

Wednesday, November 13

Nursing Mothers Room

Convention Center – Office I120 and Office J121 (1st Floor)
Wednesday, November 13, 7 a.m. - 7 p.m.

Prayer Room

Convention Center - Room 342 (3rd Floor)
Wednesday, November 13, 8 a.m. - 7 p.m.

Medical Entomology (ACME) Pre-Meeting Course: Medical Entomology for the Public Health Practitioner and Clinician

Offsite at Tulane University
Wednesday, November 13, 7:30 a.m. - 4 p.m.

COURSE ORGANIZERS

Berlin L. Londono
Tulane University, New Orleans, LA, United States

Sarah R. Michaels
Tulane University, New Orleans, LA, United States

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

7:30 a.m.
COFFEE AND LIGHT REFRESHMENTS

8 a.m.
WELCOME AND OVERVIEW OF THE COURSE - INTRODUCTION
TO ARTHROPOD-BORNE DISEASES

Ronald E. Blanton
Tulane University, School of Public Health and Tropical Medicine, New Orleans, LA, United States

Sarah R. Michaels
Tulane University, New Orleans, LA, United States

Adriana Troyo
University of Costa Rica, San Pedro, San José, Costa Rica

8:30 a.m.
CLINICAL AND DIAGNOSTIC TOOLS FOR FLEA- AND TICK-BORNE
DISEASES

Adriana Troyo
University of Costa Rica, San Pedro, San José, Costa Rica

9 a.m.
MALARIA: EMERGING TECHNOLOGY AND MOSQUITO VECTORS

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

9:30 a.m.
ARBOVIRAL DISEASE: IMMUNOLOGY, CLINICAL DIAGNOSTICS
AND MOSQUITO VECTORS

Berlin L. Londono
Tulane University, New Orleans, LA, United States

10 a.m.
CHAGAS DISEASE: PHYSICIAN OUTREACH AND KISSING BUGS

Claudia Herrera Bernal
Tulane University, School of Public Health and Tropical Medicine, New Orleans, LA, United States

10:30 a.m.
COFFEE BREAK

10:45 a.m.
LABORATORY IDENTIFICATION OF INSECTS AND ARTHROPODS
OF MEDICAL IMPORTANCE

Brian Byrd
Western Carolina University, Cullowhee, NC, United States

Megan E. Saunders
California Department of Public Health, Richmond, CA, United States

Noon
LUNCH (LUNCH PROVIDED)

12:45 p.m.
FIELD SITE VISIT IN HISTORIC NEW ORLEANS CEMETERY

Emily A. Ford
Oak & Laurel Cemetery Preservation, LLC, New Orleans, LA, United States

Catherine A. Pruszynski
Florida Keys Mosquito Control, Key West, FL, United States

Katie Westby
Tyson Research Center, Washington University in St. Louis, Eureka, MO, United States

2:30 p.m.
CLINICAL CASE STUDIES: DIAGNOSIS, PROPHYLAXIS AND
PREVENTION OF VECTOR-BORNE DISEASE

John Carlson
Tulane School of Medicine, New Orleans, LA, United States

3:30 p.m.
QUESTION AND ANSWER SESSION AND COURSE WRAP-UP

Registration

Convention Center - Lobby I (1st Floor)
Wednesday, November 13, 8 a.m. - 7:30 p.m.

Young Investigator Award Sessions

**Supported with funding from William A. Petri, Jr. in memory
of William A. Petri Sr.**

**All individuals who made a donation during registration and
throughout the year.**

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

Young Investigator Award Session A

Convention Center - Room 343/344 (3rd Floor)
Wednesday, November 13, 9 a.m. - 2 p.m.

JUDGE

Lauren Cohee

University of Maryland, Baltimore, MD, United States

Rebecca SB Fischer

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

Peter Melby

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

Katherine Torres

Universidad Peruana Cayetano Heredia, Lima, Peru

6062

GENOMIC EPIDEMIOLOGY OF ARBOVIRUSES REVEALS NEW VIRUS INTRODUCTIONS AND SIMULTANEOUS VIRUS CIRCULATION DURING DENGUE AND CHIKUNGUNYA OUTBREAKS IN BRAZIL

Livia Sacchetto¹, Beatriz Marques¹, Victoria Bernardi¹, Victor Hernandez¹, Igor Teixeira¹, Andreia Negri², Nikos Vasilakis³, Mauricio Nogueira¹

¹Faculdade de Medicina de Sao Jose do Rio Preto, Sao Jose do Rio Preto, Brazil, ²Departamento de Vigilância Epidemiológica, Sao Jose do Rio Preto, Brazil, ³The University of Texas Medical Branch, Galveston, TX, United States

6312

NEUTROPHIL MEDIATORS LINKED TO TIGHT JUNCTION DISRUPTION AND INCREASED INTESTINAL PERMEABILITY IN SEVERE DENGUE

Andrew Teo¹, Po Ying Chia², Tsin Wen Yeo¹

¹Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore, Singapore, ²National Centre for Infectious Diseases, Singapore, Singapore

6328

FIRST EVALUATION OF MOLECULAR AND PATHOGEN GENOMIC IMPACT ON *P. FALCIPARUM* POPULATION FOLLOWING SEASONAL MASS DRUG ADMINISTRATION WITH DIHYDROARTEMISININ-PIPERAQUINE IN A HIGH TRANSMISSION HIGHLY SEASONAL SETTING IN WEST AFRICA

David McGregor

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

6366

DIHYDROARTEMISININ-PIPERAQUINE AS AN ALTERNATIVE TO SULFADOXINE-PYRIMETHAMINE FOR INTERMITTENT PREVENTIVE TREATMENT IN PREGNANCY: A META-ANALYSIS OF MATERNAL, BIRTH, AND INFANT OUTCOMES

Michelle E. Roh¹, Julie Gutman², Mywayiwawo Madanitsa³, Abel Kakuru⁴, Hellen C. Barsosio⁵, Simon Kariuki⁵, John Lusingu⁶, Frank Mosha⁷, Richard Kajubi⁴, Moses R. Kanya⁸, Don Mathanga⁹, Jobiba Chinkhumba¹⁰, Miriam K. Laufer¹¹, Eulambius Mlugu¹², Appollinary A.R. Kamuhabwa¹³, Eleni Akillu¹⁴, Omary Minzi¹⁵, Roland Nnaemeka Okoro¹⁵, Ado Danazumi Geidam¹⁶, John David Ohieku¹⁵, Jenny Hill¹⁷, Meghna Desai², Prasanna Jagannathan¹⁸, Grant Dorsey¹⁹, Feiko O. ter Kuile¹⁷

¹Institute for Global Health Sciences, University of California, San Francisco, San Francisco, CA, United States, ²Malaria Branch, Division of Parasitic Diseases and Malaria, Centers for Disease Control and Prevention (CDC), Atlanta, GA, United States, ³School of Global and Public Health, Kamuzu University of Health Sciences, Blantyre, Malawi, ⁴Infectious Diseases Research Collaboration, Kampala, Uganda, ⁵Kenya Medical Research Institute, Centre for Global Health Research, Kisumu, Kenya, ⁶National Institute for Medical Research (NIMR), Tanga Medical Research Centre, Tanga, United Republic of Tanzania, ⁷Kilimanjaro Christian Medical Centre, Moshi, United Republic of Tanzania, ⁸School of Medicine, Makerere University College of Health Sciences, Kampala, Uganda, ⁹Malaria Alert Center, College of Medicine, University of Malawi, Blantyre, Malawi, ¹⁰Department of Health Systems and Policy, School of Global and Public Health, Kamuzu University of Health Sciences, Blantyre, Malawi, ¹¹Center for Vaccine Development and Global Health, University of Maryland

School of Medicine, Baltimore, MD, United States, ¹²Department of Pharmaceutics, School of Pharmacy, Muhimbili University of Health and Allied Sciences, Dar es Salaam, United Republic of Tanzania, ¹³Department of Clinical Pharmacy and Pharmacology, School of Pharmacy, Muhimbili University of Health and Allied Sciences, Dar es Salaam, United Republic of Tanzania, ¹⁴Department of Global Public Health, Karolinska Institute, Karolinska University Hospital, Stockholm, Sweden, ¹⁵Department of Clinical Pharmacy and Pharmacy Administration, Faculty of Pharmacy, University of Maiduguri, Maiduguri, Nigeria, ¹⁶Department of Obstetrics and Gynaecology, University of Maiduguri Teaching Hospital, Maiduguri, Nigeria, ¹⁷Department of Clinical Sciences, Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ¹⁸Department of Medicine, Stanford University, Stanford, CA, United States, ¹⁹Department of Medicine, University of California, San Francisco, San Francisco, CA, United States

6523

ASSOCIATION OF GUT REDOX POTENTIAL WITH SEVERE ACUTE MALNUTRITION AND STUNTING IN HOSPITALIZED CHILDREN

Md. Shabab Hossain

International Centre for Diarrhoeal Disease Research, Bangladesh (icddr), Dhaka, Bangladesh

6615

HIV MORTALITY TRENDS AMONG THE UNITED STATES POPULATION, FROM 1999-2023: A CDC WONDER DATABASE STUDY

Muhammad Sohaib Asghar¹, Abuoma Cherry Ekpundu¹, Nisar Ahmed², Zain Khalid³, Luis Angel Duharte-Vidaurre¹, Chad Kelly Brands¹

¹AdventHealth Sebring, Sebring, FL, United States, ²Rapido Clinica Familiar, Chicago, IL, United States, ³University of Kentucky, Lexington, KY, United States

6617

THE PREVALENCE OF CRYPTOCOCCAL ANTIGENEMIA AMONG PATIENTS WITH ADVANCED HIV DISEASES IN SOUTHWEST AND NORTHCENTRAL NIGERIA

Justin Onyebuchi Nwofe, Mary Onyenike, Adeola Awolola, Olabamiji Osho, Patrick Okonkwo, Daniel Offie, Emmanuel Ojo, Femi Emmanuel Owolagba, Eke Ofuche, Jay Samuels

APIN Public Health Initiatives, Abuja, Nigeria

6624

EXPLORING HISTOPLASMOSIS IN NON-ENDEMIC AREAS: COMPARATIVE ANALYSIS OF CLINICAL FEATURES, RISK FACTORS, AND OUTCOME OF HISTOPLASMOSIS IN HIV-POSITIVE AND HIV-NEGATIVE COHORTS IN WESTERN INDIA

Akshatha Ravindra¹, Deepak Kumar¹, Santhanam Naguthevar¹, Abhishek G P², Gopal Krishana Bohra¹

¹AIIMS Jodhpur, Jodhpur, India, ²KGMU, Lucknow, India

7275

PLASMODIUM KNOWLESII INFECTION IS ASSOCIATED WITH ELEVATED CIRCULATING BIOMARKERS OF BRAIN INJURY AND ENDOTHELIAL ACTIVATION

Cesc Bertran Cobo¹, Elin Dumont¹, Naqib Rafieqin Noordin², Meng-Yee Lai², William Stone¹, Kevin Tetteh¹, Chris Drakeley¹, Sanjeev Krishna³, Yee-Ling Lau², Samuel C. Wassmer¹

¹London School of Hygiene and Tropical Medicine, London, United Kingdom, ²Universiti Malaya, Kuala Lumpur, Malaysia, ³St George's University of London, London, United Kingdom

7398

SARS-COV-2 EXPOSURE BEFORE OR AFTER PLASMODIUM VIVAX INFECTION EXACERBATES THE HUMORAL RESPONSE AGAINST THE LATTER

Alonso Cruz-Echevarria¹, Katherine Garro¹, Françoise Donnadieu², Joseph Vinetz³, Stéphane Pelleau², Dionicia Gamboa⁴, Michael White², Katherine Torres¹

¹Laboratorio de Malaria, Laboratorios de Investigación y Desarrollo, Facultad de Ciencias e Ingeniería, Universidad Peruana Cayetano Heredia, Lima, Peru, ²Infectious

Disease Epidemiology and Analytics G5 Unit, Institut Pasteur, Université Paris Cité, Paris, France, ³Laboratorio ICMER-Amazonia y Enfermedades Infecciosas Emergentes, Laboratorios de Investigación y Desarrollo, Facultad de Ciencias e Ingeniería, Universidad Peruana Cayetano Heredia, Lima, Peru, ⁴Laboratorio de Malaria: Parásitos y Vectores, Laboratorios de Investigación y Desarrollo, Facultad de Ciencias e Ingeniería, Universidad Peruana Cayetano Heredia, Lima, Peru

7408

PREVALENCE OF PLASMODIUM FALCIPARUM INFECTION AMONG CHILDREN HOSPITALIZED WITH ACUTE RESPIRATORY ILLNESS IN WESTERN UGANDA

Elise R. King¹, Ronnie Ndizeye², Emmanuel Baguma², Georget Kibaba², Ross Boyce¹, Edgar M. Mulogo², Emily Ciccone¹
¹UNC Chapel Hill, Chapel Hill, NC, United States, ²Mbarara University of Science & Technology, Mbarara, Uganda

7579

DENGUE VIREMIA KINETICS AND THE EFFECTS ON PLATELET COUNT AND CLINICAL OUTCOMES

Nguyen L. Vuong¹, Nguyen T. H. Quyen¹, Nguyen T. H. Tien¹, Duong T. H. Kien¹, Huynh T. L. Duyen¹, Phung K. Lam¹, Dong T. H. Tam¹, Tran V. Ngoc², Thomas Jaenisch³, Cameron P. Simmons⁴, Sophie Yacoub¹, Bridget A. Wills¹, Ronald B. Geskus¹
¹Oxford University Clinical Research Unit, Ho Chi Minh City, Vietnam, ²Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam, ³Center for Global Health, Colorado School of Public Health, Aurora, CO, United States, ⁴World Mosquito Program, Monash University, Monash, Australia

7659

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

Elena Marie Crecelius¹, Patrick Hickey², Alison Helfrich²
¹Walter Reed National Military Medical Center, Bethesda, MD, United States, ²Uniformed Services University of the Health Sciences, Bethesda, MD, United States

8083

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

Alimatou Héma¹, Samuel S. Sermé¹, Jean W. Sawadogo¹, Amidou Diarra¹, Amidou Z. Ouédraogo¹, Issa Nébié¹, Alfred B. Tiono¹, Sophie Houard², Subhra Chakraborty³, Alphonse Ouédraogo¹, Sodiomon B. Sirima¹
¹Groupe de Recherche Action en Santé (GRAS), Ouagadougou, Burkina Faso, ²European Vaccine Initiative (EVI), Heidelberg, Germany, ³Johns Hopkins Bloomberg School of Public Health, Baltimore, Baltimore, WA, United States

Young Investigator Award Session B

Convention Center - Room 345 (3rd Floor)
Wednesday, November 13, 9 a.m. – 2 p.m.

JUDGE

Silvia Di Santi
USP, Sao Paulo, Brazil

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

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

Hugues Clotaire Nana Djeunga
University of Yaounde I, Yaounde, Cameroon

6295

CROSS-NEUTRALIZING ANTIBODY RESPONSES ELICITED BY THE CHIKUNGUNYA VACCINE VLA1553

Whitney C. Weber¹, Zachary J. Streblow¹, Craig N. Kreklywich¹, Michael Denton¹, Gauthami Sulgey¹, Magdalene M. Streblow¹, Dorca Marcano², Paola N. Flores², Rachel M. Rodriguez-Santiago², Luisa Alvarado², Vanessa Rivera-Amill², William B. Messer³, Romana Hochreiter⁴, Karin Kosulin⁴, Katrin Dubischar⁴, Vera Bürger⁴, Daniel N. Streblow¹
¹Oregon Health and Science University, Beaverton, OR, United States, ²Ponce Health Sciences University, Ponce, Puerto Rico, ³Oregon Health and Science University, Portland, OR, United States, ⁴Valneva Austria GmbH, Vienna, Austria

6442

BONE VOYAGE: HOW PLASMODIUM INFECTION DISRUPTS THE PLASMA CELL MICROENVIRONMENT IN THE BONE MARROW

Elizabeth Fusco, Alexander R. Maldeney, Layne Bower, Wei Luo, Nathan W. Schmidt
Indiana University School of Medicine, Indianapolis, IN, United States

6504

SINGLE IMMUNIZATION WITH GENETICALLY ATTENUATED PLASMODIUM FALCIPARUM ΔMEI2 (GA2) SPOROZOITES INDUCES HIGH LEVEL PROTECTION AGAINST A CONTROLLED HUMAN MALARIA INFECTION

Geert V.T. Roosen, Roos van Schuijlenburg, Annefleer D.O. Hensen, Jan Pieter R. Koopman, Olivia A.C. Lamers, Fiona J.A. Geurten, Jeroen C. Sijtsma, Els Baalbergen, Jacqueline J. Janse, Séverine C. Chevalley-Maurel, Chanel M. Naar, Sascha Bezemer, Hans Kroeze, Huybert J.F. van de Stadt, Abraham de Visser, Pauline Meij, Mara S. Tihaya, Emil D. Colstrup, Eva Iliopoulou, Helena M. de Bes-Roeleveld, Els Wessels, M.Y. Eileen C. van der Stoep, Chris J. Janse, Rajagopal A. Murugan, Blandine Franke-Fayard, Meta Roestenberg
Leiden University Medical Center, Leiden, Netherlands

6857

TRANSPLACENTAL TRANSFER OF FUNCTIONAL ANTIBODIES DIRECTED AGAINST PLASMODIUM FALCIPARUM BLOOD STAGE ANTIGENS

Djellili Biaou¹, Aziz Bouraïma², Ibrahim Sadissou², David Courtin¹, Andre Garcia¹, Florence Migot-Nabias¹, Achille Massougboji³, Michael Theisen⁴, Sébastien Dechavanne¹, Celia Dechavanne¹
¹Affiliation 1: Université de Paris, Institut de Recherche pour le Développement (IRD), UMR 261 MERIT, Paris France. Affiliation 2: CERPAGE (Centre d'Etude et de Recherche sur les Pathologies Associées à la Grossesse et à l'Enfance), Cotonou, Benin, ²CERPAGE (Centre d'Etude et de Recherche sur les Pathologies Associées à la Grossesse et à l'Enfance), Cotonou, Benin, ³Institut de Recherche Clinique du Bénin (IRCB), Cotonou, Benin, ⁴Centre for Medical Parasitology at Department of International Health, Immunology and Microbiology, University of Copenhagen and Department for Congenital Disorders, Statens Serum Institut, Copenhagen, Denmark

6858

ANTIBODY FC GLYCOSYLATION MODULATES NATURAL KILLER CELL-MEDIATED ADCC IN MALARIA-EXPOSED PREGNANT WOMEN

Savannah N. Lewis¹, Adam S. Kiro Singh¹, Kattria van der Ploeg¹, Kathleen D. Press¹, Felistas Namirimu Nankya², Kenneth Musinguzi², Evelyn Nansubuga², Stephen Tukwasibwe², Mary Lopez-Perez³, Moses R. Kanya², Philip Rosenthal⁴, Grant Dorsey⁴, Lars Hviid³, Prasanna Jagannathan¹
¹Stanford University School of Medicine, Stanford, CA, United States, ²Infectious Diseases Research Collaboration, Kampala, Uganda, ³University of Copenhagen, Copenhagen, Denmark, ⁴University of California, San Francisco, San Francisco, CA, United States

6859

CHRONIC PLASMODIUM INFECTIONS CAUSE PERSISTENT CHANGES IN THE HOST IMMUNOLOGICAL LANDSCAPE

Saniya S. Sabnis¹, Celia L. Saney¹, Monica Cabrera-Mora², The MaHPIC Consortium –, Ignacio Sanz², F. Eun-Hyung Lee², Jessica C. Kissinger¹, Regina Joice-Cordy³, Alberto Moreno², Tracey J. Lamb⁴, Mary R. Galinski², Chester J. Joyner¹

¹University of Georgia, Athens, GA, United States, ²Emory University, Atlanta, GA, United States, ³Wake Forest University, Winston-Salem, NC, United States, ⁴University of Utah, Salt Lake City, UT, United States

6862

IMMUNO-INFORMATIC APPROACH TO IDENTIFYING VARIANT-TRANSCENDENT NATURALLY-ACQUIRED PROTECTION AGAINST PLASMODIUM FALCIPARUM

Katherine Chew, Steve Taylor, Wendy O'Meara, Christine Markwalter
Duke University, Durham, NC, United States

7106

HUMAN IN VITRO MODELING CHARACTERIZES MECHANISM OF ACTION OF ADJUVANTATION SYSTEMS DEFINING SCALABLE AND AFFORDABLE PRECISION VACCINE FORMULATIONS FOR EARLY CHILDHOOD

Sanya Thomas, Caitlin Syphurs, Kevin Ryff, Simon Doss-Gollin, Kayla Lesch, Ofer Levy, Joann Arce, Simon van Haren
Boston Children's Hospital, Boston, MA, United States

7334

DEVELOPMENT OF VACCINE CANDIDATES AGAINST PLACENTAL MALARIA USING PEPTIDE-DECORATED ANTIGENIC LIPOSOMES

Payton LeBlanc
University of Alberta, Edmonton, AB, Canada

7347

AMA1-SPECIFIC HUMAN MONOCLONAL ANTIBODIES INHIBIT PLASMODIUM VIVAX PRE-ERYTHROCYTIC AND BLOOD STAGE INFECTION

Anna C. Winnicki¹, Melanie H. Dietrich², Lee M. Yeoh³, Lenore L. Carias¹, Wanlapa Roobsoong⁴, Chiara L. Drago³, Alyssa N. Malachin¹, Karli R. Redinger¹, Lionel Brice Feufack-Donfack⁵, Payton Kirtley⁶, Maya Aleshnick⁶, Lea Baldor⁵, Nicolai C. Jung⁵, Olivia S. McLaine¹, Yelenna Skomorovska-Prokvolit¹, Agnes Orban⁵, D. Herbert Opi³, Jetsumon Sattabongkat⁴, Wai-Hong Tham², Jean Popovici², Ashley M. Vaughan⁷, Brandon K. Wilder⁶, James G. Beeson³, Jurgen Bosch¹, Christopher L. King¹

¹Case Western Reserve University, Cleveland, OH, United States, ²Walter and Eliza Hall Institute, Melbourne, Australia, ³Burnet Institute, Melbourne, Australia, ⁴Mahidol University, Bangkok, Thailand, ⁵Institut Pasteur du Cambodge, Phnom Penh, Cambodia, ⁶Vaccine & Gene Therapy Institute, Oregon Health & Science University, Hillsboro, OR, United States, ⁷Center for Global Infectious Disease Research, Seattle Children's Research Institute, Seattle, OH, United States

7993

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

Nida Ozarslan¹, Johnie Ategeka², Corina Mong¹, Christine Blauvelt¹, Jimmy Kizza², Abel Kakuru², Moses R. Kanya², Philip J. Rosenthal¹, Prasanna Jagannathan³, Grant Dorsey¹, Stephanie L. Gaw¹

¹University of California, San Francisco, San Francisco, CA, United States, ²Infectious Diseases Research Collaboration, Kampala, Uganda, ³Stanford University, Stanford, CA, United States

8073

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

Sean Yanik¹, Varsha Venkatesh¹, Deepti Sarkar¹, Kazutoyo Miura², Carole Long², Martin Boulanger³, Prakash Srinivasan¹

¹Johns Hopkins, Baltimore, MD, United States, ²NIH, Bethesda, MD, United States, ³University of Victoria, Victoria, BC, Canada

8430

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

RITIRUPA ROY¹, Cinthia Hudachek², Shashi Bhushan Chauhan¹, Sundaram Pandey¹, Rajiv Kumar³, Madhukar Rai¹, Mary E. Wilson², Shyam Sundar¹

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

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

Young Investigator Award Session C

Convention Center - Room 352 (3rd Floor)
Wednesday, November 13, 9 a.m. – 2 p.m.

