

## Sunday, November 17

### Registration

Convention Center - Lobby I (1st Floor)  
Sunday, November 17, 7 a.m. - 10:30 a.m.

### Speaker Ready Room

Convention Center - Room 387 (3rd Floor)  
Sunday, November 17, 7 a.m. - Noon

### Meeting Sign-Up Room

Hilton – Norwich Room and Windsor Room (3rd Floor)  
Sunday, November 17, 7 a.m. – 1:15 p.m.

### Nursing Mothers Room

Convention Center – Office I120 and Office J121 (1st Floor)  
Sunday, November 17, 7 a.m. – 1:15 p.m.

### Prayer Room

Convention Center - Room 342 (3rd Floor)  
Sunday, November 17, 7 a.m. – 1:15 p.m.



## Symposium 165

### Reaching and Sustaining Elimination: Global Guidance and Regional Best Practices on Malaria Elimination and the Prevention of Re-establishment (PoR)

Convention Center - Hall I-2 (1st Floor)  
Sunday, November 17, 8 a.m. - 9:45 a.m.

The global fight against malaria has led to marked progress towards the long-term goal of malaria eradication, or complete interruption of malaria transmission throughout the world. To date, the WHO has certified a total of 43 countries and one territory as malaria-free and another three countries have achieved the milestone of zero indigenous cases. Until malaria eradication, resurgence remains a threat post-elimination. Despite the risk, countries that have achieved elimination have largely maintained their malaria-free status – a study in 2010 showed that 50 of the 99 historical malaria elimination programs that successfully achieved malaria elimination, only four had experienced resurgence and two of these four were able to eliminate malaria once again. A key component in this success has been strong prevention of re-establishment (POR) programs which are not only a requirement for WHO malaria-free certification but also a critical prerequisite to sustaining subnational and national elimination, and eventually achieving malaria eradication. The Greater Mekong Sub-region (GMS) in Southeast Asia has achieved impressive progress towards malaria elimination over the last decade with cases declining by 70% since 2013. In 2023, Cambodia and Lao PDR reached historical low level of malaria transmission in each

country, reporting 1,384, and 805 cases, respectively. As these countries near elimination, planning for POR has begun to prepare for WHO malaria-free certification and to sustain gains made over the last decade. On the other hand, Thailand, which was targeted by WHO as one of the countries for elimination by 2025 has seen cases increase sharply over the past two years, largely in areas on the border with Myanmar. This increase has stress tested the program's roll out of their POR guidelines and despite the setbacks, has generated several key lessons learned for POR. This symposium will convene representatives from the WHO and three national malaria control programs (NMCPs) in the GMS to share updated global guidelines and recent regional progress on POR. To start, the WHO Global Malaria Program (GMP) will introduce the latest global POR guidelines and their relevance to country elimination programs and malaria-free certification. Cambodia will present their process for developing their newly created POR guidelines. Lao PDR will then share their experience responding to a malaria outbreak in elimination area in 2023. To conclude, Thailand will discuss the challenges they have faced as a leader in the region on designing and implementing POR in the context of the recent rise in cases on the border. #Elimination #Epidemiology #InfectiousDisease

#### CHAIR

Elkhan Gasimov  
World Health Organization, Geneva, Switzerland

Yang Hu  
Clinton Health Access Initiative, Phnom Penh, Cambodia

#### 8 a.m. INTRODUCTION

#### 8:10 a.m. NEW WHO GLOBAL PREVENTION OF RE-ESTABLISHMENT (POR) GUIDELINES

Elkhan Gasimov  
World Health Organization, Geneva, Switzerland

#### 8:30 a.m. CAMBODIA: LOCALIZING GLOBAL GUIDANCE TO COUNTRY CONTEXT

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

#### 8:50 a.m. THAILAND: LESSONS LEARNED FROM SUBNATIONAL POR IMPLEMENTATION

Rungrawee Tipmontree  
Division of Vector Borne Diseases, DDC, MoPH, Thailand, Bangkok, Thailand

#### 9:10 a.m. LAO PDR: RESPONDING TO OUTBREAKS IN ELIMINATION AREAS

Vonethalom Thongpaseuth  
Center of Malariaology, Parasitology and Entomology, Laos, Vientiane, Lao People's Democratic Republic

## Scientific Session 166

### Bacteriology: Other Enteric Infections

Convention Center - Room 343/344 (3rd Floor)

Sunday, November 17, 8 a.m. - 9:45 a.m.

#InfectiousDisease #Diagnostics #Therapeutics  
#ClinicalResearch #Epidemiology

#### CHAIR

Jackie Knee

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

Stuart Torres Ayala

Universidad San Francisco de Quito, Quito, Ecuador

8 a.m.

8371

#### EVALUATION OF *IN SILICO* SHIGELLA SEROTYPING TOOLS USING A GLOBAL SHIGELLA COLLECTION

Xiaoliang Ba, Charlotte E. Chong, Fahad Khokhar, Mark A. Holmes, Kate S. Baker  
University of Cambridge, Cambridge, United Kingdom

8:15 a.m.

8372

#### IDENTIFYING OPTIMAL ENDPOINT DEFINITIONS TO MINIMIZE OUTCOME MISCLASSIFICATION IN UPCOMING SHIGELLA VACCINE TRIALS

Maria Garcia Quesada<sup>1</sup>, Benjamin A. Lopman<sup>1</sup>, Patricia B. Pavlinac<sup>2</sup>, James A. Platts-Mills<sup>3</sup>, Lance A. Waller<sup>1</sup>, Elizabeth T. Rogawski McQuade<sup>1</sup>

<sup>1</sup>Emory Rollins School of Public Health, Atlanta, GA, United States, <sup>2</sup>University of Washington, Seattle, WA, United States, <sup>3</sup>University of Virginia, Charlottesville, VA, United States

8:30 a.m.

8373

#### MULTIPLEX PCR DETECTION OF ENTERIC PATHOGENS IN A COMMUNITY-BASED BIRTH COHORT IN ECUADOR: A COMPARISON OF XTAG-GPP AND TAQMAN ARRAY CARD ASSAYS

Stuart Torres Ayala<sup>1</sup>, Lesly Simbaña Vivanco<sup>1</sup>, Nikolina Eve Walas<sup>2</sup>, Kelsey Jesser<sup>3</sup>, Nicolette A. Zhou<sup>3</sup>, Christine S. Fagnant-Sperati<sup>3</sup>, Hadley Burroughs<sup>4</sup>, Gwenyth O. Lee<sup>5</sup>, Joseph N.S. Eisenberg<sup>6</sup>, Karen Levy<sup>3</sup>, Gabriel Trueba<sup>1</sup>, Benjamin F. Arnold<sup>4</sup>

<sup>1</sup>Microbiology Institute, Universidad San Francisco de Quito, Quito, Ecuador, <sup>2</sup>Department of Environmental Health, School of Public Health, University of California Berkeley, Berkeley, CA, United States, <sup>3</sup>Department of Environmental & Occupational Health Sciences, University of Washington, Seattle, WA, United States, <sup>4</sup>Francis I. Proctor Foundation, University of California San Francisco, San Francisco, CA, United States, <sup>5</sup>Rutgers Global Health Institute, Rutgers, the State University of New Jersey, New Brunswick, NJ, United States, <sup>6</sup>Department of Epidemiology, School of Public Health, University of Michigan, Ann Arbor, MI, United States

8:45 a.m.

8374

#### OPTIMAL AZITHROMYCIN TREATMENT RULES FOR CHILDREN WITH WATERY DIARRHEA IN THE ANTIBIOTICS FOR CHILDREN WITH SEVERE DIARRHEA (ABCD) TRIAL

Sara S. Kim<sup>1</sup>, Allison Codi<sup>2</sup>, James Platts-Mills<sup>3</sup>, Patricia B. Pavlinac<sup>4</sup>, Karim Manji<sup>5</sup>, Christopher R. Sudfeld<sup>6</sup>, Queen Dube<sup>7</sup>, Naor Bar-Zeev<sup>8</sup>, Karen Kotloff<sup>9</sup>, Samba O. Sow<sup>10</sup>, Sunil Sazawal<sup>11</sup>, Benson O. Singa<sup>12</sup>, Farah Qamar<sup>13</sup>, Judd Walson<sup>4</sup>, Ayesha De Costa<sup>14</sup>, David Benkeser<sup>2</sup>, Elizabeth T. Rogawski McQuade<sup>1</sup>

<sup>1</sup>Department of Epidemiology, Rollins School of Public Health, Emory University, Atlanta, GA, United States, <sup>2</sup>Department of Biostatistics, Rollins School of Public Health, Emory University, Atlanta, GA, United States, <sup>3</sup>Division of Infectious Diseases and International Health, Department of Medicine, University of Virginia, Charlottesville, VA, United States, <sup>4</sup>Department of Global Health, Department of Epidemiology, University of Washington,

Seattle, WA, United States, <sup>5</sup>Department of Pediatrics and Child Health, Muhimbili University of Health and Allied Sciences, Dar es Salaam, United Republic of Tanzania, <sup>6</sup>Department of Global Health and Population, Harvard T.H. Chan School of Public Health, Boston, MA, United States, <sup>7</sup>Department of Pediatrics, Queen Elizabeth Central Hospital, Blantyre, Malawi, <sup>8</sup>International Vaccine Access Center, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, <sup>9</sup>Department of Pediatrics, Department of Medicine, Center for Vaccine Development and Global Health, University of Maryland School of Medicine, Baltimore, MD, United States, <sup>10</sup>Centre pour le Développement des Vaccins, Bamako, Mali, <sup>11</sup>Center for Public Health Kinetics, New Delhi, India, <sup>12</sup>Kenya Medical Research Institute, Nairobi, Kenya, <sup>13</sup>Department of Pediatrics and Child Health, Aga Khan University, Karachi, Pakistan, <sup>14</sup>Department of Maternal, Child, and Adolescent Health and Aging, World Health Organization, Geneva, Switzerland

9 a.m.

8375

#### ENTERIC PATHOGEN DETECTION AMONG CHILDREN DISCHARGED FROM OUTPATIENT TREATMENT FOR SEVERE ACUTE MALNUTRITION AND ASSOCIATIONS WITH SUBSEQUENT RELAPSE IN SOUTH SUDAN

Jackie Knee<sup>1</sup>, Lauren D'Mello-Guyett<sup>1</sup>, Lynn Grignard<sup>1</sup>, Alesha Myers<sup>1</sup>, Sarah King<sup>2</sup>, John Agong<sup>3</sup>, Lino Deng<sup>3</sup>, Mesfin Gose<sup>3</sup>, Jackson Lwate Hasan<sup>3</sup>, Nancy Grace Lamaka<sup>3</sup>, Anastasia Marshak<sup>4</sup>, Dimple Save<sup>3</sup>, Indi Trehan<sup>5</sup>, Khamisa Ayoub<sup>6</sup>, Heather Stobaugh<sup>2</sup>, Oliver Cumming<sup>1</sup>

<sup>1</sup>London School of Hygiene & Tropical Medicine, London, United Kingdom, <sup>2</sup>Action Against Hunger USA, New York, NY, United States, <sup>3</sup>Action Against Hunger South Sudan, Juba, South Sudan, <sup>4</sup>Tufts University, Boston, MA, United States, <sup>5</sup>University of Washington, Seattle, WA, United States, <sup>6</sup>Ministry of Health for the Republic of South Sudan, Juba, South Sudan

9:15 a.m.

8376

#### HIGH LEVELS OF GUT BIFIDOBACTERIUM ASSOCIATED WITH INTESTINAL INFLAMMATION AND FECAL METABOLITES IN CHILDREN IN RURAL BANGLADESH

Jessica A. Grembi<sup>1</sup>, Elizabeth Costello<sup>1</sup>, Brian C. DeFelice<sup>2</sup>, Anna Robaczewska<sup>1</sup>, Audrie Lin<sup>3</sup>, Md. Ziaur Rahman<sup>3</sup>, Shahjahan Ali<sup>4</sup>, Md. Zahir Hussain<sup>5</sup>, Rashidul Haque<sup>6</sup>, Mahbubur Rahman<sup>6</sup>, Leanne Unicomb<sup>6</sup>, Stephen Luby<sup>1</sup>, Susan P. Holmes<sup>1</sup>, David Relman<sup>1</sup>

<sup>1</sup>Stanford University, Stanford, CA, United States, <sup>2</sup>Chan Zuckerberg BioHub, San Francisco, CA, United States, <sup>3</sup>University of California, Santa Cruz, Santa Cruz, CA, United States, <sup>4</sup>University of Colorado, Denver, CO, United States, <sup>5</sup>University of Pittsburgh, Pittsburgh, PA, United States, <sup>6</sup>International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

9:30 a.m.

8377

#### NEONATAL ACQUISITION OF ESBL-PRODUCING ENTEROBACTERIALES IN MADAGASCAR AND CAMBODIA

Anne-Lise Beaumont<sup>1</sup>, Agathe de Lauzanne<sup>2</sup>, Mamitiana Alain Noah Rabenandrasana<sup>3</sup>, Norohasina Fanja Randriamanga<sup>3</sup>, Sandrine Bernabeu<sup>4</sup>, Alexis Criscuolo<sup>5</sup>, Perlinot Herindrainy<sup>3</sup>, Didier Guillemot<sup>1</sup>, Jean-Marc Collard<sup>3</sup>, Long Pring<sup>2</sup>, Laurence Borand<sup>2</sup>, Elsa Kermovant-Duchemin<sup>6</sup>, Muriel Vray<sup>1</sup>, Tania Crucitti<sup>3</sup>, Bich-Tram Huynh<sup>1</sup>

<sup>1</sup>Institut Pasteur, Université de Versailles-Saint Quentin, INSERM, Paris, France, <sup>2</sup>Institut Pasteur du Cambodge, Phnom Penh, Cambodia, Phnom Penh, Cambodia, <sup>3</sup>Institut Pasteur de Madagascar, Antananarivo, Madagascar, <sup>4</sup>Assistance Publique - Hôpitaux de Paris, Le Kremlin-Bicêtre, France, Paris, France, <sup>5</sup>Institut Pasteur, Paris, France, <sup>6</sup>Assistance Publique - Hôpitaux de Paris, Hôpital Necker-Enfants malades, Paris, France, <sup>7</sup>Institut Pasteur du Sénégal, Dakar, Senegal



## Symposium 167

### Contemporary Ethical Issues in Tropical Medicine: Content for Research Training from Peru and Mozambique

Convention Center - Room 345 (3rd Floor)

Sunday, November 17, 8 a.m. - 9:45 a.m.

Successful biomedical research and international collaboration require strong and well-staffed research support systems and an institutional infrastructure grounded in ethical best practices. While the research environment has matured significantly in low- and middle-income countries (LMICs) like Peru and Mozambique, research ethics training and oversight capacity still has room for improvement. Efforts are underway in many LMICs to close recognized gaps and reinforce sustainable systems that ensure locally led research ethics review as well as forums for LMICs to contribute to global ethical discourse. Investigators and research institutions in LMICs confront many of the same challenging ethical issues faced in high-resource settings, and face similar needs for education in research ethics education. These challenges include assuring research integrity in publications, obtaining meaningful informed consent in contexts of imbalanced power dynamics, and equitable conduct of clinical trials. Recognizing the need to address these challenges, LMIC-based educational programs, such as the NIH Fogarty International Center's International Research Ethics Education and Curriculum Development R25 program, have provided opportunities to reinforce research ethics education and expertise in LMIC institutions. In this symposium, faculty involved in the design and implementation of R25 programs in Mozambique and Peru will share examples of challenges they have faced in research ethics, insights on stakeholder's perceptions of needed research ethics training, and comments about both the benefits and limitations of research ethics education programs in LMIC settings.

#ClinicalResearch #FieldStudies #SocialScience

#### CHAIR

Richard A. Oberhelman

*Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States*

Theresa Ochoa

*Instituto de Medicina Tropical Alexander von Humboldt; Universidad Peruana Cayetano Heredia, Lima, Peru*

#### 8 a.m.

#### INTRODUCTION

#### 8:10 a.m.

### LESSONS FROM THE COVID-19 PANDEMIC AND STAKEHOLDER'S PERCEPTIONS OF RESEARCH ETHICS TRAINING NEEDS IN PERU

Cynthia S. Hurtado

*Universidad Peruana Cayetano Heredia, Lima, Peru*

#### 8:35 a.m.

### THE PAPER TRAIL: NAVIGATING THE COMPLEX LANDSCAPE OF AUTHORSHIP AND PAPER MILLS IN GLOBAL HEALTH

Valerie Paz-Soldan

*Tulane School of Public Health and Tropical Medicine—Health Office for Latin America, Lima, Peru*

#### 8:50 a.m.

### ETHICAL LESSONS LEARNED DURING THE COVID-19 PANDEMIC IN MOZAMBIQUE

Esperança Sevene

*University Eduardo Mondlane, Maputo, Mozambique*

#### 9:05 a.m.

### VACCINE INDUCED SEROPOSITIVITY FOLLOWING HIV VACCINE STUDIES IN MOZAMBIQUE. IMPLICATIONS FOR INFORMED CONSENT IN A HIGH HIV BURDEN COUNTRY

D. Troy Moon

*Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States*

#### 9:20 a.m.

### THE NIH FOGARTY INTERNATIONAL CENTER'S R25 PROGRAM IN INTERNATIONAL RESEARCH ETHICS EDUCATION AND CURRICULAR DEVELOPMENT: GOALS AND LESSONS

Elizabeth Heitman

*University of Texas Southwestern Medical Center, Dallas, TX, United States*

## Scientific Session 168

### Kinetoplastida and Other Opportunistic and Anaerobic Protozoa: Genomics, Proteomics and Metabolomics, Molecular Therapeutic Targets, Treatment, Drug Delivery, Drug Repurposing and Drug Discovery

Convention Center - Room 352 (3rd Floor)

Sunday, November 17, 8 a.m. - 9:45 a.m.

