmaniosis in the U.S. To address this knowledge gap, this symposium will present the full spectrum of leishmaniasis and leishmaniosis in the U.S. with an overview of autochthonous human and animal cases and domestic sandfly vector distribution and competence. Additionally, a new risk assessment tool for importation of dogs into the U.S. from endemic areas and the implications for human and animal health will be presented.

CHAIR
Anne Straily
US Centers for Disease Control and Prevention, Atlanta, GA, United States
Symposium 42

Spatial Repellents to Prevent Mosquito-Borne Disease: Active Compound Discovery and Entomological Studies

Regency Ballroom C - Ballroom Level (West Tower)
Thursday, October 19, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

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 products can help us 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. Here we will cover the history of spatial repellent research and where we are today, focusing on the active ingredients available and those in the pipeline, as well as the evidence base from entomology, semi-field, and field studies. Our first speaker, Nicole Achee, will provide an overview of historical spatial repellent research and research priorities required to support their potential and continued wider 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, Johnson Kyeba Swai, will describe work conducted on evaluation of transfluthrin in semi-field, experimental huts, and community studies. He will discuss which factors are most important to consider when designing these entomological studies to measure the protective efficacy of spatial repellents measured by reduction in landings as well as blood feeding inhibition and mortality. Our third speaker, Gissella Vasquez, will provide an overview of entomological studies and field studies. Her research focuses on evaluating volatile pyrethroids against mosquito species in the Peruvian Amazon. Dr. Vasquez will emphasize challenges found in field research and share best practices for addressing those challenges. Our final speakers Dan Kline and Ingrid Chen will present a comprehensive assessment of the spatial repellent evidence base against the backdrop of entomological research, for which methods have evolved substantially over the past two decades. We present results from the meta-analysis ‘Volatile pyrethroids against mosquitoes,’ the first consolidation of research findings on the active ingredient class used in most spatial repellent products under development.

Symposium 43

Targeting “Gaps in Protection” to Prevent Malaria in Hard to Reach Communities: A Staged Approach to Test New Vector - Control Tools, and Insights Toward Future Evaluation

Regency Ballroom D - Ballroom Level (West Tower)
Thursday, October 19, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

This symposium represents the collective works of Project BITE (Bite Interruption Toward Elimination) and serves as a template for addressing gaps in vector control tool protection, which can be applied more broadly. In the current global scenario of climate change, urbanization, and the alarming expansion of hard-to-reach, mobile, and displaced populations, more effective and appropriate tools are urgently needed. Malaria elimination requires aggressive and creative application of effective vector control tools, especially in populations that are most difficult to reach. The WHO Global Vector Control Response calls for “programs to optimize the delivery of interventions tailored to the local context”. Project BITE used a staged approach to evaluate several novel tools, including volatile pyrethroid spatial repellents, etofenprox-treated clothing, and topical repellent. This staged approach consisted of a series of experiments including semi-field studies, entomological field studies, and human behavioral research, in order to understand...
the entomological effectiveness as well as the acceptability and suitability of the tools for the target populations. Finally, these tools were combined into a Forest Pack, designed and delivered to the most at-risk populations in Cambodia as they target malaria elimination by 2025. At each stage, modelling was utilized to predict the potential impact on the malaria burden, with the new data further informing the models. Semi-field and field experiments found that all tools were effective at reducing mosquito landing – and even more so when used in combination – offering personal protection for the intervention user. Each tool also had impacts on “secondary” endpoints such as mortality, prolonged blood-feeding inhibition and egg-laying, which indicates the tools may also offer community protection. Implementation research revealed that while the majority of people were satisfied with the tools, the distribution, delivery, and proper usage of them – especially the treated clothing – presents an obstacle to be overcome. Project BITE is a demonstration of how a staged approach to evaluation can be used to generate important data on effectiveness and acceptability of new tools, or combinations of tools, aimed at protecting the most vulnerable populations from disease. When traditional epidemiological data, via a randomized controlled trial or other form of study, is not practical, we must consider what other options are available to produce relevant, complementary evidence. There is an urgent need for new tools to prevent mosquito borne disease in targeted, context-appropriate ways. A shift in the paradigm of evaluating and approving new tools is needed.

CHAIR
David J. McIver
Malaria Elimination Initiative, Institute for Global Health Sciences, University of California, San Francisco, San Francisco, CA, United States

Allison Tatarsky
Malaria Elimination Initiative, Institute for Global Health Sciences, University of California, San Francisco, San Francisco, CA, United States

3 p.m.
INTRODUCTION

3:10 p.m.
EVALUATION OF NOVEL VECTOR CONTROL TOOLS IN A SEMI-FIELD SETTING, USING MULTIPLE DIVERSE ENDPOINTS
Alongkot Ponlawat
Armed Forces Medical Research Institute of Medical Sciences, Bangkok, Thailand

3:30 p.m.
PROGRESSING TO FIELD BASED ENTOMOLOGICAL EVALUATION OF NOVEL VECTOR CONTROL TOOLS, INCLUDING COMBINED INTERVENTIONS
Dyna Doum
Health Forefront Organization, Phnom Penh, Cambodia

3:50 p.m.
INTEGRATION OF HUMAN BEHAVIOR DATA WITH ENTOMOLOGICAL DATA TO IDENTIFY GAPS IN PROTECTION AND GUIDE INTERVENTION SELECTION, TARGETING, AND TAILORING
Elodie Vajda
Malaria Elimination Initiative, Institute for Global Health Sciences, University of California, San Francisco, San Francisco, CA, United States

4:10 p.m.
A MODELLING FRAMEWORK TO EVALUATE THE POTENTIAL IMPACT OF NOVEL VECTOR CONTROL TOOLS BASED ON SEMI-FIELD AND FIELD DATA
Emma Fairbanks
Swiss Tropical and Public Health Institute, Allschwil, Switzerland

4:30 p.m.
WHERE DO WE GO FROM HERE? HOW DO WE SHIFT THE EVALUATION PARADIGM TOWARD BUILDING COMPLEMENTARY EVIDENCE WHEN TRADITIONAL EPIDEMIOLOGICAL DATA COLLECTION IS NOT FEASIBLE
Allison Tatarsky
Malaria Elimination Initiative, Institute for Global Health Sciences, University of California, San Francisco, San Francisco, CA, United States

Richard Hunt Sculpture Tour
Meet in Hotel Lobby at Wacker Drive Entrance
Thursday, October 19, 3:30 p.m. – 5 p.m.
Please join us along with the Green Task Force for a Chicago Art Walk featuring the work of Chicago's own famous sculptor, Richard Hunt. According to Kinshasha Holman Conwill, Director of the Studio Museum in Harlem, “Hunt has been a major figure in American Art for forty years. His sculpture and public commissions have earned a singular place in the cultural landscape and public imagination.” Jesus Lopes, a staff artist in Richard Hunt's Studio, will lead the tours. The tours will be held on Thursday, October 19 at 3:30 pm - 5 pm and Friday, October 20 at 3:30 pm - 5 pm. Meet in the lobby of the Hyatt Regency Chicago at the Wacker Drive entrance.

Poster Session A Dismantle
Riverside Center - Exhibit Level (East Tower) and Grand Hall GHI – Ballroom Level (East Tower)
Thursday, October 19, 4 p.m. - 5:15 p.m.

Break
Thursday, October 19, 4:45 p.m. - 5:15 p.m.
Scientific Session 44

Global Health: Global Health Security and Emerging Infectious Diseases

Grand Ballroom A - Ballroom Level (East Tower)
Thursday, October 19, 5:15 p.m. - 7 p.m. U.S. Central Time Zone

CHAIR
Clive Brown
Centers for Disease Control and Prevention, Atlanta, GA, United States
Stephen K. Balinandi
Uganda Virus Research Institute, Entebbe Wakiso District, Uganda

5:15 p.m.