JUDGE

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

Dionicia Gamboa
Universidad Peruana Cayetano Heredia, Lima, Peru

Juliana Otieno
Uzima University, Kisumu, Kenya

Joana Carneiro da Silva
University of Maryland School of Medicine, Baltimore, MD, United States

6308

IDENTIFICATION OF THE FLAVIVIRUS CONSERVED E-L295 RESIDUE AS A TARGET FOR THE RATIONAL DESIGN OF CANDIDATE WEST NILE LIVE-ATTENUATED VACCINES

Emily K. Mantlo¹, Bailey E. Maloney², So Lee Park³, Adrienne E. Pohl³, Natalia Costa-Ball³, Claire Y.-H. Huang², Alan D.T. Barrett⁴, Yan-Jang S. Huang¹

¹Department of Microbiology and Immunology, State University of New York Upstate Medical University, Syracuse, NY, United States, ²Division of Vector-Borne Diseases, Centers for Disease Control and Prevention, Ft. Collins, CO, United States, ³Department of Diagnostic Medicine/Pathobiology, College of Veterinary Medicine, Kansas State University, Manhattan, KS, United States, ⁴Sealy Institute for Vaccine Sciences, University of Texas Medical Branch, Galveston, TX, United States

6336

ASSESSING ANTIMALARIAL EX-VIVO DRUG EFFICACY IN WEST AND CENTRAL AFRICA FROM IMPORTED PLASMODIUM FALCIPARUM MALARIA CASES IN FRANCE BETWEEN 2016 AND 2023: A GENOTYPE-PHENOTYPE ASSOCIATION STUDY

Jason Rosado¹, Abebe A. Fola², Sandrine Cojean³, Veronique Sarrasin³, Bruno Pradines⁴, Romain Coppée⁵, Justine Bailly¹, Rebecca Crudale², French National Reference Center for Imported Malaria group⁶, Sandrine Houzé⁷, Jeffrey A. Bailey², Jérôme Clain¹

¹Université Paris Cité, Institut de Recherche pour le Développement, Paris,

France, ²Department of Pathology and Laboratory Medicine, Center for Computational Molecular Biology, Brown University, Providence, RI, United States, ³Centre National de Référence du Paludisme, Assistance Publique-Hôpitaux de Paris, Hôpital Bichat-Claude-Bernard, Paris, France, ⁴Centre national de référence du Paludisme, Institut hospitalo-universitaire Méditerranée Infection, Marseille, France, ⁵Université Rouen Normandie, Rouen, France, ⁶-, France, ⁷Université Paris Cité, Institut de Recherche pour le Développement, Centre National de Référence du Paludisme, Assistance Publique-Hôpitaux de Paris, Hôpital Bichat-Claude-Bernard, Paris, France

6416

GENE EXPRESSION NETWORKS IN STAGE-CONTROLLED *PLASMODIUM VIVAX* INFECTIONS FROM NORTHERN THAILAND: A WEIGHTED GENE CO-EXPRESSION NETWORK ANALYSIS (WGCNA)

Graham Ellis¹, Francis C. Motta², Suwanna Chaorattanakawee³, Nichaphat Uthaimongkol³, Worachet Kuntawunginn³, Chadin Thongpam³, Chatchadaporn Thamnurak³, Montri Arsanok³, Mariusz Wojnarski¹, Pattaraporn Vanchayangkul³, Nonlawat Boonyalai³, Philip L. Smith⁴, Michele D. Spring⁵, Krisada Jongsakul³, Ilin Chuang⁶, Sidhartha Chaudhury³, Jeffrey Livezey³, Steven B. Haase⁷
¹Walter Reed National Military Medical Center, Bethesda, MD, United States, ²Florida Atlantic University, Boca Raton, FL, United States, ³US-Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ⁴U.S. Military HIV Research Program Walter Reed Army Institute of Research, Bethesda, MD, United States, ⁵SUNY Upstate Medical University, Syracuse, NY, United States, ⁶US Naval Medical Research Center-Asia, Singapore, Singapore, ⁷Duke University, Durham, NC, United States

6418

GENOME-WIDE ASSOCIATION STUDY OF GLOBAL *PLASMODIUM VIVAX* POPULATIONS PROVIDES INSIGHTS INTO THE EVOLUTION OF DRUG RESISTANCE

Gabrielle C. Ngwana-Joseph¹, Jody E. Phelan¹, Emilia Manko¹, Jamille G. Dombrowski¹, Simone da Silva Santos², Martha Suarez-Mutis², Ricardo L. Dantas Machado³, Claudio R. F. Marinho⁴, Debbie Nolder¹, Francois Nosten⁵, Colin J. Sutherland¹, Susana Campino¹, Taane G. Clark¹
¹London School of Hygiene and Tropical Medicine, London, United Kingdom, ²Instituto Oswaldo Cruz, Sao Paulo, Brazil, ³Universidade Federal Fluminense, Rio de Janeiro, Brazil, ⁴University of Sao Paulo, Sao Paulo, Brazil, ⁵University of Oxford, Oxford, United Kingdom

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GENOMIC EPIDEMIOLOGY OF MALARIA IN ZANZIBAR: DEFINING THE ROLE OF IMPORTATION AND LOCAL TRANSMISSION

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6767

GENERATING THE GENERATOR: A GIANT COMPLEX ESSENTIAL FOR MITOCHONDRIAL BIOGENESIS IN *PLASMODIUM FALCIPARUM*

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A DRUGGABLE AGC KINASE CLRK MEDIATES TEMPORAL REGULATION OF CYCLIC NUCLEOTIDE SIGNALING AND CONTROLS PARASITE EGRESS AND INVASION

Deepti Sarkar, Ravi Kumar Narayanasamy, Luciana Ribeiro Dinis, Abhai Tripathi, Isabelle Coppens, Prakash Srinivasan
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INCREASED DUFFY BINDING PROTEIN 1 EXPRESSION CORRELATES WITH *PLASMODIUM CYNOMOLGI* GROWTH IN CONTINUOUS CULTURE

Wayne Cheng¹, Magdalena Argomaniz¹, Caitlin C. Cooper¹, Amadis Vivas¹, Saniya Sabnis¹, Sarah G. Roberson¹, Celia L. Saney¹, Mary R. Galinski², Steven P. Maher¹, Dennis E. Kyle¹, Chester J. Joyner¹
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HOST-SPECIFIC ADAPTATION OF POWASSAN VIRUS TO *AMBLIYOMMA AMERICANUM*: ROLE OF PRM IN TICK-SPECIFIC VIRAL FITNESS

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POPULATION GENOMICS OF AN INVASIVE MOSQUITO VECTOR, *Aedes aegypti*, IN SOUTHERN NEVADA

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

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

Andrew Edielu¹, John Kelvin Mugerwa¹, Gloria Oduru¹, Jacent Nassuuna¹, Hannah W. Wu², Susannah Colt², Emily L. Webb³, Jennifer F. Friedman², Patrice Akusa Mawa¹, Amaya L. Bustinduy³, Martin Holland³
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USING ANCESTRAL SEQUENCE RECONSTRUCTION FOR GENERATION OF BROAD-SPECTRUM VACCINE PLATFORMS AGAINST TICK-BORNE FLAVIVIRUSES

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UNIQUE IMMUNE AND TISSUE REPAIR MARKERS IN CONGENITAL CHAGAS

Sneider Alexander Gutierrez Guarnizo¹, Carolina Duque¹, Jill Hakim¹, Martín Obregón², Jessi Condiri², Paloma Samame³, Emily Arteaga³, Clariza Roxana³, Jean Karla Velarde³, Edith Malaga², Andrea Diestra², Alejandra Pando², Manuela Verastegui², Monica Pajuelo², Maritza Calderon², Freddy Tinajeros³, Natalie Bowman⁴, Robert Gilman¹, Monica Mugnier¹

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

Priscila Silva Grijó Farani, Nasim Karimi Hosseini, Susana Portillo, Maria Tays Mendes, Brian Grajeda, Colin Knight, Cameron Ellis, Igor Almeida
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Young Investigator Award Session D

Convention Center - Room 353 (3rd Floor)

Wednesday, November 13, 9 a.m. – 2 p.m.

JUDGE

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DEVELOPMENT OF AMPLICON-BASED WHOLE-GENOME SEQUENCING OF MYCOBACTERIUM TUBERCULOSIS

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INTERACTIONS BETWEEN WATER, SANITATION, AND HYGIENE (WASH) AND MOSQUITO DYNAMICS IN WESTERN KENYA: IMPLICATIONS FOR DIARRHEAL AND MALARIA DISEASES

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SPATIAL VARIATION IN ENVIRONMENTAL AND SOCIODEMOGRAPHIC DRIVERS OF LEPTOSPIROSIS IN THE DOMINICAN REPUBLIC USING A GEOGRAPHICALLY WEIGHTED REGRESSION

Beatris M. Martin¹, Benn Sartorius¹, Helen Mayfield¹, Angela Cadavid Restrepo², Cecilia J. Then Paulino³, Marie C. Etienne³, Ronald Skewes-Ramm³, Eric J. Nilles⁴, Colleen L. Lau¹

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FECAL EXPOSURE PATHWAYS FOR CHILDREN IN LOW-INCOME, UNPLANNED COMMUNITIES OF URBAN MAPUTO, MOZAMBIQUE USING A QUANTITATIVE MICROBIAL RISK ASSESSMENT FRAMEWORK (QMRA)

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DETECTION OF RECURRENT MALARIA BY IMPROVING THE ACCURACY OF UNIQUE PATIENT IDENTIFICATION WITH BIOMETRICS IN PAPUA, INDONESIA

Liony Fransisca¹, Reynold Rizal Ubra², Enny Kenangalem¹, Benedikt Ley³, Ric N. Price³, Nicholas M. Douglas³, Jeanne Rini Poespoprodjo¹

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ASYMPTOMATIC *P. FALCIPARUM* INFECTION IS NOT ASSOCIATED WITH EXPOSURE TO SOIL TRANSMITTED HELMINTHS IN CHILDREN FROM A MULTI SCHOOL-BASED STUDY IN ESSE, CAMEROON

Lauren Lajos¹, Balotin Fogang², Anne Jensen³, Derrick Atchombat², Douglas H. Cornwall², Christiane Donkeu², Chris-Marco Nana-Mbianda², Celine Slam³, Hugues Clotaire Nana Djeunga⁴, Bin Zhan⁵, Anne J. Blaschke¹, Krow Ampofo¹, Paul Olivier Koki Ndombo⁶, Lawrence Ayong², Tracey Lamb³

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CAUSES OF MATERNAL MORTALITY IN RURAL BANGLADESH: ANALYSIS OF VERBAL AUTOPSY DATA OF CHILD HEALTH AND MORTALITY PREVENTION SURVEILLANCE (CHAMPS) BANGLADESH

Afsana Afrin¹, Afruna Rahman¹, Mohammad Zahid Hossain¹, Md. Abu Bakkar Siddique¹, Tazrin Rahman Lopa¹, Md. Alinoor Islam Khan¹, Md. Atique Iqbal Chowdhury¹, Qazi Sadeq-ur Rahman¹, Md. Mamunur Rashid¹, Shams El Arifeen¹, Emily S. Gurley²

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

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IMPACT OF HEAT AND HUMIDITY EXPOSURE ON EFFICACY OF SELECTED ANTIBIOTICS

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THE GLOBAL BURDEN OF CHIKUNGUNYA VIRUS AND THE POTENTIAL BENEFIT OF VACCINES

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

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OUT-OF-SEASON RESPIRATORY VIRUS INFECTIONS DURING THE PANDEMIC PERIOD OF SARS-COV-2 TRANSMISSION IN BRAZIL

Juan Pablo A. Ticona¹, Luciane Santos Amorim Santos², Meng Xiao³, Nivison Nery Jr², Emilia M. M. Andrade Belitardo², Mariam O. Fofana⁴, Renato Victoriano², Jaqueline Cruz², Laise Eduarda Paixão de Moraes², Mitermayer G. Reis², Frederico Costa¹, Ricardo Khouri², Derek A. Cummings⁵, Albert I. Ko⁴

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

Belinda Chen¹, Chih-Hsien Lin¹, Andrew Mertens¹, Sophia T. Tan², Farheen Jamshed¹, Diego Figueroa¹, Caitlin Hemlock³, Zachary Butzin-Dozier¹, Lia C. H. Fernald¹, Christine P. Stewart⁴, Alan E. Hubbard¹, Md. Ziaur Rahman⁵, Shahjahan Ali⁶, Benjamin F. Arnold⁷, Firdaus S. Dhabhar⁸, Douglas Granger⁹, Mahbubur Rahman¹⁰, Stephen P. Luby², Jack Colford¹, Audrie Lin¹¹

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

Ronit Gupta¹, Andrew N. Mertens², Akram Ullah³, Tahmeed Ahmed⁴, Rashidul Haque⁵, Mamun Kabir³, Mondar M. M. Ahmed³, Mustafa Mahfuz⁴, Shahjahan Ali⁵, Mohammad Alauddin⁶, Md. Ziaur Rahman⁷, Jessica Grembi⁸, Abul K. Shoaib⁹, Mahbubur Rahman⁹, Leanne Unicomb⁹, Benjamin F. Arnold¹⁰, Syeda L. Famida³, Salma Akther³, Md. Saheen Hossen³, Palash Mutsuddi³, Alan E. Hubbard¹¹, Christine P. Stewart¹², John M. Colford Jr.¹¹, Stephen P. Luby⁸, Audrie Lin⁷

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MAPPING THE GLOBAL ENVIRONMENTAL SUITABILITY FOR SCRUB TYPHUS

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Young Investigator Award Session E

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

Wednesday, November 13, 9 a.m. – 2 p.m.

JUDGE

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Wednesday
November 13

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TRACKING THE SOURCE POPULATION OF *SIMULIUM* BLACKFLY INVASION IN URBAN SETTINGS IN GHANA: A GENOMICS APPROACH

Millicent Opoku¹, Neha Sirwani¹, Emily N. Hendrickson¹, Himal Shrestha¹, Kwadwo K. Frempong², Sampson Otoo², Franklin Ayisi Ayisi³, Millicent S. Afatodzie², Abena A. Nyarko², Sarah M. Dogbe², Joseph H.N. Osei², Sellase Pi-Bansa², Sindew M. Feleke¹, Warwick Grant¹, Daniel Boakye², Shannon Hedtke¹

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THE IMPACTS OF COVID-19 ON THE TREND OF MEASLES OUTBREAK IN NIGERIA

Promise Ayooluwa Ajala, Ayooluwa Oluwaseun Ajayi, Funmilayo Grace Adelokun, Favour Mofiyinfoluwa Abiona, Oluwatomisin Oluwadamilola Olawoye
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INCREASING CERTAINTY AROUND IMPACT OF SEASONAL MALARIA CHEMOPREVENTION: A MODELING FRAMEWORK USING ROUTINE DATA SOURCES IN BURKINA FASO

Monica Anna de Cola¹, Benoit Sawadogo², Cheick Campaore², Chuks Nnaji³, Sidzabda Kompaore⁴, Arantxa Roca-Feltre⁵, Sol Richardson⁶, Christian Rassi³, Patrick Walker¹, Lucy C. Okell¹

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MOLECULAR INVESTIGATION OF RECURRENT *PLASMODIUM MALARIAE* INFECTION IN THE DEMOCRATIC REPUBLIC OF THE CONGO

Wenqiao He¹, Rachel Sendor², Melchior Kashamuka³, Kristin Banek³, Joseph Losoma Atibu³, Zachary R. Popkin-Hall¹, Jonathan J. Juliano¹, Antoinette Tshefu³, Jonathan B. Parr¹

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LEVERAGING COMMUNITY HEALTH WORKERS TO SUSTAIN UNIVERSAL BED NET COVERAGE IN RURAL UGANDA: A PILOT FEASIBILITY STUDY

Annika K. Gunderson¹, Rapheal Mbusa², Emmanuel Baguma², Emmanuel Ayebare², John Barber¹, Moses Ntaro², Edgar M. Mulogo², Ross M. Boyce¹

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QUANTIFYING THE SUITABILITY OF WATERSHED-BASED AREAL UNITS FOR MALARIA MODELING IN THE PERUVIAN AMAZON REGION

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INVESTIGATING THE PREVALENCE, INTENSITY, AND CONTRIBUTING FACTORS OF *SCHISTOSOMA MANSONI* INFECTION IN ALMATA DISTRICT, TIGRAY, NORTHERN ETHIOPIA

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A MULTICENTER STUDY TO ASSESS THE EFFECTIVENESS OF AN INACTIVATED COVID-19 VACCINE AGAINST HOSPITALIZED COVID-19 IN THE PHILIPPINES

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QUANTIFYING THE RELATIONSHIP BETWEEN MALARIA IN PREGNANCY AND MATERNAL ANEMIA USING ROUTINE ANTENATAL CARE-BASED SURVEILLANCE DATA IN TANZANIA

Abigail R. Goodship¹, Sequoia I. Leuba¹, Joseph T. Hicks¹, Abdallah Lusasi², Sijununu Aaron², Samwel L. Nhiga², Mzee M. Nassoro³, Frank Chacky², Patrick G.T. Walker¹

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HIGH MORTALITY AMONG PERSONS WITH SUSPECTED EPILEPSY: A FOCUS ON ONCHOCERCIASIS-ENDEMIC COUNTIES OF SOUTH SUDAN

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DIFFERENTIAL IMPACT OF INSECTICIDE TREATED NETS AGAINST MALARIA: A META-ANALYSIS AND MODELLING STUDY OF CLUSTER-RANDOMIZED CONTROLLED TRIALS IN AFRICA

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

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8304

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

Jose V. Zambrana¹, Sandra Bos², Elias Duarte², Aaron L. Graber², Julia Huffaker², Carlos Montenegro³, Lakshmanane Premkumar⁴, Aubree Gordon¹, Angel Balmaseda⁵, Eva Harris²

¹Department of Epidemiology, School of Public Health, University of Michigan, Ann Arbor, MI, United States, ²Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, ³Sustainable Sciences Institute, Managua, Nicaragua, ⁴Department of Microbiology and Immunology, University of North Carolina School of Medicine, Chapel Hill, NC, United States, ⁵Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua

8412

ASSOCIATION OF S. HAEMATOBIIUM INFECTION WITH PREGNANCY IN TANZANIA

Sheridan Bowers¹, Jane K. Maganga², Loyce Mhango², Peter Shigella², Crispin Mukerebe², Humphrey D. Mazigo³, Govert J. van Dam⁴, Danielle de Jong⁵, Paul L. Corstjens⁵, Saidi H. Kapiga², W. Evan Secor⁶, Myung Hee Lee⁷, Jennifer A. Downs⁷, John M. Changalucha²

¹Weill Cornell Medicine, New York, NY, United States, ²Mwanza Intervention Trials Unit/ National Institute for Medical Research, Mwanza, United Republic of Tanzania, ³Department of Parasitology, Catholic University of Health and Allied Sciences, Mwanza, United Republic of Tanzania, ⁴Department of Parasitology, Leiden University Medical Center, Leiden, Netherlands, ⁵Department of Cell and Chemical Biology, Leiden University Medical Center, Leiden, Netherlands, ⁶Division of Parasitic Diseases for Malaria, Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁷Center for Global Health, Weill Cornell Medicine, New York, NY, United States

Young Investigator Award Session F

Convention Center - Room 356 (3rd Floor)
Wednesday, November 13, 9 a.m. – 2 p.m.

JUDGE

Karen E.S. Hamre
The Carter Center, Atlanta, GA, United States

Carla N. Mavian
University of Florida, Gainesville, FL, United States

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

Amit Prasad
Indian Institute of Technology Mandi, Mandi, India

6068

THE DYNAMICS OF PARASITE GROWTH IN P. FALCIPARUM AND P. KNOWLESII CO-CULTURES

Jeremy S. Goodwin-Gower, Jenny M. Peters, Hayley E. Mitchell, Stacey Llewellyn, Fiona H. Amante, Bridget E. Barber
QIMR Berghofer Medical Research Institute, Herston, Australia

6317

GENETIC ANCESTRY-ASSOCIATED DIFFERENCES IN DENGUE VIRUS INFECTION OF PRIMARY HUMAN SKIN CELLS

Michelle M. Martí, Priscila M. S. Castanha, Jocelyn M. Taddonio, Jeremy J. Martinson, Simon M. Barratt-Boyes
University of Pittsburgh, Pittsburgh, PA, United States

6318

ARBOVIRUS DISEASE PATHOGENESIS IN OBESE AND TYPE-II DIABETIC-LIKE MICE

Natalia Ingrid O. Silva¹, Sasha R. Azar², Vidyleison N. Camargos¹, Rafael K. Campos³, Rumei Yun³, Jiehua Zhou¹, Alice F. Versiani¹, Shannan L. Rossi³, Nikos Vasilakis¹
¹University of Texas Medical Branch, Department of Pathology, Galveston, TX, United States, ²Center for Tissue Engineering, Department of Surgery, Houston Methodist Research Institute, Houston, TX, United States, ³University of Texas Medical Branch, Department of Microbiology and Immunology, Galveston, TX, United States

6324

LOW LEVEL OF ANTIMALARIAL DRUG RESISTANCE IN 2014-15: INTEGRATION OF PRIMAQUINE INTO INDIA'S ANTIMALARIAL DRUG POLICY 2013

Shrikant Nema¹, Nazia Ali², Kristan A. Schneider³, Sri Krishna², Anil Kumar Verma², Aparup Das², Praveen Kumar Bharti¹

¹ICMR-National Institute of Malaria Research, New Delhi, India, ²ICMR-National Institute of Research in Tribal Health, Jabalpur, India, ³University of Applied Sciences Mittweida, Germany, Germany

6721

ASSESSMENT OF ALBENDAZOLE SUSCEPTIBILITY IN FASCIOLA HEPATICA EGGS FROM ENDEMIC REGIONS OF THE PERUVIAN HIGHLANDS

César A. Murga-Moreno¹, Dayana M. Terrones-Cerna¹, David Ruiz-Pérez¹, Luis I. Alvarez², Laura Ceballos², Miguel M. Cabada³, Martha V. Fernandez-Baca⁴, César E. Vila-Anticona⁵, Ana M. Fernández-Sánchez¹, Rodrigo A. Ore⁴, Cristian Hobán¹, Pedro Ortiz¹
¹Universidad Nacional de Cajamarca, Cajamarca, Peru, ²Universidad Nacional del Centro de la Provincia de Buenos Aires, Tandil, Argentina, ³University of Texas Medical Branch, Galveston, TX, United States, ⁴Universidad Peruana Cayetano Heredia, Cusco, Peru, ⁵Servicio Nacional de Sanidad Agraria, Junin, Peru

6814

DIETARY EFFECTS ON THE COURSE OF VISCERAL LEISHMANIASIS IN A MOUSE MODEL

Natalie Jarvis, Grace Gutzman, Yani Chen, Bayan Zhanbolat, Patrick Nuro-Gyina, Jacilara Conceicao, Mary Wilson
University of Iowa, Iowa City, IA, United States