*This session does not carry CME credit.*

#InfectiousDisease #Therapeutics #FieldStudies

#### CHAIR

Byron Arana

*Drugs for Neglected Diseases Initiative, Geneva, Switzerland*

Louisa Messenger

*University of Nevada, Las Vegas, Las Vegas, NV*

#### 8 a.m.

### 8378

### EFFICACY AND SAFETY OF THERMOTHERAPY IN COMBINATION WITH MILTEFOSINE IN COMPARISON TO MILTEFOSINE MONOTHERAPY FOR THE TREATMENT OF CUTANEOUS LEISHMANIASIS IN THE AMERICAS: A PHASE III, OPEN LABEL, MULTICENTER, RANDOMIZED TRIAL

Joelle Rode<sup>1</sup>, Juan Pascalle<sup>2</sup>, Alejandro Llanos-Cuentas<sup>3</sup>, Marcia Hueb<sup>4</sup>, Jaime Soto<sup>5</sup>, Glaucia Cota<sup>6</sup>, Paulo Machado<sup>7</sup>, Marina Boni<sup>1</sup>, Bethania Blum<sup>1</sup>, **Byron Arana**<sup>8</sup>

<sup>1</sup>Drugs for Neglected Diseases Initiative, Rio de Janeiro, Brazil, <sup>2</sup>Instituto Conmemorativo Gorgas de Estudios de la Salud, Panama, Panama, <sup>3</sup>Universidad Peruana Cayetano Heredia, Lima, Peru, <sup>4</sup>Julio Muller University Hospital, Cuiaba, Brazil, <sup>5</sup>Fundación Nacional de Dermatología, Santa Cruz de la Sierra, Plurinational State of Bolivia, <sup>6</sup>Instituto René Rachou, Belo Horizonte, Brazil, <sup>7</sup>Federal University of Bahia, Salvador Bahia, Brazil, <sup>8</sup>Drugs for Neglected Diseases Initiative, Geneva, Switzerland

8:15 a.m.

8379

**FIRST-IN-HUMAN, RANDOMIZED, DOUBLE BLIND CLINICAL TRIAL OF LXE408 FOR KINETOPLASTID DISEASES**

Natasha Hochberg<sup>1</sup>, Li Ruobing<sup>2</sup>, Amanda Nguyen<sup>1</sup>, Christopher Breen<sup>3</sup>, Jean Lecot<sup>4</sup>, Andrea de Soyers<sup>5</sup>, Linda Armstrong<sup>3</sup>, Thierry Diagana<sup>6</sup>, Peter Pertel<sup>1</sup>, Megan Barton<sup>1</sup>, Florencia Segal<sup>1</sup>, Srinivasa Rao<sup>6</sup>

<sup>1</sup>Novartis Global Health, BioMedical Research, Cambridge, MA, United States, <sup>2</sup>Novartis Global Health, BioMedical Research, Shanghai, China, <sup>3</sup>Novartis Global Health, BioMedical Research, East Hannover, NJ, United States, <sup>4</sup>Novartis Global Health, Analytics-Global Medical Affairs, Basel, Switzerland, <sup>5</sup>Novartis Global Health, BioMedical Research, Basel, Switzerland, <sup>6</sup>Novartis Global Health, BioMedical Research, Emeryville, CA, United States

8:30 a.m.

8380

**TOPICAL APPLICATION OF AC2-26, AN ANNEXIN A1 PEPTIDOMIMETIC, REDUCES LESIONS AND IMPROVES IMMUNE RESPONSES IN A MURINE MODEL OF LEISHMANIA AMAZONENSIS INFECTION**

Liliane M. dos Santos, Tiago Nery, Gisele Goulart, Ana Paula Fernandes  
Universidade Federal de Minas Gerais, Belo Horizonte, Brazil

8:45 a.m.

8381

**SEVERE ANAEMIA AND HAEMOGLOBIN TRAJECTORY FOLLOWING TREATMENT OF VISCERAL LEISHMANIASIS: AN INDIVIDUAL PATIENT DATA META-ANALYSIS USING THE INFECTIOUS DISEASES DATA OBSERVATORY DATA PLATFORM**

Prabin Dahal<sup>1</sup>, Abdalla Munir<sup>2</sup>, Rishikesh Kumar<sup>3</sup>, Sauman Singh-Phulgenda<sup>1</sup>, Niyamat Ali Siddiqui<sup>3</sup>, James Wilson<sup>1</sup>, Gemma Buck<sup>1</sup>, Caitlin Naylor<sup>1</sup>, Matthew Brack<sup>1</sup>, Manju Rahi<sup>4</sup>, Paritosh Malaviya<sup>5</sup>, Monique Wasunna<sup>6</sup>, Francois Chappuis<sup>7</sup>, Koert Ritmeijer<sup>8</sup>, Carlos Costa<sup>9</sup>, Gustavo Romero<sup>10</sup>, Vassiliki Syriopoulou<sup>11</sup>, Fabiana Alves<sup>12</sup>, Kasia Stepniewska<sup>1</sup>, Krishna Pandey<sup>3</sup>, Ahmed Musa<sup>13</sup>, Philippe J. Guerin<sup>1</sup>

<sup>1</sup>University of Oxford, Oxford, United Kingdom, <sup>2</sup>Infectious Diseases Data Observatory (IDDO), Oxford, United Kingdom, <sup>3</sup>ICMR - Rajendra Memorial Research Institute of Medical Sciences (RMRIMS), Patna, India, <sup>4</sup>Indian Council of Medical Research (ICMR), New Delhi, India, <sup>5</sup>Infectious Disease Research Laboratory, Department of Medicine, Institute of Medical Sciences, Banaras Hindu University, Varanasi, India, <sup>6</sup>Drugs for Neglected Diseases initiative, Nairobi, Kenya, <sup>7</sup>Division of Tropical and Humanitarian Medicine, Geneva University Hospitals, Geneva, Switzerland, <sup>8</sup>Médecins Sans Frontières, Amsterdam, Netherlands, <sup>9</sup>Department of Community Medicine, Federal University of Piauí, Piauí, Brazil, <sup>10</sup>Center for Tropical Medicine, University of Brasilia, Brasilia, Brazil, <sup>11</sup>Infectious Diseases and Chemotherapy Research Laboratory, Medical School, National and Kapodistrian University of Athens, Athens, Greece, <sup>12</sup>Drugs for Neglected Diseases initiative, Geneva, Switzerland, <sup>13</sup>Institute of Endemic Diseases, University of Khartoum, Khartoum, Sudan

9 a.m.

8382

**EFFICACY OF SHORT-COURSE TREATMENT FOR PREVENTION OF CONGENITAL TRANSMISSION OF CHAGAS DISEASE: A RETROSPECTIVE COHORT STUDY**

Moscatelli Guillermo, Samanta Moroni, Juan Carlos Ramirez, Belen Warszatska, Fernanda Lascano, Nicolas Gonzalez, Andres Rabinovich, Jaime ALTCHER  
Hospital de Niños R. Gutierrez, Buenos Aires, Argentina

9:15 a.m.

8383

**IMPACT OF ASCARIDOLE ON METABOLIC BIOENERGETICS IN LEISHMANIASIS**

Deblina Sarkar, Sritama De Sarkar, Deep Goswami, Chaitali Karmakar, Prof. Mitali Chatterjee  
IPGME&R, Kolkata, Kolkata, India

9:30 a.m.

8384

**INVOLVING PATIENTS IN DRUG DEVELOPMENT FOR NEGLECTED TROPICAL DISEASES (NTDS): A QUALITATIVE STUDY EXPLORING AND INCORPORATING PREFERENCES OF PATIENTS WITH CUTANEOUS LEISHMANIASIS INTO TARGET PRODUCT PROFILE DEVELOPMENT**

Maria del Mar Castro<sup>1</sup>, Astrid C. Erber<sup>2</sup>, Byron Arana<sup>3</sup>, Glauca Cota<sup>4</sup>, Claudia Denkinge<sup>5</sup>, Nicole Harrison<sup>6</sup>, Julia Kutyl<sup>6</sup>, Liliana López-Carvajal<sup>7</sup>, Emma Plugge<sup>8</sup>, Julia Walochnik<sup>9</sup>, Piero Olliaro<sup>10</sup>

<sup>1</sup>Centro Internacional de Entrenamiento de Investigaciones Médicas (CIDEIM), Cali, Colombia, <sup>2</sup>Department of Epidemiology, Center for Public Health, Medical University of Vienna, Vienna, Austria, <sup>3</sup>Drugs for Neglected Diseases initiative (DNDi), Geneva, Switzerland, <sup>4</sup>Instituto René Rachou (IRR), Fundação Oswaldo Cruz (FIOCRUZ), Minas Gerais, Brazil, <sup>5</sup>Center of Infectious Diseases, Heidelberg University Hospital, Heidelberg, Germany, <sup>6</sup>Division of Infectious Diseases and Tropical Medicine, Department of Medicine I, Medical University of Vienna, Vienna, Austria, <sup>7</sup>Programa de Estudio y Control de Enfermedades Tropicales (PECET), Universidad de Antioquia, Medellín, Colombia, <sup>8</sup>Primary Care, Population Sciences and Medical Education, University of Southampton, Southampton, United Kingdom, <sup>9</sup>Institute of Specific Prophylaxis and Tropical Medicine, Center for Pathophysiology, Infectiology and Immunology, Medical University of Vienna, Vienna, Austria, <sup>10</sup>International Severe Acute Respiratory and Emerging Infection Consortium, Pandemic Sciences Institute, University of Oxford, Oxford, United Kingdom

**Symposium 169**

**Novel Approaches for the Radical Cure of Vivax Malaria: High Dose Short Course Primaquine and Tafenoquine**

Convention Center - Room 353 (3rd Floor)

Sunday, November 17, 8 a.m. - 9:45 a.m.

*Plasmodium vivax* causes between 4 and 11 million cases of malaria annually and represents an increasing proportion of malaria in > 40 countries co-endemic for *P. falciparum* and *P. vivax*. The radical cure of *P. vivax* requires treatment of both the blood stage, which causes acute symptoms, and the dormant liver stage (hypnozoites), which reactivate and cause relapses weeks to months later. Relapsing vivax malaria results in a cumulative risk of anaemia and is associated with direct and indirect morbidity and the potential for further transmission. For the last 60-70 years, *P. vivax* radical cure has relied on chloroquine (for the blood stage) and primaquine (for the liver stage). Primaquine has been used at a low total dose (3.5mg/kg) over 14-days to reduce the risk of drug induced haemolysis in patients who are G6PD deficient; this regimens effectiveness is confounded by poor adherence. Higher total doses of primaquine have been shown to be more efficacious. The therapeutic options for *P. vivax* are rapidly changing with the availability of tafenoquine, shorter course (higher daily dose) primaquine regimens, and the development of point-of-care tests for G6PD activity. Shorter course primaquine regimens are hypothesized to improve adherence, but data to support this has been lacking. Our pragmatic randomized controlled trial (960 patients, 4 countries) provides crucial data on the effectiveness and safety of high dose short course primaquine when unsupervised and compares this to the low dose 14-day treatment regimen. We will also present comparative effectiveness and safety data for single dose tafenoquine. We will also present highly anticipated data on the efficacy of tafenoquine with two different Artemisinin Combination Therapies (ACTs). Previous

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studies of tafenoquine and ACTs have shown poor antirelapse efficacy which has been attributed to a drug-drug interaction, but alternative explanations have also been proposed. Data presented will provide important information on the comparative efficacy of both primaquine and tafenoquine when administered with ACT (DHA-Piperaquine or pyronaridine-artesunate) versus chloroquine. We will provide insights from qualitative research in Cambodia and Ethiopia to inform the design of effective, feasible and acceptable implementation strategies for new radical cure treatment strategies, including G6PD testing and early clinical review. New interventions must be cost-effective, both for local health services and for the global effort towards malaria elimination. In the final talk a cost-effectiveness analysis will be presented. The talks represent as yet unpublished data and will allow time for a panel discussion of the proposed strategies and the challenges of delivering radical cure. #ClinicalResearch, #Elimination #InfectiousDisease #Therapeutics #TranslationalScience

#### CHAIR

Kamala Thriemer  
Menzies School of Health Research, Darwin, Australia

Lek Dysoley  
National Center for Parasitology, Entomology and Malaria Control, Phnom Phen, Cambodia

#### 8 a.m. INTRODUCTION

#### 8:10 a.m. EFFECTIVENESS OF UNSUPERVISED HIGH DOSE SHORT COURSE PRIMAQUINE AND TAFENOQUINE

Tamiru T. Degaga  
Arba Minch University, Arba Minch, Ethiopia

#### 8:20 a.m. SAFETY OF UNSUPERVISED HIGH DOSE SHORT COURSE PRIMAQUINE AND TAFENOQUINE

Najia Ghanchi  
Aga Khan University, Karachi, Pakistan

#### 8:30 a.m. TAFENOQUINE AND ACTS – EVIDENCE FROM INDONESIA AND CAMBODIA

Ayodhia Pitaloka Pasaribu  
Universitas Sumatera Utara, Medan, Indonesia

#### 8:40 a.m. INFORMING IMPLEMENTATION STRATEGIES FOR THE SAFE PROVISION OF HIGH DOSE SHORT COURSE PRIMAQUINE AND TAFENOQUINE

Sarah Cassidy-Seyoum  
Menzies School of Health Research, Darwin, Australia

#### 8:55 a.m. THE COST-EFFECTIVENESS OF HIGH DOSE SHORT COURSE PRIMAQUINE AND TAFENOQUINE

Angela A. Devine  
University of Melbourne, Melbourne, Australia

## Scientific Session 170

### American Committee of Molecular Cellular and Immunoparasitology (ACMCIP): Parasite Vaccine Development

Convention Center - Room 354/355 (3rd Floor)  
Sunday, November 17, 8 a.m. - 9:45 a.m.

Supported with funding from the Burroughs Wellcome Fund

#ClinicalResearch #Vaccinology #TranslationalScience  
#Immunology #InfectiousDisease

#### CHAIR

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

Thalia Pacheco-Fernandez  
Food and Drug Administration, Silver Spring, MD, United States

#### 8 a.m. 8385

#### DEVELOPMENT OF NOVEL HOOKWORM MRNA VACCINE CANDIDATES BY ALTERING THE INTRACELLULAR TRAFFICKING OF *NECATOR AMERICANUS* GST-1 ANTIGEN

Athos Silva de Oliveira<sup>1</sup>, Leroy Versteeg<sup>1</sup>, Neima Briggs<sup>2</sup>, Rakesh Adhikari<sup>1</sup>, Maria Jose Villar<sup>1</sup>, Peter Hotez<sup>1</sup>, Maria Elena Bottazzi<sup>1</sup>, Jeroen Pollet<sup>1</sup>

<sup>1</sup>Texas Children's Hospital Center for Vaccine Development & Department of Pediatrics, National School of Tropical Medicine, Baylor College of Medicine, Houston, TX, United States, <sup>2</sup>Departments of Immunobiology and Internal Medicine, Yale University, New Haven, CT, United States

(ACMCIP Abstract)

#### 8:15 a.m. 8386

#### CONTROL OF HOOKWORMS USING *BACILLUS THURINGIENSIS* CRY PROTEINS AND VACCINES

Qian Ding<sup>1</sup>, Hanchen Li<sup>1</sup>, Kelly A. Flanagan<sup>1</sup>, Duy Hoang<sup>1</sup>, Nicholas R. Cazeault<sup>1</sup>, Florentina Rus<sup>1</sup>, Ernesto Soto<sup>1</sup>, Erich M. Schwartz<sup>2</sup>, Jane Homan<sup>3</sup>, Wenbin Tuo<sup>4</sup>, Gary R. Ostroff<sup>1</sup>, Raffi V. Aroian<sup>1</sup>

<sup>1</sup>Umass Chan Medical School, Worcester, MA, United States, <sup>2</sup>Cornell University, Ithaca, NY, United States, <sup>3</sup>ioGenetics LLC, Madison, WI, United States, <sup>4</sup>United States Department of Agriculture, Beltsville, MD, United States

(ACMCIP Abstract)

#### 8:30 a.m. 8387

#### *OPISTHORCHIS VIVERRINI* ANTI-CANCER VACCINE TARGETING THE LIVER FLUKE HOST-PARASITE INTERFACE

Michael J. Smout<sup>1</sup>, Sujitra Chaipayadet<sup>2</sup>, Wannaporn Ittiprasert<sup>3</sup>, Sutas Suttiaprapa<sup>2</sup>, Paul J. Brindley<sup>3</sup>, Thewarach Laha<sup>2</sup>, Alex Loukas<sup>1</sup>

<sup>1</sup>James Cook University, Cairns, Australia, <sup>2</sup>Khon Kaen University, Khon Kaen, Thailand, <sup>3</sup>George Washington University, Washington DC, DC, United States

(ACMCIP Abstract)

#### 8:45 a.m. 8388

#### A LIVE-ATTENUATED *LEISHMANIA* VACCINE SHAPES THE CELLULAR RESPONSE IN THE BONE MARROW

Thalia Pacheco-Fernandez, Nazli Azodi, Spyros Karaiskos, Laura Klenow, Hannah Markle, Luis DaSilva-Pereira, Luis Santana-Quintero, Alexander Murray, Hira Nakhasi, Sreenivas Gannavaram

Food and Drug Administration, Silver Spring, MD, United States

(ACMCIP Abstract)

9 a.m.