ACUTE PUBLIC HEALTH THREATS GLOBALLY: A 10-YEAR WORLD HEALTH ORGANIZATION ANALYSIS
Neil J. Saad1, Blanche Greene-Cramer2, Adedoyin Awofisayo-Oyeku1, Dubravka Selinc Minet1, Maria Almirón3, Kristi Swanson3, Masaya Kato3, Tshewang Dorji3, Tamano Matsui1, Manilay Pheneya1, Aura Corpuz1, Jeremias Naiene1, Jukka Pukkila6, Silviu Ciobanu6, Etien Koua7, George Sie Williams7, Oliver Morgan8, Ibrahima Socé Fall1, Abdi Rahman Mahamud1, Esther L. Hamblion1, on behalf of the World Health Organization Public Health Intelligence Teams1
1World Health Organization, Geneva, Switzerland, 2World Health Organization Regional Office for the Americas, Washington DC, WA, United States, 3World Health Organization Regional Office for South-East Asia, New Delhi, India, 4World Health Organization Regional Office for the Western Pacific, Manila, Philippines, 5World Health Organization Regional Office for the Eastern Mediterranean, Cairo, Egypt, 6World Health Organization Regional Office for Europe, Copenhagen, Denmark, 7World Health Organization Regional Office for Africa, Brazzaville, Republic of the Congo, 8World Health Organization, Berlin, Germany

5:15 p.m.

MEASLES ANTIBODY RESPONSE AND DURATION IN INFANTS WITH HIGH EARLY-LIFE MALARIA EXPOSURE COMPARISON WITH LOW MALARIA EXPOSURE
Samantha E. Tulenko1, Catherine S. Forconi1, Sylvia Becker-Dreps1, Jessie K. Edwards1, John Michael Ong’ech1, Juliana A. Otieno1, Hellen Barsonios1, Peyton Thompson1, Emily W. Gower1, Ann M. Moormann1
1University of North Carolina, Chapel Hill, NC, United States, 2University of Massachusetts Chan Medical School, Worcester, MA, United States

5:30 p.m.

DETECTION OF HUMAN CASES OF CRIMEAN-CONGO HEMORRHAGIC FEVER DURING AN ONGOING MULTIDISTRICT OUTBREAK OF EBOLA VIRUS DISEASE IN UGANDA, 2022-23
Stephen K. Balinandi1, Shannon Whitmer2, Sophia Mulca1, Luke Nyakarahuka3, Caitlin Cossaboom1, Alex Tumusiime3, Etien Kour1, George Sie Williams7, Oliver Morgan8, Ibrahima Socé Fall1, Abdi Rahman Mahamud1, Esther L. Hamblion1, on behalf of the World Health Organization Public Health Intelligence Teams1
1World Health Organization, Geneva, Switzerland, 2World Health Organization Regional Office for the Americas, Washington DC, WA, United States, 3World Health Organization Regional Office for South-East Asia, New Delhi, India

5:45 p.m.

RISK FACTORS FOR COLONIZATION WITH EXTENDED-SPECTRUM CELPHALOSPORIN RESISTANT AND CARBAPENEM RESISTANT ENTEROBACTERIA AMONG HOSPITALIZED PATIENTS IN BANGLADESH: ANTIBIOTIC RESISTANCE IN COMMUNITIES AND HOSPITALS - ARCH STUDY
Syeda Mah-E-Muneer1, Fahmida Chowdhury1, Kamal Hossain1, Rachel M. Smith1, Ashley R. Styczynski1
1icddr,b, Dhaka, Bangladesh, 2CDC, Atlanta, GA, United States

6 p.m.

ENVIRONMENTAL SURVEILLANCE TO DETERMINE COVID-19 PREVALENCE IN DISTRICTS IN NORTHERN GHANA WITH NO REPORTED COVID-19 CASES: EVIDENCE TO INFORM PUBLIC HEALTH INTERVENTIONS
Habib Yakubu1, Christine Moe2, Stephen Hilton3, Liu Pengbo4, Sarah Durry2, Marlene Wolfe2, Yueke Wang5, Mike Osei-Atweneba6, Patrick Kuma Aboagye7, Dennis Laryea7, Hannah Amapudu7, Franklin Asiedu Bekoe7, Ebeneler Ato Kwamena Senaya7, Benedict Tufuor7, Samuel Armoo8, Lady Asantewa Adomako1, Nana Aso Amonoo8, Mark Akrong9
1Centre for Global Safe Water, Sanitation and Hygiene, Hubert Department of Public Health, Rollins School of Public Health at Emory University, Atlanta, GA, United States, 2Council for Scientific and Industrial Research-Water Research Institute, Accra, Ghana, 3Ghana Health Service, Accra, Ghana, 4Training, Research and Networking for Development, Accra, Ghana

6:15 p.m.

ACUTE PUBLIC HEALTH THREATS GLOBALLY: A 10-YEAR WORLD HEALTH ORGANIZATION ANALYSIS

5719

ENVIRONMENTAL SURVEILLANCE TO DETERMINE COVID-19 PREVALENCE IN DISTRICTS IN NORTHERN GHANA WITH NO REPORTED COVID-19 CASES: EVIDENCE TO INFORM PUBLIC HEALTH INTERVENTIONS
Habib Yakubu1, Christine Moe2, Stephen Hilton3, Liu Pengbo4, Sarah Durry2, Marlene Wolfe2, Yueke Wang5, Mike Osei-Atweneba6, Patrick Kuma Aboagye7, Dennis Laryea7, Hannah Amapudu7, Franklin Asiedu Bekoe7, Ebeneler Ato Kwamena Senaya7, Benedict Tufuor7, Samuel Armoo8, Lady Asantewa Adomako1, Nana Aso Amonoo8, Mark Akrong9
1Centre for Global Safe Water, Sanitation and Hygiene, Hubert Department of Public Health, Rollins School of Public Health at Emory University, Atlanta, GA, United States, 2Council for Scientific and Industrial Research-Water Research Institute, Accra, Ghana, 3Ghana Health Service, Accra, Ghana, 4Training, Research and Networking for Development, Accra, Ghana

6:15 p.m.

MEASLES ANTIBODY RESPONSE AND DURATION IN INFANTS WITH HIGH EARLY-LIFE MALARIA EXPOSURE COMPARISON WITH LOW MALARIA EXPOSURE
Samantha E. Tulenko1, Catherine S. Forconi1, Sylvia Becker-Dreps1, Jessie K. Edwards1, John Michael Ong’ech1, Juliana A. Otieno1, Hellen Barsonios1, Peyton Thompson1, Emily W. Gower1, Ann M. Moormann1
1University of North Carolina, Chapel Hill, NC, United States, 2University of Massachusetts Chan Medical School, Worcester, MA, United States

6:30 p.m.

MACROLIDE RESISTANCE 36 MONTHS AFTER MASS AZITHROMYCIN ADMINISTRATION IN A CLUSTER-RANDOMIZED TRIAL IN NIGER
Ashley Hazet1, Ahmed M. Arzika2, Anza Abdou1, Ramatou Mallik2, Seth Blumberg3, Elodie Lebas4, Travis C. Porco4, Thomas M. Lietman5, Jeremy D. Keenan5
1University of California, San Francisco, San Francisco, CA, United States, 2The Carter Center, Niger, Naiamey, Niger, 3Programme Nationale de Santé Oculaire, Naiamey, Niger

6:45 p.m.