6852

LEISHMANIA TRANSMISSION IS DISRUPTED IN SANDFLIES COLONIZED BY DELFTIA TSURUHATENSIS TC1 BACTERIA

Pedro Cecilio¹, Luana A. Rogerio², Tiago D. Serafim², Kristina Tang², Laura Willen², Eva Iniguez², Claudio Meneses², Luis F. Chaves³, Yue Zhang⁴, Wei Huang⁵, Pablo Castaneda-Casado⁶, Marcelo Jacobs-Lorena⁵, Jesus G. Valenzuela², Janneth Rodrigues⁶, Fabiano Oliveira²

¹Vector Biology Section, LMVR, NIAID, NIH, Rockville, MD, United States, ²Vector Molecular Biology Section, LMVR, NIAID, NIH, Rockville, MD, United States, ³Department of Environmental and Occupational Health, School of Public Health-Bloomington, Indiana University, Bloomington, IN, United States, ⁴Integrated Data Sciences Section (IDSS), Research Technologies Branch, NIAID, NIH, Bethesda, MD, United States, ⁵Department of Molecular Microbiology and Immunology, Malaria Research Institute, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ⁶Global Health Medicines R&D, GSK, Tres Cantos, Madrid, Spain

6980

HIGH SURVIVORSHIP OF ANOPHELES GAMBIAE LARVAE TO LETHAL CONCENTRATIONS OF CLOTHIANIDIN, ACETAMIPRID OR IMIDACLOPRID IS CONSISTENT WITH CROSS-RESISTANCE TO NEONICOTINOIDSMarilene M Ambadiang Mae¹, Caroline Fouet², Fred Ashu¹, Calmes Bouaka¹, Véronique Penlap-Beng³, Colince Kamdem²¹Centre for Research in Infectious Diseases, Yaoundé, Cameroon, ²Department of Biological Sciences, University of Texas, El Paso, TX, United States, ³Department of Biochemistry, Faculty of Science, University of Yaoundé 1, Yaoundé, Cameroon

7156

UNDERSTANDING THE BIPHASIC DOSE-RESPONSE CURVE ASSOCIATED WITH PIPERAQUINE RESISTANCE IN PLASMODIUM FALCIPARUMJohn Kane¹, Xue Li², Sudhir Kumar³, Katrina A. Button-Simons¹, Llsa A. Checkley¹, Douglas A. Shoue¹, Shalini Nair², Ann Reyes², Rupam Tripura⁴, Thomas J. Peto⁴, Dysoley Lek⁵, Stefan H. I. Kappe⁶, Mehul Dhorda⁴, Standwell C. Nkhoma⁷, Ian H. Cheeseman², Ashley M. Vaughan⁸, Timothy J. C. Anderson², Michael T. Ferdig¹¹University of Notre Dame, South Bend, IN, United States, ²Texas Biomedical Research Institute, San Antonio, TX, United States, ³Iowa State University, Ames, IA, United States, ⁴Mahidol-Oxford Tropical Medicine Research Unit, Mahidol University, Bangkok, Thailand, ⁵National Center for Parasitology, Entomology and Malaria Control, Phnom Penh, Cambodia, ⁶Seattle Children's Research Institute, Seattle, WA, United States, ⁷BEI Resources, Manassas, VA, United States

7486

OUTCOME OF SNAKEBITE VICTIMS MANAGED BY TRAINED HEALTH ASSISTANTS AT A SNAKEBITE TREATMENT CENTER IN NEPALAarjav Sharma¹, Arun Gautam¹, Urza Bhattarai¹, Srista Manandhar¹, Sunit Chhetri¹, Rohan Basnet¹, Aakriti Sapkota², Khem Adhikari³, Sanjib K. Sharma¹¹BP Koirala Institute of Health Sciences, Dharan, Nepal, ²Damauli Hospital, Vyas, Nepal, ³Snakebite Treatment Center, Damak, Damak, Nepal

7644

REPRODUCIBILITY OF A SMARTPHONE-BASED VISUAL ACUITY TEST (PEEK ACUITY) IN PERUVIAN SCHOOLCHILDRENEvelyn del Rosario Munayco Pantoja¹, Jeremy Keenan², Andres Lescano¹¹Emerge, Emerging Diseases and Climate Change Research Unit, School of Public Health and Administration, Universidad Peruana Cayetano Heredia, Lima, Peru, ²University of California, San Francisco, CA, United States

8166

EVALUATION OF THE BIOLOGICAL ACTIVITY OF CHEMICAL CONSTITUENTS FROM THE STEMBARK OF KIGELIA AFRICANA, A CAMEROONIAN MEDICINAL PLANT, AGAINST ONCHOCERCA OCHENGI PARASITESGhansenyuy Salome Yuwong¹, Yemback Piere¹, Eyong Kenneth Oben¹, Gabriel Ngosong Folefoc¹, Fidelis Cho Ngwa²¹University of Yaounde 1, Yaounde, Cameroon, ²University of Buea, Buea, Cameroon

8318

MORPHOLOGICAL AND MOLECULAR IDENTIFICATION OF B. MALAYI AND OTHER FILARIAL SPECIES IN ANIMALS FROM BELITUNG, INDONESIA: IMPLICATIONS FOR LYMPHATIC FILARIASIS ELIMINATIONIrina Diekmann¹, Kerstin Fischer¹, Taniawati Supali², Peter Fischer¹¹Infectious Diseases Division, Department of Medicine, Washington University School of Medicine, St. Louis, MO, United States, ²Department of Parasitology, Faculty of Medicine, Universitas Indonesia, Jakarta, Indonesia

8366

PATHOGENESIS AND TRANSMISSION OF SEVERE FEVER WITH THROMBOCYTOPENIA SYNDROME VIRUS IN EXPERIMENTALLY INFECTED ANIMALSJeffrey M. Marano¹, Angela Bosco-Lauth¹, Airm E. Hartwig¹, Stephanie M. Porter¹, Nicole M. Nemeth³, Marissa Quilici¹¹Colorado State, Fort Collins, CO, United States, ²United States Department of Agriculture - Animal & Plant Health Inspection Service, Fort Collins, CO, United States, ³University of Georgia, Athens, GA, United States**American Committee on Arthropod-Borne and Zoonotic Viruses (ACAV) SIE Subcommittee Meeting**

Convention Center - Room 390 (3rd Floor)

Wednesday, November 13, 11 a.m. - Noon

ACCTMTH Clinical Research Award Session

Convention Center - Room 351 (3rd Floor)

Wednesday, November 13, Noon - 2:30 p.m.

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

CHAIR

Obinna Nnaemeka Nnedu

Ochsner Clinic Foundation, New Orleans, LA, United States

JUDGE

Miguel Cabada

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

Kristina Krohn

University of Minnesota, Minneapolis, MN, United States

Latha Rajan

Tulane University, New Orleans, LA, United States

Bryan N. Tegomoh

University of Yaounde I Medical School, Cameroon, Yaounde, Cameroon

Noon

6045

THE CLINICO-EPIDEMIOLOGICAL EXPERIENCE OF AN MPOX OUTBREAK AT A LARGE HEALTHCARE SYSTEM IN LOUISIANA, USA.Mary Ellen Owings¹, Latha Rajan¹, Obinna Nnedu²¹Tulane University School of Public Health and Tropical Medicine, New Orleans, LA, United States, ²Ochsner Medical Center, Infectious Diseases Department, New Orleans, LA, United States

12:15 p.m.

6289

ENHANCED IFN- γ , BUT NOT IL-2, RESPONSE TO MYCOBACTERIUM TUBERCULOSIS ANTIGENS IN HIV/LATENT TB CO-INFECTED PATIENTS ON LONG-TERM HAART

Dawit Gebreegziabihier Hagos

Mekelle University, college of health Sciences, Mekelle, Ethiopia

12:30 p.m.

6436

MATURATION AND DIVERSIFICATION OF THE B AND T CELL RECEPTOR REPERTOIRES OVER 9 YEARS OF REPEATED MALARIA INFECTIONS

Helen George¹, Heike Baum², Stephan Lorenzen³, Aissata Ongoiba⁴, Safiatou Doumbo⁴, Didier Doumtabe⁴, Shanning Li⁵, Maren Sandkuhl⁶, Thomas Jacobs¹, Kassoum Kayentao⁴, Boubacar Traore⁴, Peter D. Crompton⁷, Martin Davey⁸, Dániel Cadar², Maria Mackroth⁵, Christine S. Hopp¹

¹Protozoa Immunology, Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany, ²Bernhard Nocht Institute for Tropical Medicine, National Reference Centre for Tropical Infectious Diseases, Hamburg, Germany, ³Bioinformatics, Bernhard Nocht Institute, Hamburg, Germany, ⁴Malaria Research and Training Centre, Department of Epidemiology of Parasitic Diseases, International Center of Excellence in Research, University of Sciences, Technique and Technology of Bamako, Bamako, Mali, ⁵Malaria Infection Biology and Immunity Section, Laboratory of Immunogenetics, NIAID, NIH, Rockville, MD, United States, ⁶First Medical Department, Division of Infectious Diseases, University Medical Center Hamburg-Eppendorf, Hamburg, Germany, ⁷Malaria Infection Biology and Immunity Section, Laboratory of Immunogenetics, NIAID, NIH, Rockville, MD, United States, ⁸Division of Biomedical Sciences, Warwick Medical School, University of Warwick, Coventry, United Kingdom

12:45 p.m.

6621

RESPIRATORY VIRUSES AND BACTERIA CARRIAGE AMONG PEOPLE LIVING WITH HUMAN IMMUNODEFICIENCY VIRUS IN ACCRA, GHANA

Lawrencia Ami Emeffa Ativi¹, Mildred Adusei-Poku¹, Beverly Egyir²

¹University of Ghana, ACCRA, Ghana, ²Noguchi Memorial Institute for Medical Research, ACCRA, Ghana

1 p.m.

7082

TRENDS IN MORTALITY CAUSED BY VIRAL HEPATITIS IN THE UNITED STATES POPULATION: A RETROSPECTIVE CROSS-SECTIONAL STUDY USING THE CDC WONDER DATABASE.

Muhammad Sohaib Asghar¹, Abuoma C. Ekpundu¹, Mohammed Akram², Rumael Jawed³, Pankajkumar Patel¹, Chad K. Brands¹

¹Advent Health, Sebring, FL, United States, ²HCA Aventura, Aventura, FL, United States, ³Nazareth Hospital, Philadelphia, PA, United States

1:15 p.m.

7399

EVALUATION OF NEUROCYSTICERCOSIS PRESENTATION AND MANAGEMENT IN HOUSTON, TEXAS

Theresa Sepulveda, Fernando H. Centeno, Jose A. Serpa-Alvarez, Jill Weatherhead, Eva H. Clark

Baylor College of Medicine, Houston, TX, United States

1:30 p.m.

7556

COINFECTION OF POWASSAN VIRUS AND BORRELLIA BURGDORFERI IN A C3H MOUSE MODEL

Jessica Crooker, Dakota Paine, Saravanan Thangamani
SUNY Upstate Medical University, Syracuse, NY, United States

1:45 p.m.

8093

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

Alimatou Héma¹, Samuel S. Sermé¹, Jean W. Sawadogo¹, Amidou Diarra¹, Amidou Z. Ouédraogo¹, Issa Nébié¹, Alfred B. Tiono¹, Sophie Houard², Subhra Chakraborty³, Alphonse Ouédraogo¹, Sodiomon B. Sirima¹

¹Groupe de Recherche Action en Santé (GRAS), Ouagadougou, Burkina Faso, ²European Vaccine Initiative (EVI), Heidelberg, Germany, ³Johns Hopkins Bloomberg School of Public Health, Baltimore, WA, United States

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

Convention Center - Room 390 (3rd Floor)

Wednesday, November 13, Noon - 2 p.m.

Press Room

Convention Center - Room 340 (3rd Floor)

Wednesday, November 13, Noon - 5 p.m.

Speaker Ready Room

Convention Center - Room 387 (3rd Floor)

Wednesday, November 13, Noon - 6 p.m.

Point-of-Entry: First-Time Attendee Orientation

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

Wednesday, November 13, 1 p.m. - 2 p.m.

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

1 p.m.

POINT-OF-ENTRY: FIRST-TIME ATTENDEE ORIENTATION

Koya Allen

Booz Allen Hamilton, Baden-Wurtemberg, Germany

Workshop

Climate Fresk: Understanding the Physics, Causes and Consequences of Climate Change to Empower Action

Convention Center - Room 350 (3rd Floor)

Wednesday, November 13, 2024, 1:00 pm - 4:00 pm

The ASTMH Committee on Global Health and Forecasting Healthy Futures present the second annual Climate Fresk workshop to encourage climate-informed practices and tools in global health work. The workshop will consist of a collaborative card game to learn the mechanisms of climate change and gain a holistic view of climate change, including the impacts on health. Participants will reflect on the lessons from the card game and collectively brainstorm solutions to address climate change's impacts on health. The objectives of this workshop are:

- 1) Offer a collaborative learning experience for the ASTMH community to understand the science, causes, and consequences of climate change, based on the IPCC reports
- 2) Encourage participants to engage with climate change by identifying strategic linkages to their existing body of work

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

Workshop

Meet the Editors and Writing Workshop

Convention Center - Room 391/392 (3rd Floor)
Wednesday, November 13, 1 p.m. - 5 p.m.

The *American Journal of Tropical Medicine and Hygiene (AJTMH)* presents a writing workshop for early-career researchers and researchers from disease-endemic regions. The goal is to guide attendees through the scholarly publication process and provide best practices for manuscript writing. The session will address how to frame research, choose a journal, map out your paper, write an abstract, the mechanics of writing, how to properly respond to reviewer comments, and best practices for data sharing and Open Science. The panel includes Editors-in-Chief from top global-health journals who will participate in a Q&A at the end of the first part of the session. The second part of the session will include one-on-one analysis of pre-chosen abstracts with feedback and edits being shared with the group at-large.

CHAIR

Alison Jaeb, Managing Editor and Publisher
American Journal of Tropical Medicine and Hygiene, Arlington, VA, United States

Kasturi Haldar, Professor
University of Notre Dame, Notre Dame, IN, United States

1 p.m.

MEET THE EDITORS

Phillip J. Rosenthal, *AJTMH* Editor-in-Chief
University of California San Francisco, San Francisco, CA, United States

Shaden Kamhawi, Editor-in-Chief, *PLOS Neglected Tropical Diseases*
PLOS Neglected Tropical Diseases, Bethesda, MD, United States

Stephen Higgs, Editor-in-Chief, *Vector-Borne & Zoonotic Diseases*
Kansas State University, Manhattan, KS, United States

Marco De Ambrogi, Deputy Editor
The Lancet Infectious Diseases, London, United Kingdom

2:30 p.m.

BREAK

3 p.m.

ROUNDTABLES: ABSTRACT REVIEWS AND FEEDBACK

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

Convention Center - Room 390 (3rd Floor)
Wednesday, November 13, 2 p.m. - 3:30 p.m.

Young Investigator Award Committee Meeting

Convention Center - Room 343/344 (3rd Floor)
Wednesday, November 13, 2 p.m. - 3:30 p.m.

Student Reception

Hilton - River (Riverside Building)
Wednesday, November 13, 2:30 p.m. - 3:30 p.m.

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

ACCTMTH Clinical Research Award Committee Meeting

Convention Center - Room 351 (3rd Floor)
Wednesday, November 13, 3 p.m. - 4 p.m.

American Committee of Medical Entomology (ACME) Council Meeting

Convention Center - Room 397 (3rd Floor)
Wednesday, November 13, 3:30 p.m. - 5:30 p.m.

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

Convention Center - Room 349 (3rd Floor)
Wednesday, November 13, 3:30 p.m. - 5:30 p.m.

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

Convention Center - Room 390 (3rd Floor)
Wednesday, November 13, 3:30 p.m. - 5:30 p.m.

ASTMH Committee on Global Health (ACGH) Council Meeting

Convention Center - Room 399 (3rd Floor)
Wednesday, November 13, 3:30 p.m. - 5:30 p.m.

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

Convention Center - Room 398 (3rd Floor)
Wednesday, November 13, 3:30 p.m. - 5:30 p.m.

Young Investigator Award Reception

Convention Center - Room 346/347 (3rd Floor)
Wednesday, November 13, 3:45 p.m. - 4:30 p.m.

Supported with funding from Pfizer



Plenary Session 1

Plenary Session I: Opening Session and Awards Program

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

Wednesday, November 13, 5:30 p.m. - 7 p.m.

THIS SESSION DOES NOT CARRY CME CREDIT.

CHAIR

Linnie Golightly

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

5:30 p.m.

SCIENTIFIC PROGRAM CHAIR WELCOMING REMARKS

David Hamer

Boston University, Boston, MA, United States

5:45 p.m.

KEYNOTE ADDRESS



Monique Wasunna, MD, PhD

Africa Ambassador

Drugs for Neglected Diseases *initiative*

Nairobi, Kenya

Dr. Monique Wasunna is the Drugs for Neglected Diseases *initiative's* (DNDi) Africa Ambassador. In this role, she engages African policy leaders and other stakeholders to support their ambitions of advancing universal health coverage, treatment access and eliminating neglected diseases through R&D collaborations that deliver new treatments for the most vulnerable patients. Previously, she served as the Regional Director of DNDi Eastern Africa. She is a founding chair and member of the Leishmaniasis East Africa Platform, which promotes clinical research and strengthens research capacity for leishmaniasis in the region.

Dr. Wasunna was the Chief Research Officer and Assistant Director of Research at the Kenya Medical Research Institute (KEMRI). She has served as the Director, Centre for Clinical Research, KEMRI, and subsequently served as the Acting Director KEMRI. She was a member of the International Bioethics Committee of UNESCO, Kenya National Bioethics Committee, the Kenyatta National Hospital and University of Nairobi Scientific and Research Ethics committee, and currently a member of the Expert Committee of Clinical Trials of the Pharmacy and Poisons Board, Kenya.

Dr. Wasunna is a physician and an infectious disease and tropical medicine specialist. She holds a Bachelor of Medicine and Bachelor of Surgery degree from the University of Nairobi as well as an MSc and PhD from the London School of Hygiene & Tropical Medicine. She also holds a diploma in Tropical Medicine and Hygiene from the Royal College of Physicians of London. Dr. Wasunna is a Fellow of both the Royal Society of Tropical Medicine and the Eastern, Central, and Southern Africa College of Physicians.

Dr. Wasunna has been recognized for her contributions to neglected disease research. She is the recipient of the Distinguished Neglected Tropical Diseases Researcher award from the Kenyan Ministry of Health and the National Order of Merit (Officier de l'ordre national du mérite) from the French government. Additionally, she has been honored with a Collaboration and Partnership award from the Kenya Medical Research Institute and was named a Mycetoma Ambassador. Dr. Wasunna has been a researcher and a principal investigator in visceral leishmaniasis, malaria, and HIV studies. Her contributions are well-documented in peer-reviewed journals.

6:05 p.m.

AWARDS PROGRAM

Presiding Officer: Linnie Golightly

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

Mwele Malecela Mentorship Programme for Women in Neglected Tropical Diseases

Recognition of ASTMH/BMGF Annual Meeting Travel Awards

Recognition of Young Investigator Awards

Recognition of ACCTMTH (Clinical Group) Clinical Research Award

Burroughs Wellcome Fund - ASTMH Postdoctoral Fellowship in Tropical Infectious Diseases

Emily Evans

Emory University, United States

Jesse Ross

Columbia University Medical Center, United States

Sahal Thahir

University of North Carolina at Chapel Hill, United States

Donald Krogstad Award for Early-Career Malian Scientists

Nouhoum Diallo

MRTC/USTTB

Recognition of 2024 Fellows of ASTMH (FASTMH)

Hoseah Miima Akala

Kenya Medical Research Institute/ Walter Reed Army Institute of Research – Africa, Kenya

Matthew Aliota

University of Minnesota-Twin Cities, United States

Lyric Bartholomay

University of Wisconsin-Madison, United States

May Chu

Colorado School of Public Health, United States

Maria Diuk-Wasser

Columbia University, United States

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Linnie Golightly
Weill Cornell Medical Center, United States

Karen A. Goraleski
ASTMH CEO Emeritus, United States

Kasturi Haldar
University of Notre Dame, United States

Eric Halsey
Centers for Disease Control and Prevention, United States

Manuel Llinás
The Pennsylvania State University, United States

Kristy Murray
Emory University, United States

Kyle Petersen
Uniformed Services University of the Health Sciences, United States

Dylan Pillai
University of Calgary, Canada

Bobbi Pritt
Mayo Clinic, United States

David Saunders
Uniformed Services University of the Health Sciences, United States

Maggy Sikulu-Lord
The University of Queensland, Australia

Sharon Tennant
University of Maryland School of Medicine, United States

Recognition of ASTMH Distinguished International Fellows (FASTMH)

Kwaku Poku Asante
Kintampo Health Research Institute, Ghana

Mauricio Barreto
FIOCRUZ/Federal University of Bahia, Brazil

Christopher Drakeley
London School of Hygiene and Tropical Medicine, United Kingdom

Fyezah Jehan
Aga Khan University, Pakistan

Claudio Lanata
Instituto Investigacion Nutricional, Peru

Joel Tarning
Mahidol Oxford Tropical Medicine Research Institute, Thailand

Antoinette Tshetu Kitoto
Kinshasa School of Public Health, Democratic Republic of Congo

Monique Wasunna
Drugs for Neglected Diseases Initiative (DNDi), Kenya

Alan J. Magill Fellow

Punam Amratia
Ifakara Health Institute

Subgroup Medals and Awards

Harry Hoogstraal Medal (ACME)

Marcelo Jacobs-Lorena
Johns Hopkins University, United States

William Trager Award for Basic Parasitology (ACMCIP)

Sebastian Lourido
MIT and the Whitehead Institute for Biomedical Research, United States

Martin Wolfe Mentoring Award (ACCTMTH)

Thomas Nutman
National Institutes of Health, United States

Scherer Hardy (ACAV)

Jean-Paul Carrera
Gorgas Memorial Institute of Health Studies, Panama

Society-Level Medals and Awards

Presented by Laila Woc-Colburn and Jamie Bay Nishi, *ASTMH Communications Award Co-Chairs*

Communications Award

A spiking fever: Long neglected, Lassa fever is surging in West Africa. Researchers want to know why

By Leslie Roberts
February 22, 2024
Science

Bailey K. Ashford Medal

Andrew S. Azman
Johns Hopkins Bloomberg School of Public Health, United States

Jonathan Juliano
University of North Carolina at Chapel Hill, United States

Clara Southmayd Ludlow Medal

Firdausi Qadri
icddr, Bangladesh

Joseph Augustin LePrince Medal

Didier Menard
Institut Pasteur, France

Walter Reed Medal

Stephen L. Hoffman
Sanaria Inc., United States

Opening Reception

Convention Center - Hall J (1st Floor)
Wednesday, November 13, 7 p.m. - 9:30 p.m.

Exhibit Hall Open

Convention Center - Hall J (1st Floor)
Wednesday, November 13, 7 p.m. - 9:30 p.m.

Thursday, November 14

Registration

Convention Center - Lobby I (1st Floor)
Thursday, November 14, 7 a.m. - 5 p.m.