8389

**SEROLOGICAL, CELLULAR, AND BLOOD TRANSCRIPTOMIC RESPONSES TO A RECOMBINANT ONCHOCERCIASIS VACCINE IN CATTLE NATURALLY EXPOSED TO ONCHOCERCA OCHENGI**

**Ben Makepeace**<sup>1</sup>, John Graham-Brown<sup>1</sup>, Tessa R. Walsh<sup>1</sup>, Lisa Luu<sup>1</sup>, Germanus Soh Bah<sup>2</sup>, Ndoode Herman Okah-Nnane<sup>2</sup>, David D. Ekale<sup>2</sup>, Rene B. Ayiseh<sup>3</sup>, David Abraham<sup>4</sup>, Darrick Carter<sup>5</sup>, Sean Gray<sup>5</sup>, Godwin Nchinda<sup>6</sup>, Vincent Tanya<sup>2</sup>, Sara Lustigman<sup>7</sup>  
<sup>1</sup>University of Liverpool, Liverpool, United Kingdom, <sup>2</sup>L'Institut de Recherche Agricole Pour le Développement, Ngaoundéré, Cameroon, <sup>3</sup>University of Buea, Buea, Cameroon, <sup>4</sup>Thomas Jefferson University, Philadelphia, PA, United States, <sup>5</sup>PAI Life Sciences, Seattle, WA, United States, <sup>6</sup>Centre International de Référence "Chantal Biya", Yaounde, Cameroon, <sup>7</sup>New York Blood Center, New York, NY, United States

9:15 a.m.

8390

**A PHASE I/II STUDY OF THE SAFETY, IMMUNOGENICITY, AND EFFICACY OF SM-TSP-2/ALYDROGEL WITH OR WITHOUT AP 10-701 FOR INTESTINAL SCHISTOSOMIASIS IN HEALTHY UGANDAN ADULTS**

**Chrispus M. Bakunda**<sup>1</sup>, Betty Mwesigwa<sup>1</sup>, Grace Mirembe<sup>1</sup>, Jacqueline Namugabo<sup>1</sup>, Hilda Mutebe<sup>1</sup>, Immaculate Nakabuye<sup>1</sup>, Douglas Makumbi<sup>1</sup>, Amir Wamala<sup>1</sup>, Allan Tindikahwa<sup>1</sup>, Lara Hoeweler<sup>2</sup>, Proscovia Naluyima<sup>1</sup>, Laura Vasquez<sup>2</sup>, Maria Elena Bottazzi<sup>3</sup>, Peter J. Hotez<sup>3</sup>, Elissa Malkin<sup>2</sup>, Jeffrey M. Bethony<sup>2</sup>, David J. Diemert<sup>2</sup>, Hannah Kibuuka<sup>1</sup>  
<sup>1</sup>Makerere University Walter Reed Project, Kampala, Uganda, <sup>2</sup>George Washington University, Washington, DC, United States, <sup>3</sup>Baylor College of Medicine, Houston, TX, United States

(ACMCIP Abstract)

9:30 a.m.

8391

**THE ANTI-CIRCUMSPOROZOITE ANTIBODY RESPONSE OF CHILDREN TO SEASONAL VACCINATION WITH THE RTS,S/AS01<sub>E</sub> MALARIA VACCINE OVER FIVE YEARS OF FOLLOW-UP (4 BOOSTER DOSES)**

**M Sanni Ali**<sup>1</sup>, Lisa Stockdale<sup>2</sup>, Issaka Sagara<sup>3</sup>, Issaka Zongo<sup>4</sup>, Rakiswendé Serge Yerbanga<sup>4</sup>, Almahamoudou Mahamar<sup>3</sup>, Frédéric Nikiéma<sup>4</sup>, Amadou Tapily<sup>3</sup>, Frédéric Sompougou<sup>4</sup>, Modibo Diarra<sup>3</sup>, Duncan Bellamy<sup>2</sup>, Katie Ewer<sup>2</sup>, Charles Zoungrana<sup>4</sup>, Djibrilla Issiaka<sup>3</sup>, Alassane Haro<sup>4</sup>, Koualy Sanogo<sup>3</sup>, Abdoul-Aziz Sienou<sup>4</sup>, Mahamadou Kaya<sup>3</sup>, Seydou Traore<sup>3</sup>, Ismaila Thera<sup>3</sup>, Kalifa Diarra<sup>3</sup>, Amagana Dolo<sup>3</sup>, Paul Snell<sup>1</sup>, Opokua Ofori-Anyinam<sup>5</sup>, Chris Ockenhouse<sup>6</sup>, Cynthia Lee<sup>6</sup>, Halidou Tinto<sup>4</sup>, Abdoulaye Djimde<sup>3</sup>, Jean-Bosco Ouedraogo<sup>4</sup>, Alassane Dicko<sup>3</sup>, Daniel Chandramohan<sup>1</sup>, Brian Greenwood<sup>1</sup>  
<sup>1</sup>London School of Hygiene & Tropical Medicine, London, United Kingdom, <sup>2</sup>Jenner Institute, University of Oxford, Oxford, United Kingdom, <sup>3</sup>The Malaria Research and Training Center, University of Sciences, Techniques and Technologies, Bamako, Mali, <sup>4</sup>Institut de Recherche en Sciences de la Santé, Bobo-Dioulasso, Burkina Faso, <sup>5</sup>GSK, Wavre, Belgium, <sup>6</sup>PATH, Seattle, WA, United States

(ACMCIP Abstract)

**Scientific Session 171**

**Mosquitoes-Biology, Physiology and Immunity**

Convention Center - Room 356 (3rd Floor)

Sunday, November 17, 8 a.m. - 9:45 a.m.

#Immunology #HostResponse #ClimateChange

**CHAIR**

Alexandra Francian  
University of New Mexico, Albuquerque, NM, United States

Maria Luisa Simoes  
Institute of Tropical Medicine Antwerp, Antwerp, Belgium

8 a.m.

8392

**EFFECTS OF HUMIDITY AND TEMPERATURE VARIATIONS ON ANOPHELES GENETIC TARGET CANDIDATES FOR MALARIA CONTROL**

Thais Lemos-Silva, **Maria Luisa Simoes**  
Institute of Tropical Medicine Antwerp, Antwerp, Belgium

8:15 a.m.

8393

**TNF SIGNALING ACTIVATES CELLULAR IMMUNITY TO PROMOTE MALARIA PARASITE KILLING IN ANOPHELES GAMBIAE**

George-Rafael Samantsidis, Hyeogsun Kwon, Megan Rogers, Catherine Fonder, **Ryan C. Smith**  
Iowa State University, Ames, IA, United States

8:30 a.m.

8394

**PIXEL INTENSITY OF WING PHOTOS USED TO PREDICT AGE OF ANOPHELES GAMBIAE SENSU LATO CAUGHT DURING THE RIMDAMAL II CLINICAL TRIAL**

**Greg Pugh**<sup>1</sup>, Emmanuel Sougué<sup>2</sup>, Ryan Yoe<sup>1</sup>, Lyndsey I. Gray<sup>1</sup>, Blue Hephaestus<sup>3</sup>, Anthony Somé<sup>2</sup>, A. Fabrice Somé<sup>2</sup>, Bryce Assay<sup>3</sup>, Roch K. Dabiré<sup>2</sup>, Sunil Parikh<sup>4</sup>, Brian D. Foy<sup>1</sup>  
<sup>1</sup>Colorado State University, Fort Collins, CO, United States, <sup>2</sup>Institute de Recherche en Sciences de la Santé, Bobo-Dioulasso, Burkina Faso, <sup>3</sup>Viden Technologies, Laramie, WY, United States, <sup>4</sup>Yale School of Public Health, New Haven, CT, United States

8:45 a.m.

8395

**EXPLOITING MOSQUITO SALIVARY PROTEINS TO DEVELOP VECTOR-TARGETED VACCINES FOR MALARIA AND ARBOVIRUSES**

**Alexandra Francian**<sup>1</sup>, Aidan Leyba<sup>2</sup>, Yewel Flores-Garcia<sup>3</sup>, Robert Taylor<sup>4</sup>, Justin Baca<sup>4</sup>, Pavan Muttli<sup>2</sup>, Fidel Zavala<sup>3</sup>, Bryce Chackerian<sup>1</sup>  
<sup>1</sup>University of New Mexico School of Medicine, Albuquerque, NM, United States, <sup>2</sup>University of New Mexico College of Pharmacy, Albuquerque, NM, United States, <sup>3</sup>Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, <sup>4</sup>University of New Mexico, Albuquerque, NM, United States

9 a.m.

8396

**PLASMODIUM FALCIPARUM INFECTION IN THE HUMAN HOST AND THE VECTOR INFLUENCE NATURAL ANOPHELINE BITING BEHAVIOR AND PARASITE TRANSMISSION**

**Christine F. Markwalter**<sup>1</sup>, Zena Lapp<sup>1</sup>, Lucy Abel<sup>2</sup>, Emmah Kimachas<sup>2</sup>, Evans Omollo<sup>3</sup>, Elizabeth Freedman<sup>1</sup>, Tabitha Chepkwony<sup>2</sup>, Mark Amunga<sup>2</sup>, Tyler McCormick<sup>4</sup>, Sophie Bérubé<sup>5</sup>, Judith N. Mangeni<sup>6</sup>, Amy Wesolowski<sup>5</sup>, Andrew A. Obala<sup>6</sup>, Steve M. Taylor<sup>1</sup>, Wendy P. O'Meara<sup>1</sup>  
<sup>1</sup>Duke University, Durham, NC, United States, <sup>2</sup>Academic Model Providing Access to Healthcare, Eldoret, Kenya, <sup>3</sup>Duke Global Inc, Nairobi, Kenya, <sup>4</sup>University of Washington, Seattle, WA, United States, <sup>5</sup>Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, <sup>6</sup>Moi University, Eldoret, Kenya

Sunday  
November 17

9:15 a.m.

8397

**LANDSCAPES OF INFECTION: REDEFINING THERMAL SUITABILITY OF URBAN MALARIA TRANSMISSION BY THE INVASIVE MOSQUITO SPECIES *ANOPHELES STEPHENSI* IN THE CONTEXT OF RELATIVE HUMIDITY**Courtney Murdock<sup>1</sup>, Joel Brown<sup>1</sup>, Britny Johnson<sup>1</sup>, Paul Huxley<sup>2</sup>, Leah Johnson<sup>2</sup>, Brandon Hollingsworth<sup>1</sup>, Michael Wimberly<sup>3</sup>, Mercedes Pascual<sup>4</sup>, Rajendra Baharia<sup>5</sup>, Ajeet Mohanty<sup>6</sup>, Rajesh Sharma<sup>7</sup>, Sachin Sharma<sup>8</sup>, Keshav Vaishnav<sup>9</sup>, Vijay Kohli<sup>7</sup>, Vikas Desai<sup>10</sup><sup>1</sup>Cornell University, Ithaca, NY, United States, <sup>2</sup>Virginia Tech, Blacksburg, VA, United States, <sup>3</sup>University of Oklahoma, Norma, OK, United States, <sup>4</sup>New York University, New York City, NY, United States, <sup>5</sup>National Institute for Malaria Research, Nadiad, India, <sup>6</sup>National Institute for Malaria Research, Goa, India, <sup>7</sup>Ahmedabad Municipal Corporation, Ahmedabad, India, <sup>8</sup>Cornell In India & National Institutes for Malaria, Delhi, India, <sup>9</sup>Surat Municipal Corporation, Surat, India, <sup>10</sup>Urban Health And Climate Resilience Centre Of Excellence, Surat, India

9:30 a.m.

8398

**ANGIOGENESIS AND CHRONIC EXPOSURE TO *ANOPHELES* SALIVARY PROTEINS**Olayinka M. Olajiga<sup>1</sup>, Arley Calle<sup>1</sup>, Samuel B. Jameson<sup>1</sup>, Brendan H. Carter<sup>1</sup>, Dawn M. Wesson<sup>1</sup>, Eric Calvo<sup>2</sup>, Jennifer Manuzak<sup>3</sup>, Berlin Londono-Renteria<sup>1</sup><sup>1</sup>Department of Tropical Medicine and Infectious Disease, School of Public Health and Tropical Medicine, New Orleans, LA, United States, <sup>2</sup>Laboratory of Malaria and Vector Research National Institutes of Health (NIH/NIAID), Rockville, MD, United States, <sup>3</sup>Department of Microbiology and Immunology, School of Medicine, Tulane University of New Orleans, New Orleans, LA, United States**Symposium 172****What's New? Exploring Emerging Technologies and Innovative Strategies in Advancing Skin NTD Integration**

Convention Center - Room 357 (3rd Floor)

Sunday, November 17, 8 a.m. - 9:45 a.m.

Many of the 21 diseases on the WHO NTD list primarily result in skin disease – including leprosy, cutaneous leishmaniasis, scabies, yaws, Buruli ulcer, and mycetoma among others. These diseases result in considerable suffering, stigma and financial hardship for patients and affected communities. Worldwide, skin diseases are amongst the five largest contributors to disability adjusted life years lost to ill-health. However, despite this considerable burden of disease and the impact of these conditions, there has been relatively little attention paid to skin NTDs in contrast to those NTD primarily controlled via mass drug administration. In June 2022, the WHO released a pivotal guidance, titled “Ending the neglect to attain the Sustainable Development Goals: A strategic framework for integrated control and management of skin-related neglected tropical diseases”. Moving away from traditional disease-specific approaches, it is anticipated that synergies will be identified and integrated building on this shared feature, where possible, to achieve a greater health impact. The symposium is dedicated to exploring the transformative potential of emerging technologies and innovative strategies in addressing the challenges posed by skin NTDs. As individual diseases, they often face unique obstacles, such as a relatively limited patient population and the necessity for resource-intensive and time-consuming individualized treatments, hindering efficient disease control efforts. This has also led to a lack of interests for technological

advancements, and most yet do not have point-of-care diagnostic tools or have relied on the same medications for years. Following the WHO's strategic framework for skin NTD integration, we are currently at an important juncture. The integration approach not only fosters new possibilities and synergies across multiple skin NTDs, but also serves as a catalyst for the development of novel technologies and strategies. Given the daily advancements in technology, it is imperative to extend their application to the field of skin NTDs. Consequently, we can narrow the gaps in diagnostic capabilities, expand access to quality care, and empower frontline health workers with the tools and resources to effectively combat skin NTDs. This symposium will feature presentations by leading researchers, clinicians, and policymakers in the field, addressing advancements in molecular diagnostics, artificial intelligence (AI), teledermatology, and new models of care delivery. Concluding with a call to action, we urge further commitment to innovation for skin NTD control. At the end of the symposium, the audience will be equipped with knowledge on a state-of-the-art update highlighting the progress made in this emerging field. #Diagnostics #ClinicalResearch #FieldStudies #InfectiousDisease #Prevention

**CHAIR**

Rie Yotsu

Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States

Sundeep C. Vedithi

University of Cambridge, Cambridge, United Kingdom

8 a.m.

**INTRODUCTION**

8:10 a.m.

**ADVANCING POINT OF CARE MOLECULAR DIAGNOSTICS FOR SKIN NEGLECTED TROPICAL DISEASES**

Sundeep C. Vedithi

Department of Medicine, University of Cambridge, Cambridge, United Kingdom

8:30 a.m.

**WHO ARTIFICIAL INTELLIGENCE (AI) PROJECT FOR SKIN NTDS IN KENYA**

José Antonio Ruiz-Postigo

World Health Organization (WHO), Geneva, Switzerland

8:50 a.m.

**BRIDGING GAPS: TELEDERMATOLOGY'S ROLE IN SKIN NTD DIAGNOSIS AND CAPACITY BUILDING IN CÔTE D'IVOIRE**

Aubin Koffi Yao

Hope Commission International, Abidjan, Côte D'Ivoire

9:10 a.m.

**NEW MODELS OF CARE DELIVERY FOR SKIN NTDS IN GHANA AND ETHIOPIA**

Michael Marks

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

9:30 a.m.

**CALL FOR ACTION FOR ADAPTING EMERGING TECHNOLOGIES FOR SKIN NTD INTEGRATION**

Rie Yotsu

Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States

## Scientific Session 173

### Viruses – Therapeutic, Antiviral Drugs, and Vaccine Clinical Trials

Convention Center - Room 383/384/385 (3rd Floor)

Sunday, November 17, 8 a.m. - 9:45 a.m.

This session does not carry CME credit.

#Therapeutics #Vaccinology

#### CHAIR

Chasity Elizabeth Trammell  
Colorado State University, Fort Collins, CO, United States

Anna P. Durbin  
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

8 a.m.

8399

#### USING ANCESTRAL SEQUENCE RECONSTRUCTION FOR GENERATION OF BROAD-SPECTRUM VACCINE PLATFORMS AGAINST TICK-BORNE FLAVIVIRUSES

Chasity E. Trammell, Brian J. Geiss, Gregory D. Ebel  
Colorado State University, Fort Collins, CO, United States

8:15 a.m.