RISK FACTORS FOR COLONIZATION WITH EXTENDED-SPECTRUM CELPHALOSPORIN RESISTANT AND CARBAPENEM RESISTANT ENTEROBACTERIA AMONG HOSPITALIZED PATIENTS IN BANGLADESH: ANTIBIOTIC RESISTANCE IN COMMUNITIES AND HOSPITALS - ARCH STUDY
Syeda Mah-E-Muneer1, Fahmida Chowdhury1, Kamal Hossain1, Rachel M. Smith1, Ashley R. Styczynski1
1icddr,b, Dhaka, Bangladesh, 2CDC, Atlanta, GA, United States

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DETECTION OF HUMAN CASES OF CRIMEAN-CONGO HEMORRHAGIC FEVER DURING AN ONGOING MULTIDISTRICT OUTBREAK OF EBOLA VIRUS DISEASE IN UGANDA, 2022-23
Stephen K. Balinandi1, Shannon Whitmer2, Sophia Mulca1, Luke Nyakarahuka3, Caitlin Cossaboom1, Alex Tumusiime3, Etien Kour1, George Sie Williams7, Oliver Morgan8, Ibrahima Socé Fall1, Abdi Rahman Mahamud1, Esther L. Hamblion1, on behalf of the World Health Organization Public Health Intelligence Teams1
1World Health Organization, Geneva, Switzerland, 2World Health Organization Regional Office for the Americas, Washington DC, WA, United States, 3World Health Organization Regional Office for South-East Asia, New Delhi, India

5718

A COMPREHENSIVE REVIEW OF CLINICAL PRESENTATIONS OF NIPAH VIRUS INFECTION: EVIDENCE GENERATED FROM NIPAH VIRUS OUTBREAKS OF 2023, BANGLADESH
Syed M. Satter1, Waskir A. Agub2, Arifa Nazneen1, Dewan I. Rahman1, Fateha A. Emam2, Ahmed N. Alam3, Mahbubur Rahman4, Mohammad M. Rahman4, Md O. Gauym1, Mohammad R. Hassan1, Ariful Islam2, Sushmita Dutta2, Nabila N. Chowdhury3, Md Z. I. Noman4, Abir S. Mahmood5, Md S. B. Alam5, Md M. Hassan6, Immanuel Muntasir7, Sabrina J. Mily1, Sakia Haque1, Showam Barua4, Ahmad R. Sharif1, Sharmi Sultana1, John D. Klen1, Mohammad Z. Rahman1, Sayera Banu1, Joel M. Montgomery1, Tahmina Shinin1
1icddr,b, Dhaka, Bangladesh, 2Institute of Epidemiology, Diseases Control and Research (IEDCR), Dhaka, Bangladesh, 3EcoHealth Alliance, Atlanta, GA, United States, 4Viral Special Pathogens Branch, Division of High Consequence Pathogens and Pathology, Centers for Disease Control and Prevention (CDC), Atlanta, GA, United States
Diversity and Importance of Nonhuman Primate Malaria Parasites: Tenth Anniversary Symposium in Honor of Dr. William E. Collins

Grand Ballroom B - Ballroom Level (East Tower)
Thursday, October 19, 5:15 p.m. - 7 p.m. U.S. Central Time Zone

Dr. William “Bill” E. Collins, Ph.D., passed away on September 28, 2013. Bill was a legendary malarialogist. He was an ASTMH member (1961-2013) and worked in the U.S. Public Health Service for over fifty years, including CDC (1973-2013). His work involved seminal contributions to malaria biology, entomology, vaccine development, therapeutic studies, and drug trials using nonhuman primate models. He co-authored the book The Primate Malarias (Coatney GR, Collins WE, Warren M, Contacos PG originally published 1971) that summarized the knowledge on different species of Plasmodium in primates, including humans. Throughout his research, he developed and preserved unique biological materials of different human and nonhuman malaria parasites and generously shared them with anyone who needed them for their research. His efforts were invaluable for many subsequent discoveries, including genome sequencing, fundamental research on parasite biology, and the development of new tools for malaria diagnosis that are much needed in control and elimination. The scientific community honored Bill by naming a subspecies, Plasmodium vivax collinsi, and a great ape malaria parasite, Plasmodium billcollinsi, after him. What can we learn from studying nonhuman primates’ malaria parasites? The species causing malaria in humans originated independently, involving different lineages or clades that share recent common ancestors with other species in nonhuman primates. As a result, the parasites that primarily cause malaria in humans show remarkable biological differences. The Plasmodium species found in nonhuman primates provide critical information to understand the molecular basis of phenotypic differences among the human malaria parasites, such as their mechanisms of invasion of the red blood cell, pathogenesis, treatment, and transmission biology. In addition, some nonhuman primate malaria parasites are of public health importance as they are part of zoonotic infections. The most notorious is Plasmodium knowlesi in Southeast Asia, but other species in the region, such as Plasmodium cynomolgi and Plasmodium inui, may also infect humans. There are also anthropozoootic infections in South America. In particular, Plasmodium brasilianum (known as Plasmodium malariae in humans) and Plasmodium simium, which originated from Plasmodium vivax. Bill Collins summarized all these complexities by saying, “We learn from all the parasites.” Thus, this symposium honors him by revising our knowledge of nonhuman malaria parasites.

5:15 p.m.
INTRODUCTION

5:25 p.m.
INTRODUCTION: BILL COLLINS LEGACY IN THE STUDY OF NONHUMAN PRIMATE MALARIA PARASITES
Venkatachalam Udhayakumar
Independent Consultant, Decatur, GA, United States

5:35 p.m.
MALARIA, MAN AND MONKEYS: PAST, PRESENT, AND FUTURE
Balbir Singh
Malaria Research Centre, Universiti Malaysia, Sarawak, Malaysia

5:55 p.m.
PLASMODIUM PITHECI MALARIA IN BORNEAN ORANG-UTANS
Karmele Llano Sánchez
IAR Indonesia Foundation – Yayasan Inisiasi Alam Rehabilitasi Indonesia (YIARI), Ketapang, West Kalimantan, Indonesia

6:15 p.m.
The Importance of Nonhuman Primate Malaria Parasite Genomics for the Study of Human Malaria
Jane Carlton
New York University, New York, NY, United States

6:35 p.m.
DIVERSITY AND ORIGIN OF PRIMATE MALARIA PARASITES
Ananias A. Escalante
Temple University/Institute for Genomics and Evolutionary Medicine, Philadelphia, PA, United States

Symposium 46

Innovations in Modelling and Analytics to Accelerate Development of a New Generation of Malaria Interventions

Grand Hall J - Ballroom Level (East Tower)
Thursday, October 19, 5:15 p.m. - 7 p.m. U.S. Central Time Zone

New tools are needed to address the persistent threat of malaria, particularly as resistance to our current toolbox of interventions and treatments becomes more prevalent. Malaria modelling and analytics has emerged as a critical component for accelerating the development of new tools, identifying ideal product properties, supporting improved monitoring and surveillance, and facilitating conversations and collaboration between academia, industry, global regulators, and funding bodies. This symposium brings together experts in the field to discuss the latest developments and innovations in malaria modelling and analytics, and their applications in shaping a next generation of malaria interventions and product strategies. Presenters will speak to how innovations in modelling and analytics are accelerating decisions on discovery, selection, testing, and clinical trials for novel malaria tools: next-generation medical products, next-generation vector control tools, gene-drive modified mosquitoes, and genomic tools. Experts will also address how advances in computation and machine learning are being deployed for malaria intervention development, as well as the intelligent use of cutting-edge genomics tools and surveillance technologies for decision-making support. Through
these conversations, this symposium will provide a platform for the exchange of ideas on malaria modelling and analytics as a development accelerator.