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

Convention Center - Room 387 (3rd Floor)
Thursday, November 14, 7 a.m. - 6 p.m.

TropStop -Student/Trainee Lounge

Convention Center - Room 346/347 (3rd Floor)
Thursday, November 14, 7 a.m. - 5 p.m.

This casual setting, designed with students, trainees and residents in mind (coffee, internet), is your place for a break from the fast pace of the meeting and relax with colleagues and friends. Check out the Career Chats sessions, held in the TropStop. This will be your opportunity to meet professionals in the fields of tropical medicine and global health who will share their personal career paths and answer your questions about the various bumps and forks in the road.

Meeting Sign-Up Room

Hilton – Norwich Room and Windsor Room (3rd Floor)
Thursday, November 14, 7 a.m. - 7 p.m.

Nursing Mothers Room

Convention Center – Office I120 and Office J121 (1st Floor)
Thursday, November 14, 7 a.m. - 7 p.m.

Prayer Room

Convention Center - Room 342 (3rd Floor)
Thursday, November 14, 7 a.m. - 7 p.m.

AJTMH Editorial Board Meeting

Hilton - Marlborough B (2nd Floor)
Thursday, November 14, 7 a.m. - 8 a.m.

Centennial Travel Award Committee Meeting

Hilton - Marlborough A (2nd Floor)
Thursday, November 14, 7 a.m. - 8 a.m.

Diploma Course Directors Meeting

Hilton - Ascot (3rd Floor)
Thursday, November 14, 7 a.m. - 8 a.m.

International Membership Committee Meeting

Hilton – Churchill A1 (2nd Floor)
Thursday, November 14, 7 a.m. - 8 a.m.

Press Room

Convention Center - Room 340 (3rd Floor)
Thursday, November 14, 7:45 a.m. - 5 p.m.



Can We Expect Triple/Multiple Artemisinin-Based Combination Therapies for Malaria in the Near Future?

Convention Center - Hall I-2 (1st Floor)
Thursday, November 14, 8 a.m. - 9:45 a.m.

Recent reports of artemisinin resistance in African countries necessitate urgent action to prevent further emergence and/or spread of artemisinin resistance in Africa. Artemether-lumefantrine (AL) is the most widely used ACT, accounting for >70% of ACT use. Recent reports of decreased in vitro susceptibility to lumefantrine and increased reports of travelers presenting with AL treatment failures is additionally worrisome. New antimalarial drugs may not come to the market within the next 5 years and one of the leading candidates, ganaplacide, is currently combined with lumefantrine. Preventing lumefantrine resistance is crucial. Triple or multidrug ACTs (TACTs or MDACTs), combining artemisinin with two or more currently available drugs, could be one of the last remaining safe and effective treatments for malaria that can be deployed rapidly. The Tracking Resistance to Artemisinin Collaboration II (TRACII) trial enrolled 1100 patients, mainly adults from Southeast Asia, and provided the first clinical proof of concept of TACTs. Mathematical modeling efforts have shown the advantage of deploying TACTs to prevent or delay resistance. The Development of Triple Artemisinin-based Combination Therapies (DeTACT project), the ArteSunate-Amodiaquine-Atovaquone-Proguanil (ASAAP) consortium and the Multi-drug combination therapies to prevent Malaria drug resistance (MULTIMAL) consortium have been working TACTs and MDACTs to be primarily deployed in pediatric populations in African countries. The DeTACT project takes a holistic approach to provide multi-faceted evidence needed for deployment of TACTs. These range from safety, tolerability and efficacy of TACTs, modeling future benefits of TACTs, stakeholder perception on acceptability and market positioning of TACTs. The DeTACT clinical trial is complete and final results on safety, tolerability and efficacy of AL+amodiaquine (AL+AQ) and artesunate-mefloquine+piperavaquine from eight African countries will be presented. The safety, tolerability and efficacy of AL+AQ in Cambodia, where >90% of parasites are artemisinin-resistant will be presented. The development, clinical trial plan, market readiness and deployment plan of the fixed-dose combination (FDC) of a TACT comprising artemether-lumefantrine-amodiaquine (FDC ALAQ) will be presented. The ASAAP consortium's evaluation of clinical efficacy and transmission blocking potential of AL+atovaquone-proguanil in five African countries will be presented. The MULTIMAL consortium's final results on clinical efficacy, safety/tolerability and pharmacokinetics of an age-deescalation trial of artesunate-pyronaridine+atovaquone-proguanil and artesunate-fosmidomycin-clindamycin against

standard artesunate-pyronaridine therapy in two African countries will be presented. #ClinicalResearch #Resistance #Therapeutics #InfectiousDisease

CHAIR

Arjen M. Dondorp
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

Quique Bassat
Barcelona Institute for Global Health (ISGlobal), Barcelona, Spain

8 a.m.

INTRODUCTION

8:10 a.m.

THE SAFETY, TOLERABILITY AND EFFICACY OF ARTEMETHER-LUMEFANTRINE+AMODIAQUINE AND ARTESUNATE+MEFLOQUINE+PIPERAQUINE AGAINST UNCOMPLICATED MALARIA IN EIGHT AFRICAN COUNTRIES

Mehul J. Dhorda
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

8:25 a.m.

ARTEMETHER-LUMEFANTRINE+AMODIAQUINE PROTECTS AGAINST MULTI-DRUG RESISTANT MALARIA IN CAMBODIA

Chanaki Amaratunga
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

8:40 a.m.

DEVELOPMENT, TESTING AND DEPLOYMENT PLANS OF A FIXED-DOSE COMBINATION OF ARTEMETHER-LUMEFANTRINE-AMODIAQUINE FOR UNCOMPLICATED MALARIA

Michelle Xiong
Shanghai Fosun Pharmaceutical Industrial Development Co. Ltd., Shanghai, China

8:55 a.m.

PHASE II EVALUATION OF ARTESUNATE-PYRONARIDINE+ATOVAQUONE-PROGUANIL AND ARTESUNATE+FOSMIDOMYCIN+CLINDAMYCIN FOR THE TREATMENT OF UNCOMPLICATED MALARIA

Michael Ramharter
Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany

9:15 a.m.

THE SAFETY, EFFICACY AND TRANSMISSION BLOCKING EFFECT OF ARTEMETHER-LUMEFANTRINE +ATOVAQUONE-PROGUANIL FOR UNCOMPLICATED MALARIA

Oumou Maiga Ascofaré
Kumasi Centre for Collaborative Research in Tropical Medicine, Kumasi, Ghana

9:35 a.m.

ARTEMISININ PARTIAL RESISTANCE IN UGANDAN CHILDREN WITH COMPLICATED MALARIA

Ruth Namazzi
Makerere University, Kampala, Uganda

Symposium 3

What's New in Clinical Tropical Medicine Literature?

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

Thursday, November 14, 8 a.m. - 9:45 a.m.

Experts in Tropical Medicine and Travelers' Health base their decisions on the knowledge of disease epidemiology, clinical

course, diagnostic tools, resistance patterns, and vaccine data. This symposium will highlight recent studies on these aspects of Tuberculosis, Malaria, Scrub Typhus and Leishmaniasis. #InfectiousDisease #ClinicalResearch #Epidemiology

CHAIR

Ivan A. Gonzalez
University of Miami, Miami, FL, United States

Lin H. Chen
Mount Auburn Hospital and Harvard Medical School, Cambridge, MA, United States

8 a.m.

INTRODUCTION

8:10 a.m.

WHAT'S NEW IN THE LITERATURE: LEISHMANIASIS?

Naomi E. Aronson
Uniformed Services University of the Health Sciences, Bethesda, MD, United States

8:35 a.m.

WHAT'S NEW IN THE LITERATURE: SCRUB TYPHUS?

Priscilla Rupali
Christian Medical College Vellore, Vellore, India

9 a.m.

WHAT'S NEW IN THE LITERATURE: TUBERCULOSIS?

German Henostroza
University Of Alabama At Birmingham, Birmingham, AL, United States

9:25 a.m.

WHAT'S NEW IN THE LITERATURE: MALARIA?

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

Scientific Session 4

Kinetoplastida and Other Opportunistic and Anaerobic Protozoa: Diagnosis and New Detection Tools

Convention Center - Room 345 (3rd Floor)

Thursday, November 14, 8 a.m. - 9:45 a.m.

This session does not carry CME credit.

#Diagnostics #TranslationalScience #InfectiousDisease

CHAIR

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

Camila I. De Oliveira
FIOCRUZ, Salvador, Brazil

8 a.m.

6000

HIGHLY SENSITIVE TARGETS FOR DIAGNOSIS AND SPECIATION OF HUMAN LEISHMANIASIS

Nicholas Ray Duncan¹, Elise O'Connell¹, Janitzio Guzmán¹, Joshua R. Lacsina², Thalia Pacheco-Fernandez³, Sreenivas Gannavaram³, Andrea Paun¹, Thomas Nutman¹, Sasisekhar Sasisekhar Bannuru¹

¹Laboratory of Parasitic Diseases, NIAID, National Institutes of Health, Bethesda, MD, United States, ²Laboratory of Malaria & Vector Research, NIAID, National Institutes of Health, Bethesda, MD, United States, ³Center for Biologics Evaluation and Research, FDA, Silver Spring, MD, United States

8:15 a.m.

6001

THE ROLE OF LIPIDS AS POTENTIAL BIOMARKERS OF DISEASE PROGRESSION AND THERAPEUTIC RESPONSE IN PATIENTS WITH CHRONIC *T. CRUZI* INFECTION

Juan C. Gabaldón-Figueira¹, Albert Ros-Lucas¹, Nieves Martínez-Peinado¹, Gavin Blackburn², Irene Losada-Galván¹, Elizabeth Posada¹, Cristina Ballart³, Elisa Escabia¹, Jordi Capellades⁴, Oscar Yanes⁴, Maria J. Pinazo⁵, Joaquim Gascón¹, Julio Alonso-Padilla¹

¹Barcelona Institute for Global Health, Barcelona, Spain, ²Glasgow Polyomics, Glasgow, United Kingdom, ³Universitat de Barcelona, Barcelona, Spain, ⁴Universitat Rovira i Virgili, Tarragona, Spain, ⁵Drugs for Neglected Diseases Initiative (DNDi), Rio de Janeiro, Brazil

8:30 a.m.

6002

DEVELOPMENT OF A CRISPR-LAMP BASED BIOSENSOR WITH A LATERAL FLOW READOUT FOR THE DETECTION OF CUTANEOUS LEISHMANIASIS

Laud Anthony Wihibeturo Basing¹, Belinda O. Antwi¹, Anthony Y. Dziworshie¹, Francisca Adomako², Christabel Aning Boateng³, Yaw Adu-Sarkodie⁴

¹Department of Medical Diagnostics, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, ²R&D Department, Incas Diagnostics, Kumasi, Ghana, ³School of Medicine and Dentistry, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, ⁴Department of Clinical Microbiology, School of Medicine and Dentistry, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

8:45 a.m.

6003

DEVELOPMENT AND CLINICAL VALIDATION OF LEISHID, A LAMP-BASED SPECIES-SPECIFIC *LEISHMANIA* DETECTION TOOL FOR THE MOLECULAR DIAGNOSIS OF LEISHMANIASES

Alessandra Mara de Sousa¹, Raphael França Oliveira¹, Stephanie Megale Ferreira¹, Ellen Gonçalves de Oliveira¹, Ana Caroline de Castro Nascimento Sousa², Rafael Luiz da Silva Neves¹, Eduardo Martinez³, Célia Maria Ferreira Gontijo¹, Rodrigo Pedro Soares¹, Vinicius Maracajá Coutinho³, Nilmar Silvio Moretti⁴, Rubens Lima do Monte-Neto¹

¹Instituto René Rachou - Fundação Oswaldo Cruz - IRR/Fiocruz Minas, Belo Horizonte, Brazil, ²Laboratório de Biologia Molecular de Patógenos (LBMP) - Departamento de Microbiologia Imunologia e Parasitologia - Universidade Federal de São Paulo - Unifesp, São Paulo, Brazil, ³Integrative Bioinformatics, Universidad de Chile, Santiago, Chile, Santiago, Chile, ⁴Department of Pathology and Microbiology, Faculty of Veterinary Medicine, Université de Montréal, Saint-Hyacinthe, QC, Canada

9 a.m.

6004

NEW STRATEGY FOR THE OPTIMIZATION OF TAQMAN QPCR FOR *ENTAMOEBIA HISTOLYTICA* BY DROPLET DIGITAL PCR

Akira Kawashima¹, Yanagawa Yasuaki², Rieko Shimogawara³, Kenji Yagita⁴, Hiroyuki Gatanaga¹, Koji Watanabe⁵

¹AIDS Clinical Center, National Center for Global Health and Medicine, Tokyo, Japan, ²Department of Microbiology and Immunology, Stanford University School of Medicine, Stanford, CA, United States, ³Department of Parasitology, National Institute of Infectious Disease, Tokyo, Japan, ⁴Department of Parasitology, National Institute of Infectious Diseases, Tokyo, Japan, ⁵Division of Host Defense Mechanism, Tokai University School of Medicine, Kanagawa, Japan

9:15 a.m.

6005

CHARACTERIZATION OF THE LEISHMANIN SKIN TEST ANTIGEN AS A BIOMARKER OF VACCINE EFFICACY AND DISEASE SURVEILLANCE

Laura Klenow¹, Ranadhir Dey¹, Hannah Markle¹, Nazli Azodi¹, Lais Da Silva Pereira¹, Thalia Pacheco-Fernandez¹, Patrick Lypaczewski², Greg Matlashewski², Abhay Satoskar³, Sreenivas Gannavaram¹, Hira Nakhasi¹

¹FDA, Silver Spring, MD, United States, ²McGill University, Montreal, QC, Canada, ³Ohio State University, Columbus, OH, United States

9:30 a.m.

6006

VISCERAL LEISHMANIASIS DIAGNOSIS WITH DIGITAL MICROSCOPY AND EDGE-AI MODELS

Lin Lin¹, Ramón Vallés-López², Daniel Cuadrado², David Bermejo-Peláez², Alexander Vladimirov², María Postigo², Fabiana Alves³, Eleni Ayele⁴, Arega Yeshanew⁵, Miguel Luengo-Oroz², Israel Cruz⁶, Elena Dacal²

¹Spotlab, Madrid & Spain Biomedical Image Technologies, ETSI Telecomunicación, Universidad Politécnica de Madrid, Madrid, Spain & CIBER de Bioingeniería, Biomateriales y Nanomedicina, Madrid, Spain, ²Spotlab, Madrid, Spain, ³Drugs for Neglected Diseases initiative, Geneva, Switzerland, ⁴University of Gondar Department of Internal Medicine, Gondar, Ethiopia, ⁵University of Gondar Department of Internal Medicine. Leishmaniasis Research Treatment Center, Gondar, Ethiopia, ⁶National School of Public Health, CIBERINFEC, Instituto de Salud Carlos III, Madrid, Spain

Symposium 5

American Committee of Medical Entomology (ACME) Symposium I: Animal-Targeted One Health Interventions to Protect Humans from Vector-Borne Diseases

Convention Center - Room 352 (3rd Floor)

Thursday, November 14, 8 a.m. - 9:45 a.m.

Vector-borne diseases continue to emerge worldwide, with new options needed for management of vectors and pathogens in nature. Wild and domestic animals serve as reservoirs for zoonotic pathogens and hosts for blood feeding arthropod vectors. There is increasing attention to various ways in which the animal hosts can be targeted with management approaches to reduce human disease risk. The goals of animal targeted interventions are typically to (i) reduce the number of animal hosts; (ii) reduce the infection prevalence in animal hosts; and/or (iii) reduce vector densities by creating toxic animal blood meals. Approaches include culling of wildlife; treating of domestic or wild animals with insecticides; vaccination of domestic or wild animals and more. This symposium will feature research programs aimed at developing or evaluating animal-targeted interventions to reduce human risk of vector-borne diseases. Speakers will feature diverse vector-borne disease systems for which innovative public health solutions are needed. Presented works will focus on managing dogs, wild birds, livestock and deer in order to reduce risk of sand fly, mosquito, and tick-borne disease. Our speakers include those with backgrounds in human medicine, veterinary medicine, medical entomology and ecology, and together will feature key elements of animal-targeted 'One Health' solutions for vector-borne disease. #EcologicalStudies #Epidemiology #FieldStudies #InfectiousDisease #Prevention

CHAIR

Sarah A. Hamer
Texas A&M University, College Station, TX, United States

Adriana Troyo
Universidad de Costa Rica, San Jose, Costa Rica

8 a.m.

INTRODUCTION

Thursday
November 14

8:10 a.m.

TREATING WILD BIRDS WITH IVERMECTIN THROUGH BACKYARD BIRD FEEDERS TO REDUCE WEST NILE VIRUS TRANSMISSION RISK IN COLORADO

Brian Foy
Colorado State University, Fort Collins, CO, United States

8:25 a.m.

DEVELOPING A PROTOCOL TO TREAT DEER TO REDUCE HUMAN EXPOSURE TO INFECTED TICKS

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

8:45 a.m.

VETERINARY ENDECTOCIDES FOR MALARIA CONTROL AND ELIMINATION: PROSPECTS AND CHALLENGE

Carlos Chaccour
ISGlobal Barcelona Institute for Global Health, Barcelona, Spain

9:05 a.m.

ONE HEALTH ARBOVIRUS SURVEILLANCE IN AFRICA CAN INFORM PROSPECTS FOR TARGETED INTERVENTIONS TO PROTECT HUMANS

Rosemary Sang
International Center of Insect Physiology and Ecology (ICIPE) Kenya and Arbovirology/VHF Unit, Medical Research Institute (KEMRI), Kenya, Nairobi, Kenya

9:25 a.m.

WAYS TO USE IMMUNOLOGY TO COMBAT LEISHMANIA AND CANINE INFECTIONOUSNESS TO SAND FLIES

Max Waugh
Ohio State University, Columbus, OH, United States

Symposium 6

Back to Basics: The Essential Role of Basic Sciences in Clinical Tropical Medicine and Public Health

Convention Center - Room 353 (3rd Floor)
Thursday, November 14, 8 a.m. - 9:45 a.m.

There is a critical need for better integration between clinical and basic sciences to accomplish de-siloing of science and to better prepare clinicians and scientists to communicate the science behind and impact of both pharmaceutical and non-pharmaceutical interventions. Amidst the pandemic, it became increasingly clear that communication among basic and clinical scientists, as well as with patients, clients, decision-makers, and the public at-large must be improved. We must contextualize the role of basic and clinical science from hypothesis to improved outcomes in order to increase the efficacy and adoption of medical and public health interventions. The “soup-to-nuts” framework describes the scientific pipeline from the clinical problem (“what”) to the basic investigations to understand the significance of the problem (“why”) and to identify the mechanism(s) underlying the problem that lead to translational outcomes (“how”), and finally engagement with the public to increase trust in and adoption of medical and public health interventions (“impact”). While each talk will focus on a particular aspect of this framework, every talk will tell the full story of their scientific problem to cover the what-why-how-impact pipeline. The ultimate goal is to show – across

our stories and perspectives – how basic and clinical science are interdependent and must be integrated to effectively tackle problems in tropical medicine. The panel discussion will include a reverse Q&A to hear ASTMH community perspectives. #CellBiology #Genetics #Genomics #Immunology #InfectiousDisease

CHAIR

John H. Adams
University of South Florida, Tampa, FL, United States

Mahalia Desruisseaux
Yale University School of Medicine, New Haven, CT, United States

8 a.m.

INTRODUCTION

8:10 a.m.

FRAMING THE PIPELINE

John H. Adams
University of South Florida, Tampa, FL, United States

8:15 a.m.

CYSTICERCOSIS IN PERU

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

8:30 a.m.

IMMUNOPATHOGENESIS IN CUTANEOUS LEISHMANIASIS: FROM MICE TO HUMANS

Fernanda Novais
The Ohio State University, Columbus, OH, United States

8:45 a.m.

MONITORING PATHOGEN GENOMICS TO INFORM PUBLIC HEALTH POLICY

Shannon Takala Harrison
University of Maryland, Baltimore, MD, United States

9 a.m.

HOW CITIZEN SCIENCE ENGAGES THE PUBLIC - FOLLOWED BY OPEN DISCUSSION OF SPEAKERS AND AUDIENCE PARTICIPANTS

Saravanan Thangamani
SUNY Upstate Medical University, Syracuse, United States

Mahalia S. Desruisseaux
Yale University School of Medicine, New Haven, CT, United States

Symposium 7

Preliminary Results from The Enterics for Global Health (EFGH) Shigella Surveillance Study- Preparing for Shigella Vaccine Trials in the Target Population of Young Children Living in Low and Middle-Income Countries

Convention Center - Room 354/355 (3rd Floor)
Thursday, November 14, 8 a.m. - 9:45 a.m.

In low- and middle-income countries, nearly one third of children experience at least one episode of *Shigella*-attributable diarrhea during their first 2 years of life. In addition to it being a leading cause of diarrhea, this enteric bacterium is also associated with linear growth faltering, a precursor to stunting. Stunting is a

marker of vulnerability to childhood infection, decreased vaccine efficacy and lifelong morbidity. Currently, several promising *Shigella* vaccines are in development with a Phase 3 licensure trial on the 2-5 year horizon. Eventual *Shigella* vaccine trials will require a consortium of potential vaccine trial sites in settings with a high incidence of *Shigella*-attributed medically-attended diarrhea, high participant retention, and the laboratory capacity to confirm *Shigella* infection. The Enterics for Global Health (EFGH) *Shigella* surveillance study (ClinicalTrials.gov NCT06047821) employs cross-sectional and longitudinal study designs to establish updated incidence rates and document consequences of *Shigella* diarrhea within 7 country sites in Africa, Asia, and Latin America. Over a two-year period from 2022-2024, the EFGH study is enrolling 9,800 children (1,400 per country site) between 6-35 months with medically-attended diarrhea and following them for three months. Detailed clinical information including diarrhea severity indicators combined with microbiologic culture with antibiotic susceptibility testing and quantitative PCR, both with serotyping assays, will enable incidence rate calculations for sample size calculations utilizing various primary clinical and microbiologic endpoint definitions in eventual vaccine trials. Follow-up, including anthropometric measurements and diarrhea duration and recurrence ascertainment as well as costing information will provide critical data to the value proposition of a *Shigella* vaccine. Through this multi-country surveillance network, select EFGH sites will be ready to quickly implement rigorous and efficient vaccine trials and provide critical data to policy makers about the relative importance of this vaccine-preventable disease, accelerating the time to vaccine availability and uptake among children in high *Shigella* burden settings. In this symposium, comprised of short oral presentations and a panel discussion, we will present interim results from the EFGH study. #ChildHealth #InfectiousDisease #MNCH

CHAIR

Patricia Pavlinac
University of Washington, Seattle, WA, United States

Firdausi Qadri
International Centre for Diarrhoeal Disease Research, Bangladesh (icddr), Dhaka, Bangladesh

8 a.m. INTRODUCTION

8:10 a.m. ENTERICS FOR GLOBAL HEALTH (EFGH)– RATIONALE, STUDY DESIGN, AND GOVERNANCE STRUCTURE

Richard Omere
Kenya Medical Research Institute, Kisumu, Kenya

8:25 a.m. SEROTYPE-SPECIFIC *SHIGELLA* INCIDENCE RATE BY TRADITIONAL CULTURE AND QUANTITATIVE PCR AND VARIOUS SEVERITY DEFINITIONS-IMPLICATIONS FOR POWERING VACCINE TRIALS

Jen Cornick
Malawi Liverpool Wellcome Programme, Blantyre, Malawi

8:40 a.m. ANTIMICROBIAL RESISTANCE IN *SHIGELLA* AND IMPLICATIONS FOR THE FUTURE OF DIARRHEAL MANAGEMENT

Jane Juma
Center for Vaccine Development (CVD) -Mali, Bamako, Mali

8:55 a.m. ADDING TO THE VALUE PROPOSITION OF A *SHIGELLA* VACCINE: *SHIGELLA* CONSEQUENCES BEYOND DIARRHEA

Margaret Kosek
University of Virginia, Charlottesville, VA, United States

9:10 a.m. COST OF *SHIGELLA* DIARRHEA-IMPLICATIONS FOR GENERATING DEMAND FOR *SHIGELLA* VACCINES AND EVENTUAL COST EFFECTIVENESS CALCULATIONS

Jahangir Hossain
Medical Research Council Unit The Gambia (MRCG), Fajara, Gambia

9:25 a.m. CLINICAL PRESENTATION OF *SHIGELLA* AND OTHER DIARRHEA ETIOLOGIES AND RELEVANCE TO GLOBAL ETIOLOGY-SPECIFIC DIARRHEA ESTIMATES

Farah Qamar
Aga Khan University, Karachi, Pakistan



Symposium 8

ASTMH Committee on Global Health (ACGH) Symposium I: Strengthening Health System Resilience for Pandemic Preparedness and Response: A Multifaceted Approach

Convention Center - Room 356 (3rd Floor)
Thursday, November 14, 8 a.m. - 9:45 a.m.