8400

#### PRECLINICAL DEVELOPMENT OF AN ORALLY AVAILABLE NS4B INHIBITOR FOR YELLOW FEVER

Fuxuan Wang<sup>1</sup>, Sumangala Darsandhari<sup>1</sup>, Biplav Shrestha<sup>1</sup>, Abbie Wight<sup>2</sup>, Justin Julander<sup>3</sup>, Brett Eaton<sup>4</sup>, Michael Murphy<sup>4</sup>, Yu Cong<sup>4</sup>, Manu Anantpadma<sup>4</sup>, Elena Postnikova<sup>4</sup>, Michael Holbrook<sup>4</sup>, Zhengyuan Jiang<sup>1</sup>, Yusheng Wu<sup>1</sup>, David Renner<sup>1</sup>, Jason Clementon<sup>1</sup>, Weihong Zhang<sup>1</sup>, Yanming Du<sup>1</sup>, Ju-Tao Guo<sup>1</sup>, **Jinhong Chang<sup>1</sup>**  
<sup>1</sup>Baruch S. Blumberg Institute, Doylestown, PA, United States, <sup>2</sup>Utah State University, Logan, UT, United States, <sup>3</sup>Utah State University, Logan, UT, United States, <sup>4</sup>NIAID, Fort Detrick, MD, United States

8:30 a.m.

8401

#### B CELL RESPONSES TO A ZIKA PURIFIED INACTIVATED VACCINE ARE SHAPED BY PREVIOUS IMMUNIZATION WITH JAPANESE ENCEPHALITIS AND YELLOW FEVER VACCINES

Samantha Townsley<sup>1</sup>, Vincent Dussupt<sup>1</sup>, Lauren Smith<sup>1</sup>, Rafael De La Barrera<sup>1</sup>, Mélanie Merbah<sup>1</sup>, Bonnie Slike<sup>1</sup>, Yifan Li<sup>1</sup>, Annika Schmid<sup>1</sup>, Hélène Fradin Kirshner<sup>2</sup>, Lauren Yum<sup>1</sup>, Robert Clifford<sup>1</sup>, Letzibeth Mendez-Rivera<sup>1</sup>, Sam Lieberman<sup>1</sup>, Gautam Kundu<sup>1</sup>, Aviva Geretz<sup>1</sup>, Rasmi Thomas<sup>1</sup>, Kevin Wiehe<sup>2</sup>, Morgane Rolland<sup>1</sup>, Gregory Gromowski<sup>1</sup>, Nelson Michael<sup>1</sup>, Natalie Collins<sup>1</sup>, **Shelly Krebs<sup>1</sup>**  
<sup>1</sup>Walter Reed Army Institute of Research, Silver Spring, MD, United States, <sup>2</sup>Human Vaccine Institute, Duke University, Durham, NC, United States

8:45 a.m.

8402

#### DEVELOPMENT OF A CONTROLLED ZIKA HUMAN INFECTION MODEL (CHIM)

Anna P. Durbin<sup>1</sup>, Ruby Pritchett<sup>1</sup>, Rachel Hampton<sup>1</sup>, Beulah Sabundayo<sup>1</sup>, Megan McKnight<sup>1</sup>, Lina Moscarella<sup>1</sup>, Xi Fang<sup>1</sup>, Jeff Mayfield<sup>1</sup>, Helen He<sup>1</sup>, Cendy Alacantara<sup>1</sup>, Will Stone<sup>2</sup>, Elaine Lamirande<sup>2</sup>, Stephen S. Whitehead<sup>2</sup>  
<sup>1</sup>Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, <sup>2</sup>National Institutes of Allergy & Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

9 a.m.

8403

#### IMOJEV LIVE, ATTENUATED CHIMERIC VACCINE AGAINST JAPANESE ENCEPHALITIS: AN UPDATE AFTER 25 YEARS IN USE

Thomas P. Monath<sup>1</sup>, Gray Heppner<sup>1</sup>, Tracy Kemp<sup>1</sup>, Bertrand Lepine<sup>2</sup>, Marc Vouillamoz<sup>2</sup>, Fabrice Baschiera<sup>2</sup>  
<sup>1</sup>Quigley BioPharma LLC, Leominster, MA, United States, <sup>2</sup>Substipharm Biologics SA, Geneva, Switzerland

9:15 a.m.

8404

#### SIMULTANEOUS INHIBITION OF DENGUE VIRUS INFECTION AND NS1-MEDIATED ENDOTHELIAL HYPERPERMEABILITY WITH A NATURAL STEROIDAL SAPOGENIN

E. Vanessa Jimenez Posada, Pedro H. Carneiro, Robert Beatty, Scott B. Biering, Eva Harris  
Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States

9:30 a.m.

8405

#### ANTIBODY RESPONSE PROFILE ELICITED BY A LIVE-ATTENUATED TETRAVALENT DENGUE VACCINE IN CHILDREN AND ADOLESCENTS FROM ENDEMIC AREAS

Eduardo J.M. Nascimento<sup>1</sup>, Isadora Lape<sup>1</sup>, Brooke Norwood<sup>1</sup>, Jesuina Fernandes<sup>1</sup>, Huahua Wan<sup>1</sup>, Apurva Kulkarni<sup>1</sup>, Vianney Tricou<sup>2</sup>, Eloi Kpamegan<sup>1</sup>, Mayuri Sharma<sup>1</sup>  
<sup>1</sup>Takeda Vaccines Inc., Cambridge, MA, United States, <sup>2</sup>Takeda Pharmaceuticals International AG, Zürich, Switzerland

## Symposium 174

### From Ideation to Implementation: How Malaria and Dengue Early Warning Systems Can Strengthen Health System Adaptation and Response to Climate Change

Convention Center - Room 388/389 (3rd Floor)

Sunday, November 17, 8 a.m. - 9:45 a.m.

According to new World Bank data, climate change can lead to “at least 21 million additional deaths by 2050 from just five health risks: extreme heat, stunting, diarrhea, malaria, and dengue.” Climate-informed early warning systems (EWS) have the potential to serve as powerful adaptation tools to the growing threats of climate change to health by increasing the effectiveness of disease control and strengthening the climate resilience of health systems. The combined intelligence of climate, health, mobility, and geospatial data with AI-enabled predictive capacity can be used beyond traditional EWS. In addition to enabling precise and cost-effective health service delivery, these systems can generate evidence to support financing opportunities and facilitate long-term planning. Improved climate-health data platforms and national ownership can enable policymakers to assess health impacts and make informed decisions to build climate resilience. Despite the promising impacts of EWS, challenges and gaps remain. Researchers, scientists, and implementers face key challenges with gaps in local and global climate-health data and fragmented funding. From a survey of 32 EWS experts in the Institute for Health Modeling and Climate Solutions’ (IMACS) community of practice, 40% stated obstacles with operationalization, including delayed data sharing, weak technical

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capacity, and scarce funding. To scale and sustain EWS, the operational challenges must be addressed in partnership with those at the frontlines of climate change, particularly the end users of an EWS. The most functional EWS is one with local data and system ownership that considers cost-effectiveness based on country capacity, and is informed by an overall strategic framework. Implementation of all the components of an EWS ecosystem can also provide lessons about data sharing and access, as well as preparation and response activities that are applicable to other diseases and overall public health emergency preparedness. This session brings together diverse stakeholders to review existing tools for malaria and dengue surveillance and health system readiness to adopt data tools for forecasting and response to climate-driven health threats. Attendees will learn and discuss how EWS development for malaria and dengue can better integrate local ownership, data sharing, and stakeholder engagement for the co-design and adoption of an EWS tool for adaptation. #ClimateChange #InfectiousDisease #Modeling

**CHAIR**

Grace Kim  
*Malaria No More, Washington, DC, United States*

James Colborn  
*Clinton Health Access Initiative, Maputo, Mozambique*

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

**8:10 a.m.**  
**PERSPECTIVES FROM THE ASIA-PACIFIC REGION: STRENGTHENING TECHNICAL CAPACITY TO USE AND MANAGE SURVEILLANCE AND GEOSPATIAL DATA FOR NATIONAL MALARIA AND DENGUE PROGRAMS**

Richard J. Maude  
*Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand*

**8:20 a.m.**  
**BRIDGING SCIENTIFIC AND TRADITIONAL KNOWLEDGE: INCLUSION OF COMMUNITY PERSPECTIVES IN UNDERSTANDING CLIMATE-HEALTH LINKAGES**

Samson Nzou  
*Kenya Medical Research Institute (KEMRI), Nairobi, Kenya*

**8:30 a.m.**  
**PERSPECTIVES FROM THE UGANDA MINISTRY OF HEALTH: UTILITY OF EWS AND HOW TO ADDRESS BARRIERS**

Jimmy Opigo  
*Ministry of Health, Uganda, Kampala, Uganda*

**8:40 a.m.**  
**ASSESSING THE UTILITY OF EARLY WARNING SYSTEMS THROUGH END-USER ENGAGEMENT**

Kate Zinszer  
*University of Montreal, Montreal, Canada*

**8:50 a.m.**  
**EXPANDING VECTOR-BORNE EARLY WARNING SYSTEM CAPACITY IN LATIN AMERICA**

William Pan  
*Duke University, Durham, NC, United States*

**9 a.m.**  
**ENHANCING EARLY WARNING SYSTEMS FOR CLIMATE-SENSITIVE DISEASES: LEVERAGING MULTISECTORAL COLLABORATION, MULTIDIMENSIONAL DATA, AND DIGITAL INNOVATIONS**

Kaushik Sarkar  
*Malaria No More, Washington, DC, United States*

**Symposium 175**

**Socio-Cultural Practices, Low Risk Perception and Policy Implementation Gaps Heighten Zoonotic Disease Risk in Indigenous Communities: Observations from Northeast India**

*Convention Center - Room 391/392 (3rd Floor)*  
**Sunday, November 17, 8 a.m. - 9:45 a.m.**

Zoonotic diseases represent an increasing and significant threat to global health, with about one billion cases of illness and millions of deaths occurring annually. An estimated 60% of emerging infectious diseases are caused by zoonotic pathogens. Zoonotic diseases disproportionately affect vulnerable groups in low- and middle-income countries. India has emerged as a hotspot for zoonotic diseases. Northeast India is home to about 40 million people from 200 indigenous tribal communities residing in rural, remote and difficult terrain. These communities have unique cultural practices and a predominantly non-vegetarian diet, including consumption of bushmeat. Over half of the region is covered in forests, with designated 'biodiversity hotspots' linked to higher zoonotic disease risks. Mixed farming, a key economic activity, often involves rearing livestock in close proximity to human dwellings. Compounded by limited veterinary services and irregular animal health assessments, these practices pose inherent risks to animal health and the potential for transmission of zoonotic pathogens to humans. During this symposium, we will present and discuss case-studies that illustrate the heightened risks of zoonoses due to low-risk perception among community members, livestock handlers and traditional healers who treat sick animals. Insights from these case-studies were developed from our ongoing research on Zoonotic Vector Borne Diseases (ZVBD) in Meghalaya, a state in northeast India. We will focus on how socio-cultural beliefs and practices affect intentional and accidental contacts with domestic and wild animals, thereby impacting zoonotic disease risk. Our study has revealed that a significant portion of the population are being exposed to zoonotic pathogens, underscoring the urgent need for collective engagement with these vulnerable, indigenous communities to mitigate their disease risk. The relevance of our findings to other remote, less modern and culturally divergent populations will be explored. Symposium content tags: #EcologicalStudies; #EmergingDiseaseThreats; #FieldStudies; #Prevention; #SocialScience

**CHAIR**

Rajiv Sarkar  
*Indian Institute of Public Health Shillong, Shillong, India*

Melari S. Nongrum  
*Indian Institute of Public Health Shillong, Shillong, India*

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

**8:10 a.m.**  
**LOW-RISK PERCEPTION OF ZOOSES AND HEALTH SEEKING BEHAVIOR FOR ANIMALS IN MEGHALAYA, INDIA**

Melari S. Nongrum  
*Indian Institute of Public Health Shillong, Shillong, India*

**8:30 a.m.**  
**ANIMAL REARING AND HANDLING PRACTICES AMONG RURAL HOUSEHOLDS IN MEGHALAYA, INDIA**

Uniqueky G. Mawrie  
*London School of Hygiene & Tropical Medicine, London, United Kingdom*

**8:45 a.m.**  
**MEAT HANDLING PRACTICES AND FOOD-SAFETY KNOWLEDGE AMONG BUTCHERS AND ABATTOIR WORKERS IN MEGHALAYA, INDIA**

Rajiv Sarkar  
*Indian Institute of Public Health Shillong, Shillong, India*

**9 a.m.**  
**THE IMPACT OF SOCIO-BEHAVIORAL PRACTICES ON INCREASED RISK OF ZOO NOTIC DISEASES IN NORTHEAST INDIA**

Benedicta S. Kumar  
*Indian Institute of Public Health Shillong, Shillong, India*

**9:15 a.m.**  
**PANEL DISCUSSION**

Mark Wilson  
*University of Michigan, School of Public Health, Ann Arbor, MI, United States*



**Symposium 176**

**Bartonellosis: A (Re)emerging Ectoparasite-borne Disease of People and Animals**

*Convention Center - Room 393/394 (3rd Floor)*  
**Sunday, November 17, 8 a.m. - 9:45 a.m.**

**This session does not carry CME credit.**

This session focuses on Bartonellosis, ectoparasite-borne systemic infections caused by various Bartonella species. Bartonellosis has worldwide distribution and diverse disease manifestations. Globally, epidemiologic risks for Bartonellosis depend on the local ecology of vectors and reservoir species associated with each Bartonella species. The session aims to explore the disease's re-emergence due to enhanced human-animal-vector interactions, evolving vector populations, and advancements in diagnostic methods. The symposium will delve into the epidemiology of Bartonella infections, particularly in low- and middle-income countries, and explore the risk factors for human infection and challenges to effective treatment. It will also examine the transmission dynamics of Bartonella species, including the potential role of ticks as vectors and roles for wildlife reservoirs. This session seeks to foster a comprehensive understanding of Bartonellosis, promoting global health and inter-professional collaboration. #EcologicalStudies

#EmergingDiseaseThreats #Epidemiology #InfectiousDisease  
#TranslationalScience

**CHAIR**

Erin Lashnits  
*University of Wisconsin, Madison, WI, United States*

Monica Embers  
*Tulane National Primate Research Center, Tulane University Health Sciences, Covington, LA, United States*

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

**8:10 a.m.**  
**THE NEGLECTED BURDEN OF BARTONELLA QUINTANA INFECTION IN LOW- AND MIDDLE-INCOME COUNTRIES**

Carl Boodman  
*University of Antwerp/ Institute of Tropical Medicine (Belgium); University of Manitoba, Winnipeg, Canada*

**8:25 a.m.**  
**VETERINARY PROFESSIONALS AND RISK FOR BARTONELLA EXPOSURE**

Edward B. Breitschwerdt  
*North Carolina State University College of Veterinary Medicine, Raleigh, NC, United States*

**8:40 a.m.**  
**B. BACILLIFORMIS IN PERU**

Victor Alberto Jimenez- Vasquez  
*Instituto Nacional De Salud*

**8:55 a.m.**  
**BARTONELLA IN WILD ANIMALS FROM BRAZIL: SCRATCHING THE TIP OF THE ICEBERG**

Marcos Rogério André  
*Universidade Estadual Paulista Júlio de Mesquita Filho, UNESP, Jaboticabal, Brazil*

**9:10 a.m.**  
**BARTONELLA ANIMAL MODELS: ANTIBIOTIC EFFICACY, CO-INFECTION, AND TICKS**

Monica Embers  
*Tulane National Primate Research Center Tulane University Health Sciences, Covington, LA, United States*

**Scientific Session 177**

**Schistosomiasis II: Epidemiology and Control**

*Convention Center - Room 395/396 (3rd Floor)*  
**Sunday, November 17, 8 a.m. - 9:45 a.m.**

#ChildHealth #Diagnostics #EcologicalStudies

**CHAIR**

Charles B. Delahunty  
*Global Health Labs, Bellevue, WA, United States*

Karen Mozo Velazco  
*Instituto de Medicina Tropical Alexander von Humboldt – Universidad Peruana Cayetano Heredia, Cusco, Peru*

8 a.m.

8406

### COMBINING WEARABLE GPS LOGGERS WITH ENVIRONMENTAL AND SNAIL DATA TO UNCOVER FINE-SCALE *SCHISTOSOMA MANSONI* TRANSMISSION DYNAMICS IN UGANDA

Fabian Reitzug<sup>1</sup>, Narcis B. Kabatereine<sup>2</sup>, Betty Nabette<sup>2</sup>, Goylette F. Chamii<sup>1</sup><sup>1</sup>University of Oxford, Oxford, United Kingdom, <sup>2</sup>Vector Control Division, Ministry of Health, Kampala, Uganda

8:15 a.m.

8407

### ACCEPTABILITY AND FEASIBILITY OF A ONE-STOP HOME-BASED GENITAL SELF-SAMPLING FOR FEMALE GENITAL SCHISTOSOMIASIS, HUMAN PAPILLOMA VIRUS AND TRICHOMONAS AND HIV SELF-TESTING: BASELINE DATA FROM A LONGITUDINAL COHORT STUDY IN ZAMBIA

Rhoda Ndubani<sup>1</sup>, Kwame Shanaube<sup>1</sup>, Olimpia Lamberti<sup>2</sup>, Nkatya Kasese<sup>1</sup>, Jennifer Fitzpatrick<sup>1</sup>, Maina Cheeba<sup>1</sup>, Beatrice Nyondo<sup>1</sup>, Bronwyn Neufeld<sup>2</sup>, Barry Kosloff<sup>2</sup>, Bonnie Webster<sup>4</sup>, Helen Kelly<sup>2</sup>, Amaya L. Bustinduy<sup>2</sup><sup>1</sup>Zambart, Lusaka, Zambia, <sup>2</sup>London School of Hygiene & Tropical Medicine, London, United Kingdom, <sup>3</sup>Longhorn Vaccines and Diagnostics LLC, Bethesda, MD, United States, <sup>4</sup>Natural History Museum, London, United Kingdom

8:30 a.m.