**CHAIR**

Melissa A. Penny  
Swiss Tropical and Public Health Institute, Basel, Switzerland  
John Marshall  
University of California, Berkeley, Berkeley, CA, United States

5:15 p.m.  
**INTRODUCTION**

5:25 p.m.  
**MODELLING FOR DEFINING TARGET PRODUCT PROFILE CRITERIA AND CLINICAL TRIAL PROPERTIES FOR NEXT-GEN MALARIA VACCINES**  
Josephine Malinga  
Swiss Tropical and Public Health Institute, Allschwil, Switzerland

5:45 p.m.  
**MODELING AND ANALYTICS TO SUPPORT THE TRANSITION OF GENE DRIVE MOSQUITO PROJECTS FROM LAB TO FIELD**  
John Marshall  
University of California, Berkeley, Berkeley, CA, United States

6:05 p.m.  
**KEY CONSIDERATIONS FOR USING AI AND INFRARED SPECTROSCOPY FOR MALARIA SURVEILLANCE**  
Issa Mahani  
Ifakara Health Institute, Morogoro, United Republic of Tanzania

6:25 p.m.  
**MACHINE LEARNING APPLICATIONS FOR TRACKING KEY BIOLOGICAL THREATS TO MALARIA CONTROL**  
Sophia Mwinyi  
Ifakara Health Institute, Morogoro, United Republic of Tanzania

6:45 p.m.  
**INVESTIGATING THE IMPACT OF PLASMODIUM FALCI PARUM CS DIVERSITY ON MALARIA IMMUNITY AND VACCINE/MAB PROTECTIVE EFFICACY**  
Daniel Neafsey  
Harvard TH Chan School of Public Health, Boston, MA, United States

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Grand Ballroom CDEF - Ballroom Level (East Tower)  
Thursday, October 19, 5:15 p.m. - 7 p.m. U.S. Central Time Zone

In recent years progress has stalled in the fight against malaria. New tools will be critical to sustaining gains and several promising technologies are on the immediate horizon. However, to be effective these interventions need to be feasible to implement within the context of resource limited health systems and flexible enough to be delivered through a variety of mechanisms that are acceptable to communities across a range of different social, economic and cultural contexts. In recent years, there has been a positive trend toward funding significant social and behavioral research components alongside rigorous epidemiological and entomological evaluations of new malaria vector control interventions. This symposium will showcase the social science components of three Unitaid-funded projects: Advancing Evidence for Global Implementation of Spatial Repellents (AEGIS), Broad One Health Endectocide-based Malaria Intervention in Africa (BOHEMIA), and the New Nets Project. These multi-country projects are designed to generate the evidence needed for a World Health Organization recommendation for first-in-class products in promising new intervention classes. Researchers across projects will present different methodological approaches, results to date, and how findings might be used to enhance future research and implementation. The symposium will also include a brief presentation on why Unitaid invests in social science research to inform product development and introduction and to foster inclusive and demand-driven partnerships for innovation. Maximizing alignment with the priorities of affected countries, communities, and civil society groups is central to Unitaid’s 2023-2027 Strategy and critical to informing its investments. Finally, a short panel discussion will be included touching on key lessons learned across projects, limitations of social science research in the context of epidemiological trials, and how the global malaria community can continue to move towards rethinking malaria, engaging with both endemic country health systems and the most vulnerable and working together to co-produce locally appropriate malaria prevention strategies.

**CHAIR**

April Monroe  
Johns Hopkins Center for Communication Programs, Baltimore, MD, United States

5:15 p.m.  
**INTRODUCTION**

5:20 p.m.  
**AEGIS KENYA SOCIAL SCIENCE: RATIONALE, METHODS, INTERIM RESULTS AND IMPLICATIONS**  
Prisca Oria  
Kenya Medical Research Institute, Kisumu, Kenya

5:30 p.m.  
**SOCIAL SCIENCE INSIGHTS FROM THE BROAD ONE HEALTH ENDECTOCIDE-BASED MALARIA INTERVENTION IN AFRICA PROJECT**  
Caroline Jones  
Kemri-Wellcome Trust Research Programme, Kilifi, Kenya

5:40 p.m.  
**AT THE INTERSECTION OF HUMAN AND MOSQUITO BEHAVIORS: A RAPID REVIEW OF THE SOCIAL SCIENCE RESEARCH COMPONENTS OF THE NEW NETS PROJECT**  
Joseph Wagman  
PATH, Washington, DC, United States
5:50 p.m. 5724
INVESTING IN SOCIAL SCIENCE RESEARCH TO INFORM PRODUCT DEVELOPMENT AND INTRODUCTION AND FOSTER INCLUSIVE AND DEMAND-DRIVEN PARTNERSHIPS FOR INNOVATION
Kelsey Barrett
Unitaid, Geneva, Switzerland

Scientific Session 48
Kinetoplastida and Other Protozoa: Epidemiology
Grand Hall K - Ballroom Level (East Tower)
Thursday, October 19, 5:15 p.m. - 7 p.m. U.S. Central Time Zone

CHAIR
Natalie Bowman
University of North Carolina, Chapel Hill, NC, United States
Diogo Valadares
IMT - UFRN, Natal, Brazil

5:15 p.m. 5725
MOLECULAR EPIDEMIOLOGY OF ASYMPTOMATIC CRYP'TOSPORIDIOSE, GIARDIA AND ENTAMOEB A INFECTIONS: THREATS TO THE HEALTH OF NIGERIAN CHILDREN?
Oluwaremilekun Grace Ajakaye1, Egie Enabulele2, Amana Onekutu3, Ehizogie Adeyemi1, Emmanuel Effanga1, Joshua Balogun4, Muhammad Ali1, Samuel Dahal1, Timothy Auta1, Umoru Askira4, Victor Njomo1, Michael Grigg1
1Adekunle Ajasin University, Akungba Akoko, Nigeria, 2Texas Biomedical Research Institute, San Antonio, TX, United States, 3University of Illinois, Chicago, Chicago, IL, United States, 4National Institute of Allergy and Infectious Diseases, NIH, Bethesda, MD, United States

5:30 p.m. 5726
MOLECULAR-BASED EVIDENCE OF TRANSMISSION OF ATYPICAL TRYPANOSOMIASIS (A-HAT) IN SELECTED COMMUNITIES IN THE SUHUM MUNICIPALITY OF GHANA
Kofi Agyapong Addo
Akentsen Apiah-Menka University of Skills Training and Entrepreneurial Development, Kumasi, Ghana

6:00 p.m. 5727
LEISHMANIA INFANTUM VERTICAL TRANSMISSION IN NATURALLY INFECTED DOGS FROM AN ENDEMIC REGION OF BRAZIL
Diogo Valadares1, Flavio Coutinho2, Maria S. M. Amarante1, Ana Maria R. Oliveira3, Damila K. Melo1, Romenik K.R Lima2, Marcela Vidal1, Grant D. Brown1, Jacob J. Oleson2, Mary E. Wilson3, Christine A. Petersen1, Selma MB Jeronimo2
1IMT - UFRN, Natal, Brazil, 2Canis&Catus, Natal, Brazil, 3University of Iowa, Iowa City, IA, United States

6:15 p.m. 5728
CLINICAL AND METAGENOMIC CHARACTERIZATION OF CEREBRAL TOXOPLASMOSIS IN THE PERUVIAN AMAZON.
Hannah E. Steinberg1, Prashanth S. Ramachandran1, Andrea Diestra2, Lynn Pinchri3, Cusi Ferradas4, Daniela E. Kinwari1, Monica M. Diaz5, Micheal Sciaudone6, Annie Wagienarski1, Kelsey C. Zorn7, Maritza Calderon8, Lilia Cabrera9, Viviana Pinedo Cancino10, Micheal Wilson11, Cesar Ramal12, Robert H. Gilman13, Natalie M. Bowman14
1University of Illinois, Chicago, Chicago, IL, United States, 2UCSF, San Francisco, CA, United States, 3University of California Davis, Davis, CA, United States, 4St George's, University of London, London, United Kingdom, 5University of North Carolina, Chapel Hill, NC, United States, 6Tulane University, New Orleans, LA, United States, 7Universidad Nacional de la Amazonia Peruana, Iquitos, Peru, 8Hospital Regional de Loreto, Iquitos, Peru, 9Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