This session does not carry CME credit.

The COVID-19 pandemic has highlighted the urgent need for resilient and equitable health systems that are able to better prepare and effectively respond to future pandemics. The proposed symposium aims to provide a forum for engaging discussions among global health scientists, pharmaceutical scientists, policymakers, and other key stakeholders to discuss the role of health system strengthening on pandemic preparedness, response, and resilience from various perspectives. The symposium will explore innovative strategies for investments in healthcare infrastructure, including therapeutics, diagnostics and vaccines needed for a resilient and adaptable healthcare infrastructure. Furthermore, the symposium will discuss the importance of a skilled and adaptable healthcare workforce and building mental resilience among healthcare professionals in the context of pandemic preparedness and response. In addition, we will discuss mechanisms for implementing robust data, surveillance and disease intelligence systems for data collection, analysis, and information sharing for early detection and monitoring of pandemics, leveraging statistical and mathematical modeling, artificial intelligence, and big data. The symposium will also emphasize research development and innovation, particularly in drug and vaccine development, diagnostics, and treatments. Global policy and governance in pandemic response

will be another critical topic, aiming at discussing existing global health governance models and whether they are fit for purpose in ensuring equitable pandemic preparedness. This will examine power balances and ethical resource allocation, ensuring universal access to health innovations, treatment, and preventive interventions. The symposium is set to be a call to action for global health efforts to strengthen health systems. Through sharing knowledge, the outputs of the symposium will contribute to the discourse on world's resilience and preparedness for future global health threats. The format of the symposium will involve a panel discussion with experts, guided by questions from a moderator and the audience. #Pandemic Preparedness #Health System Resilience #Global Health Governance #Healthcare Innovation

CHAIR

Yazoume Ye

CESMEL Health, Bowie, MD, United States

Miguel Reina Ortiz

Indiana University, Indianapolis, IN, United States

8 a.m.

INTRODUCTION

8:10 a.m.

ROLE OF DOCTORAL-LEVEL LEADERSHIP DEVELOPMENT ON GLOBAL HEALTH AND GLOBAL HEALTH DIPLOMACY AS A TOOL FOR STRENGTHENING HEALTH SYSTEMS RESILIENCE FOR PANDEMIC PREPAREDNESS, MITIGATION, AND RESPONSE.

Miguel Reina Ortiz

Indiana University, Indianapolis, IN, United States

8:25 a.m.

DISCUSS RESEARCH AND DEVELOPMENT - DRUG R&D '101' FOR VIRAL THREATS WITH PANDEMIC POTENTIAL

Nadine Jarrousse

Novartis Institutes for BioMedical Research, San Francisco, CA, United States

8:40 a.m.

ENHANCING PANDEMIC PREPAREDNESS WITH ROBUST DATA SYSTEMS: INCORPORATING SURVEILLANCE AND DISEASE INTELLIGENCE WITH STATISTICAL AND MATHEMATICAL MODELING

Bobby Reiner

Institute for Health Metrics and Evaluation/Schools of Medicine at the University of Washington, Seattle, WA, United States

8:55 a.m.

THE ROLE OF RESEARCH INSTITUTIONS IN STRENGTHENING HEALTH SYSTEMS FOR ENHANCED PANDEMIC PREPAREDNESS IN AFRICA

Catherine Kyobutungi

APHRC, Nairobi, Kenya

9:10 a.m.

ACGH ANNUAL BUSINESS MEETING

9:25 a.m.

NETWORKING RECEPTION

Symposium 9

Interrupting the Transmission of Soil Transmitted Helminths: Results and Implications of the DeWorm3 Trial

Convention Center - Room 357 (3rd Floor)

Thursday, November 14, 8 a.m. - 9:45 a.m.

This session does not carry CME credit.

The DeWorm3 Trial was a large multi-country hybrid community cluster randomized trial designed to evaluate the feasibility of interrupting the transmission of soil-transmitted helminths (STH) using sustained community-wide MDA. The study included approximately 300,000 individuals across population-based sites in Benin, India and Malawi. Each study area was divided into 40 clusters and clusters were randomized to community-wide or standard-of-care targeted MDA for three years. Two years following the final round of MDA, prevalence of STH was compared between arms and transmission interruption assessed in each cluster. To support this study, a high-throughput molecular diagnostics platform was built that included laboratories in Benin, India and the United States. The results of this comprehensive rigorous trial are now available. This symposium will provide an opportunity for the principal investigators of the DeWorm3 trial sites in Benin, India and Malawi to present a summary of the trial results (including implementation science objectives), the potential of programs to reach high coverage of community-wide MDA across multiple consecutive rounds, and to highlight the use of molecular diagnostics at scale to assess STH prevalence. In addition, there will be a panel discussion to discuss the scientific and programmatic implications of these important data. Key learning objectives for this session include; 1) To understand the baseline prevalence of STH across multiple geographies assessed using standardized microscopic and molecular diagnostics, 2) to understand pathways to achieve exceptionally high coverage of MDA within STH programs, 3) to review the results of the trial to determine the feasibility of interrupting STH transmission and to 4) to understand the potential utility of high quality molecular diagnostics to support existing and future STH program goals. #Elimination #Epidemiology #FieldStudies #InfectiousDisease #MNCH

CHAIR

Judd L. Walson

Johns Hopkins University, Baltimore, MD, United States

Sitara S. Ajampur

Christian Medical College and Hospital, Tamil Nadu, India

8 a.m.

INTRODUCTION

8:10 a.m.

MOLECULAR TESTING TO ENHANCE STH PROGRAM DELIVERY

Malathi Manuel

Christian Medical College, Vellore, India

8:20 a.m.

ACHIEVING AND SUSTAINING HIGH COMMUNITY-WIDE MDA

Khumbo Kalua

Blantyre Institute for Community Outreach, Blantyre, Malawi

8:30 a.m.

DEWORM3 TRIAL RESULTS

Kristjana Ásbjörnsdóttir

University of Iceland, Reykjavik, Iceland

8:45 a.m.

IMPLEMENTATION SCIENCE METHODS TO ASSESS MDA

Euripide F. G. A. Avokpaho

Institut de Recherche Clinique du Benin, Abomey-Calavi, Benin

8:55 a.m.

CORRELATES OF COVERAGE AND IMPACT

Stefan Witek-McManus

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

Scientific Session 10

Viruses - Immunology

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

Thursday, November 14, 8 a.m. - 9:45 a.m.

#Immunology #InfectiousDisease

CHAIR

Rosemary A. Aogo

National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

Laura Rivino

University of Bristol, Bristol, United Kingdom

8 a.m.

6007

DYNAMICS OF DENGUE VIRUS-REACTIVE B CELLS IN PEDIATRIC CASES FROM A HOSPITAL STUDY IN NICARAGUA

Tulika Singh¹, Amir Balakhmet¹, Rohan Shinkre¹, Nharae Lee¹, Aaron Graber¹, Raul Zapata², Walter Brenes², Angel Balmaseda³, Eva Harris¹

¹Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, ²Sustainable Sciences Institute, Managua, Nicaragua, ³Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua

8:15 a.m.

6008

ORDER MATTERS: DENV2-ZIKV AND ZIKV-DENV2 SEQUENTIAL INFECTIONS DIFFERENTIALLY MODULATE THE MAGNITUDE AND BREADTH OF HOMOTYPIC AND DENV CROSS-REACTIVE ANTIBODY RESPONSES

Sandra Bos¹, Elias Duarte¹, Nharae Lee¹, Jose Victor Zambrana², Aaron Graber¹, Angel Balmaseda³, Eva Harris¹

¹Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, ²Department of Epidemiology, School of Public Health, University of Michigan, Ann Arbor, MI, United States, ³Sustainable Sciences Institute, Managua, Nicaragua

8:30 a.m.

6009

MECHANISTIC MODELING OF HOST-VIRAL INTERACTIONS TO ELUCIDATE IMMUNE MECHANISMS UNDERPINNING DISPARATE RESPONSES TO DENGUE VIRUS INFECTION BY PRIOR EXPOSURE HISTORY

Rosemary A. Aogo¹, Kelsey E. Lowman¹, Chloe M. Hasund¹, Charlie Voirin¹, Gitanjali Bhushan¹, Patrick I. Mpingabo¹, Saba Firdous¹, Silvia Blanco-Rivera¹, Melissa Law¹, Daniela Weiskopf², Viviane Callier³, Sally Hunsberger⁴, Robbie Kattappuram⁵, Jeffrey R. Strich⁶, Heather L. Teague⁶, Lauren Knabe⁶, Jeffery I. Cohen⁷, Anna Durbin⁸, Stephen S. Whitehead⁹, Camila D. Odio¹, Leah C. Katzelnick¹

¹Viral Epidemiology and Immunity Unit, Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ²Department of Medicine, Division of Infectious Diseases and Global Public Health, University of California San Diego (UCSD), La Jolla, CA, United States, ³Clinical Monitoring Research Program Directorate, Frederick National Laboratory for Cancer Research, Bethesda, MD, United States, ⁴Division of Clinical Research, Biostatistics Research Branch, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ⁵Department of Pharmacy, NIH Clinical Center, National Institutes of Health, Bethesda, MD, United States, ⁶Critical Care Medicine Department, National Institutes of Health Clinical Center, Bethesda, MD, United States, ⁷Medical Virology Section, Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ⁸Johns Hopkins Bloomberg School of Public Health, Department of International Health, Baltimore, MD, United States, ⁹Arbovirus Vaccine Research Section, Laboratory of Viral Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

8:45 a.m.

6010

IMMUNOLOGICAL FEATURES ASSOCIATED WITH SEVERE DENGUE IN CHILDREN AND YOUNG ADULTS WITH OBESITY AND NORMAL WEIGHT

Michaela Gregorova¹, Marianna Santopaolo¹, Divya Diamond¹, Vi Tran Thuy², Nguyet Nguyen Minh², Vuong Nguyen Lam², Hoa Vo Thi My², Chanh Ho Quang², Chau Nguyen Thi Xuan², Tam Dong Thi Hoai², Duyen Huynh Thi Le², Tam Cao Thi³, Sophie Yacoub², Laura Rivino¹

¹University of Bristol, Bristol, United Kingdom, ²OUCRU, HCMC, Vietnam, ³Hospital of Tropical Diseases, HCMC, Vietnam

9 a.m.

6011

NEW INSIGHTS INTO AN OLD VACCINE: HETEROLOGOUS FLAVIVIRUS INFECTION ENHANCES THE POTENCY AND BREADTH OF 17D-ELICITED NEUTRALIZING ANTIBODIES AGAINST A PANEL OF WILD-TYPE YELLOW FEVER VIRUSES

Felicity J. Coulter, Abram E. Estrda, Samantha R. Osman, Shuhua Luo, Courtney A. Micheletti, Peter D. Sullivan, Brian L. Booty, William B. Messer
Oregon Health & Science University, Portland, OR, United States

9:15 a.m.

6012

PROTECTIVE VACCINATION OF NONHUMAN PRIMATES AGAINST AEROSOL EXPOSURE TO MARBURG VIRUS USING A VESICULAR STOMATITIS VIRUS-VECTORED VACCINE: IMPLICATIONS FOR MUCOSAL VACCINE STRATEGIES AND UNPREDICTABLE FILOVIRUS TRANSMISSION

Christopher L. Cooper¹, Gavin Morrow¹, Thomas Postler¹, Yesle Choi¹, Aaron Wilson¹, Zhou Liu¹, Karina Peregrina¹, Fuxiang Hou¹, Shui Li¹, Suzane Ramos da Silva¹, Denise Wagner¹, Alexei Carpov¹, Michal Gazi², Yenny Goez-Gazi², Kendra J. Alfson², Ricardo Carrion², Anne Ercolini¹, Nina Malkevich³, Mark B. Feinberg³, Swati B. Gupta³, Christopher L. Parks¹

¹Vaccine Design and Development Laboratory, The International AIDS Vaccine Initiative, Inc. (IAVI), Brooklyn, NY, United States, ²Applied Science & Innovation, Texas Biomedical Research Institute, San Antonio, TX, United States, ³The International AIDS Vaccine Initiative, Inc. (IAVI), New York, NY, United States

Thursday
November 14

9:30 a.m. Lightning Talks

(Lightning Talks are two-minute talks to highlight abstracts assigned to poster presentations.)

6253

ACCURACY OF PHYSICIANS' CLINICAL DIAGNOSIS OF DENGUE AMONG PATIENTS PRESENTING TO EMERGENCY ROOMS – PUERTO RICO, 2012-2022

Joshua M. Wong¹, Zachary J. Madewell¹, Alfonso Hernandez-Romieu², Janice Perez-Padilla¹, Liliana Sánchez-González¹, Diego Sainz³, Jorge Bertran³, Jorge Munoz¹, Vanessa Rivera-Amill⁴, Gabriela Paz-Bailey¹, Laura E. Adams¹

¹Centers for Disease Control, San Juan, PR, United States, ²Centers for Disease Control, Atlanta, GA, United States, ³Auxilio Mutuo Hospital, San Juan, PR, United States, ⁴Ponce Health Science University, Ponce, PR, United States

7866

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

Nharae Lee¹, Tulika Singh¹, Rohan Shinkre¹, Nethra Koushik¹, Aaron Graber¹, Elias Duarte¹, Sandra Bos¹, José Victor Zambrana², Cesar Narvaez³, Sonia Arguello⁴, Federico Narvaez³, Angel Balmaseda⁵, Eva Harris¹

¹Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, ²Department of Epidemiology, School of Public Health, University of Michigan, Ann Arbor, MI, United States, ³Hospital Infantil Manuel de Jesus Rivera, Managua, Nicaragua, ⁴Sustainable Sciences Institute, Managua, Nicaragua, ⁵Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua

7869

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

Henry Nelson Puerta Guardo¹, Manuel Alejandro Parra Cardaña¹, Gloria Barrera Fuentes¹, Oscar D. Kirstein², Azael David Che Mendoza¹, K. Jacqueline Ciau¹, J. Kevin Yam¹, Mathew Collins³, Daniel Espinoza³, Pablo Manrique Saide¹, Norma Pavia Ruz¹, Guadalupe Ayora Talavera¹, Gonzalo Vazquez Prokopec⁴, James Earnest⁴

¹Universidad Autónoma de Yucatán, Mérida, Mexico, ²Dep. of Environmental Sciences, Emory University, Atlanta, GA, United States, ³Division of Infectious Diseases, Department of Medicine, Emory University, Atlanta, GA, United States, ⁴Department of Environmental Sciences, Emory University, Atlanta, GA, United States

6294

DELETIONS IN THE 3' UNTRANSLATED REGION COMPROMISED TRANSLATION INITIATION TO ATTENUATE A DENGUE VIRUS 3 VACCINE STRAIN

Kiven Kumar, Esteban Finol, Hwee Cheng Tan, Wy Ching Ng, Eng Eong Ooi
DUKE-NUS Medical School, Singapore, Singapore

6295

CROSS-NEUTRALIZING ANTIBODY RESPONSES ELICITED BY THE CHIKUNGUNYA VACCINE VLA1553

Whitney C. Weber¹, Zachary J. Strebblow¹, Craig N. Kreklywich¹, Michael Denton¹, Gauthami Sulgey¹, Magdalene M. Strebblow¹, Dorca Marciano², Paola N. Flores², Rachel M. Rodriguez-Santiago², Luisa Alvarado², Vanessa Rivera-Amill², William B. Messer³, Romana Hochreiter⁴, Karin Kosulin⁴, Katrin Dubischar⁴, Vera Bürger⁴, Daniel N. Strebblow¹

¹Oregon Health and Science University, Beaverton, OR, United States, ²Ponce Health Sciences University, Ponce, Puerto Rico, ³Oregon Health and Science University, Portland, OR, United States, ⁴Valneva Austria GmbH, Vienna, Austria

Scientific Session 11

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

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

Thursday, November 14, 8 a.m. - 9:45 a.m.

This session does not carry CME credit.

#FieldStudies #PopulationSurveillance

CHAIR

Heidi Goethert

Tufts University School of Veterinary Medicine, North Grafton, MA, United States

Nikos Vasilakis

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

8 a.m.

6013

FIRST, DO NO HARM: FIELD EVALUATION OF AN INDEPENDENT RIFT VALLEY FEVER VACCINATION CAMPAIGN AND THE IMPACT ON PREGNANT LIVESTOCK IN A SEMI-PASTORAL AREA IN KENYA

Keli N. Gerken¹, Abraham Rereu², Fredrick Sururu³, Alice Kiyong'a⁴, Cynthia M. McMillen⁵, Amy L. Hartman⁶, Bernard Bett⁴, Andrew P. Stringer⁷, Matthew Baylis⁷, Eric M. Fèvre¹

¹International Livestock Research Institute, Nairobi, Kenya and Institute of Infection, Veterinary and Ecological Sciences, University of Liverpool, Liverpool, United Kingdom, ²Liverpool, United Kingdom, ³Loitokitok Sub-County Department of Veterinary Services, Kajiado County, Kenya, Loitokitok, Kenya, ⁴Loitokitok Sub-County Department of Veterinary Services, Kajiado County, Kenya, Liverpool, United Kingdom, ⁵International Livestock Research Institute, Nairobi, Kenya, ⁶Department of Microbiology and Molecular Genetics, Center for Vaccine Research, University of Pittsburgh, Pittsburgh, PA, United States, ⁷Department of Microbiology and Molecular Genetics, Center for Vaccine Research, University of Pittsburgh, Pittsburgh, PA, United States, ⁸Institute of Infection, Veterinary and Ecological Sciences, University of Liverpool, Liverpool, United Kingdom, Liverpool, United Kingdom

8:15 a.m.

6014

USING A ONE HEALTH APPROACH IN INVESTIGATING A LYMEAN-CONGO HEMORRHAGIC FEVER OUTBREAK IN LYANTONDE DISTRICT, UGANDA 2024

Luke Nyakararuka¹, Sophia Mulei¹, Joanita Mutesi¹, Jimmy Baluku¹, Alex Tumusiime¹, Jackson Kyondo¹, Calvin R. Torach¹, Dianah Namanya¹, Stephen K. Balinandi¹, Trevor Shoemaker², John Klena², Joel Montgomery², Julius Lutwama¹

¹Uganda Virus Research Institute, Kampala, Uganda, ²United States Centers for Disease Control and Prevention, Atlanta, GA, United States

8:30 a.m.

6015

AN EPIZOOTIC OF DEER TICK VIRUS ON MARTHA'S VINEYARD DUE TO AMPLIFICATION OF A SINGLE VIRAL GENOTYPE

Heidi Goethert¹, Alanna O'Callahan¹, Richard Johnson², Sam Telford¹

¹Tufts Cummings School of Veterinary Medicine, Grafton, MA, United States, ²Martha's Vineyard Tick Initiative, Edgartown, MA, United States

8:45 a.m.

6016

GENOMIC SURVEILLANCE OF TICK AND MOSQUITO POOLS FROM GEORGIA (SOUTH CAUCASUS), SCREENED FOR VIRUSES ASSOCIATED WITH ACUTE FEBRILE ILLNESSES

Chanel A. Mosby-Tourtellot¹, Quinn K. Thomas², Adrian C. Paskey², J. Alex Chitty²,

Andrea E. Luquette², Maren C. Fitzpatrick², Jennetta Green³, Maggie Bartlett⁴, Danielle Ali⁴, Malik Kadir⁴, Drew D. Reinbold-Wasson⁵, Tamar Chunashvili⁵, Giorgi Kirkitadze⁵, Anano Shubashishvili⁵, Gregory K. Rice², Regina Z. Cer³, Francisco Malagon², Darci R. Smith³, Kimberly A. Bishop-Lilly³

¹Defense Threat Reduction Agency, Fort Belvoir, VA, United States, ²Leidos, Reston, VA, United States, ³Naval Medical Research Command, Fort Detrick, MD, United States, ⁴Parsons Corporation, Centreville, VA, United States, ⁵Walter Reed Army Institute of Research Europe – Middle East, Tbilisi, Georgia

9 a.m.

6017

THE BAT BUSHMEAT TRADE AS AN INTERFACE FOR FILOVIRUS AND HENIPAVIRUS SPILLOVER IN THE REPUBLIC OF CONGO

McKenna Roe¹, Eeva Kuisma², Evrard Missamou², Alain Ondzie², Chastel Mapanguy³, Providence Sita³, Robert J Fischer⁴, Claude Kwe Yinda⁴, Morgane Courmarie², Diane Detoouf², Francine Ntoumi³, Eric Laing¹, Vincent J. Munster⁵, Sarah H. Olson²

¹Department of Microbiology and Immunology, Uniformed Services University, Bethesda, MD, United States, ²Wildlife Conservation Society, New York, NY, United States, ³Fondation Congolaise pour la Recherche Médicale (FCRM), Brazzaville, Republic of the Congo, ⁴Laboratory of Virology, Division of Intramural Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Hamilton, MT, United States, ⁵Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Hamilton, MT, United States

9:15 a.m.

6018

NEXT-GENERATION SEQUENCING SURVEY OF ACUTE FEBRILE ILLNESS IN SENEGAL (2020-2022)

Gregory S. Orf¹, Ambroise D. Ahoudi², Maximillian Mata¹, Cyrille Diedhiou², Aminata Mboup², Abdou Padane², Noel Magloire Manga³, Agbogbenkou Tevi Dela-del Lawson⁴, Francisco Averhoff¹, Michael G. Berg¹, Gavin A. Cloherty¹, Souleymane Mboup²

¹Abbott Laboratories, Abbott Park, IL, United States, ²Institut de Recherche en Santé, de Surveillance Épidémiologique et de Formation, Dakar, Senegal, ³Hôpital de la Paix, Ziguinchor, Senegal, ⁴Hôpital Mame Abdou Aziz Sy Dabakh, Tivaouane, Senegal

9:30 a.m.