8408

### *SCHISTOSOMA MANSONI* AND *HELICOBACTER PYLORI* CO-INFECTIONS AMONG SCHOOL-AGED POPULATIONS: A STUDY IN NIGERIAN COMMUNITIES

Babatunde Adewale<sup>1</sup>, Muinah Fowora<sup>1</sup>, Hamed Mogaji<sup>1</sup>, Omolola Omolopo<sup>1</sup>, Nurudeen Rahman<sup>1</sup>, Ayorinde James<sup>1</sup>, Herbert De'Broski<sup>2</sup><sup>1</sup>Nigerian Institute of Medical Research, Lagos, Nigeria, <sup>2</sup>University of Pennsylvania, Philadelphia, PA, United States

8:45 a.m.

8409

### MAIN RESULTS FROM A PHASE II RANDOMISED PLACEBO-CONTROLLED TRIAL OF PRAZIQUANTEL IN PRESCHOOL CHILDREN WITH INTESTINAL SCHISTOSOMIASIS

Amaya Lopez Bustinduy<sup>1</sup>, Andrew Edielu<sup>2</sup>, Gloria Kakoba<sup>2</sup>, Jacent Nassuuna<sup>2</sup>, Racheal Nakyesige<sup>2</sup>, Victor Anguajibi<sup>2</sup>, Simon Mpooya<sup>2</sup>, Moses Adriko<sup>3</sup>, Govert Van Damm<sup>4</sup>, Paul Corstjens<sup>4</sup>, Sophie Pach<sup>1</sup>, Hannah Wu<sup>5</sup>, Susannah Colt<sup>5</sup>, Patrice Mawa<sup>2</sup>, Edridah Muheki<sup>2</sup>, Narcis Kabatereine<sup>3</sup>, Emily Webb<sup>1</sup>, Jennifer F. Friedman<sup>5</sup><sup>1</sup>London School of Hygiene & Tropical Medicine, London, United Kingdom, <sup>2</sup>MRC-LSHTM Research Unit, Entebbe, Uganda, <sup>3</sup>Vector Control Division, Kampala, Uganda, <sup>4</sup>Leiden University Medical Centre, Leiden, Netherlands, <sup>5</sup>Rhode Island Hospital, Providence, RI, United States

9 a.m.

8410

### THE USE OF WATER EDNA IN SNAIL IDENTIFICATION FOR THE UNDERSTANDING OF *FASCIOLOA* ENVIRONMENTAL BURDEN AND SNAIL DIVERSITY IN THE HIGHLANDS OF PERU

Melinda B. Tanabe<sup>1</sup>, Martha Vanessa Fernandez-Baca<sup>2</sup>, Rodrigo A. Ore Velarde<sup>2</sup>, Alejandro Castellanos-Gonzalez<sup>1</sup>, Miguel M. Cabada<sup>1</sup>, Fasciola Peru TMRC Research Group<sup>3</sup><sup>1</sup>UTMB, Galveston, TX, United States, <sup>2</sup>UPCH – UTMB Collaborative Research Center - Cusco, Universidad Peruana Cayetano, Cusco, Peru

9:15 a.m.

8411

### INFLAMMATION-ADJUSTED VITAMIN A DEFICIENCY IS ASSOCIATED WITH HEAVY *SCHISTOSOMA MANSONI* INFECTION INTENSITY AMONG PRESCHOOL-AGED CHILDREN IN UGANDA

Susannah Colt<sup>1</sup>, Hannah W. Wu<sup>1</sup>, Andrew Edielu<sup>2</sup>, Emily L. Webb<sup>3</sup>, Racheal Nakyesige<sup>4</sup>, Patrice A. Mawa<sup>2</sup>, Christopher P. Duggan<sup>5</sup>, Jonathan D. Kurtis<sup>6</sup>, Amaya L. Bustinduy<sup>3</sup>, Jennifer F. Friedman<sup>1</sup><sup>1</sup>Rhode Island Hospital, Providence, RI, United States, <sup>2</sup>London School of Hygiene & Tropical Medicine Uganda Research Unit, Entebbe, Uganda, <sup>3</sup>London School of Hygiene & Tropical Medicine, London, United Kingdom, <sup>4</sup>Uganda Virus Research Institute, Entebbe, Uganda, <sup>5</sup>Boston Children's Hospital, Boston, MA, United States, <sup>6</sup>Warren Alpert Medical School of Brown University, Providence, RI, United States

9:30 a.m.

8412

### ASSOCIATION OF *S. HAEMATOBIIUM* INFECTION WITH PREGNANCY IN TANZANIA

Sheridan Bowers<sup>1</sup>, Jane K. Maganga<sup>2</sup>, Loyce Mhango<sup>2</sup>, Peter Shigella<sup>2</sup>, Crispin Mukerebe<sup>2</sup>, Humphrey D. Mazigo<sup>3</sup>, Govert J. van Dam<sup>4</sup>, Danielle de Jong<sup>5</sup>, Paul L. Corstjens<sup>5</sup>, Saidi H. Kapiga<sup>2</sup>, W. Evan Secor<sup>6</sup>, Myung Hee Lee<sup>7</sup>, Jennifer A. Downs<sup>7</sup>, John M. Changalucha<sup>2</sup><sup>1</sup>Weill Cornell Medicine, New York, NY, United States, <sup>2</sup>Mwanza Intervention Trials Unit/ National Institute for Medical Research, Mwanza, United Republic of Tanzania, <sup>3</sup>Department of Parasitology, Catholic University of Health and Allied Sciences, Mwanza, United Republic of Tanzania, <sup>4</sup>Department of Parasitology, Leiden University Medical Center, Leiden, Netherlands, <sup>5</sup>Department of Cell and Chemical Biology, Leiden University Medical Center, Leiden, Netherlands, <sup>6</sup>Division of Parasitic Diseases for Malaria, Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States, <sup>7</sup>Center for Global Health, Weill Cornell Medicine, New York, NY, United States

### Coffee Break

Convention Center - Third Floor Lobby Areas  
Sunday, November 17, 9:45 a.m. - 10:15 a.m.

### Plenary Session 178

### Plenary Session V

Convention Center - Hall I-2 (1st Floor)  
Sunday, November 17, 10:15 a.m. - 11:15 a.m.

THIS SESSION DOES NOT CARRY CME CREDIT.



**Paulin Basinga, MD, PhD**  
Director, Africa  
Bill & Melinda Gates Foundation  
Nairobi, Kenya

Dr. Paulin Basinga leads the Gates Foundation's work across the African continent.

Assuming this role in March 2024, Paulin brings extensive experience gained through his country and global level engagements. Before this role, he held the position of foundation's Global Director of Program Advocacy and Communications (PAC) based in Seattle. In this role, Paulin orchestrated strategic advocacy initiatives and forged valuable partnerships with advocacy teams in S/E Asia and Africa.



## Symposium 179

### Malaria without Borders: Understanding the Influence of Cross-Border Migration on Malaria Elimination Strategies

Convention Center - Hall I-2 (1st Floor)

Sunday, November 17, 11:30 a.m. - 1:15 p.m.

Geopolitical instability, climate change, and other factors make human migration a dynamic and increasingly important factor in disease elimination strategies. Since 2018, 4 countries in the Americas - El Salvador, Belize, Argentina, and Paraguay - have eliminated malaria. Honduras, Panama, and Ecuador (among others) were believed to be on the same elimination trajectory. Between 2014 and 2019, all dipped below 600 annual, locally transmitted cases. Unfortunately, in 2022, these same 3 countries reported 11,984 cases combined, the vast majority of which occurred in the border regions of Honduras-Nicaragua, Panama-Colombia, & Ecuador-Peru. Accelerating and achieving elimination at foci, national, or regional scales will require – among other things - understanding the mechanisms in which cross-border migration is sustaining transmission and finding creative solutions for malaria programs to respond. While data on cross-border movements and international migrant populations can be limited and difficult to analyze, when available, they provide valuable insight into malaria transmission dynamics, the success (or lack there-of) of various interventions, and strategies that could be deployed to reach the most affected populations and reduce transmission. The influence of migration patterns on transmission is highly setting-specific, as it depends both on the political and demographic aspects of people’s movement and on the epidemiology of malaria and magnitude of interventions. Leveraging such data with appropriate analytical approaches is key to understanding how case importation and malaria transmission interact specifically in each geography. This symposium will explore four unique approaches to understanding cross-border migration and its impact on malaria elimination. First, we will explore the genetic connectivity of parasites from South to Central America leveraging targeted and whole genome sequencing data from 5+ countries where cross-border migration is jeopardizing elimination. Second, we will dive into a novel *P. vivax* mathematical model that highlights how the success of various intervention strategies and elimination probabilities in Honduras are altered based on reductions in imported cases from Nicaragua. Third, we will present the most recent evidence from research being conducted in communities serving as migration transit points for the over 1 million migrants that have passed through the Darien Gap, Panama the past three years. Lastly, we will showcase how a network analysis along the Ecuador-Peru border is informing bi-national malaria response. Emphasis from each presentation will be given to discussing the implications of the findings for MoH strategies and elimination trajectories across the Americas. #Elimination #Modeling #Genetics #PopulationSurveillance #InfectiousDisease

#### CHAIR

Sarah Park  
Clinton Health Access Initiative, Boston, MA, United States

Before his PAC role, Paulin served as the foundation’s Director of Health for Africa, leading a dedicated team in devising and implementing comprehensive country plans to advance health priorities across the continent. As the foundation’s country director in Nigeria, Paulin revitalized critical partnerships and advanced health, nutrition, agriculture, gender, and financial inclusion priorities, aligning them with the Nigerian government’s Human Capital Development Agenda.

Paulin’s journey with the foundation began in 2012 as a Senior Program Officer on the HIV team. Here, he worked on the HIV Efficiency and Effectiveness Initiative, pioneering strategies to maximize the impact of the foundation’s investments in combating HIV/AIDS. Subsequently, he transitioned to the Integrated Delivery team, overseeing investments in community and child health before assuming the role of Deputy Director of the Country Primary Health Initiative team - covering Ethiopia, Nigeria, Senegal, Burkina Faso and other countries.

In 2015, Paulin was seconded to Rwanda to assume a pivotal role as Senior Advisor to the Rwanda Biomedical Centre within the Rwandan Ministry of Health. During this tenure, he provided crucial decision support for health sector reforms in Rwanda.

Before joining the foundation, Paulin served as Deputy Director of Research at the National University of Rwanda’s School of Public Health. Here, he led groundbreaking research initiatives addressing HIV/AIDS, tuberculosis, and maternal and child health, contributing significantly to efforts to strengthen Rwanda’s healthcare systems.

Paulin holds a medical degree from the National University of Rwanda, complemented by a Master’s degree and Ph.D. in International Development from Tulane University.

#### CHAIR

Linnie Golightly  
Weill Cornell Medical College, New York, NY, United States

#### 10:15 a.m. INTRODUCTION

Linnie Golightly  
Weill Cornell Medical College, New York, NY, United States

#### 10:30 a.m. PLENARY ADDRESS: FROM LOCAL INNOVATION TO GLOBAL COLLABORATION: BREAKING DOWN SILOS TO TACKLE INFECTIOUS DISEASES IN AFRICA

Paulin Basinga  
Bill & Melinda Gates Foundation, Nairobi, Kenya

#### Break

Sunday, November 17, 11:15 a.m. - 11:30 a.m.

Sunday  
November 17

**11:30 a.m.**  
**INTRODUCTION****11:35 a.m.**  
**THE ROLE OF CROSS-BORDER CASE IMPORTATION ON P. VIVAX MALARIA ELIMINATION IN HONDURAS: COMPARING INTERVENTION STRATEGIES WITH MATHEMATICAL MODELLING**Emilie Pothin  
*Swiss Tropical and Public Health Institute, Allschwil, Switzerland***11:55 a.m.**  
**RISK FACTORS OF MALARIA INFECTION IN COMMUNITIES ALONG MIGRATION ROUTES IN PANAMA**Mark Janko  
*Duke University, Durham, NC, United States***12:15 p.m.**  
**LEVERAGING SOCIAL NETWORK ANALYSIS TO IMPROVING MALARIA RESPONSE ALONG THE ECUADOR-PERU BORDER**Carolina Coombs  
*Universidad Peruana Cayetano Heredia (UPCH), Lima, Peru***12:35 p.m.**  
**TRENDS IN GENETIC CONNECTIVITY BETWEEN CENTRAL AND SOUTH AMERICAN PLASMODIUM POPULATIONS**Paulo Manrique  
*Harvard T.H. Chan School of Public Health, Boston, MA, United States***Scientific Session 180****Clinical Tropical Medicine: Disease and Vaccine Safety Surveillance***Convention Center - Room 343/344 (3rd Floor)*  
**Sunday, November 17, 11:30 a.m. - 1:15 p.m.**#InfectiousDisease #Epidemiology #Diagnostics  
#PopulationSurveillance**CHAIR**Eileen Farnon  
*Brighton Collaboration, Decatur, GA, United States*Polly Yap  
*Monash University Malaysia, Subang Jaya, Malaysia***11:30 a.m.**  
**8413****PREPARING FOR VACCINE ADVERSE EVENTS OF SPECIAL INTEREST-X (AESI-X): A STANDARDIZED APPROACH APPLIED TO NOVEL VACCINES**Eileen C. Farnon<sup>1</sup>, Barbara J. Law<sup>1</sup>, Dale Nordenberg<sup>1</sup>, Andy Stergachis<sup>1</sup>, Rebecca E. Chandler<sup>2</sup>, Robert T. Chen<sup>1</sup>, Brighton Collaboration SPEAC AESI-X Working Group<sup>1</sup>  
<sup>1</sup>Safety Platform for Emergency vACCines (SPEAC) Project, Brighton Collaboration, Decatur, GA, United States, <sup>2</sup>Coalition for Epidemic Preparedness Innovations, Oslo, Norway**11:45 a.m.**  
**8414****ENHANCING ACCESS TO HIGHLY MULTIPLEXED DIAGNOSTICS IN LMICS: LEVERAGING OXFORD NANOPORE SEQUENCING FOR DETECTION OF RESPIRATORY VIRUSES AND EMERGING PATHOGENS**Polly S. X. Yap<sup>1</sup>, Ryan C. Chapman<sup>2</sup>, Nathaniel Christy<sup>3</sup>, Sharifah Syed Hassan<sup>1</sup>, Chin Fang Ngim<sup>1</sup>, Lian Yih Pong<sup>1</sup>, Jessica D. Wiley<sup>4</sup>, Robert D. Hontz<sup>3</sup>, Anca Selariu<sup>3</sup>, Amreeta Dhanoa<sup>1</sup>, Wan Fadhilah Wan Ismail<sup>5</sup>, Andrew G. Letizia<sup>3</sup>, Michael R. Wiley<sup>2</sup>  
<sup>1</sup>Monash University Malaysia, Subang Jaya, Malaysia, <sup>2</sup>University of Nebraska Medical Center, Omaha, NE, United States, <sup>3</sup>United States Naval Medical Research Unit- INDO PACIFIC, Singapore, Singapore, <sup>4</sup>PraesensBio LLC, Omaha, NE, United States, <sup>5</sup>Mahmoodiah Health Clinic, Johor Bahru, Malaysia**Noon**  
**8415****INTEGRATED SEROLOGICAL SURVEILLANCE FOR INFECTIOUS DISEASES IN ZAMBEZIA PROVINCE, MOZAMBIQUE USING MULTIPLEX BEAD ASSAYS**Andrea C. Carcelen<sup>1</sup>, Celso Monjane<sup>2</sup>, Sophie Bérubé<sup>1</sup>, Saki Takahashi<sup>1</sup>, Thebora Sultane<sup>2</sup>, Imelda Chelene<sup>2</sup>, Gretchen Cooley<sup>3</sup>, Brook Goodhew<sup>3</sup>, Catriona Patterson<sup>4</sup>, Kevin Tetteh<sup>4</sup>, Manuel Mutambe<sup>2</sup>, Melissa Higdon<sup>1</sup>, George Mwinnyaa<sup>1</sup>, Gilberto Nhapure<sup>5</sup>, Pedro Duce<sup>5</sup>, Diana L. Martin<sup>3</sup>, Christopher Drakeley<sup>4</sup>, William J. Moss<sup>1</sup>, Ivalda Macicame<sup>2</sup>  
<sup>1</sup>Johns Hopkins University, Baltimore, MD, United States, <sup>2</sup>Instituto Nacional de Saude, Maputo, Mozambique, <sup>3</sup>Centers for Disease Control and Prevention, Atlanta, GA, United States, <sup>4</sup>London School of Hygiene and Tropical Medicine, London, United Kingdom, <sup>5</sup>Instituto Nacional de Estadística, Maputo, Mozambique**12:15 p.m.**  
**8416****A SEPSIS SYNOPSIS: HETEROGENEITY OF SEPSIS PRESENTATIONS ACROSS THE ACESO NETWORK**Alyse Wheelock<sup>1</sup>, Melissa Bradshaw<sup>1</sup>, George Oduro<sup>2</sup>, Hannah Kibuuka<sup>3</sup>, Stephen Okello<sup>3</sup>, Andrew Kambugu<sup>4</sup>, Te Vantha<sup>5</sup>, Nehkonti Adams<sup>6</sup>, Subramaniam Krishnan<sup>1</sup>, Patrick Blair<sup>1</sup>, Joshua Chenoweth<sup>1</sup>, Deborah Striegel<sup>1</sup>, Qianru Wu<sup>1</sup>, Carlyle Gollogly<sup>7</sup>, Kristen Petrone<sup>1</sup>, Danielle Clark<sup>1</sup>  
<sup>1</sup>ACESO, the Henry Jackson Foundation, Bethesda, MD, United States, <sup>2</sup>Komfo Anokye Teaching Hospital, Kumasi, Ghana, <sup>3</sup>Makerere University Walter Reed Project, Kampala, Uganda, <sup>4</sup>Infectious Diseases Institute, Kampala, Uganda, <sup>5</sup>Takeo Provincial Hospital, Takeo, Cambodia, <sup>6</sup>Naval Medical Research Command, Falls Church, VA, United States, <sup>7</sup>ACESO, Henry Jackson Foundation, Bethesda, MD, United States**12:30 p.m.**  
**8417****SEPSIS-RELATED DEATHS AMONG CHILDREN BELOW 5 YEARS OF AGE ENROLLED IN THE CHILD HEALTH AND MORTALITY PREVENTION SURVEILLANCE (CHAMPS) NETWORK PROGRAM IN SUB-SAHARAN AFRICA AND SOUTH ASIA BETWEEN 2017 - 2022**Harun Owuor<sup>1</sup>, Kyu Hun Lee<sup>2</sup>, Emily S. Gurley<sup>3</sup>, Shams El Arifeen<sup>4</sup>, Portia C. Mutevedzi<sup>2</sup>, Cynthia G. Whitney<sup>2</sup>, Jeannette Wadula<sup>5</sup>, Mohammad Zahid Hossain<sup>4</sup>, Inacio Mandomando<sup>6</sup>, Nega Assefa<sup>7</sup>, Soter Ameh<sup>8</sup>, Ikechukwu Ogbuanu<sup>8</sup>, Dickens Dickens Onyango<sup>9</sup>, Joyce Akinyi Were<sup>1</sup>, Kotloff Karen<sup>10</sup>, Shabir madhi<sup>5</sup>, Rosaura Varo<sup>6</sup>, Ziyaad Dangor<sup>5</sup>, Victor Akelo<sup>11</sup>  
<sup>1</sup>KEMRI CGHR, Kisumu, Kenya, <sup>2</sup>Emory University, Atlanta, GA, United States, <sup>3</sup>John Hopkins University, Baltimore, MD, United States, <sup>4</sup>International Centre for Diarrheal Disease Research, Bangladesh (icddr), Dhaka, Bangladesh, <sup>5</sup>University of the Witwatersrand, Johannesburg, South Africa, <sup>6</sup>Centro de Investigacao en Saude de Manhica (CISM), Maputo, Mozambique, <sup>7</sup>College of Health and Medical Sciences, Haramaya University, Harar, Ethiopia, <sup>8</sup>Crown Agents, Freetown, Sierra Leone, <sup>9</sup>Kenya Ministry of Health, Kisumu, Kenya, <sup>10</sup>University of Maryland School of Medicine, Baltimore, MD, United States, <sup>11</sup>Liverpool School of Tropical Medicine, London, United Kingdom