6:30 p.m. 5729
RISK FACTORS FOR MOTHER-TO-CHILD TRANSMISSION OF TRYPANOSOMA CRUZI AND HEPATITIS B IN THE CROSS-BORDER AREA OF ARGENTINA AND PARAGUAY
Yoshiko Takahashi1, Susana Avila2, Silvia Correa3, Karina Cardone4, Mariana Fernández5, Faviol Crudo6, Miho Sato7, Hirotsugu Aiga8, Kenji Hirayama9, Maria V. Periago10
1School of Tropical Medicine and Global Health, Nagasaki University, Nagasaki, Japan, 2Fundación Mundo Sano, Buenos Aires, Argentina, 3Universidad Nacional de Salta, Salta, Argentina, 4CONICET/Fundación Mundo Sano, Buenos Aires, Argentina

Symposium 49
The Path to Evidence-Based Action to Reach Those Left Behind by Mass Drug Administration and Vaccination Programs
Grand Hall L - Ballroom Level (East Tower)
Thursday, October 19, 5:15 p.m. - 7 p.m. U.S. Central Time Zone

The 2030 Agenda for Sustainable Development includes a target of ‘achieving universal health coverage with access to quality services and medicines for all’. Large public health programs to eliminate neglected tropical diseases and expand routine immunization are, by most other metrics, global health success stories. However, some individuals remain left behind and are not covered through mass drug or vaccine distribution campaigns.
For example, in 2020, globally an estimated 12.5 million children were never vaccinated - called ‘zero-dose children’. Within national lymphatic filariasis programs, data shows up to 45% of people in some sites reported that they were ‘never treated’ during any round of mass drug administration. These public health programs may use different terminology and have different target populations, yet many of the unreached groups overlap. These individuals face similar barriers accessing mass campaigns, as well as expressing decreased demand due to rumors or misunderstanding of risk. Not only does the exclusion of these groups contribute to ongoing disease transmission and inability to meet disease control or elimination goals, but it also impedes progress towards the Sustainable Development Goals. The session will begin by presenting current efforts underway to identify and reach those left behind. It will then showcase country examples of efforts to collect data and respond to never treatment / zero-dose, as well as highlight recent programmatic data analysis on the links between never treatment in LF programs and infection status. The session will demonstrate the pathway of evidence to action in order to identify and reach the never treated/zero-dose individuals.

**CHAIR**
Alison Krentel
School of Epidemiology and Public Health, University of Ottawa, Ottawa, ON, Canada
Dziedzom K. De Souza
Noguchi Memorial Institute for Medical Research, Accra, Ghana

**5:15 p.m.**
**INTRODUCTION**

**5:25 p.m.**
**REACHING THOSE WHO ARE LEFT BEHIND IN MASS PUBLIC HEALTH CAMPAIGNS: USING EVIDENCE TO GENERATE ACTION**
Alison Krentel
University of Ottawa, Ottawa, ON, Canada

**5:35 p.m.**
**RESULTS FROM THE GAVI ZERO-DOSE LEARNING AGENDA: BANGLADESH AND MALI EXPERIENCES**
Heidi W. Reynolds
Gavi, the Vaccine Alliance, Geneva, Switzerland

**5:50 p.m.**
**WHAT CAN PROGRAMMATIC DATA TELL US ABOUT LINKS BETWEEN NEVER TREATMENT AND INFECTION?**
Molly Brady
RTI International, Washington, DC, United States

**6:05 p.m.**
**THE CASE OF CROSS-BORDER NEVER TREATMENT AMONG COUNTRIES IN THE SOUTH-EAST ASIA REGION**
Aya Yajima
World Health Organization South-East Asia Regional Office (SEARO), New Delhi, India

**6:20 p.m.**
**ASSESSING THE NEVER-TREATED IN GHANA AND THE POTENTIAL IMPACTS ON THE LYMPHATIC FILARIASIS ELIMINATION EFFORTS**
Dziedzom K. De Souza
Noguchi Memorial Institute for Medical Research, University of Ghana, Accra, Ghana
Symposium 51

Clinical Development of Monoclonal Antibodies that Target Malaria Sporozoites

Crystal Ballroom A - Lobby Level (West Tower)
Thursday, October 19, 5:15 p.m. - 7 p.m. U.S. Central Time Zone

Building on the recent success of the anti-malaria sporozoite monoclonal antibody (mAb) CIS43LS in malaria naïve and malaria exposed populations and early progress seen with the next generation antibody L9LS, the reality of a prophylactic mAb for malaria is within reach. The aim of this symposium is to bring together leaders in the field to present results from pivotal phase 2 trials of CIS43LS and L9LS in Mali and Kenya, and to review progress in the development of the MAM01 mAb. The symposium will also explore how modeling can inform future study designs and predict use case scenarios. The symposium will provide a forum for the community to discuss next steps in the clinical development and registration of mAbs including potential targeted populations. Each presenter will provide an overview on prior experience exploring some of these concepts in prior and current projects, but also will discuss important concepts to explore in future mAb clinical trials.

Chair

Aissata Ongoiba
ICERMALI, Bamako, Mali

Sara A. Healy
NIH/NIAID/LIG, Rockville, MD, United States

5:15 p.m.

INTRODUCTION

5:25 p.m.

MAM01: THE DEVELOPMENT FOR SEASONAL PASSIVE IMMUNIZATION INTERVENTION

Kayla Andrews
Bill & Melinda Gates Medical Research Institute, Cambridge, MA, United States

5:45 p.m.

SECONDARY ANALYSES OF A PHASE 2 TRIAL OF THE ANTI-MALARIA MONOCLONAL ANTIBODY CIS43LS IN MALI

Safiou N. Doumbo
MRTC/ICERMALI, Bamako, Mali

6:05 p.m.

MALI L9LS PEDIATRIC EFFICACY RESULTS

Aissata Ongoiba
MRTC/ICERMALI, Bamako, Mali

6:25 p.m.

L9LS ANTIMALARIA MONOCLONAL ANTIBODY IN KENYAN CHILDREN: INTERIM RESULTS

Titus K. Kwambai
US Centers for Disease Control, Kisumu, Kenya, Kisumu, Kenya

6:45 p.m.

MODELLING TO INFORM DEVELOPMENT AND USE OF MALARIA MAB INTERVENTIONS

Narimane Nekkab
Swiss Tropical and Public Health Institute, University of Basel, Allschwil, Switzerland

Symposium 52

American Committee on Clinical Tropical Medicine and Travelers’ Health (Clinical Group - ACCTMTH)
Symposium II: Ask the Tropical Medicine Clinical Consultant

Crystal Ballroom B - Lobby Level (West Tower)
Thursday, October 19, 5:15 p.m. - 7 p.m. U.S. Central Time Zone

This symposium will provide practical content focused on everyday clinical issues busy clinicians might face and for which they might need to reach out for some management advice. The session will feature some less frequently addressed topics and content areas. Each speaker will discuss practical questions related to their field of interest, including issues to consider in the differential diagnosis, methods to make a diagnosis, and potential management.

Chair

Mark Kortepeter
USUHS, Bethesda, MD, United States

Miriam Barshak
Massachusetts General Hospital, Massachusetts Eye and Ear, Boston, MA, United States
5:15 p.m.  
INTRODUCTION

5:25 p.m.  
TROPICAL EYE INFECTIONS  
Miriam Barshak  
Massachusetts General Hospital, Massachusetts Eye and Ear, Boston, MA, United States

5:50 p.m.  
TROPICAL NEUROLOGY - CYSTIC LESIONS  
Anna Cervantes-Arslanian  
Boston University, Boston Medical, Boston, MA, United States

6:15 p.m.  
EXOTIC SKIN DISEASES  
Aisha Sethi  
Yale University School of Medicine, New Haven, CT, United States

6:40 p.m.  
TOPICS IN GLOBAL PEDIATRICS  
Nadia Sam-Agudu  
Global Pediatrics Program, University of Minnesota Medical School and Institute of Human Virology Nigeria in Abuja, Minneapolis, MN, United States

Scientific Session 53

Viruses - Viral Diagnostics, Therapeutics and Antivirals

Regency Ballroom A - Ballroom Level (West Tower)  
Thursday, October 19, 5:15 p.m. - 7 p.m. U.S. Central Time Zone