6019

INVESTIGATION OF YELLOW FEVER VIRUS, VECTOR AND HOST NETWORK IN THE METROPOLITAN REGION OF MINAS GERAIS, BRAZIL IN 2023, INDICATES THE CONTINUED CIRCULATION OF YELLOW FEVER VIRUS

Matheus Soares Arruda¹, Daniel C. Jacob¹, Mikaelly F. Testa¹, Marcelle Alves de Oliveira¹, Ana Maria Paschoal¹, Gabriel Dias Moreira¹, Anna Catarina D.S. Guimarães¹, Natália Lima Pessoa¹, Gabriela Fernanda Garcia Oliveira¹, Thais Alkifeles Costa¹, Samantha S F M Viegas¹, Daniel A. Rocha Vilela², Marina do Vale Beirão¹, Kathy A. Hankey³, Nikos Vasilakis⁴, Betânia Paiva Drumond¹

¹Federal University of Minas Gerais, Belo Horizonte, Brazil, ²IBAMA, Belo Horizonte, Brazil, ³New Mexico State University, Las Cruces, NM, United States, ⁴University of Texas - Medical Branch, Galveston, TX, United States

Scientific Session 12

Malaria: Transmission Biology

Convention Center - Room 391/392 (3rd Floor)

Thursday, November 14, 8 a.m. - 9:45 a.m.

#Therapeutics #CellBiology #MolecularBiology
#HostResponse #Genomics

CHAIR

Matthias Marti
University of Zurich, Zurich, Switzerland

Priscilla Adjei-Kusi
Centre for Collaborative Research in Tropical Medicine (KCCR), Kumasi, Ghana

8 a.m.

6020

DYNAMICS AND REGULATION OF SEXUAL COMMITMENT IN *PLASMODIUM FALCIPARUM*

Surendra K. Prajapati¹, Jeffrey X. Dong¹, Kim C. Williamson²

¹Uniformed Services University of the Health Sciences and Henry M Jackson Foundation for the Advancement of Military Medicine, Inc., Bethesda, MD, United States, ²Uniformed Services University of the Health Sciences, Bethesda, MD, United States

8:15 a.m.

6021

SPECIALIZED SPOROZOITE-TYPE RIBOSOMES IN *PLASMODIUM YOELII* DRIVE INITIAL RAPID ASEXUAL BLOOD STAGE GROWTH AND SEXUAL DEVELOPMENT

James P. McGee¹, Sylvie Briquet², Olivier Silvie², Scott E. Lindner¹

¹Pennsylvania State University, University Park, PA, United States, ²Centre d'Immunologie et des Maladies Infectieuses, INSERM, CNRS, CIMI-Paris, Sorbonne Université, Paris, France

8:30 a.m.

6022

IDENTIFICATION OF NOVEL ANTI GAMETOCYTE TRANSMISSION BLOCKING VACCINE TARGETS

Fiona Angrisano¹, Hayley Bullen¹, Amelia Ford², Katarzyna Sala³, Andrew Blagborough²

¹Burnet Institute, Melbourne, Australia, ²Cambridge University, Cambridge, United Kingdom, ³Imperial College, London, United Kingdom

8:45 a.m.

6023

LOSS OF FUNCTION OF THE *PLASMODIUM FALCIPARUM* PROLINE TRANSPORTER *PFAP1AT2* MEDIATES HALOFUGINONE RESISTANCE BUT RESULTS IN OOCYST DEVELOPMENTAL DYSFUNCTION

Malhar Khushu¹, Lola Fagbami², Alexandra Probst¹, Tasneem Rinvee¹, Robert Summers¹, Amanda K. Lukens³, Flaminia Catteruccia⁴, Dyann Wirth³, Selina Bopp¹

¹Harvard T. H. Chan School of Public Health, Boston, MA, United States, ²Harvard T. H. Chan School of Public Health/Metabolomics Platform, Broad Institute, Boston/Cambridge, MA, United States, ³Harvard T. H. Chan School of Public Health/Infectious Disease and Microbiome Program, Broad Institute, Boston, MA, United States, ⁴Harvard T. H. Chan School of Public Health/Howard Hughes Medical Institute, Boston, MA, United States

9 a.m.

6024

PARTIAL CLEARANCE OF PRE-ESTABLISHED *PLASMODIUM FALCIPARUM* INFECTION IN MOSQUITOES BY MIMICKING A BLOODMEAL ON TREATED PATIENTS WITH ARTEMETHER+LUMEFANTRINE + ATOVAQUONE-PROGUANIL

Priscilla Adjei-Kusi¹, Serge Rakiswendé Yerbanga², Thierry Lefèvre³, Esi Bart-Plange¹, Esther Naadu Placca¹, Melvin Agbogbately¹, John Asiedu Larbi⁴, John Amuasi¹, Jerome Clain⁵, Oumou Maiga Ascofaré⁶, Anna Cohuet³, ASAAP Consortium –⁷

¹Kumasi Centre for Collaborative Research in Tropical Medicine (KCCR), Kumasi, Ghana, ²Institut des Sciences et Techniques (INSTech - BOBO), Bobo-Dioulasso, Burkina Faso, ³MIVEGEC, Université de Montpellier, IRD, CNRS, Montpellier, France, ⁴Department of Theoretical and Applied Biology, College of Science, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana, ⁵Université de Paris Cité, UMR 261 MERIT, Paris, France, ⁶Department of Infectious Disease Epidemiology, Bernhard Nocht Institute for Tropical Medicine (BNITM), Hamburg, Germany, ⁷–, VA, United States

9:15 a.m.

6025

UNRAVELING THE JOURNEY OF *PLASMODIUM FALCIPARUM* PARASITES INSIDE THEIR MOSQUITO VECTOR AT THE SINGLE CELL RESOLUTIONYan Yan¹, Elaine Cheung¹, Lisa H. Verzier¹, Duo Peng², Federico Appetecchia¹, Tasneem A. Rinvee¹, Esrah Du¹, Alexandra S. Probst¹, Naresh Singh¹, W. Robert Shaw³, Flaminia Catteruccia³¹Harvard TH Chan School of Public Health, Boston, MA, United States, ²The Chan Zuckerberg Biohub, San Francisco, CA, United States, ³Harvard TH Chan School of Public Health & Howard Hughes Medical Institute, Boston, MA, United States

9:30 a.m.

6026

DEFINING TRANSCRIPTIONAL SIGNATURES OF *PLASMODIUM FALCIPARUM* HEMATOPOIETIC INFECTION AT THE SINGLE CELL LEVELBarbara Stokes¹, Fiona Achcar¹, Charles Ndovi², James Nyirenda², Priscilla Ngotho¹, Edward Agboraw¹, Thomas Otto¹, Christopher Moxon², Matthias Marti¹¹University of Glasgow, Glasgow, United Kingdom, ²Malawi Liverpool Wellcome Clinical Research Programme, Blantyre, Malawi**Scientific Session 13****Malaria: Surveillance and Data Use**

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

Thursday, November 14, 8 a.m. - 9:45 a.m.

#Elimination #Genomics #PopulationSurveillance
#TranslationalScience**CHAIR**

Ruth Ashton

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

Julien Aissan

Benin National Malaria Control Program, Cotonou, Benin

8 a.m.

6027

ENHANCING MALARIA DATA QUALITY IN BENIN: IMPACT OF MONTHLY DATA VALIDATION AND DEATH DATA AUDITJulien Aissan¹, Cyriaque Affoukou¹, Achille Batonon¹, Raoul Oloukoi², Virgile Gnanouenon², Pascal Zinzindohoue², Achille Couao-Zotti¹, Christian Godjo¹, Koffi Emmanuel Yovo³, Michael Humes⁴, Ashley Garley⁴, John Bernon⁴¹Benin National Malaria Control Program, Cotonou, Benin, ²U.S. President's Malaria Initiative, USAID, Cotonou, Benin, ³Clinton Health Access Initiative (CHAI), Cotonou, Benin, ⁴U.S. President's Malaria Initiative, USAID, Washington, DC, United States

8:15 a.m.

6028

ICCM COMMUNITY HEALTH WORKERS AND THEIR IMPACT ON SEVERE MALARIA AND MALARIA MORTALITY IN LUAPULA PROVINCE, ZAMBIA'S HIGHEST MALARIA BURDEN PROVINCE, 2016-2023Melody N. Simataa¹, Webby Phiri¹, Ellen Ferris², Sarah Shankwaya¹, Mulakwa Kamuliwo³, Chabu Kangale¹, Bupe M. Kabamba¹, Marie-Reine I. Rutagwera¹, Caroline Phiri-Chibawe¹, Jennifer Somtore⁴, Busiku Hamainza⁵¹PATH PAMO Plus, Lusaka, Zambia, ²PATH, Seattle, WA, United States, ³Jhpiego, Lusaka, Zambia, ⁴U.S. President's Malaria Initiative, Lusaka, Zambia, ⁵Zambia Ministry of Health National Malaria Elimination Centre, Lusaka, Zambia

8:30 a.m.

6029

ANTENATAL CARE SURVEILLANCE FOR MONITORING PREVALENCE AND COVERAGE OF INSECTICIDE-TREATED NETS—A MULTI-COUNTRY ANALYSISAnna Munsey¹, Patrick G. T. Walker², Peder Digre³, Joseph Wagman⁴, Molly Robertson⁵, Joseph Hicks², Manzidou Alao⁶, Aurore Hounto⁷, Adama Gansane⁸, Siaka Debe⁹, Baltazar Candrinho⁹, Perpetua Uhomoihi¹⁰, Okefu Oyale Okoko¹⁰, Ruth Lemwayi¹¹, Sijenuu Aaron¹², Chabu Kangale¹³, Bupe Kabamba¹³, Julie R. Gutman¹, ANC Surveillance Working Group¹¹CDC, Atlanta, GA, United States, ²MRC Centre for Global Infectious Disease Analysis, School of Public Health, Imperial College, London, United Kingdom, ³PATH, Seattle, WA, United States, ⁴PATH, Washington, DC, United States, ⁵The Global Fund to Fight AIDS, Tuberculosis, and Malaria, Geneva, Switzerland, ⁶U.S. Presidents' Malaria Initiative Impact Malaria Project, Medical Care Development Global Health, Cotonou, Benin, ⁷Unité de Parasitologie/Faculté des Sciences de la Santé, Université d'Abomey, Calavi, Cotonou, Benin, ⁸Centre National de Recherche et Formation sur le Paludisme, Ouagadougou, Burkina Faso, ⁹National Malaria Control Program, Ministry of Health, Maputo, Mozambique, ¹⁰National Malaria Elimination Programme, Abuja, Nigeria, ¹¹Jhpiego, Dar es Salaam, United Republic of Tanzania, ¹²National Malaria Control Program, Dodoma, United Republic of Tanzania, ¹³PATH, Lusaka, Zambia

8:45 a.m.

6030

MALARIA SURVEILLANCE TO PREVENT THE RE-ESTABLISHMENT OF MALARIA IN MOBILITY DYNAMIC SETTING OF RAMREE TOWNSHIP IN MYANMARKhin Mon Mon¹, Wah Wah Thaw¹, Hnin Su Su Khin¹, Sway Min Htet¹, Nu Nu Khin², Gunawardena Dissanayake³, Ersin Topcuoglu⁴, Kyaw Myint Tun¹, Danielle Awabdeh⁴¹PMI Eliminate Malaria, University Research Co., LLC, Yangon, Myanmar, ²U.S. President's Malaria Initiative, USAID, Yangon, Myanmar, ³U.S. President's Malaria Initiative, USAID, Bangkok, Thailand, ⁴PMI Eliminate Malaria, University Research Co., LLC, Chevy Chase, MD, United States

9 a.m.

6031

DATA INTEGRATION FOR DECISION-MAKING: A MALARIA DATA DASHBOARD THAT MERGES ROUTINE SURVEILLANCE AND GENOMIC RESEARCH DATA WITH MODELED OUTPUTS FOR PROGRAMMATIC ACTION IN SENEGALKatherine E. Battle¹, Médoune NDiop², David Kong¹, Joshua L. Proctor¹, Emily K. Driano¹, Caitlin A. Bever¹, Punam Amratia³, Mouhamad Sy⁴, Bassirou Ngom⁴, Ibrahima Diallo², Doudou Sene², Dyann F. Wirth⁵, Sarah K. Volkman⁵, Daouda Ndiaye⁴¹Bill & Melinda Gates Foundation, Seattle, WA, United States, ²Programme National de Lutte contre le Paludisme, Dakar, Senegal, ³Malaria Atlas Project, Dar es Salaam, United Republic of Tanzania, ⁴Centre International de recherche, de formation en Genomique Appliquée et de Surveillance Sanitaire, Dakar, Senegal, ⁵Harvard T. H. Chan School of Public Health, Boston, MA, United States

9:15 a.m.

6032

FORECASTING GLOBAL NEED AND DEMAND FOR CRITICAL MALARIA COMMODITIES TO ANTICIPATE POTENTIAL MARKET DISRUPTIONSJessica Floyd¹, Monica Golumbeanu², Tasmin Symons³, Anna Trett¹, Punam Amratia³, Graziella Scudu¹, Ioana Ursu⁴, Salome Muchiri¹, Oliver J. Watson⁵, Abigail Ward¹, Tara Seethaler¹, Peter W. Gething³, Emilie Pothin², Aaron Woolsey¹¹Clinton Health Access Initiative, Boston, MA, United States, ²Swiss Tropical and Public Health Institute, Allschwil, Switzerland, ³Telethon Kids Institute, Perth, Australia, ⁴Innovative Vector Control Consortium, Liverpool, United Kingdom, ⁵Imperial College, London, United Kingdom

9:30 a.m.

Lightning Talks

(Lightning Talks are two-minute talks to highlight abstracts assigned to poster presentations.)

8052

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

Ousmane Oumou DIALLO¹, Ambroise Ouédraogo², Sebastian Rodriguez¹, Oumar Billa¹, Jean Pascal Sandwid², Jean Baptiste Ouedraougou², **Aissata Barry²**, Beatriz Galatas³, Noelle Samia¹, Jaline Gerardin⁴, Sidzabda C. B. Kompaoré²
¹Northwestern University, Evanston, IL, United States, ²Secrétariat Permanent pour l'élimination du Paludisme, Ouagadougou, Burkina Faso, ³Global Malaria Programme, World Health Organization, Geneva, Switzerland, ⁴Northwestern University, Chicago, IL, United States

6487

IMPROVING THE APPROACH TO MONITOR AND REPORT ON COVERAGE OF MALARIA INTERMITTENT PREVENTIVE TREATMENT IN PREGNANCY: TIME FOR A RETHINK

Donal Bisanzio¹, Raquel González², Cristina Enguita², Clara Menedez², **Richard Reithinger¹**
¹RTI International, Washington, DC, United States, ²ISGlobal, Hospital Clínic - Universitat de Barcelona, Barcelona, Spain

7326

IMPACT OF ROUTINE DATA QUALITY AUDITS (RDQA) IN IMPROVING DATA QUALITY AND MALARIA MANAGEMENT STANDARDS IN HEALTH FACILITIES IN THE DEMOCRATIC REPUBLIC OF CONGO (DRC)

Jicko Bondole¹, Aline Nkulu¹, Jimmy Anzolo¹, Rova Ratsimandisa¹, Michael Hainsworth², Arantxa Roca Feltre³, Hyacinthe Kaseya⁴, Alain Bokota⁴, Ghislain Kikunda⁴, Andre Kaseba⁴, Eric Mukomena⁴
¹PATH, Kinshasa, Democratic Republic of the Congo, ²PATH, Seattle, WA, United States, ³PATH, Maputo, Mozambique, ⁴National Malaria Control Program, Kinshasa, Democratic Republic of the Congo

8063

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

Jean René Randriasamimanana¹, Fanja Rakotomanana², Hoby Sitraka Ravelomampianina², Soafara Andrianome³, Antonia Stéphanie Rakotoniaina¹, Aline Mukerabirori¹, Aishling Thurow⁴, Jane Briggs⁴, Thomas Hall⁴, Luz Razafimbelo¹, Laurent Kapesa⁵
¹IMPACT Program, Management Sciences for Health, Antananarivo, Madagascar, ²Madagascar Medicines Regulatory Authority, Antananarivo, Madagascar, ³Madagascar Central Medical Store (SALAMA), Antananarivo, Madagascar, ⁴Management Sciences for Health, United States of America, Arlington, VA, United States, ⁵U.S. President's Malaria Initiative, United States Agency for International Development, Antananarivo, Madagascar

7320

MALARIA OUTBREAK INVESTIGATION IN THE ARID NORTHERN WAJIR COUNTY, KENYA, DEC 2023-FEB 2024

Diana Rose Wangari Mwaura¹, Megumi Itoh², Brian Sigu¹, Elizabeth N. Kileku¹, Rose Ajambo³, Ahmed Abade¹, Beatrice Machini⁴, James Kiarie⁴, James Sang⁴, Jane Githuku⁵, Maurice Owiny¹
¹Kenya Field Epidemiology and Laboratory Training Program (FELTP), Nairobi, Kenya, ²United States President's Malaria Initiative, United States Centers for Disease Control and Prevention, Nairobi, Kenya, ³Wajir County Health Department, Ministry of Health, Kenya, Wajir, Kenya, ⁴National Malaria Control Program, Ministry of Health, Nairobi, Kenya, ⁵Country Health Information Systems and Data Use, Nairobi, Kenya

Scientific Session 14

Pneumonia, Respiratory Infections and Tuberculosis I

Convention Center - Room 395/396 (3rd Floor)
Thursday, November 14, 8 a.m. - 9:45 a.m.

#Epidemiology #InfectiousDisease #Child Health #Vaccinology

CHAIR

Muhammad Imran Nisar
Aga Khan University, Karachi, Pakistan

Kevin Baker
Malaria Consortium, London, United Kingdom

8 a.m.

6033

TEMPORAL TRANSCRIPTOMICS UNRAVEL MOLECULAR SIGNATURES OF SEVERE COVID-19

Clinton Onyango¹, Ivy Hurwitz², Qiuying Cheng², Kristan Schneider², Douglas J. Perkins³
¹Maseno University, Maseno, Kenya, ²University of New Mexico Health Sciences Center, Albuquerque, NM, United States, ³University of New Mexico Health Sciences Center, Albuquerque, NM, United States

8:15 a.m.

6034

EVALUATING THE BURDEN OF RESPIRATORY TRACT INFECTIONS IN DECEASED IN KARACHI, PAKISTAN: A POST-PANDEMIC MORTALITY SURVEILLANCE ANALYSIS

Furqan Kabir¹, Raheel Allana¹, Sameer Belgaumi², Christina Arif¹, Saima Jamal¹, Sehrish Amir Ali¹, Saad B Omer², Abdul Momin Kazi¹
¹Aga Khan University, Hospital, Karachi, Pakistan, ²UT Southwestern Medical Center, Dallas, TX, United States

8:30 a.m.

6035

BIOMARKERS FOR PROGNOSTIC PREDICTION OF CHILDHOOD CLINICAL PNEUMONIA IN SUB-SAHARAN AFRICA

Isabelle Silber¹, Yasir Shitu Isa², Yekini Ajauoi Olatunji², Rasheed Salaudeen², Sarwar Golam², Galega Lobga², Megan Carelus¹, Patricia Hibberd¹, Edward F. Knol³, Grant Mackenzie⁴, Clarissa Valim¹
¹Boston University School of Public Health, Boston, MA, United States, ²MRC Unit, The Gambia at the London School of Hygiene & Tropical Medicine, Fajara, Gambia, ³Center of Translational Immunology and Department of Dermatology/Allergology, University Medical Center Utrecht, Utrecht, Netherlands, ⁴Department of Disease Control, Faculty of Infectious and Tropical Diseases, London School of Hygiene & Tropical Medicine, London, United Kingdom

8:45 a.m.

6036

THE EFFECT OF AZITHROMYCIN ON STREPTOCOCCUS PNEUMONIAE CARRIAGE AMONG KENYAN CHILDREN DISCHARGED FROM THE HOSPITAL

Tanya E. Libby¹, Angela Karani², J. Anthony G. Scott², Donald Akech², Benson Singa³, Kirkby Tickell¹, Doreen Rwigy³, Kevin Kariuki³, Nancy Onamu³, Derrick Ounga³, James A. Berkley², Judd L. Walson⁴, Patricia B. Pavlinac¹
¹University of Washington, Seattle, WA, United States, ²Kenya Medical Research Institute-Wellcome Trust Research Programme, Kilifi, Kenya, ³Kenya Medical Research Institute, Nairobi, Kenya, ⁴Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

Thursday
November 14

9 a.m.

6037

COMPARISON OF ANTIBIOTIC RESISTANCE PATTERNS OF *S. PNEUMONIAE* IN CASES OF INVASIVE PNEUMOCOCCAL DISEASE AND PAIRED NASOPHARYNGEAL COLONIZATION ISOLATES

Morr cham, Grant Mackenzie, Isaac Osei, Rasheed Salaudeen, Hendry Badji, Baleng-Mahama Wutor, Molfa Minteh, Ousman Barjo, Yusuf Abdulsalam Olawale, Golam Sarwar, Abdoullah Nyassi

Medical Research Council The Gambia at London School of Hygiene & Tropical Medicine (MRC@LSHTM), Basse Santa Su, Gambia

9:15 a.m.

6038

HIGH RESIDUAL NASOPHARYNGEAL CARRIAGE OF VACCINE SEROTYPE PNEUMOCOCCI AFTER 12 YEARS OF INTRODUCTION OF PNEUMOCOCCAL CONJUGATE VACCINE IN THE GAMBIA

Isaac Osei¹, Emmanuel Mendy¹, Effua Usuf², Christian Bottomley³, Rasheed Salaudeen¹, Henry Badji¹, Ikumapayi U. Nurudeen¹, Phillip Hill⁴, Brian Greenwood⁵, Grant Mackenzie⁶

¹Medical Research Council The Gambia at the London School of Hygiene & Tropical Medicine, Banjul, Gambia, ²Medical Research Council The Gambia at the London School of Hygiene & Tropical Medicine, Fajara, Gambia, ³Department of Infectious Disease Epidemiology, London School of Hygiene & Tropical Medicine, London, UK, London, United Kingdom, ⁴Centre for International Health, University of Otago, Otago, New Zealand, ⁵Faculty of Infectious and Tropical Diseases, London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁶Medical Research Council The Gambia at the London School of Hygiene & Tropical Medicine, Basse, Gambia

9:30 a.m.

6039

EVALUATION OF THE USABILITY, ACCEPTABILITY, AND FEASIBILITY OF TWO DEVICES FOR THE DELIVERY OF INTRANASAL VACCINES IN LOW-AND-MIDDLE INCOME COUNTRIES

Jennifer Foster¹, Erin Rowand¹, Willkister Musau², Edith Jepleting², Sandeep Kumar³, Priyanka Bajaj³

¹PATH, Seattle, WA, United States, ²PATH, Nairobi, Kenya, ³PATH, New Delhi, India

Career Chats (via Zoom): Grants 101

(via Zoom)

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

Thursday, November 14, 9:15 a.m. - 10:15 a.m.