12:45 p.m.

8418

### RICKETTSIOSIS AND SCRUB TYPHUS AMONG HOSPITALIZED PATIENTS WITH ACUTE FEBRILE ILLNESS IN RURAL NORTHEASTERN AND NORTH BORDER PROVINCES OF THAILAND, 2017-2020

Adelaide F. Green<sup>1</sup>, Saithip Bhengsr<sup>2</sup>, Betsy Cadwell<sup>1</sup>, Emily Bloss<sup>2</sup>, Nuttagarn Chuenchom<sup>3</sup>, Supphachoke Khemla<sup>4</sup>, Sumonmal Uttayamakul<sup>5</sup>, Pongpun Sawatwong<sup>2</sup>, Ornuma Sangwichian<sup>2</sup>, Duangkamon Siludjai<sup>2</sup>, Phanthaneeya Teepruksa<sup>2</sup>, Beth Skaggs<sup>2</sup>, Cecilia Y. Kato<sup>1</sup>, Christopher J. Gregory<sup>2</sup>, John R. Macarthur<sup>2</sup>, James D. Heffelfinger<sup>2</sup>, Carol Y. Rao<sup>1</sup>

<sup>1</sup>Centers for Disease Control and Prevention, Atlanta, GA, United States, <sup>2</sup>Centers for Disease Control and Prevention - Thailand, Nonthaburi, Thailand, <sup>3</sup>Mae Sot Hospital, Nakhon Phanom, Thailand, <sup>4</sup>Nakhon Phanom hospital, Nakhon Phanom, Thailand, <sup>5</sup>Bamrasnaradura Infectious Diseases Institute, Department of Disease Control, Ministry of Public Health and National Institute of Health, Department of Medical Sciences, Ministry of Public Health, Nonthaburi, Thailand

1 p.m.

8419

### MICROSTRATIFICATION OF VISCERAL LEISHMANIASIS ENDEMIC AREAS TO IDENTIFY HOTSPOTS AND DISEASE SHIFTING PATTERNS IN NEPAL

Krishna Pant<sup>1</sup>, Megha R. Banjara<sup>1</sup>, Dharmanand Joshi<sup>1</sup>, Govinda R. Paneru<sup>1</sup>, Abraham Aseffa<sup>2</sup>, Rudra Marasini<sup>3</sup>, Gokarna Dahal<sup>3</sup>, Anand B. Joshi<sup>1</sup>

<sup>1</sup>Public Health and Infectious Disease Research Center, Kathmandu, Nepal, <sup>2</sup>Special Program for Research and Training in Tropical Diseases, Geneva, Switzerland, <sup>3</sup>Epidemiology and Disease Control Division, Ministry of Health, Kathmandu, Nepal

## Symposium 181

### The Role of Molecular Xenomonitoring in Transmission Risk Assessment and Post-Validation Surveillance After Mass Drug Administration for Lymphatic Filariasis

Convention Center - Room 345 (3rd Floor)

Sunday, November 17, 11:30 a.m. - 1:15 p.m.

To eliminate lymphatic filariasis (LF) as a public health problem, the mass drug administration (MDA) strategy aims to reduce infection levels within the population to a point where transmission is no longer sustainable. However, confirming that treatment areas meet the established thresholds to suggest LF elimination in countries with less-developed health infrastructure can take time and effort. Community members may be unwilling or unable to participate in post-treatment surveillance for personal or logistical reasons. Molecular xenomonitoring (MX) may help overcome some of these limitations. This symposium will explore whether MX can monitor transmission interruption following MDA. Key areas of focus include 1) the correlation between data derived by MX and human monitoring studies after MDA for LF; 2) the required threshold of mosquito infection prevalence and the necessary number of mosquitoes to be sampled to determine cessation of transmission reliably; 3) the dependability of using surrogate mosquito species (e.g., *Culex*) in areas with *Anopheles* as the major LF vectors; and 4) the role and cost-effectiveness of MX in post-validation surveillance. These and other questions will be examined in three lectures, followed by a panel discussion and Q&A session. The symposium's organizers, speakers, and panelists

have experience in LF elimination in India, Africa, and Papua New Guinea. #Elimination, #FieldStudies, #PopulationSurveillance, #Infectious Diseases.

#### CHAIR

Christopher L. King  
Case Western Reserve University, Cleveland, OH, United States

Stephan Karl  
James Cook University, Cairns, Australia

11:30 a.m.

#### INTRODUCTION

11:40 a.m.

#### WHAT IS THE SENSITIVITY OF MX, AND IS IT BETTER THAN HUMAN SURVEYS AT DETECTING POST-MDA RESERVOIRS OF INFECTION IN LF?

Lisa Reimer  
Centers for Disease Control, Atlanta, GA, United States

#### Noon

#### WHAT IS THE STATUS OF MX IN LF ENDEMIC AREAS WHERE CULEX IS THE PRINCIPAL VECTOR?

K. Krishnamoorthy  
Vector Control Research Centre (retired). Formerly Senior Scientist, Pondicherry, India

12:20 p.m.

#### POST-VALIDATION LF MONITORING WITH MX WORKFLOWS FOR INTEGRATION WITH OTHER MOSQUITO-BORNE PATHOGENS AND THE DESIGN OF "TRAPPING NETWORKS" TO MAXIMIZE DETECTION OF LF SIGNALS

Brian Johnson  
Queensland Institute for Medical Research (QIMR) Burghofer, Brisbane, Australia

12:40 p.m.

#### POST-VALIDATION LF MONITORING WITH MX WORKFLOWS FOR INTEGRATION WITH OTHER MOSQUITO-BORNE PATHOGENS AND THE DESIGN OF "TRAPPING NETWORKS" TO MAXIMIZE DETECTION OF LF SIGNALS

Gregor Devine  
QIMR Burghofer, Brisbane, Australia

## Scientific Session 182

### Kinetoplastida and Other Opportunistic and Anaerobic Protozoa: Immunology, Invasion, Cellular and Molecular Biology

Convention Center - Room 352 (3rd Floor)

Sunday, November 17, 11:30 a.m. - 1:15 p.m.

#InfectiousDisease #Immunology #HostResponse  
#CellBiology

#### CHAIR

Hira Nakhasi  
FDA, Silver Spring, MD, United States

Abhay Satoskar  
Ohio State University, Columbus, OH, United States

11:30 a.m.

8420

### BANGLADESHI CHILDREN HAVE IMMUNITY TO CRYPTOSPORIDIA-ASSOCIATED DIARRHEA BUT NOT TO INFECTION

Carol A. Gilchrist<sup>1</sup>, William A. O. Petri<sup>1</sup>, Biplob Hossain<sup>2</sup>, Md. Mamun Kabir<sup>2</sup>, Hannah H. So<sup>1</sup>, G. Brett Moreau<sup>1</sup>, Uma Nayak<sup>1</sup>, Jennie Z. Ma<sup>1</sup>, Zannatun Noor<sup>2</sup>, Abu S. G Faruque<sup>2</sup>, Md. Masud Alam<sup>2</sup>, Rashidul Haque<sup>2</sup>, William A. Petri<sup>1</sup>

<sup>1</sup>University of Virginia, Charlottesville, VA, United States, <sup>2</sup>icddr, Dhaka, Bangladesh

(ACMCIP Abstract)

11:45 a.m.

8421

### MECHANISM OF INTESTINAL BARRIER REPAIR IN GIARDIASIS

Rita Teye Kosile, Vanessa Angelova, Evan Pannkuk, Steven Singer  
Georgetown University, Washington, DC, United States

(ACMCIP Abstract)

Noon

8422

### UNWINDING THE IRONY OF SEVERE ANEMIA IN ANTIMONY-RESISTANT *LEISHMANIA DONOVANI* INFECTION AT THE NEXUS OF OXIDATIVE OUTBURST AND IRON PURSUIT

Souradeepa Ghosh, Krishna Vamshi Chigicherla, Budhaditya Mukherjee  
Indian Institute of Technology, Kharagpur, Kharagpur, India

(ACMCIP Abstract)

12:15 p.m.

8423

### UNIQUE IMMUNE AND TISSUE REPAIR MARKERS IN CONGENITAL CHAGAS

Sneider Alexander Gutierrez Guarnizo<sup>1</sup>, Carolina Duque<sup>1</sup>, Jill Hakim<sup>1</sup>, Martín Obregón<sup>2</sup>, Jessi Condori<sup>2</sup>, Paloma Samame<sup>3</sup>, Emily Arteaga<sup>3</sup>, Clariza Roxana<sup>3</sup>, Jean Karla Velarde<sup>3</sup>, Edith Malaga<sup>2</sup>, Andrea Diestra<sup>2</sup>, Alejandra Pando<sup>2</sup>, Manuela Verastegui<sup>2</sup>, Monica Pajuelo<sup>2</sup>, Maritza Calderon<sup>2</sup>, Freddy Tinajeros<sup>3</sup>, Natalie Bowman<sup>4</sup>, Robert Gilman<sup>1</sup>, Monica Mugnier<sup>1</sup>

<sup>1</sup>Johns Hopkins University, Baltimore, MD, United States, <sup>2</sup>Universidad Peruana Cayetano Heredia, Lima, Peru, <sup>3</sup>Hospital de La Mujer Dr. Percy Boland Rodriguez, Santa Cruz, Plurinational State of Bolivia, <sup>4</sup>University of North Carolina at Chapel Hill School of Medicine, Chapel Hill, NC, United States

(ACMCIP Abstract)

12:30 p.m.

8424

### CO-DELIVERY OF IL-12 AND *LEISHMANIA* PEPCK AS A VACCINATION STRATEGY TO INCREASE EXPRESSION OF SKIN HOMING MOLECULES AND RESIDENT MEMORY T CELL DEVELOPMENT

Anabel Zabala-Peñafiel<sup>1</sup>, Claudia Gonzalez-Lombana<sup>1</sup>, Anthony Phan<sup>1</sup>, Jude Uzonna<sup>2</sup>, Chris Hunter<sup>1</sup>, Phil Scott<sup>1</sup>

<sup>1</sup>University of Pennsylvania, Philadelphia, PA, United States, <sup>2</sup>University of Manitoba, Winnipeg, MB, Canada

12:45 p.m.

8425

### IMMUNE SIGNATURES PREDICT TREATMENT RESPONSE IN CUTANEOUS LEISHMANIASIS PATIENTS

Rúbia Costa<sup>1</sup>, Lucas P. Carvalho<sup>1</sup>, Paulo Machado<sup>2</sup>, Edgar M. Carvalho<sup>1</sup>, Augusto M. Carvalho<sup>1</sup>

<sup>1</sup>Gonçalo Moniz Institute, SALVADOR, Brazil, <sup>2</sup>Federal University of Bahia, SALVADOR, Brazil

(ACMCIP Abstract)

1 p.m.

8426

### MALNUTRITION CONTRIBUTES TO VISCERAL LEISHMANIASIS SEVERITY BY EXACERBATING LIVER PATHOLOGY

Lais Amorim Sacramento<sup>1</sup>, Claudia Lombana<sup>1</sup>, Lisa Mattei<sup>1</sup>, Daniel Beiting<sup>1</sup>, Phillip Scott<sup>2</sup>

<sup>1</sup>School of Veterinary Medicine University of Pennsylvania, PHILADELPHIA, PA, United States, <sup>2</sup>School of Veterinary Medicine University of Pennsylvania, Philadelphia, PA, United States

(ACMCIP Abstract)

## Symposium 183

### Closing the Typhoid Surveillance Gap: Operationalizing Novel Surveillance Methods to Describe Enteric Fever Burden and Support Vaccine Decision-Making

Convention Center - Room 353 (3rd Floor)

Sunday, November 17, 11:30 a.m. - 1:15 p.m.