CHAIR  
Darci Smith  
Naval Medical Research Command, Ft. Detrick, MD, United States

Priscila Mayrelle da Silva Castanha  
University of Pittsburgh, Pittsburgh, PA, United States

5:15 p.m.  
DISCOVERY OF A SMALL MOLECULE THAT IMICS A UNIQUE ZIKA-NEUTRALIZING EPITOPE FROM A LARGE LIBRARY OF RANDOM MOLECULAR SHAPES  
Priscila Mayrelle Da Silva Castanha1, Patrick J. McEnaney2, Yongseok Park2, Anthea Bouwer2, Elton Chaves3, Roberto Lins3, Nicholas G. Paciaroni2, Paige Dickson2, Graham Carlson3, Marli T. Cordeiro3, Tereza Magalhães4, Jodi Craig4, Ernesto T A Marques Jr4, Thomas Kodadek5, Donald S. Burke5  
1University of Pittsburgh, Pittsburgh, PA, United States, 2The Herbert Wertheim UF Scripps Institute for Biomedical Innovation and Technology, Jupiter, FL, United States, 3Aggeu Magalhães Institute, Oswaldo Cruz Foundation, Recife, Brazil, 4Deluge Biotechnologies, Jupiter, FL, United States, 5Department of Entomology, Texas A&M University, College Station, TX, United States

5:30 p.m.  
PHARMACOKINETICS, TOLERABILITY AND SAFETY OF FAVIPIRAVIR COMPARED TO RIBAVIRIN FOR THE TREATMENT OF LASSA FEVER: A RANDOMIZED CONTROLLED OPEN LABEL PHASE II CLINICAL TRIAL  
Mirjam Groger1, Kevin Okwaraeke2, Peter Akhdeleno3, Meike Pahlmann1, Christine Kleist1, Cédric Mbouvi1, Julia Hinzmann1, Veronika Schlicker1, Femi Oluwasola Babatunde1, Ndapewa Ihthe1, Ohahogie Edeawe1, Francisca Naana Sarpong1, Camille Frizell2, Alexandre Duvignaud3, Denis Malvy4, Sylvanus Okogbenin5, Marie Jaspar5, Sebastian G. Wicha1, Stephan Günther5, Michael Ramharter5, Oluwafemi Ayodeji1, Cyril Eramhe1  
1Bernard Nocht Institute for Tropical Medicine, Hamburg, Germany, 2Federal Medical Centre Owo, Owo, Nigeria, 3Irua Specialist Teaching Hospital, Irura, Nigeria, 4University of Hamburg, Hamburg, Germany, 5Institut National de la Santé et de la Recherche Médicale 1219, Bordeaux, France

5:45 p.m.  
A BEAD-BASED MULTIPLEX SAMPLE-SPARING ANTIBODY ASSAY FOR DETECTING CURRENT AND PAST DENGUE AND ZIKA VIRUS INFECTIONS  
Edwing C. Cuadra1, Izabella N. Castillo1, Demetrios L. Samaras1, Lindsay C. Dahora2, Filemon Bucardo2, Megan E. Reller2, Aravinda M. de Silva2, Premkumar Lakshmanan3  
1University of North Carolina, Chapel Hill, NC, United States, 2National Autonomous University of Nicaragua at León, Nicaragua, 3Duke Global Health Institute, Duke University, Durham, NC, United States

5:50 p.m.  
TROPICAL NEUROLOGY - CYSTIC LESIONS  
Anna Cervantes-Arslanian  
Boston University, Boston Medical, Boston, MA, United States

6:00 p.m.  
IMMUNE-SYSTEM HUMANIZED DRAGA MICE  
ANTIBODIES AGAINST HANTAVIRUSES FROM HUMAN-GENERATION OF THERAPEUTIC HUMAN MONOCLONAL AGAINST ZIKA VIRUS INFECTION

6 p.m.  
DEVELOPMENT AND EVALUATION OF NOVEL NANOBODIES AGAINST ZIKA VIRUS INFECTION  
Shuofeng Yuan, Jianli Cao, Jasper Fuk-Woo Chan  
The University of Hong Kong, Hong Kong, Hong Kong

6:15 p.m.  
GENERATION OF THERAPEUTIC HUMAN MONOCLONAL ANTIBODIES AGAINST HANTAVIRUSES FROM HUMAN-IMMUNE-SYSTEM HUMANIZED DRAGA MICE  
Ahmad Faisal Karim1, Sounak Ghosh Roy1, Teodor D. Brummeanu1, Joseph Golden2, Jay Hooper1, Sofia A. Casares1  
1Naval Medical Research Command (NMRC), Silver Spring, MD, United States, 2Uniformed Services University of the Health Sciences, Bethesda, MD, United States, 3US Army Medical Research Institute for Infectious Diseases, Fort Detrick, MD, United States

6:30 p.m.  
A NON-WHOLE GENOME SEQUENCING APPROACH FOR MONITORING SARS-COV-2 VARIABLES IN BURKINA FASO & KENYA  
Caitlin Greenland-Bews1, Sonal Shah1, Alice J. Fraser1, Samuel S. Sermer1, Kephis Otieno1, Issiaka Soulama2, Alphonse Ouedraogo3, Issiaka Nebie3, Tegwen Marlaïs4, Alfred B. Tiono2, Emily Adams4, Simon Kariuki2, Sodiomon B. Sirima2, Chris Drakeley4, Feiko O. ter Kuile1, Thomas Edwards1, David J. Allen1  
1Liverpool School of Tropical Medicine, Liverpool, United Kingdom, 2London School of Hygiene & Tropical Medicine, London, United Kingdom, 3Duke Global Health Institute, Duke University, Durham, NC, United States, 4University of Hamburg, Hamburg, Germany, 5Institut National de la Santé et de la Recherche Médicale 1219, Bordeaux, France
Scientific Session 54

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

Regency Ballroom B - Ballroom Level (West Tower)
Thursday, October 19, 5:15 p.m. - 7 p.m. U.S. Central Time Zone

CHAIR
Christina M. Bergey
Rutgers University; Piscataway, NJ, United States
Koya Allen
Booz Allen Hamilton, Stuttgart, Germany

5:15 p.m.

Patterns of SARS-CoV-2 Active Infections Among Humans and Co-Existing Domestic Animals of East Central Texas During the Early Omicron Wave

1Texas A&M University; College Station, TX, United States
2Translational Genomics Research Institute; Flagstaff, AZ, United States
3Centers for Disease Control and Prevention; Atlanta, GA, United States

5:30 p.m.

Real-Time Data Collection for Efficient Microplanning and Monitoring of National Dog Rabies Vaccination in Bangladesh

Sazid Ibna Zaman, MD NurulHassan, S. M. Golam Kaisar, Kamrul Islam, Hasan Sayedul Mursalin, Md. Ismail Hossain, Kazi Nujhat Naila, Richard James Maude
1Mahidol-Oxford Tropical Medicine Research Unit (MD/ORU), Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand
2Zoonotic Disease Control Program, CDC, DHIS, Dhaka, Bangladesh
3Department of Geography and Environment, Faculty of Earth and Environmental Sciences, University of Dhaka, Dhaka, Bangladesh

5:45 p.m.

Genetic Adaptation of Nontyphoidal Salmonella in Humans, Animals and in the Environment-Anthropogenic Transmission?

1Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany
2National Institute for Medical Research, Tanga, United Republic of Tanzania
3Department of Microbiology, Virology and Hygiene, University Medicine Rostock, Rostock, Germany
4Kumasi Centre for Collaborative Research in Tropical Medicine, Kumasi, Ghana
5Department of Biology, University of Hamburg, Hamburg, Germany

6:00 p.m.