The aim of this session is to empower and provide trainees with tips for successful grant writing. This session is tailored for early-career researchers, mid-career professionals, and trainees eager to refine their grant writing skills. In this interactive and informative workshop, experienced grant writers and successful researchers will share their personal journeys through the grant writing process. Participants will gain valuable insights into crafting compelling proposals, understanding funding agency expectations, and avoiding common pitfalls. Special emphasis will be placed on the essential skills required for grant writing in the biomedical and global health fields, including how to articulate clear research aims, demonstrate the significance and innovation of your work, and develop a feasible, well-structured research plan. Whether you're applying for your first grant or seeking to enhance your grant writing proficiency, this session will equip you with practical tips and strategies to increase your chances of securing funding. Join us for an engaging discussion that will empower you to navigate the complexities of grant applications with confidence.

CHAIR

Winter Okoth

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

Ghassan Ilaawy

Burroughs Wellcome Fund/University of Virginia, Charlottesville, VA, United States

PANELISTS

David A. Fidock

Columbia University, New York, NY, United States

Daniel Kiboi

Jomo Kenyatta University of Agriculture & Technology, Nairobi, Kenya

Peter H. Kilmarx

Fogarty International Center, National Institutes of Health, Bethesda, MD, United States

Charles Narh

Deakin University, Geelong, Australia

Christine Ngaruiya

Stanford University School of Medicine, Stanford, CA, United States

Maria Luisa Simoes

Institute of Tropical Medicine, Antwerp, Antwerp, Belgium

Exhibit Hall Open

Convention Center - Hall J (1st Floor)

Thursday, November 14, 9:30 a.m. - 10:30 a.m.

Coffee Break

Convention Center - Hall J (1st Floor)

Thursday, November 14, 9:45 a.m. - 10:15 a.m.

Poster Session A Set-Up

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

Thursday, November 14, 9:45 a.m. - 10:15 a.m.

Poster Session A Viewing

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

Thursday, November 14, 10:15 a.m. - Noon

Alan J. Magill Malaria Eradication Symposium: Developing Leaders in the Continuing Fight for Malaria Eradication: Perspectives from Past Alan J. Magill Fellows

Convention Center - Hall I-2 (1st Floor)
 Thursday, November 14, 10:15 a.m. – Noon

Supported with funding from the Bill & Melinda Gates Foundation



This annual symposium honors the life and work of ASTMH Past President Alan Magill, who at the time of his untimely death in 2015 was promoting the bold goal of global malaria eradication in his role as the Malaria Director at the Bill & Melinda Gates Foundation. The symposium will bring leaders in the malaria field together to summarize the challenges and

advances in areas of relevance to the malaria elimination and eradication effort.

Dr. Alan Magill worked tirelessly for not only malaria eradication but to foster the next generation of leaders in tropical medicine and global health. In line with this vision, the Alan J. Magill Fellowship was created to fund early-to-middle career scientists to pursue leadership and professional development opportunities. We have invited five previous Magill Fellows, with projects focusing on malaria, to speak about their project objectives and progress as well as their leadership journey and impact of the fellowship. A final speaker will talk about the influence of Dr. Magill on malaria programs in Peru, where as head of Parasitology at the U.S. Navy's Medical Research Center, he inspired many malaria researchers in the same spirit of the fellowship that bears his name today.

CHAIR

Michelle D. Spring
State University of New York, Upstate Medical University, Syracuse, NY, United States

10:15 a.m.
INTRODUCTION

10:20 a.m.
LEADING THE WAY: MOZAMBIQUE'S QUEST FOR A MALARIA-FREE FUTURE

Pedro C. Aide
Manhica Health Research Center (CISM), Maputo, Mozambique

10:35 a.m.
LEADERSHIP DEVELOPMENT AND TRAINING FOR TRANSLATING RESEARCH FINDINGS INTO POLICY FOR MALARIA CONTROL AND ELIMINATION IN AFRICA: EXPERIENCE FROM THE ALAN J. MAGILL FELLOWSHIP

Deus Ishengoma
National Institute for Medical Research, Dar es Salaam, United Republic of Tanzania

10:50 a.m.
LEADERSHIP DEVELOPMENT THROUGH THE ALAN J. MAGILL FELLOWSHIP IN USING GLOBAL INFECTION SURVEILLANCE TO REDUCE THE HEALTH BURDEN OF DISEASES OF POVERTY

Awa Bineta Deme
International Research Training Center on Genomics, Dakar, Senegal

11:05 a.m.
ALAN J. MAGILL FELLOWSHIP: AT THE TIME OF EXPANSION AND CONVERGENCE OF MALARIA BIOLOGICAL THREATS IN THE HORN OF AFRICA

Fitsum Girma G. Tadesse
Armauer Hansen Research Institute, Addis Ababa, Ethiopia

11:20 a.m.
ALAN J. MAGILL FELLOWSHIP: BROADENED CAREER OPPORTUNITY TO CONTRIBUTE TO MALARIA ELIMINATION IN BURKINA FASO

Issiaka Soulama
Institut de Recherche en Sciences de la Santé (IRSS), Ouagadougou, Burkina Faso

11:35 a.m.
ALAN J. MAGILL'S JOURNEY IN PERU: SHAPING AND INSPIRING CURRENT AND FUTURE LEADERS IN INFECTIOUS DISEASES

Dionicia Gamboa
Universidad Peruana Cayetano Heredia, Lima, Peru

11:50 a.m.
QUESTIONS AND ANSWERS

Scientific Session 16

Clinical Tropical Medicine: HIV and Mpox

Convention Center - Room 343/344 (3rd Floor)
 Thursday, November 14, 10:15 a.m. - Noon

#InfectiousDisease #EmergingDiseaseThreats #Prevention #Diagnostics

CHAIR

Michael Hawkes
University of British Columbia, Vancouver, BC, Canada

Aisha Khatib
University of Toronto, Toronto, ON, Canada

10:15 a.m. **6040**

THE LIVED EXPERIENCES OF UGANDAN COMMUNITY HEALTH WORKERS ENGAGED IN PREVENTION OF VERTICAL TRANSMISSION OF HIV AND A CAPACITY-BUILDING INTERVENTION

Victor Mocanu¹, Hannah M. Brooks¹, Sophie Namasopo², Robert O. Opoka³, **Michael T. Hawkes⁴**

¹University of Alberta, Edmonton, AB, Canada, ²Kabale District Hospital, Kabale, Uganda, ³Medical College East Africa, Aga Khan University, Nairobi, Kenya, ⁴University of British Columbia, Vancouver, BC, Canada

10:30 a.m.

6041

FACTORS CONTRIBUTING TO LOW LINKAGE TO HIV TREATMENT IN GHANA, 2023

Jennifer Nai-Dowetin¹, Vincent Ganu², Grace Ocansey¹, Anthony Ashinyo³, Stephen Ayisi-Addo³, Ernest Kenu⁴

¹Ghana Field Epidemiology and Laboratory Training Programme, Accra, Ghana, ²Infectious Disease Unit, Department of Medicine and Therapeutics, Korle-Bu Teaching Hospital, Accra, Ghana, ³National HIV/AIDS/STI Control Programme, Ghana Health Service, Accra, Ghana, ⁴Department of Epidemiology and Disease Control, School of Public Health, University of Ghana. Ghana Field Epidemiology and Laboratory Training Programme, Accra, Ghana

10:45 a.m.

6042

ASSESSING THE RISK OF ADVERSE PREGNANCY OUTCOME AMONG HIV-POSITIVE AND HIV-NEGATIVE PREGNANT WOMEN: ANALYSIS FROM A COHORT OF WOMEN PARTICIPATING IN TWO INDIVIDUALLY RANDOMIZED CONTROLLED TRIALS IN WESTERN KENYA

EVERLINE DELYLAH ONDIEKI, Eric Donald, George O. Oilo, Hellen C. Barsosio
Kenya Medical Research Institute, Kisumu, Kenya

11 a.m.

6043

AFRICAN BRAIN POWERED GAMES APPS AVAILABLE ON COMPUTER TABLETS CAN BE USED TO DYNAMICALLY ASSESS BRAIN/BEHAVIOR INTEGRITY AND NEUROCOGNITIVE PERFORMANCE IN UGANDAN AND MALAWIAN SCHOOL-AGE CHILDREN AFFECTED BY HIV

Michael J. Boivin¹, Itziar M. Familiar-Lopez¹, Lillian Wambuzi Ogwang², Sofia Dadabhai³, Brian Winn¹, Alla Sikorskii¹, Bruno Giordani⁴

¹Michigan State University, East Lansing, MI, United States, ²Makerere University - Johns Hopkins University, Kampala, Uganda, ³Malawi College of Medicine - Johns Hopkins University, Blantyre, Malawi, ⁴University of Michigan, Ann Arbor, MI, United States

11:15 a.m.

6044

ONE AND TWO DOSE TYPHOID CONJUGATE VACCINE SAFETY AND IMMUNOGENICITY IN HIV-EXPOSED UNINFECTED AND HIV-UNEXPOSED UNINFECTED MALAWIAN CHILDREN

Nginache Nampota-Nkomba¹, Oswald M. Nyirenda², Divya Hosangadi¹, Victoria Mapemba², Priyanka D. Patel³, Happy C. Banda³, Felistas Mwakiseghile³, Theresa Misiri³, Richard Wachepa³, John Ndaferankhande³, Bright Lipenga³, Robert S. Heyderman⁴, Marcela Pasetti¹, Leslie P. Jamka¹, Shrimati Datta¹, Melita A. Gordon³, Kathleen M. Neuzil¹, Matthew B. Laurens¹

¹University of Maryland School of Medicine, Baltimore, MD, United States, ²Blantyre Malaria Project, Blantyre, Malawi, ³Malawi Liverpool Wellcome Programme, Blantyre, Malawi, ⁴University College London, London, United Kingdom

11:30 a.m.

6045

THE CLINICO-EPIDEMIOLOGICAL EXPERIENCE OF AN MPOX OUTBREAK AT A LARGE HEALTHCARE SYSTEM IN LOUISIANA, USA

Mary Ellen Owings¹, Latha Rajan¹, Obinna Nnedu²

¹Tulane University School of Public Health and Tropical Medicine, New Orleans, LA, United States, ²Ochsner Medical Center, Infectious Diseases Department, New Orleans, LA, United States

11:45 a.m.

6046

PERFORMANCE EVALUATION OF FIVE POINT-OF-CARE TESTS FOR MPOX DETECTION

Devy M. Emperador¹, Elie Ishara², Jacob Parkes³, Juvenal Nkeramahame⁴, Mikaela Watson⁵, Anushri Somasundaran³, Yusra Hussain³, Nadia Kontogianni³, Daniel Mukadi², Marithé Mukoka², Hugues Mirimo², Emile Milonde², Susan Logoose⁴, Audrey Albertini⁶, Berra Erkosar⁵, Emmanuel Agogo¹, Jake Dunning⁷, Ana Cubas Atienzar³, Hugo Kavunga-Membo²

¹Pandemic Threats Program, FIND, Geneva, Switzerland, ²Laboratoire Rodolphe Mérieux - Institut National de Recherche Biomédicale, Goma, Democratic Republic of the Congo, ³Center for Drugs and Diagnostics, Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ⁴Clinical Trial Unit, FIND, Geneva, Switzerland, ⁵Data Science Unit, FIND, Geneva, Switzerland, ⁶Program Management Unit, FIND, Geneva, Switzerland, ⁷Pandemic Sciences Institute, University of Oxford, Oxford, United Kingdom

Scientific Session 17

Kinetoplastida and Other Opportunistic and Anaerobic Protozoa: Epidemiology

Convention Center - Room 345 (3rd Floor)

Thursday, November 14, 10:15 a.m. - Noon

#InfectiousDisease #Epidemiology #FieldStudies

CHAIR

Malla Rao
NIAD, Rockville, MD, United States

Kawsar Talaat
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

10:15 a.m.

6047

BURDEN OF CHAGAS DISEASE RELATED TO CARDIOMYOPATHY IN THE UNITED STATES

Steffany Vucetich, Kelly DeToy, Yeonsoo Baik, Robert H. Gilman, Bryan Patenaude
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

10:30 a.m.

6048

WHAT IS THE EFFECT OF DEFORESTATION OF THE ATLANTIC FOREST ON THE OCCURRENCE OF PANSTRONGYLUS TIBIAMACULATUS IN URBAN AREAS?

Gilmar Ribeiro-Jr¹, Fernanda C. Lanza¹, Diego L P Miranda¹, Renato B. Reis², Cristiane W. Cardoso³, Fabiano Simões³, Eliaci C L Costa³, Márcia Castro⁴, Rodrigo Gurgel-Gonçalves⁵, Mitermayer G. Reis¹

¹Oswaldo Cruz Foundation, Salvador, Brazil, ²Faculdade Salvador, Salvador, Brazil, ³Secretaria de Saúde de Salvador, Salvador, Brazil, ⁴Harvard School of Public Health, Boston, MA, United States, ⁵Universidade de Brasília, Brasília, Brazil

10:45 a.m.

6049

SYSTEMIC CLINICAL PARAMETERS AND INFECTIVITY IN CANINE LEISHMANIOSIS (CANL)

Max Waugh¹, Karen Cyndari², Tom Lynch³, Soomin Koh², Ferney Henao-Ceballos², Jacob J. Oleson², Paul Kaye², Christine A. Petersen²

¹The University of Iowa, Coralville, IA, United States, ²The University of Iowa, Iowa City, IA, United States, ³The Ohio State University, Columbus, OH, United States

11 a.m.

6050

EPIDEMIOLOGY OF VISCERAL LEISHMANIASIS AND OTHER PARASITIC INFECTIONS IN REFUGEE CAMPS OF ETHIOPIA

Bortola A. Ayana¹, Adugna Abera¹, Aman Yesuf², Habtamu Belay¹, Mahlet Belachew¹, Tesfahun Bishaw³, Fransisco Averhoff⁴, Alan Landay⁵, Paulina A. Rebollo⁶, Geremew Tasew¹

¹Ethiopian Public Health Institute, Addis Ababa, Ethiopia, ²St. Paul's Hospital Millennium Medical College, Addis Ababa, Ethiopia, ³Ministry of Health of Ethiopia, Addis Ababa, Ethiopia, ⁴Abbott Diagnostics, Abbott Park, IL, IL, United States, ⁵University of Texas, Austin, TX, United States, ⁶Emory University, Atlanta GA, GA, United States

11:15 a.m.

6051

SPECIFIC PATHOGEN TESTING FOR OPPORTUNISTIC INFECTIONS IN PERSONS WITH HIV IN PERU AND BOLIVIA

Hannah E. Steinberg¹, Andrea Diestra², Beth J. Condori², Edith Malaga², Christian Guerra³, Margot Ramirez Jaldin⁴, Lynn Pinchi⁵, Ricardo Medrano Colmenares², Maria J. Pessoa⁴, Sergio Burgoa⁴, Cusi Ferradas⁶, Daniela E. Kirwan⁷, Monica M. Diaz⁸, Michael Sciaudone⁹, Maritza Calderón², Manuela Verastegui², Lilia Cabrera⁵, Viviana Pinedo Cancino³, Frine Samalvides², Freddy Tinajeros⁴, Cesar Ramal Asayag¹⁰, Robert H. Gilman¹¹, Natalie M. Bowman⁸

¹University of Washington, Seattle, WA, United States, ²Universidad Peruana Cayetano Heredia, Lima, Peru, ³Universidad Nacional de la Amazonía Peruana, Iquitos, Peru, ⁴AB Prisma, Santa Cruz, Plurinational State of Bolivia, ⁵AB Prisma, Lima, Peru, ⁶University of California Davis, Davis, CA, United States, ⁷St George's, University of London, London, United Kingdom, ⁸University of North Carolina, Chapel Hill, NC, United States, ⁹Tulane University, New Orleans, LA, United States, ¹⁰Hospital Regional de Loreto, Iquitos, Peru, ¹¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

11:30 a.m.

6052

COHORT ESTIMATION ANALYSIS OF CUTANEOUS AND MUCOCUTANEOUS LEISHMANIASIS, 1990-2021

Cathleen Keller, Michael Celone, Ewerton Cousin, Taren Gorman, Quince Hara, Olivia Nesbit, Lydia Plante, Joanna Whisnant, Steph Zimsen, Jon Mosser
Institute for Health Metrics and Evaluation, Seattle, WA, United States

11:45 a.m.

6053

LOW RISK FOR LOCALLY ACQUIRED CHAGAS DISEASE IN CALIFORNIA: A REVIEW OF HUMAN CASES AND TRIATOMINE SUBMISSIONS, 2013-2023

Andrea Lund¹, Marco E. Metzger², Vicki L. Kramer¹, Anne M. Kjemtrup¹
¹California Department of Public Health, Sacramento, CA, United States, ²California Department of Public Health, Ontario, CA, United States

Symposium 18

American Committee of Medical Entomology (ACME) Symposium II: Annual Business Meeting, Awards Ceremony, Hoogstraal Medal Presentation, and Networking Reception

Convention Center - Room 352 (3rd Floor)
Thursday, November 14, 10:15 a.m. - Noon

This symposium provides a forum for exchange of information among people interested in research on arthropods that cause disease or transmit disease-causing agents. The session begins with a short ACME business meeting followed by presentation of the 2024 ACME awards. The awards ceremony features the ACME Young Investigator Travel Awards, Breakthrough in Medical Entomology Award, Future Leaders Fellowship in

International Medical Entomology, Award of Distinction, and the Hoogstraal Medal, the highest distinction conferred by ACME. The awards ceremony will highlight the next generation of medical entomologists and recognize the early, mid- and late career achievements of individuals in the field on medical entomology. After the awards ceremony, a lecture will be delivered by the Hoogstraal Medal recipient, which will feature contributions of the awardee to advancing the field of medical entomology. The symposium will continue with the passing of the gavel (transfer of office), and conclude with the ACME professional networking and socializing session. #EarlyCareer #Trainee #InfectiousDisease

CHAIR

Adriana Troyo
Universidad de Costa Rica, San Jose, Costa Rica

Sarah A. Hamer
Texas A&M University, College Station, TX, United States

10:15 a.m.

INTRODUCTION

10:25 a.m.

ACME ANNUAL BUSINESS MEETING

Adriana Troyo
Universidad de Costa Rica, San Jose, Costa Rica

10:45 a.m.

ACME AWARDS CEREMONY I: YOUNG INVESTIGATOR TRAVEL AWARDS

Nsa Dada
Arizona State University, Tempe, AZ, United States

11:10 a.m.

ACME AWARDS CEREMONY II: BREAKTHROUGH IN MEDICAL ENTOMOLOGY, FUTURE LEADERS IN INTERNATIONAL MEDICAL ENTOMOLOGY, AWARD OF DISTINCTION, AND HOOGSTRAAL MEDAL

Adriana Troyo
Universidad de Costa Rica, San Jose, Costa Rica

11:30 a.m.

HARRY HOOGSTRAAL MEDAL PRESENTATION

Marcelo Jacobs-Lorena
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

11:45 a.m.

ACME NETWORKING AND SOCIALIZING SESSION

Symposium 19

Rocky Mountain Spotted Fever in Mexico: Raging On

Convention Center - Room 353 (3rd Floor)
Thursday, November 14, 10:15 a.m. - Noon

The ASTMH 2006 meeting celebrated the 100th anniversary of Howard Taylor Ricketts' seminal 1906 discoveries and publications about Rocky Mountain spotted fever (RMSF). At that time, RMSF incidence was barely edging upward from its 1998 U.S. nadir and declining case fatality; it was largely forgotten in other Western Hemisphere countries, including Mexico. However, between 2009

Thursday
November 14

and 2023, over 4,250 cases of RMSF were recorded in the Mexican states of Baja California Sonora, Chihuahua, Coahuila, and Nuevo León. With 1,240 deaths and an overall case fatality rate of 29% to as high as 63% - Mexico is now ground-zero for RMSF resurgence with incidence and case fatality not observed since Ricketts' time. The ensuing epidemic involves multiple foci across vast ranges of Mexico, including those that border on the U.S. In Mexico, it affects predominantly vulnerable populations such as children, the elderly, ethnic minorities and those living in poverty. Lessons from the past may not inform approaches to control these catastrophic outbreaks as distinct vectors and reservoir hosts are implicated, and the health care basis of identifying and managing affected patients is wanting. This symposium will gather the expertise of key medical, epidemiological, and ecological scientists involved in the ongoing investigations of RMSF in Mexico, presenting data on similarities and differences in epidemiology, clinical presentations and complications, and the underlying ecology and vector biology as compared to historical expectations. These data will then be used to advance discussions on better and more rapid recognition, implementation of health care resources, and data-driven solutions that address the ecology and epizootiology of RMSF in Mexico. #EmergingDiseaseThreats #Prevention #EcologicalStudies #Epidemiology

CHAIR

J. Stephen Dumler
Uniformed Services University, Bethesda, MD, United States

David H. Walker
University of Texas Medical Branch, Galveston, TX, United States

10:15 a.m. INTRODUCTION

10:25 a.m. CLINICAL AND LABORATORY ASPECTS OF SEVERE DISEASE IN PEDIATRIC PATIENTS WITH RMSF IN MEXICO

Oscar Tamez-Rivera
Instituto de Pediatría Hospital Zambrano Hellion; Tecnológico de Monterrey, Monterrey, Mexico

10:45 a.m. THE EPIDEMIOLOGICAL IMPACT OF ROCKY MOUNTAIN SPOTTED FEVER IN NORTHERN MEXICO

Gerardo Álvarez-Hernández
Departamento de Medicina y Ciencias de la Salud, Universidad de Sonora, Hermosillo, Mexico

11:05 a.m. RICKETTSIA RICKETTSII AND THE TRIAD OF HOST-VECTOR-PATHOGEN IN DISEASE PATHOGENESIS OF RMSF

Christopher D. Paddock
Rickettsial Zoonoses Branch, CDC, Atlanta, GA, United States

11:25 a.m. CANINE ECOLOGY IS KEY TO ROCKY MOUNTAIN SPOTTED FEVER EPIDEMIC CRISIS

Janet E. Foley
University of California, Davis, Davis, CA, United States

Scientific Session 20

Bacteriology: Shigella and Salmonella

Convention Center - Room 354/355 (3rd Floor)
Thursday, November 14, 10:15 a.m. - Noon

This session does not carry CME credit.

#Immunology #Epidemiology #PopulationSurveillance
#Vaccinology #Genetics

CHAIR

Charlotte Chong
University of Cambridge, Cambridge, United Kingdom

Farhana Khanam
International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

10:15 a.m.

6054

SECONDARY SHIGELLA TRANSMISSION AND PREDISPOSING FACTORS FOR DEVELOPING SHIGELLOSIS AMONG HOUSEHOLD CONTACTS IN THE EFGH CATCHMENT AREA, DHAKA, BANGLADESH

Md. Taufiqul Islam, Farhana Khanam, Ismail Hossen, Nazmul Hasan Rajib, Mahzabeen Ireen, Syed Qudrat-E- Khuda, Md Golam Firoj, Prasanta Kumar Biswas, Amirul Islam Bhuiyan, Faisal Ahmmmed, Firdausi Qadri
International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

10:30 a.m.

6055

GENETIC FACTORS CONTRIBUTING TO DISEASE IN SHIGELLA

Charlotte E. Chong¹, Xiaoliang Ba¹, Rebecca Ji Bengtsson², P. Malaka De Silva¹, Mark A. Holmes¹, Karen Kotloff³, Sharon M. Tennant³, Kate S. Baker¹
¹University of Cambridge, Cambridge, United Kingdom, ²University of Liverpool, Liverpool, United Kingdom, ³University of Maryland, Baltimore, MD, United States

10:45 a.m.