Typhoid fever continues to impose a significant health burden worldwide, particularly in low- and middle-income countries where access to clean water and sanitation can be limited. Typhoid affects up to 20 million people annually, claiming 8 million years of healthy life each year. Despite the existence of effective typhoid conjugate vaccines (TCVs), many high-risk communities remain unvaccinated due to the lack of precise, locally relevant epidemiological data. Passive, clinic-based case detection underestimates typhoid incidence, as a consequence of a sub-optimal laboratory reference standard (blood culture) and barriers to health care utilization. Consequently, the cases presenting to a health facility represent only a fraction of the true burden of illness, which makes it difficult for policymakers to accurately estimate the cost effectiveness of TCV introduction. Many Gavi-eligible countries interested in adding TCV to their routine immunization schedules have very limited disease burden data to support their application for Gavi funding, and countries that have introduced TCV are challenged to evaluate the true impact of the vaccine. Our symposium seeks to bridge these data gaps by describing the latest advancements in deploying low-cost, scalable tools to estimate enteric fever disease burden where blood-culture based estimates are not implementable. Seroepidemiology leverages antibody response data to characterize infection burden from cross-sectional population surveys that can be implemented quickly and efficiently. Detection of *Salmonella* Typhi bacteriophages in community water sources is a low-cost method of environmental surveillance to identify geographic areas of potential typhoid transmission. The combination of seroepidemiology and environmental surveillance offers a powerful suite of tools that public health systems can use to monitor disease burden and transmission hotspots. Typhoid intestinal perforations (TIP) are a severe and devastating complication of typhoid disease, with significant medical, economic and social consequences for patients and their families. In settings with limited typhoid surveillance, the presence of TIP can function as an indicator of underlying disease burden in a community, even

in the absence of laboratory confirmation of milder infections. We will present some of the latest findings from studies in Afghanistan, Cote d'Ivoire, India and Niger that are implementing these novel surveillance methods. #Epidemiology #FieldStudies #InfectiousDisease

#### CHAIR

Jessica Seidman  
*Sabin Vaccine Institute, Washington, DC, United States*

Kristen Aiemjoy  
*University of California, Davis School of Medicine, Davis, CA, United States*

#### 11:30 a.m. INTRODUCTION

#### 11:40 a.m. ENTERIC FEVER SEROSURVEILLANCE IN EASTERN AFGHANISTAN

Ghulam Rahim Awab  
*Nangarhar University, Nangarhar, Afghanistan*

#### 11:55 a.m. PAIRED PHAGE-BASED TYPHI ENVIRONMENTAL SURVEILLANCE AND COMMUNITY-BASED SEROSURVEILLANCE IN COTE D'IVOIRE

Jean Coulibaly  
*University Félix Houphouët-Boigny, Abidjan, Côte D'Ivoire*

#### 12:10 p.m. COMPREHENSIVE S. TYPHI SURVEILLANCE IN VELLORE, INDIA: INTEGRATING WASTEWATER, CLINICAL AND SEROLOGICAL DATA

Dilip Abraham  
*Christian Medical College Vellore, Vellore, India*

#### 12:25 p.m. ADVANCING ENVIRONMENTAL SURVEILLANCE METHODS: LYOPHILIZED REAGENTS FOR PHAGE-BASED DETECTION

Kesia da Silva  
*Stanford, Palo Alto, CA, United States*

#### 12:40 p.m. TYPHOID INTESTINAL PERFORATIONS AS AN INDICATOR OF ENTERIC FEVER DISEASE BURDEN IN GALMI, NIGER

Yakoubou Sanoussi  
*SIM Galmi Hospital, Madaoua-Kyara, Niger*

## Scientific Session 184

### American Committee of Molecular Cellular and Immunoparasitology (ACMCIP): Parasite Immunology - Insights from Natural and Experimental Infections

*Convention Center - Room 354/355 (3rd Floor)*

**Sunday, November 17, 11:30 a.m. - 1:15 p.m.**

**Supported with funding from the Burroughs Wellcome Fund**

#InfectiousDisease #CellBiology #Immunology #HostResponse #Pathogenesis

#### CHAIR

Usheer Kanjee  
*Harvard T.H. Chan School of Public Health, Boston, MA, United States*

Michelle Boyle  
*Burnet Institute, Melbourne, Australia*

#### 11:30 a.m.

8440

#### TICK INNATE IMMUNE RESPONSE TO PATHOGEN INFECTION AT SINGLE-CELL RESOLUTION

Abdulsalam Adegoke<sup>1</sup>, Jose M. c. Ribeiro<sup>2</sup>, Ryan C. Smith<sup>3</sup>, Shahid Karim<sup>4</sup>  
<sup>1</sup>Department of Microbiology and Immunology, University of Michigan Medical School, Ann Arbor, MI, United States, <sup>2</sup>Vector Biology Section, Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States, <sup>3</sup>Department of Plant Pathology, Entomology, and Microbiology, Iowa State University, Ames, IA, United States, <sup>4</sup>School of Biological, Environmental, and Earth Sciences, The University of Southern Mississippi, Hattiesburg, MS, United States

#### 11:45 a.m.

8427

#### HUMAN FILARIAL INFECTION RESHAPES THE TRANSCRIPTIONAL AND FUNCTIONAL PROGRAMMING OF CD8 T CELLS AT HOMEOSTASIS AND IN RESPONSE TO CYTOMEGALOVIRUS (CMV) IN FILARIAL/CMV COINFECTED INDIVIDUALS

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

#### Noon

8428

#### LATENT CYTOMEGALOVIRUS INFECTION DISRUPTS INNATE AND ADAPTIVE IMMUNITY TO *PLASMODIUM FALCIPARUM* DURING PRIMARY MALARIA INFECTION

Reena Kiran Mukhiya<sup>1</sup>, Jessica R. Loughland<sup>1</sup>, Jo-Anne Chan<sup>1</sup>, Megan Soon<sup>2</sup>, Nick Dooley<sup>1</sup>, Luke Quigley<sup>1</sup>, Fabian de Labastida Rivera<sup>2</sup>, Dean Andrew<sup>2</sup>, James Beeson<sup>1</sup>, James McCarthy<sup>3</sup>, Bridget E. Barber<sup>2</sup>, Alejandro Lopez<sup>4</sup>, Christian Engwerda<sup>2</sup>, Michelle J. Boyle<sup>1</sup>

<sup>1</sup>Burnet Institute, Melbourne, Australia, <sup>2</sup>QIMR Berghofer Medical Research Institute, Brisbane, Australia, <sup>3</sup>Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia, <sup>4</sup>School of Environmental Sciences, Griffith University, Brisbane, Australia

(ACMCIP Abstract)

12:15 p.m.

8429

### HOST DIRECTED THERAPY TO IMPROVE ANTI-PARASITIC IMMUNITY IN VOLUNTEERS EXPERIMENTALLY INFECTED WITH BLOOD STAGE MALARIA

Bridget Barber<sup>1</sup>, Rebecca Webster<sup>1</sup>, Luzia Bukali<sup>1</sup>, Damian Oyong<sup>2</sup>, Fabian de Labastida Rivera<sup>1</sup>, Jessica Engel<sup>1</sup>, Dean Andrew<sup>1</sup>, Megan Soon<sup>1</sup>, Nick Dooley<sup>2</sup>, Jessica Loughland<sup>1</sup>, James McCarthy<sup>3</sup>, Gerlinde Obermoser<sup>1</sup>, Michael Leipold<sup>4</sup>, Julianne Jamelink<sup>2</sup>, Reena Mukhiya<sup>2</sup>, Holder Maecker<sup>4</sup>, Christian Engwerda<sup>1</sup>, **Michelle Boyle**<sup>2</sup>

<sup>1</sup>QIMR-Berghofer, Brisbane, Australia, <sup>2</sup>Burnet Institute, Melbourne, Australia, <sup>3</sup>University of Melbourne, Melbourne, Australia, <sup>4</sup>Stanford University, Stanford, CA, United States

(ACMCIP Abstract)

12:30 p.m.

8430

### DIFFERENT MICRORNA PROFILES IN THE CIRCULATING CD4+T CELLS ARE ASSOCIATED WITH DIFFERENT CLINICAL PRESENTATIONS OF LEISHMANIA DONOVANI INFECTION

RITIRUPA ROY<sup>1</sup>, Cinthia Hudachek<sup>2</sup>, Shashi Bhushan Chauhan<sup>1</sup>, Sundaram Pandey<sup>1</sup>, Rajiv Kumar<sup>3</sup>, Madhukar Rai<sup>1</sup>, Mary E. Wilson<sup>2</sup>, Shyam Sundar<sup>1</sup>

<sup>1</sup>INSTITUTE OF MEDICAL SCIENCES, BANARAS HINDU UNIVERSITY, VARANASI, India, <sup>2</sup>University of Iowa and the Iowa City VA Medical Center, Iowa, IA, United States, <sup>3</sup>Centre of Experimental Medicine and Surgery, Banaras Hindu University, Varanasi, India, VARANASI, India

(ACMCIP Abstract)

12:45 p.m.

8431

### ISOLATION AND CHARACTERIZATION OF A-GAL-CONTAINING EXTRACELLULAR VESICLES FROM TRYPANOSOMA CRUZI: UNVEILING NEW BIOMARKERS FOR CHAGAS DISEASE

Priscila Silva Grijo Farani, Nasim Karimi Hosseini, Susana Portillo, Maria Tays Mendes, Brian Grajeda, Colin Knight, Cameron Ellis, Igor Almeida  
The University of Texas at El Paso, El Paso, TX, United States

(ACMCIP Abstract)

1 p.m.

8432

### EXTRACELLULAR VESICLES FROM TAENIA SOLIUM DAMPENS PI3K-AKT-MTORC1 SIGNALING AND AMELIORATES DSS-COLITIS IN MICE

Suraj Singh Rawat, Amit Prasad  
Indian Institute of Technology Mandi, Mandi, Himachal Pradesh, India

(ACMCIP Abstract)

## Symposium 185

### The Challenge of Schistosomiasis Diagnosis and Treatment in Young Children and Pregnant Women – The Example of freeBILy

Convention Center - Room 356 (3rd Floor)

Sunday, November 17, 11:30 a.m. - 1:15 p.m.

The WHO NTD 2030 Roadmap targets schistosomiasis for elimination as a public health problem by 2030. There is a need to align national guidelines and strategies in endemic countries and to include all at-risk groups in targeted interventions such as preventive chemotherapy. Particularly, two risk groups are neglected in schistosomiasis prevention and treatment campaigns: preschool-aged children and pregnant women. Both groups are severely affected by schistosomiasis but are neglected in research and policy. To overcome reluctance to include these two vulnerable groups into preventive chemotherapy programs,

a test-and-treat strategy using easy-to-use and affordable diagnostics would be an appropriate approach. The EDCTP-funded freeBILy project included two clinical trials conducted in Gabon and Madagascar from 2018 to 2023. The aim of the project was to assess the safety, efficacy, feasibility and cost-effectiveness of test-based praziquantel treatment of schistosomiasis in pregnant women and young children. In Madagascar, a POC-CCA test-based treatment strategy was implemented in routine maternal health care settings and compared to the highly accurate UCP-LF CAA test. The latter was also implemented in Gabon, along with other diagnostic tests to evaluate efficacy of praziquantel treatment in pregnant women. In this session, we will present the first findings of the project in order to discuss the next steps needed to further push endemic countries to adapt strategies to include young children and pregnant women for preventive praziquantel treatment. After a brief introduction of the freeBILy project, the main findings will be presented within four talks. Specifically, we will discuss the diagnostic outcomes and challenges, the safety and tolerability and efficacy of praziquantel in young children and pregnant women, and the cost-effectiveness of the test-and-treat strategy for schistosomiasis. A final debate between the speakers and the audience will help to identify challenges and opportunities resulting from the freeBILy project and to align them with the goals and targets of the WHO NTD 2030 Roadmap for schistosomiasis ([www.freebily.eu](http://www.freebily.eu)). #Diagnostics #Therapeutics #InfectiousDisease #MNCH #ClinicalResearch

#### CHAIR

Govert van Dam  
Leiden University Medical Center, Leiden, Netherlands

Yabo Josiane Honkpehedji  
Centre de Recherches Médicale de Lambaréné, Lambaréné, Gabon

#### 11:30 a.m.

### INTRODUCTION AND PURPOSE OF THE SESSION

Andrea Kreidenweiss  
Universitätsklinikum Tübingen, Tübingen, Germany

Daniela Fusco  
Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany

#### 11:50 a.m.

### THE DIAGNOSTIC CHALLENGES OF SCHISTOSOMIASIS: WHY DO WE NEED A POC?

Pytsje T. Hoekstra  
Leiden University Medical Center, Leiden, Netherlands

#### Noon

### LESSONS LEARNED FROM THE FIELD - EVALUATION OF THE PERFORMANCE OF CIRCULATING ANODIC ANTIGEN(CAA) MEASUREMENT AS A DIAGNOSTIC TOOL FOR THE DETECTION OF SCHISTOSOMA HAEMATOBIIUM INFECTIONS IN PREGNANT WOMEN AND THEIR NEWBORN AND CHILD IN LAMBARÉNÉ, GABON

Yabo Josiane Honkpehedji  
Centre de Recherches Médicales de Lambaréné, Lambaréné, Gabon

**12:20 p.m.**

**LESSONS LEARNED FROM THE FIELD - SCHISTOSOMIASIS AMONG PREGNANT WOMEN IN RURAL MADAGASCAR: A CALL FOR ACTION FOR ADAPTING PUBLIC HEALTH STRATEGIES**

Raphael Rakotozandrindrainy  
*Madagascar Institute for Vaccine Research, University of Antananarivo, Antananarivo, Madagascar*

**12:30 p.m.**

**LESSONS LEARNED FROM THE FIELD - EVALUATION OF THE PERFORMANCE OF THE POINT OF CARE CIRCULATING CATHODIC ANTIGEN (POC-CCA) MEASUREMENT AS A DIAGNOSTIC TOOL FOR THE DETECTION OF SCHISTOSOMA MANSONI INFECTIONS IN PREGNANT WOMEN IN RURAL MADAGASCAR**

Rivonirina Andry Rakotoarivelo  
*Université de Fianarantsoa, Fianarantsoa, Madagascar*

**12:40 p.m.**

**MODELLING THE COST-EFFECTIVENESS OF TEST AND TREAT STRATEGIES FOR SCHISTOSOMIASIS**

Elisa Sicuri  
*Fundación Privada Instituto de Salud Global Barcelona (ISGlobal), Barcelona, Spain*

## Symposium 186

### Will HAT be the Next NTD to Achieve Global Elimination?

*Convention Center - Room 357 (3rd Floor)*  
**Sunday, November 17, 11:30 a.m. - 1:15 p.m.**

In the late 1990s, the international community faced a surge in cases of gambiense Human African Trypanosomiasis (gHAT), marking the peak of an epidemic that had persisted since the 1970s. Responding to this public health challenge, global efforts gained momentum in the new millennium, culminating in the publication of the World Health Organisation's (WHO) 2020 and 2030 roadmaps. This strategic framework set ambitious goals for gHAT control, first targeting the disease for elimination as a public health problem (EPHP) then interrupting transmission to humans (EoT). Over the past two decades, national programmes and their international partners have achieved commendable success. Côte d'Ivoire, Uganda, Togo, Benin and Equatorial Guinea have now officially validated EPHP of gHAT. However, as we move past 2020, attention is shifting towards the critical phase of verifying EoT to humans. Despite substantial progress, the rate of decline of cases has slowed since 2018. This underscores the challenges in progressing from very low to zero cases, especially in regions with inadequate infrastructure, fragile healthcare systems or ongoing conflicts. The symposium aims to delve into key aspects of the ongoing battle against gHAT with a particular focus on the challenges faced in achieving EoT. Bringing together experts, researchers and policymakers we will discuss themes including what makes gHAT unique and a target for EoT, reasons to be optimistic, the challenges that lie ahead, the diverse toolkit for gHAT control and transmission interruption, current challenges for control and surveillance and ways to strengthen them, the potential impact of a new single-dose oral drug, acoziborole, current diagnostics and the necessity for new tools to reach EoT,

the extent to which tsetse control is needed to reach EoT, the challenges with current deployment methodologies and alternative approaches, the importance of sustained vigilance after achieving EoT and transmission and health economic modelling as a tool to support the operationalisation and application of interventions. We will also highlight uncertainties and old vs. new strategies as we approach elimination including (i) recommendations for scale-up, where and why (ii) where current strategies should be maintained (iii) where scale-back would be recommended and (iv) where completely new strategies should be introduced and what these constitute. Addressing these key focus areas, the symposium intends to highlight for others in the NTD field the challenges, successes and lessons learned by the HAT community whilst in parallel looking forward to building a comprehensive strategy for the successful elimination of the disease in humans. #Elimination #Epidemiology #InfectiousDisease #Modeling

#### CHAIR

Emily H. Crowley  
*University of Warwick, Coventry, United Kingdom*

Rachel Bronzan  
*Bill & Melinda Gates Foundation, Seattle, WA, United States*

**11:30 a.m.**

#### INTRODUCTION

**11:40 a.m.**

#### MOVING TOWARDS THE ELIMINATION OF SLEEPING SICKNESS

Gerardo Priotto  
*World Health Organization, Geneva, Switzerland*

**11:55 a.m.**

#### PREPARING FOR THE LAST MILE: INNOVATIONS, OPPORTUNITIES AND CHALLENGES IN THE GHAT ELIMINATION EFFORTS IN THE DRC

Erick Mwamba Miaka  
*Programme National de Lutte contre la Trypanosomiase Humaine Africaine (PNLTHA), Kinshasa, Democratic Republic of the Congo*

**12:10 p.m.**

#### LESSONS LEARNED AND CHALLENGES OF VECTOR CONTROL AS PART OF AN INTEGRATED STRATEGY TO ELIMINATE THE TRANSMISSION OF GHAT

Inaki Tirados  
*Liverpool School of Tropical Medicine, Liverpool, United Kingdom*

**12:25 p.m.**

#### ACOZIBOROLE: THE DEVELOPMENT OF A SINGLE-DOSE ORAL TREATMENT FOR SLEEPING SICKNESS

Stéphane Hugonnet  
*Drugs for Neglected Diseases initiative (DNDi), Geneva, Switzerland*

**12:40 p.m.**

#### WHAT INSIGHTS AND SUPPORT CAN MODELERS PROVIDE ON THE SHORT- AND LONG-TERM BATTLE TOWARDS ELIMINATION?

Kat S. Rock  
*Warwick University, Coventry, United Kingdom*

Sunday  
November 17

## Symposium 187

### Bridging the Rift: Interdisciplinary Approaches to Rift Valley Fever Virus Research

Convention Center - Room 383/384/385 (3rd Floor)

Sunday, November 17, 11:30 a.m. - 1:15 p.m.