Detection of Blood Biomarkers of Neurological Injury in Human Cases of Viral Encephalitis and Severe Disease

Maggie L. Bartlett, Heather Poeck-Gour, Linwood Johnson, Kevin L. Schully, Melissa Gregory, Joost Brandsma, Josh G. Chenoweth, Danielle V. Clark, Amy Y. Vitor, Ronald Hayes, Jean-Paul Carrera, Darci R. Smith
1Naval Medical Research Command, Ft. Detrick, MD, United States
2The Henry Jackson Foundation, Bethesda, MD, United States
3University of Florida; Gainesville, FL, United States
4Banyan Biomarkers; San Diego, CA, United States
5Gorgas Memorial Institute, Panama City, Panama

6:15 p.m.

Molecular and Serological Evidence of Crimean-Congo Hemorrhagic Fever Virus in Livestock and Ticks in Cameroon

Francine Beranga Sado Yousse, Huquette Simo, François-Loïc Cosset, Natalia Bezerra de Freitas, Basile KAMGANG, Philip J. McColl, Roland NDID NDIP, Vincent Legros, Charles S. Wondji
1Centre for Research in Infectious Diseases, Yaoundé, Cameroon
2Centre Pasteur de Yaoundé, Yaoundé, Cameroon
3Centre International de Recherche en Infectiologie, Lyon, France
4Liverpool School of Tropical Medicine and Hygiene, Liverpool, United Kingdom
5University of Buea, Buea, Cameroon

6:30 p.m.

Molecular Characterization of Extended-Spectrum Beta-Lactamase Producing Klebsiella Pneumoniae Among Children and Livestock in Rural Korogwe, Tanzania

Neyza Ahmed Khan, Joyce Mbwana, Thorsten Thye, John Lusingu, Hagen Frickmann, Charity W. Akenten, Joseph Kaseka, Maike Lamshöft, Samwel Gesase, Daniel Minja, Jürgen May, Ralf Krumkamp, Wolfgang Streit, Denise Dekker
1One Health Bacteriology group, Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany
2National Institute for Medical Research, Tanga, United Republic of Tanzania
3Department of Infectious Disease Epidemiology, Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany
4Department of Microbiology, Virology and Hygiene, University Medicine Rostock, Rostock, Germany
5Kumasi Centre for Collaborative Research in Tropical Medicine, Kumasi, Ghana
6Department of Biology, University of Hamburg, Hamburg, Germany

6:45 p.m.

Genetic Adaptation of Nontyphoidal Salmonella in Humans, Animals and in the Environment-Anthropogenic Transmission?

1Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany
2National Institute for Medical Research, Tanga, United Republic of Tanzania
3Department of Microbiology, Virology and Hygiene, University Medicine Rostock, Rostock, Germany
4Kumasi Centre for Collaborative Research in Tropical Medicine, Kumasi, Ghana
5Department of Biology, University of Hamburg, Hamburg, Germany

Scientific Session 55

Mosquitoes- Bionomics, Behavior and Surveillance

Regency Ballroom C - Ballroom Level (West Tower)
Thursday, October 19, 5:15 p.m. - 7 p.m. U.S. Central Time Zone

CHAIR
Gloria Salome Gabriel Shirima
Nelson Mandela African Institution of Science and Technology, Arusha, United Republic of Tanzania
Hector Manuel Sanchez
University of California Berkeley, Berkeley, CA, United States
5:15 p.m.  5751
ASSESSING SHIFTS IN BITING PATTERNS OF ANOPHELES GAMBIAE AND ANOPHELES FUNESTUS, THE MAJOR MALARIA SPECIES IN SOUTHEASTERN TANZANIA
Janice S. Maige1, Alphonse A. Assenga1, Tegegnegn Gavan2, Gloria S.G Shirrim2, Protas Sayo2, Yeromin Mlacha2, Samson S. Kigwa2, Prosper Chak2
1University of Dar es Salaam, Dar es Salaam, United Republic of Tanzania, 2Ifakara Health Institute, Dar es Salaam, United Republic of Tanzania, 3The Nelson Mandela African Institution of Science and Technology, Arusha, United Republic of Tanzania, 4Pan-African Mosquito Control Association, Nairobi, Kenya

5:30 p.m.  5752
THE ROLE OF SEROTONIN IN MOSQUITO SWARMING AND AUDITORY PERCEPTION OF MATES
David A. Ellis1, Judit Baqi1, Scott Tytheridge1, Marta Andres1
University College London, London, United Kingdom

5:45 p.m.  5753
A SEMI-FIELD SYSTEM TO DEFINE THE CHEMOSENSORY BASIS OF MALARIA TRANSMISSION AT HIGH DEFINITION
Diego Giraldo1, Stephanie Rankin-Turner1, Abel Corver2, Genevieve M. Tauxe1, Anne L. Gao1, Donian M. Jackson1, Limonty Simubali2, Christopher Book1, Jennifer C. Stevenson1, Philip E. Thuma1, Rajiv C. McCoy1, Andrew Gordus2, Monicah M. Mburu1, Edgar Simulundu3, Conor J. McMeniman2
1Washington University, St. Louis, Missouri, United States, 2Rollins School of Public Health, Emory University, Atlanta, Georgia, United States, 3Institute of Science and Technology, Arusha, United Republic of Tanzania

6:00 p.m.  5754
IS THE INVASION AND SPREAD OF THE URBAN MALARIA VECTOR ANOPHELES STEPHENSI INTO AND ACROSS AFRICA MEDIATED BY WINDBORNE MIGRATION?
Tovi Lehmann1, Roland Bamou1, Jason Chapman1, Don Reynolds1, Peter Armbruster1, Adama Dao2, Alpha Yaro2, Tom Burkot3, Yvonne-Marie Linton2
1NIH, Bethesda, MD, United States, 2Exeter University, Exeter, United Kingdom, 3University of Greenwich, Greenwich, United Kingdom, 4Georgetown University, Washington, DC, United States

6:15 p.m.  5755
VECTOR AND HOST DIVERSITY SHAPE WEST NILE VIRUS TRANSMISSION IN URBAN GREEN SPACES ALONG AN URBAN-RURAL TRANSSECT
Andrew Mackay1, Jiayue Yan1, Chang-Hyun Kim2, Seth Magle2, Maureen Murray1, Mike Ward1, Chris M. Stone1
1University of Illinois Urbana-Champaign, Champaign, IL, United States, 2Urban Wildlife Institute, Lincoln Park Zoo, Chicago, IL, United States

6:30 p.m.  5756
MGSURVE: A FRAMEWORK TO OPTIMIZE TRAP PLACEMENT FOR GENETIC SURVEILLANCE OF MOSQUITO POPULATIONS
Hector Manuel Sanchez Castellanos1, David L. Smith2, John M. Marshall1, 3
1University of California Berkeley, Berkeley, CA, United States, 2Institute for Health Metrics and Evaluation, Seattle, WA, United States

6:45 p.m.  5757
DESIGN AND PRELIMINARY FIELD VALIDATION OF A HANDHELD TOOL FOR AUTOMATED MORPHOLOGICAL IDENTIFICATION OF MOSQUITO SPECIES, SEX, AND ABDOMINAL STATUS BY VILLAGE HEALTH TEAMS (VHTS) IN UGANDA, FOR COMMUNITY-BASED VECTOR SURVEILLANCE
Soumyajit Acharya1, Dening Li1, Shruti Hegde1, Aravind S. Kumar1, Saisamitha Dasari1, Bhavya Gopinath1, Carter J. Gaulke1, Sunny Patel1, Rebecca Rosenberg1, Janis Iourovitski2, Summer Duffy1, Christina Hummel1, Onanyang David1, Kaweessa James1, Kigongo Sirimari1, Batte D. Jovani1, Venkat Muktihinem1, Khalil Merali1, Radha V. Taralekar1
1Johns Hopkins University, Center for Bioengineering Innovation and Design, Baltimore, MD, United States, 2Vector Borne and Neglected Tropical Diseases Control Division, Ministry of Health, Kampala, Uganda