This symposium will feature a panel of experts detailing new findings in Rift Valley fever virus (RVFV) research. RVFV periodically re-emerges in epizootics in sub-Saharan Africa that can cause subclinical to severe infection in both ruminants and humans. Indicators of outbreaks include abortion storms in pregnant ewes and cattle and hemorrhagic fever, encephalitis or retinitis in humans. Viral transmission occurs primarily by *Aedes* and *Culex* mosquitoes. However, it can also occur via contact or exposure to infected animal tissue. Vertical transmission of RVFV in mosquitoes has been demonstrated, however, there is an overall lack of understanding of the impact on disease cycles. Climate change and other factors have caused concern that this virus may emerge into new regions, such as Europe or the US. This has stimulated multiple efforts: 1) human vaccine development, 2) study of disease dynamics in US mosquitoes, animals and wildlife and 3) redoubling of surveillance efforts in endemic countries, e.g. Tanzania. Highlights from the field will include gaps in the current understanding of RVF disease ecology and the status of clinical development of a human vaccine. Discussion of surveillance will feature the ways in which inter-epidemic transmission of RVFV across ecologies in Tanzania is addressed by community- and hospital-based surveillance, cross-sectional and sentinel animal epidemiological studies, and how ongoing transmission in absence of epidemic/epizootics fits into the bigger picture of RVF disease ecology. Molecular highlights will cover advances in tools used to understand RNA reassortment between co-infecting strains in mosquitoes and the ways in which viral reassortment affects viral kinetics. Our data demonstrates reassortment between virulent and vaccine strains occurs in mosquito midgut and salivary tissue. Reassortant virus recovered from these tissues, however did not lead to enhanced replication phenotypes compared to non-reassortant parental strains. Another presentation will report on animal and *in vitro* studies that reveal alterations in interferon lambda and key cytokines/chemokines during the inflammatory response to RVFV. scRNA-seq of *Culex tarsalis* ovaries was performed to generate tools for improved characterization of RVFV vertical transmission. Thirteen cell clusters were identified, representing nurse cells, germ cells, stretch cells and hemocytes. *In vivo* characterization by smFISH reveals that, following a round of egg-laying, ovarian stretch cells engulf nurse cells, presumably for nutrient recycling, as indicated by the presence of vitellogenin receptor mRNA in specific cell clusters. Lastly, exploring genomic regulation of RVFV infection in mosquitoes promises to reveal the underpinnings of vector competence. #EmergingDiseaseThreats, #Genomics, #Vaccinology, #MolecularBiology

#### CHAIR

Corey Campbell  
Colorado State University, Fort Collins, CO, United States

Emma Harris  
Colorado State University, Fort Collins, CO, United States

11:30 a.m.  
INTRODUCTION

11:40 a.m.  
RIFT VALLEY FEVER VIRUS: RISK OF EMERGENCE INTO EUROPE AND NORTH AMERICA

Chad Mire  
USDA-ARS-National Bio-Agro-Defense Facility, Manhattan, KS, United States

11:55 a.m.  
RIFT VALLEY FEVER IN TANZANIA: INTER-EPIDEMIC TRANSMISSION ACROSS ECOLOGIES AND PROSPECTS FOR ITS CONTROL

Robert David Sumaye  
Ifakara Health Institute, Ifakara, United Republic of Tanzania

12:10 p.m.  
EVALUATION OF IMMUNOMODULATORY TREATMENT STRATEGIES FOR RIFT VALLEY FEVER VIRUS

Darci R. Smith  
Naval Medical Research Command, Biological Defense Research Directorate, Frederick, MD, United States

12:25 p.m.  
DEFINING REGULATION OF RVFV INFECTION IN VECTOR MOSQUITOES

Corey L. Campbell  
Colorado State University, Fort Collins, CO, United States

12:40 p.m.  
CO-INFECTION OF CULEX TARSALIS WITH RIFT VALLEY FEVER PHLEBOVIRUS PRODUCES EFFICIENT SEGMENTAL REASSORTMENT ACROSS MIDGUT AND SALIVARY GLAND TISSUES

Emma Harris  
Colorado State University, Fort Collins, CO, United States

12:55 p.m.  
THE HALI PROJECT: RIFT VALLEY FEVER VACCINE DEVELOPMENT AND SURVEILLANCE IN TANZANIA - GLOBAL PARTNERSHIPS FOR GLOBAL GOOD

Brian Bird  
Viral Special Pathogens Branch, University of California, Davis, Davis, CA, United States

## Symposium 188

### Integrating Anthropology/Social Science Approaches Into Epidemic Outbreak Response

Convention Center - Room 388/389 (3rd Floor)

Sunday, November 17, 11:30 a.m. - 1:15 p.m.

Anthropological and social science approaches have gained recognition in outbreak response since the 2014-16 West African Ebola outbreak, and the importance of understanding social dynamics in order to design effective outbreak response interventions has been reconfirmed during the Covid-19 pandemic. As a result, demand for social scientists, and anthropologists in particular, in outbreak response operations has increased significantly and we have successfully integrated these new data streams into epidemic responses to cholera in Malawi, Zimbabwe and Zambia over the past year alone. While largely

sitting under the RCCE pillar in the IMS structure, the findings and recommendations of social science research have much broader operational potential and have been taken up across pillars in these responses. We would like to take this opportunity to reflect on the successes and challenges of embedding social science approaches across the response pillars; the standardization of tools and frameworks; and the broader operational implications for developing sustainable approaches to epidemic preparedness and response. The panelists will discuss their experience of having participated in recent outbreak responses in different capacities – as government officials leading outbreak pillars, as academics joining outbreak investigation assessments for rapid action, and as technical experts representing major agencies' surge teams. Topics to be discussed revolve around methodological, political and operational concerns, including: • How to integrate community-based feedback data and anthropological arguments into the evidence base for decision-making in a rapidly shifting environment? This will require a discussion about the difficulties of navigating rapid research in emergency mode when traditional social science methods promote slow, long-term research and the challenges of working within an environment where large sample sizes often carry more weight than small-scale qualitative investigations, and where social-science and community-based data streams are still fairly new. • What are the political and programmatic implications of giving voice to the most marginalized in society, who often bear the heaviest burden of cases and case fatalities? Panelists will debate the challenges produced when these voices may highlight uncomfortable truths that make government and international partners' shortcomings visible, and the dilemmas created when actions recommended as critical by the community fall outside of planned response activities. The panelists will reflect on the value of social science insights and develop a roadmap for integrating social science data streams into the structure of epidemic preparedness and response. #SocialScience #InfectiousDisease

#### **CHAIR**

Nadine Beckmann  
*LSHTM, London, United Kingdom*

#### **11:30 a.m.** **INTRODUCTION**

#### **11:35 a.m.** **RAPID QUALITATIVE ASSESSMENT AND COMMUNITY FEEDBACK AS DATA STREAMS FOR OUTBREAK RESPONSE**

Christina Craig  
*US CDC, Atlanta, United States*

#### **11:55 a.m.** **INTEGRATING COMMUNITY FEEDBACK MECHANISMS INTO OUTBREAK RESPONSE**

Ngonizadshe Nyambarawo  
*IFRC/Collective Service, Pretoria, South Africa*

#### **12:15 p.m.**

#### **SOCIAL SCIENCE RESEARCH FOR COMMUNITY ENGAGEMENT IN THE 2023 CHOLERA OUTBREAK IN ZIMBABWE**

Sophie Everest  
*UKHSA, London, United Kingdom*

#### **12:35 p.m.** **OPERATIONALIZING SOCIAL SCIENCE RESEARCH IN THE 2024 CHOLERA OUTBREAK IN ZAMBIA**

Hanna Woldemeskai  
*Unicef, Lusaka, Zambia*

#### **12:55 p.m.** **OPERATIONALIZING AND BUILDING CAPACITY FOR RAPID QUALITATIVE ASSESSMENTS (RQAS) FOR CRISIS RESPONSE IN ZIMBABWE**

Loveness Chimombe  
*Unicef, Harare, Zimbabwe*

### **Symposium 189**

#### **Scaling the Optimal Use of Multiple ACT's to Prevent Antimalarials Drug Resistance: Progress and Challenges**

*Convention Center - Room 391/392 (3rd Floor)*  
**Sunday, November 17, 11:30 a.m. - 1:15 p.m.**

Prompt treatment with effective antimalarials is a crucial element of malaria control. WHO currently recommends the use of Artemisinin-Based Combination Therapies (ACTs) as the first-line treatment. However, partial artemisinin resistance has been confirmed in a number of African countries, notably Rwanda, Uganda, Tanzania and Ethiopia, threatening the longevity of these treatments. Fortunately, despite reduced efficacy of artemether-lumefantrine in some countries, to date ACTs remain largely effective in Africa and there have been no confirmed reports of partner drug failure. Nevertheless, innovative solutions are required to diversify the use of and protect the efficacy of currently available ACTs until new compounds become available. Multiple First-line Therapies (MFTs) in which several treatments are used concurrently, have been shown to slow down resistance evolution compared with using a single therapy for the whole population. Pilot studies on country readiness to implement MFTs have been conducted in Burkina Faso and Kenya. Several other countries including Rwanda have adopted MFTs as strategy in their national strategy and have begun implementation. This symposium is composed of five presentations that outline the evidence on the effectiveness of MFTs as well as supply, demand, implementation, and operational research issues relevant to the adoption and scale up of MFTs. The first presentation will provide an overview of drug resistance and the need for innovative strategies. The second presentation will share the evidence of the effectiveness of various MFT strategies in Central and East Africa derived from mathematical models. The third presentation will highlight how Rwanda has adopted, generated demand and begun implementation of this strategy. The fourth presentation will outline the operational research being undertaken by Nigeria

to document best practices that can be applied to the adoption and scale up of new therapies and strategies including MFTs in other countries in Africa wishing to implement this strategy. The last presentation will discuss the supply issues for new therapies that form part of the strategy to diversify the use of ACTs. The symposium will be moderated by Dr. Estée Török from the Bill & Melinda Gates Foundation. #InfectiousDisease #Resistance #Modeling

#### CHAIR

Rima Shretta  
*Jhpiego, Baltimore, MD, United States*

Estée Török  
*Bill & Melinda Gates Foundation, London, United Kingdom*

#### 11:30 a.m. INTRODUCTION

#### 11:40 a.m. OVERVIEW OF DRUG RESISTANCE AND THE NEED FOR INNOVATIVE TREATMENT STRATEGIES

Rima Shretta  
*Jhpiego, Baltimore, MD, United States*

#### 11:45 a.m. APPROACHES TO SLOWING DOWN THE CURRENTLY CIRCULATING KELCH13 VARIANTS IN CENTRAL AND EASTERN AFRICA: EVIDENCE ON THE EFFECTIVENESS OF MULTIPLE FIRST-LINE THERAPIES USING MODELING

Maciej F. Boni  
*Temple University, Philadelphia, PA, United States*

#### Noon FROM ADOPTION TO IMPLEMENTATION OF A POLICY OF MULTIPLE FIRST-LINE THERAPIES IN RWANDA

Aimable Mbituyumuremyi  
*Rwanda Biomedical Centre, National Malaria Program, Kigali, Rwanda*

#### 12:15 p.m. OPERATIONAL RESEARCH TO INFORM THE MULTIPLE FIRST-LINE THERAPY STRATEGY IN NIGERIA

Olugbenga A. Mokuolu  
*University of Ilorin Teaching Hospital, Ilorin, Nigeria*

#### 12:30 p.m. GLOBAL EFFORTS TO DIVERSIFY THE USE OF ARTEMISININ-BASED COMBINATION THERAPIES: SUPPLY CHALLENGES

Andre M. Tchouatieu  
*Medicines for Malaria Venture, Meyrin, Switzerland*

## Symposium 190

### Clinical Development of Monoclonal Antibodies that Target Malaria Sporozoites

*Convention Center - Room 393/394 (3rd Floor)*

**Sunday, November 17, 11:30 a.m. - 1:15 p.m.**

The aim of this symposium is to bring together leaders in the field to present results from Phase 2 trials of L9LS in Mali and Kenya, and a Phase 1 Challenge Study in the US for MAM01. The symposium will also explore delivery and cost of good considerations. The symposium will provide a forum for the community to discuss next steps in the clinical development and registration of mAbs including potential target 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. Ample time will be provided at the end of the symposium to promote Q&A and discussion from the audience. #Immunology #Prevention #InfectiousDisease #Pediatrics #TranslationalScience

#### CHAIR

Kayla Andrews  
*Bill & Melinda Gates Medical Research Institute, Cambridge, MA, United States*

Aissata Ongoiba  
*MRTC/ICERMALI, Bamako, Mali*

#### 11:30 a.m. INTRODUCTION

#### 11:40 a.m. COST OF GOODS OF PROPHYLACTIC MONOCLONAL ANTIBODIES FOR *PLASMODIUM FALCIPARUM* MALARIA

Hong Liu  
*Bill & Melinda Gates Medical Research Institute, Cambridge, MA, United States*

#### 11:55 a.m. SAFETY AND EFFICACY OF SUBCUTANEOUS ADMINISTRATION OF L9LS IN MALIAN WOMEN OF CHILD-BEARING POTENTIAL

Aissata Ongoiba  
*MRTC/ICERMALI, Bamako, United States*

#### 12:10 p.m. SAFETY, PHARMACOKINETICS AND EFFICACY OF REPEATED DOSING OF L9LS IN MALIAN CHILDREN

Safiatou Doumbo  
*MRTC/ICERMALI, Bamako, Mali*

#### 12:25 p.m. SAFETY, PHARMACOKINETICS, AND EFFICACY OF REPEATED DOSING OF L9LS IN KENYAN INFANTS AND CHILDREN

Titus Kwambai  
*US Centers for Disease Control, Kisumu, Kenya*

#### 12:40 p.m. MAM01: SAFETY, PK AND PRELIMINARY EFFICACY OF A NEW 1ST GEN CSP MONOCLONAL ANTIBODY

Kirsten Lyke  
*University of Maryland School of Medicine, Baltimore, United States*

## Symposium 191

### The Changing Face of Mapping: Exploring Disease Monitoring Challenges and Innovations After Long-Term Implementation of Helminth Control Programs

Convention Center - Room 395/396 (3rd Floor)

Sunday, November 17, 11:30 a.m. - 1:15 p.m.

Since the advent of Preventative Chemotherapy (PC) as a key control measure for soil-transmitted helminths (STH) and schistosomiasis (SCH), the prevalence of both diseases has reduced globally. Many previously endemic countries now face a very low or highly heterogeneous prevalence landscape. Current guidelines suggest that the frequency of treatment be slowly scaled down until suspension in line with disease prevalence. Guidelines however, lack sufficient nuance around cost-effectively scaling back programs as decision making at a national or equivalent scale may miss endemic pockets of infection or areas of risk where continued or resurging infection may occur. A key determining factor for the future of PC programs is how monitoring is performed. Mapping in such environments is hindered primarily by three key issues 1) given the investment needed to test and treat children for STH and SCH at scale, and that most infections do not tend to trigger individuals to seek testing at health establishments, large-scale representative surveys remain necessary for programmatic decision making. 2) Traditional diagnostics may face issues around precision as prevalence and intensity of infections reduce. Current available alternatives are hindered by prohibitive costs. 3) Given the heterogeneity of prevalence, insufficient guidance exists on how to map sub-nationally and at what level optimal decision making should occur. In addition, geographies may now have multiple goals across a single country. The symposium will explore key issues and novel solutions for monitoring disease patterns as prevalence reduces, focusing on programmatically relevant decision-making and cost-effectiveness. The overarching goal of the symposium is to foster discussion on the issues currently facing decision making for future STH/SCH mapping. Differing from most other discussions a key focus will be what is achievable with cost-effectiveness in mind. Further goals include: Identifying novel survey design which can cost-effectively deal with multiple competing goals presenting helminth control programs after many years of treatment; high light how impactful novel diagnostics which can be cost-effective at scale and their potential for use in maturing helminth control programs; explore case-studies which researchers and program managers can use to approach their own cost-effective programming as programs mature. #Epidemiology #InfectiousDisease #PopulationSurveillance

#### CHAIR

Mark Minnery

*Evidence Action, Washington, DC, United States*

Judd Walson

*Johns Hopkins University, Baltimore, United States*

11:30 a.m.

#### INTRODUCTION

11:40 a.m.

#### THE CHANGING FACE OF HELMINTH MAPPING: KEY ISSUES WITH SURVEY DESIGN AND ANALYSIS FOR COST-EFFECTIVE SUB-NATIONAL MAPPING

Kate McCracken

*Evidence Action, Washington DC, United States*

11:55 a.m.

#### TRANSITIONING FROM DISTRICT TO SUB DISTRICT MONITORING FOR SCHISTOSOMIASIS: CHALLENGES AND WAY FORWARD

Ndellejong Cosmas Ejong

*Sight Savers, Calgary, Canada*

12:10 p.m.

#### EXPLORING SOIL-TRANSMITTED HELMINTH INFECTION PREVALENCE HETEROGENEITY: INSIGHTS FROM RECENT IMPACT ASSESSMENTS IN TANZANIA

Mohamed Ramadhan Nyati

*Neglected Diseases Control Program (NTDCP), Ministry of Health, United Republic of Tanzania*

12:20 p.m.

#### EXPLORING SOIL-TRANSMITTED HELMINTH INFECTION PREVALENCE HETEROGENEITY: INSIGHTS FROM RECENT IMPACT ASSESSMENTS IN TANZANIA

Stephen Mbwambo

*Tanzania Ministry of Public Health, Dodoma, United Republic of Tanzania*

12:35 p.m.

#### UTILITY AND FEASIBILITY OF HIGH THROUGHPUT MOLECULAR DIAGNOSTICS TO ENHANCE STH SURVEILLANCE

Sitara Swarna Rao Ajjampur

*CMC-Vellore, Tamil Nadu, India*

12:50 p.m.

#### GEOSTATISTICAL METHODS FOR SURVEY DESIGN IN LOW PREVALENCE SETTINGS

Freya Clark

*Lancaster University, Lancaster, United Kingdom*

Sunday, November 17, 1:15 p.m.

#### ASTMH 2024 Annual Meeting Adjourns

See you next year at the 2025 Annual Meeting

November 9-13, 2025 (Sunday through Thursday)

Metro Toronto Convention Centre

Toronto, Ontario, Canada

Sunday  
November 17













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## ASTMH 2027 ANNUAL MEETING

November 7-11, 2027 (Sunday through Thursday)

Gaylord Rockies  
Denver, CO, United USA



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