Symposium 56

Genetic and Genomic Approaches to Elucidate Evolutionary Selection and Drive the Elimination Agenda

Thursday, October 19, 5:15 p.m. - 7 p.m. U.S. Central Time Zone

Regency Ballroom D - Ballroom Level (West Tower)

Malaria parasites have coevolved with humans and the mosquito vector over tens of thousands of years. This co-evolution continues to impact the fitness of man, mosquito, and malaria parasite. The introduction of antimalarial drugs to kill malaria parasite blood stage parasites has resulted in the evolution of drug resistant parasites over a very short period. This evolution has driven waves of drug susceptible parasite attrition and expansion of drug resistant parasite populations. Resistant parasites spread across continents and thwart malaria control efforts. Drug pressure has fundamentally altered the Plasmodium falciparum parasite genome and as an example, mutations in pfcrt that drive chloroquine and aminoquinoline resistance are fixed in large parts of Southeast Asia. Similarly, the introduction of insecticidal drugs to kill the mosquito malaria vector has driven the evolution of insecticide resistant mosquitoes and these signatures of resistance have spread. The malaria parasite, human host and mosquito vector genomes have now all been sequenced, and this has enabled the systematic investigation of gene function as well as genetic signatures of natural and intervention induced selection. More recently, technical breakthroughs and reduced costs have accelerated data generation and facilitated rapid intervention responses to the spread of drug resistance in parasite species, insecticide resistance in vector species and the human genetic determinants of parasite carriage. In this symposium we will discuss recent insights into signatures and mechanisms of parasite, host, and vector genetic adaptation to infection. Dr. Charles Wondji will describe efforts to understand mosquito vector genetics and how the genome is evolving in the face of insecticide pressure. Dr. Silvia Kariuki will describe how polymorphisms in drug susceptibility measurements are being used to uncover novel mutations associated with artemisinin resistance in Africa. Dr. Ashley Vaughan will describe how experimental genetic crosses between P. falciparum strains
and bulk segregant analyses can uncover novel mechanisms of drug resistance. Finally, Dr. Matthias Marti will demonstrate the power of genome-wide association studies in uncovering a link between the spread of drug resistance and the genetics of malaria transmission.

CHAIR
Matthias Marti
University of Zurich, Zurich, Switzerland
Ashley Vaughan
Seattle Children’s Research Institute, Seattle, WA, United States

5:15 p.m.
INTRODUCTION

5:25 p.m.
A GENETIC LINK BETWEEN MALARIA TRANSMISSION AND DRUG RESISTANCE IDENTIFIED BY GENOME-WIDE ASSOCIATION STUDY
Matthias Marti
University of Zurich, Zurich, Switzerland

5:45 p.m.
UNCOVERING NOVEL CO-EVOLUTIONARY MECHANISMS OF PLASMODIUM FALCIPARUM DRUG RESISTANCE USING EXPERIMENTAL GENETIC CROSSES
Ashley Vaughan
Seattle Children’s Research Institute, Seattle, WA, United States

6:05 p.m.
HOST RESISTANCE TO MALARIA
Silvia Kariuki
KEMRI-Wellcome Trust Research Programme, Kilifi, Kenya

6:25 p.m.
GENETIC DRivers OF RESISTANCE ESCALATION IN MALARIA VECTORS
Charles Wondji
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

6:45 p.m.
TRACKING THE EMERGENCE OF ARTEMISININ RESISTANCE IN THE REPUBLIC OF UGANDA
Toshihiro Mita
Juntendo University, Tokyo, Japan

Special Session 57

Ponder to Probe: A Climate-Health Networking Event
Roosevelt 3B - Concourse Level (East Tower)
Thursday, October 19, 5:15 p.m. - 7 p.m. U.S. Central Time Zone

The ASTMH Committee on Global Health (ACGH) invites you to come speak your mind on contemporary global health issues! Peer-networking is an essential skill needed to establish and advance your global health and tropical medicine career. Networking is needed at every stage of your career and the connections you establish with peers today can be the foundation of future employment, career advancement, key collaborations, successful grants and major scientific advances of tomorrow. This peer-to-peer networking event will center around an informal debate on current key topics of interest to the tropical medicine community, including current infectious disease threats, career challenges and other hot topics pertaining to those pursuing a career in the field of global health. The session will allow participants to present their views on 2-3 pre-determined topics elicited from ACGH members based on current events, field research, scientific discovery, career challenges and general inquiry. Participants will ponder over these issues, probe alternative views, and share ideas in a relaxed setting, while getting to know their peers. Topics discussed can become conversation starters for further networking after the session and throughout the remainder of the annual meeting. This session is recommended for students, early career professionals and experts so topics can be discussed from a range of various perspectives.

Break
Thursday, October 19, 7 p.m. - 7:30 p.m. U.S. Central Time Zone

Symposium 58

An AJTMH Tropical Bookshelf Panel with Daisy Hernandez, Author of The Kissing Bug — A True Story about an Insect, a Family and a Nation's Neglect of a Deadly Disease
Grand Hall J - Ballroom Level (East Tower)
Thursday, October 19, 7:30 p.m. - 8:30 p.m. U.S. Central Time Zone

This session does not carry CME credit.

Daisy Hernández is the author of The Kissing Bug: A True Story of a Family, an Insect, and a Nation’s Neglect of a Deadly Disease (Tin House, 2021), which won the PEN/Jean Stein Book Award and was selected as an inaugural title for the National Book Foundation’s Science + Literature Program. The book was named a top 10 nonfiction book of 2021 by Time magazine and was a finalist for the New American Voices Award. She has spoken about the subject of her book—Chagas disease, neglected diseases in general and racial disparities in healthcare—on MSNBC, and at the Carter Center and the Pan American Health Organization.

CHAIR
Claire Panosian
UCLA David Geffen School of Medicine, Los Angeles, CA, United States

7:30 p.m.
INTRODUCTION

7:35 p.m.
MEET THE AUTHOR
Daisy Hernández
Northwestern University, Chicago, IL, United States

7:50 p.m.
QUESTIONS AND ANSWERS WITH THE AUTHOR - MODERATORS
Claire Panosian
UCLA David Geffen School of Medicine, Los Angeles, CA, United States
Christine Petersen
University of Iowa, Iowa City, IA, United States
8:10 p.m.  
PANEL DISCUSSION

Norman Beatty  
University of Florida, Gainesville, FL, United States

Sarah Hamer  
Texas A&M University, College Station, TX, United States

Friday, October 20

Registration

Grand Ballroom Foyer - Ballroom Level (East Tower)  
Friday, October 20, 7 a.m. - 5 p.m. U.S. Central Time Zone

Speaker Ready Room (Closed 11 a.m. - Noon)

Grand Suite 2AB - Ballroom Level (East Tower)  
Friday, October 20, 7 a.m. - 5 p.m. U.S. Central Time Zone

TropStop - Student/Trainee Lounge

Grand Hall MN – Ballroom Level (East Tower)  
Friday, October 20, 7 a.m. - 5 p.m. U.S. Central Time Zone

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

Horner and Ogden - Third Floor (West Tower)  
Friday, October 20, 7 a.m. - 7 p.m. U.S. Central Time Zone

Prayer Room

Hong Kong - Ballroom Level (West Tower) and Field - Third Floor (West Tower)  
Friday, October 20, 7 a.m. - 7 p.m. U.S. Central Time Zone

Nursing Mothers Room

Grand Suite 1 and Grand Suite 4 - Ballroom Level (East Tower)  
Friday, October 20, 7 a.m. - 7 p.m. U.S. Central Time Zone

Burroughs Wellcome Fund-ASTMH Fellowship Committee Meeting

Michigan Boardroom, Concourse Level, East Tower  
7 a.m. - 8 a.m. U.S. Central Time Zone

Trainee Membership Committee Meeting

McCormick - Third Floor (West Tower)  
Friday, October 20, 7 a.m. – 8 a.m.