6056

ANTIBODY-MEDIATED PROTECTION AGAINST SHIGELLOSIS

Biana Bemshtein¹, Julia Zhiteneva¹, Galit Alter², Edward T. Ryan³
¹Ragon Institute of MGH, MIT and Harvard, Cambridge, MA, United States, ²Ragon Institute of MGH, MIT and Harvard, CAMBRIDGE, MA, United States, ³MGH, Boston, MA, United States

11 a.m.

6057

DEVELOPMENT OF A SEROEPIDEMIOLOGY TOOL FOR SHIGELLA

Claire E. Munroe¹, Ashraf I. Khan², Fahima Chowdhury², Paul Kovac³, Peng Xu³, Polina Kamenskaya¹, Meagan Kelly¹, Jeshina Janardhana¹, Chanchal Wagh¹, Jessica C. Seidman⁴, Kristen Aiemjoy⁵, Firdausi Qadri², Edward T. Ryan¹, Richelle C. Charles¹
¹Division of Infectious Diseases, Massachusetts General Hospital, Boston, MA, United States, ²Infectious Diseases Division, International Centre for Diarrhoeal Disease Research, Dhaka, Bangladesh, ³National Institutes of Health, Bethesda, MD, United States, ⁴Sabin Vaccine Institute, Washington, DC, United States, ⁵Department of Public Health Sciences, University of California Davis School of Medicine, Davis, CA, United States

11:15 a.m.

6058

PROTECTION CONFERRED BY A SINGLE DOSE OF TYPHOID CONJUGATE VACCINE AMONG BANGLADESHI CHILDREN AFTER FIVE YEARS OF VACCINATION: ANALYSIS OF A CLUSTER RANDOMIZED CONTROLLED TRIAL

Farhana Khanam¹, Firdausi Qadri¹, Yiyuan Zhang², Prasanta Kumar Biswas¹, Meryn Voysey³, Yama F Mujadidi², Sarah Kelly², Amirul Islam Bhuiyan¹, Nazmul Hasan Rajib¹, Ismail Hossen¹, Nazia Rahman¹, Sadia Islam¹, Virginia E. Pitzer⁴, John D. Clemens⁵, Andrew J. Pollard², Xinxue Liu²

¹International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ²Oxford Vaccine Group, Department of Paediatrics, University of Oxford, Oxford, UK, UK, United Kingdom, ³UKNIHR Oxford Biomedical Research Centre and Oxford University Hospitals NHS Foundation Trust, Oxford, UK, UK, United Kingdom, ⁴Department of Epidemiology of Microbial Diseases and Public Health Modelling Unit, Yale School of Public Health, New Haven, Connecticut, United States of America, Connecticut, CT, United States, ⁵International Vaccine Institute, Seoul, Republic of Korea

11:30 a.m.

6059

SAFETY AND IMMUNOGENICITY OF A BIVALENT VACCINE AGAINST SALMONELLA TYPHI AND SALMONELLA PARATYPHI A: INTERIM DATA FROM A PHASE 1 RANDOMIZED CONTROLLED OBSERVER-BLIND, TRIAL AMONG HEALTHY ADULTS IN EUROPE

Usman N. Nakakana¹, Ilse de Coster², Marie-Annick Götze², Pierre Van Damme², Eleanna Sarakinou¹, Chiara Fineschi¹, Elisa Marchetti¹, **Mohammad A. AbdelGhany**¹, Kanchanamala Withanage², Francesco Berlandascorza¹, Giulia Luna Cilio³, Alimamy Serry-Bangura³, Iris Sarah De Ryck³, Martina Carducci¹, Luisa Massai¹, Simona Rondini¹, Valentino Conti¹, Omar Rossi¹, Ashwani Arora¹

¹GSK Vaccines Institute for Global Health, Siena, Italy, ²Centre for the Evaluation of Vaccination, University of Antwerp, Antwerp, Belgium, ³GSK Vaccines Srl, Siena, Italy

11:45 a.m.

6060

EFFECT OF BIENNIAL AZITHROMYCIN MASS DRUG ADMINISTRATION ON ENTERIC FEVER TRANSMISSION INTENSITY IN NIGER

Kristen Aiemjoy¹, Jessica C. Seidman², Ahmed M. Arzika³, Kristina Wen-Jeh Lai¹, Ramatou Maliki³, Amza Abdou⁴, Denise Garrett², Claire Munroe⁵, Abel Gonzalez⁵, Leah Sukri⁶, Elodie Lebas⁷, Catherine Cook⁷, Benjamin F. Arnold⁷, Thomas M. Lietman⁷, Kathleen M. Neuzil⁶, Jason R. Andrews⁸, Jeremy D. Keenan⁹, Richelle C. Charles⁵
¹University of California Davis, Davis, CA, United States, ²Sabin Vaccine Institute, Washington, DC, United States, ³Centre de Recherche et Interventions en Santé Publique, Niamey, Niger, ⁴Nationale de Santé Oculaire, Niamey, Niger, ⁵Massachusetts General Hospital, Boston, MA, United States, ⁶Center for Vaccine Development and Global Health, Baltimore, MD, United States, ⁷UCSF Francis I. Proctor Foundation, San Francisco, CA, United States, ⁸Stanford University School of Medicine, Palo Alto, CA, United States, ⁹UCSF-Francis I. Proctor Foundation, San Francisco, CA, United States



Symposium 21

ASTMH Committee on Global Health (ACGH) Symposium II: Building a Diverse Workforce in Global Health Research

Convention Center - Room 356 (3rd Floor)
Thursday, November 14, 10:15 a.m. - Noon

Despite the growing recognition that diversity in leadership leads to better health outcomes, leadership in global health research remains largely undiversified. The Global Health 50/50 organization has documented that, among almost 400 global organizations surveyed in 2023, 66% of CEOs and Board Chairs are men and 73% are nationals of high-income countries (globalhealth5050.org). In this symposium, we will hear from

experts who have dedicated their careers to working towards greater diversity in global health leadership, including building leadership of women and leadership from countries that have historically been underrepresented in global decision-making. Speakers will include leaders of academic and non-governmental institutions, policy-makers, and funders. Speakers will discuss strategies that they have implemented, challenges faced, and lessons learned, with a focus on how session attendees at all levels of training can work towards cultivating greater diversity in global health research. As a result of the symposium, it is expected that attendees will gain new ideas for how they can incorporate training and can promote diverse researchers in their ongoing work. #EarlyCareer #Trainee

CHAIR

Jennifer A. Downs
Weill Cornell Medicine, New York, NY, United States

Maria E. Bottazzi
Baylor College of Medicine, Houston, TX, United States

10:15 a.m. INTRODUCTION

10:25 a.m. ACCOUNTABILITY FOR EQUALITY IN GLOBAL HEALTH CAREERS

Sarah J. Hawkes
Global Health 50/50, Cambridge, United Kingdom

10:40 a.m. MOBILIZING OUR LEADERS: GENDER-BASED BARRIERS AND EVIDENCE-BASED SOLUTIONS IN FOUR COUNTRIES

Adolfine A.K. Hikororo
Catholic University of Health and Allied Sciences, Mwanza, United Republic of Tanzania

10:55 a.m. STRENGTHENING RESEARCH CAPACITY IN A RESOURCE-CONSTRAINED ENVIRONMENT: CONNECTING AND SHARING WITH STRATEGIC PARTNERS

Jackeline Alger
University Hospital, Tegucigalpa, Honduras

11:10 a.m. HEALTH EQUITY: A GLOBAL PERSPECTIVE FROM THE NIH FOGARTY INTERNATIONAL CENTER

Barbara J. Sina
Fogarty International Center, National Institutes of Health, Bethesda, MD, United States

11:25 a.m. TRAINING JUNIOR SCIENTISTS FROM SITES WORLDWIDE TO CONDUCT CUTTING-EDGE TRANSLATIONAL RESEARCH

Maria Elena Botazzi
Baylor College of Medicine, Houston, TX, United States

11:40 a.m. DOCTORAL-LEVEL LEADERSHIP TRAINING IN GLOBAL HEALTH: CREATING AGENTS OF CHANGE TO BUILD A DIVERSE WORKFORCE IN GLOBAL HEALTH RESEARCH AND PRACTICE

Miguel Reina Ortiz
Indiana University, Indianapolis, IN, United States

Thursday
November 14

Symposium 22

Neglected Tropical Diseases: Getting the Dose Right

Convention Center - Room 357 (3rd Floor)

Thursday, November 14, 10:15 a.m. - Noon

Neglected Tropical Diseases (NTDs) affects predominantly marginalized and impoverished communities, and receive insufficient attention and funding for research, prevention, and treatment compared to other diseases. NTDs pose significant public health challenges, affecting over a billion people worldwide, primarily in low-resource settings. They cause substantial morbidity and mortality, leading to long-term disabilities, economic losses, and hindering of socioeconomic development in affected regions. Efforts to control and eliminate NTDs have gained momentum in recent years, with initiatives such as the World Health Organization's (WHO) NTD Roadmap 2030 aiming to accelerate progress towards eliminating these diseases as public health threats. Key strategies include improved treatment of acute infections, prevention, mass drug administration, improved access to healthcare services, vector control, and community engagement. Addressing these challenges requires a multifaceted approach involving governments, non-governmental organizations, researchers, and communities. Many of these diseases have a limited number of effective and safe drugs available, and they are often not used at optimal doses. Sub-optimal dosing could result in treatment failures and the development and spread of drug resistance. It is absolutely crucial to use available drugs at optimal doses, to reach treatment and elimination targets. The only way to truly determine the optimal dose in a particular population of patients, is to characterize and quantify the relationship between dosing – drug exposure – therapeutic efficacy in this group of patients. This can be achieved through well-planned and executed pre-clinical and clinical studies in combination with pharmacokinetic and pharmacodynamic modelling. This is particularly important in vulnerable population, such as pregnant women and small children. This symposium will provide an overview of the importance, impact and use of pharmacokinetic and pharmacodynamic tools in optimizing treatments of NTDs. Speakers will cover the use of pharmacokinetic-pharmacodynamic modelling of pre-clinical and clinical data to inform dosing, as well as the use of human challenge models in the development of novel therapies. The topics covered are not specific to a particular disease but generic for all NTDs, with presented case-studies and examples anchored in certain diseases to attract a wider audience. The novel methodologies presented will hopefully inspire future collaborations between clinical pharmacologists, trialists, laboratory scientists, and physicians. #ClinicalResearch #InfectiousDisease #Modeling #Therapeutics #TranslationalScience

CHAIR

Joel Tarning

Mahidol Oxford Tropical Research Unit, Bangkok, Thailand

Radojka Savic

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

10:15 a.m.
INTRODUCTION

10:25 a.m.
SCALING FROM PRE-CLINICAL TO CLINICAL TRIALS IN
NEGLECTED TROPICAL DISEASES

Richard Hoglund

Mahidol Oxford Tropical Research Unit, Bangkok, Thailand

10:45 a.m.
PHARMACOMETRIC MODELLING TO OPTIMIZE HUMAN DOSE
PREDICTIONS FOR MALARIA TREATMENT

Devasha Redhi

University of Cape Town, Cape Town, South Africa

11:05 a.m.
THE USE OF HUMAN CHALLENGE MODELS IN OPTIMIZING
TREATMENT OF INFECTIOUS DISEASES

James McCarthy

The University of Melbourne, Melbourne, Australia

11:25 a.m.
PHARMACOKINETIC CONSIDERATIONS WHEN TREATING
PREGNANT AND BREASTFEEDING MOTHERS

Catriona Waitt

Makerere University, Kampala, Uganda

11:45 a.m.
THE ROLE OF PHARMACOMETRICS IN GLOBAL HEALTH
RESEARCH

Savic Rada

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

Symposium 23

Human Flavivirus Challenge Models: Advances and Lessons Learned

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

Thursday, November 14, 10:15 a.m. - Noon

This session does not carry CME credit.

Development of effective dengue virus (DENV) and Zika virus (ZIKV) countermeasures has been hindered by fundamental gaps in our understanding of flavivirus transmission, pathogenesis, and immunity. These knowledge gaps include understanding who is at risk of exposure, why do some infected people become ill and others do not, and what environmental and/or genetic factors increases a person's infection risk. Studying wild type infections to answer these questions has been challenging for a number of reasons including; 1) it is extremely difficult to capture people in the first few days after infection and before symptoms develop; 2) many people living in DENV/ZIKV endemic regions have pre-existing flavivirus immunity from past infections or vaccinations; and 3) it is difficult to collect blood samples with a frequency which allows for detailed kinetic analyses. Furthermore, the seasonal and highly episodic nature of DENV and ZIKV transmission makes testing of candidate countermeasures extremely challenging. For these reasons, human flavivirus challenge models present a unique and powerful opportunity to study human host responses

to DENV or ZIKV infection and to test the efficacy of candidate countermeasures in a safe, ethical, and reproducible setting. The objectives of this symposium are to provide a comprehensive overview and update on current human flavivirus challenge efforts and to highlight advances and lessons learned from these unique models. The symposium will start with an introduction and historical overview of the development and use of flavivirus human challenge studies, with specific focus on the DENV-1, -3, and -4 human challenge strains developed by the US Army, SUNY Upstate Medical University, and the University of Maryland School of Medicine as part of the Dengue Human Infection Model (DHIM) consortium. Next will be a presentation on the development and characteristics of the DENV challenge models established by the National Institutes of Health in collaboration with the Johns Hopkins University School of Medicine, followed by a presentation on immunologic and virologic lessons learned from the DHIM consortium DENV challenge models. The symposium will end with a presentation on recent efforts to develop a human Zika virus challenge model. #InfectiousDisease #TranslationalScience #ClinicalResearch

CHAIR

Adam Waickman
SUNY Upstate Medical University, Syracuse, NY, United States

Heather Friberg
Walter Reed Army Institute of Research, Silver Spring, MD, United States

10:15 a.m. INTRODUCTION

10:25 a.m. DENGUE HUMAN INFECTION MODELS - HISTORIC, BIOETHICAL, AND USE CASE PERSPECTIVES

Stephen J. Thomas
SUNY Upstate Medical University, Syracuse, NY, United States

10:50 a.m. DENGUE HUMAN INFECTION MODELS DEVELOPED AT THE NIH

Stephen S. Whitehead
Laboratory of Viral Diseases NIAID, NIH, DHHS, Bethesda, MD, United States

11:15 a.m. IMMUNOLOGIC, VIROLOGIC, AND CLINICAL LESSONS LEARNED FROM DENGUE HUMAN INFECTION STUDIES

Kirsten E. Lyke
University of Maryland, Baltimore, MD, United States

11:35 a.m. ZIKA VIRUS HUMAN INFECTION MODELS

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

Scientific Session 24

Viruses - Evolution and Genomic Epidemiology

Convention Center - Room 388/389 (3rd Floor)
Thursday, November 14, 10:15 a.m. - Noon

#MolecularBiology #Evolution #Epidemiology

CHAIR

Livia Sacchetto
Faculdade de Medicina de Sao Jose do Rio Preto, Sao Jose do Rio Preto, Brazil

Henry Puerta-Guardo
Universidad Autonoma de Yucatan, Merida, Mexico

10:15 a.m. 6061

MACHINE LEARNING CAN REVEAL GENOMIC SIGNALS ASSOCIATED WITH ANTIGENIC DISTANCE IN DENGUE VIRUSES

Ozan Kiratli¹, Lin Wang², Angkana T. Huang², Derek A. Cummings³, Henrik Salje², Matthew A. Conte¹
¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²University of Cambridge, Cambridge, United Kingdom, ³University of Florida, Gainesville, FL, United States

10:30 a.m. 6062

GENOMIC EPIDEMIOLOGY OF ARBOVIRUSES REVEALS NEW VIRUS INTRODUCTIONS AND SIMULTANEOUS VIRUS CIRCULATION DURING DENGUE AND CHIKUNGUNYA OUTBREAKS IN BRAZIL

Livia Sacchetto¹, Beatriz Marques¹, Victoria Bernardi¹, Victor Hernandez¹, Igor Teixeira¹, Andreia Negri², Nikos Vasilakis³, Mauricio Nogueira¹
¹Faculdade de Medicina de Sao Jose do Rio Preto, Sao Jose do Rio Preto, Brazil, ²Departamento de Vigilância Epidemiológica, Sao Jose do Rio Preto, Brazil, ³The University of Texas Medical Branch, Galveston, TX, United States

10:45 a.m. 6063

SEROLOGICAL AND GENETIC CHARACTERIZATION OF THE DENGUE VIRUS SEROTYPE 3 (DENV-3) INFECTING CHILDREN'S POPULATIONS DURING A DENGUE OUTBREAK IN MERIDA, MEXICO

Henry Nelson Puerta Guardo¹, Hannah C. Dakanay², K. Jacqueline Ciau¹, Manuel Alejandro Parra Cardeña¹, James Earnest³, Gloria Barrera Fuentes¹, Oscar D. Kirstein⁴, Azael D. Che Mendoza¹, J. Kevin Yam¹, Mathew Collins⁵, Daniel Espinoza⁵, Pablo Manrique Saide¹, Norma Pavia Ruz¹, Guadalupe Ayora Talavera¹, Anne L. Piantadosi⁶, Gonzalo Vazquez Prokopec³
¹Universidad Autonoma de Yucatan, Merida, Mexico, ²Department of Pathology and Laboratory Medicine, Emory University, Atlanta, GA, United States, ³Department of Environmental Sciences, Emory University, Atlanta, GA, United States, ⁴Dept. of Environmental Sciences, Emory University, Atlanta, GA, United States, ⁵Division of Infectious Diseases, Department of Medicine, Emory University, Atlanta, GA, United States, ⁶Department of Pathology and Laboratory Medicine, Emory University School of Medicine, Atlanta, GA, United States

11 a.m. 6064

GENOMIC SURVEILLANCE OF DENGUE VIRUS FROM AN ACUTE FEBRILE ILLNESS STUDY IN EL SALVADOR, 2022-2023

Alexander R. Kneubehl¹, Avery A. Kaye¹, Elias Aguilar², Kenni Campos¹, Delmy Lisseth Recinos², Sarah M. Gunter¹, Gilberto A. Santiago³, Jorge L. Muñoz-Jordán³, Rafael Chacon⁴, Beatriz Lopez⁴, Emily Zielinski-Gutierrez⁴, Rhina Dominguez², Xochitl Sandova², Kristy O. Murray¹, Shannon E. Ronca¹
¹Baylor College of Medicine, Houston, TX, United States, ²National Institute of Health of El Salvador, San Salvador, El Salvador, ³Division of Vector-Borne Diseases, Centers for Disease Control and Prevention, San Juan, PR, United States, ⁴Centers for Disease Control and Prevention, Central America Region, Guatemala City, Guatemala

11:15 a.m.

6065

ECOLOGICAL AND GENETIC DETERMINANTS OF WEST NILE VIRUS PERSISTENCE IN FORT COLLINS, COLORADO

Robert Tobias Koch, Gregory Ebel
Colorado State University, Fort Collins, CO, United States

11:30 a.m.

6066

GENOMIC EPIDEMIOLOGY OF RIFT VALLEY FEVER VIRUS INVOLVED IN THE 2018 & 2022 OUTBREAKS IN LIVESTOCK IN RWANDA

Isidore Nsengimana¹, John Juma², Method N. Gasana³, Emmanuel Hakizimana⁴, Claude M. Muvunyi⁴, Jean N. Hakizimana⁵, Gillian Eastwood⁶, Augustino Chengula¹, Bernard Bett², Samuel O. Oyola², Christopher J. Kasanga¹
¹Sokoine University of Agriculture, Morogoro, United Republic of Tanzania, ²International Livestock Research Institute, Nairobi, Kenya, ³Rwanda Agriculture and Animal Resources Development Board, Huye, Rwanda, ⁴Rwanda Biomedical Center, Kigali, Rwanda, ⁵SACIDS Foundation for One Health, Morogoro, United Republic of Tanzania, ⁶Virginia Polytechnic Institute and State University, Blacksburg, VA, United States

11:45 a.m.

Lightning Talks

(Lightning Talks are two-minute talks to highlight abstracts assigned to poster presentations.)

7821

EVALUATING THE EFFICACY AND CORRELATES OF PROTECTION OF AN INSECT-SPECIFIC FLAVIVIRUS VECTORED ZIKA VACCINE

Albert Jonathan Auguste¹, Danielle Poirier¹, Manette Tanelus¹, Dawn I. Auguste¹, Awadalkareem Adam², Irving C. Allen³, Tian Wang²
¹Virginia Polytechnic Institute and State University, Blacksburg, VA, United States, ²University of Texas Medical Branch, Galveston, TX, United States, ³Virginia-Maryland College of Veterinary Medicine, Blacksburg, VA, United States

7073

SURVEILLANCE OF CORONAVIRUS IN WILD MAMMALS SEIZED AND RESCUED BY THE NATIONAL FOREST AND WILDLIFE SERVICE OF LIMA, PERU

Carol A. Sanchez Chicana¹, Lisseth M. Leiva Herrera², M. Teresa Lopez-Urbina², Victor L. Izaguirre Pasquel³, Walter Silva⁴, Luis A. Gomez-Puerta², Armando E. Gonzalez², Juan A. Jimenez Chunga¹
¹School of Biological Sciences, Universidad Nacional Mayor de San Marcos, Lima, Peru, ²Department of Animal and Public Health, School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru, ³School of Pharmacy and Biochemistry, Universidad Nacional Mayor de San Marcos, Lima, Peru, ⁴Servicio Nacional Forestal y de Fauna Silvestre – SERFOR, Lima, Peru

6269

SPATIO-TEMPORAL DISTRIBUTION OF CRIMEAN CONGO HEMORRHAGIC FEVER AND ITS RELATIONSHIP WITH CLIMATE FACTORS IN PAKISTAN: A DECADE-LONG EXPERIENCE FROM TERTIARY CARE LABORATORY NETWORK

Muhammad Abbas Abid, Joveria Farooqi, Rabiya Owais, Ayesha Sadiqa, Najia Ghanchi, Humaira Shafaq, Erum Khan
Aga Khan University, Karachi, Pakistan

6317

GENETIC ANCESTRY-ASSOCIATED DIFFERENCES IN DENGUE VIRUS INFECTION OF PRIMARY HUMAN SKIN CELLS

Michelle M. Martí, Priscila M. S. Castanha, Jocelyn M. Taddonio, Jeremy J. Martinson, Simon M. Barratt-Boyes
University of Pittsburgh, Pittsburgh, PA, United States

6315

EXPLORING THE ROLE OF HOST GLYCOSAMINOGLYCANS ON FLAVIVIRUS NS1-MEDIATED ENDOTHELIAL DYSFUNCTION

E. Vanessa Jimenez Posada¹, Julianna L. Follmar², Francielle T. Gomes de Sousa¹, Scott Espich¹, Nicholas Lo¹, Robert Beatty¹, Scott B. Biering¹, Kamil Godula², Eva Harris¹
¹Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, ²Department of Chemistry and Biochemistry and Glycobiology Research and Training Center, University of California, San Diego, CA, United States

Scientific Session 25

Malaria Pathogenesis: Parasite, Host and 'Omics Studies

Convention Center - Room 391/392 (3rd Floor)

Thursday, November 14, 10:15 a.m. - Noon

#TranslationalScience #Pathogenesis
#MolecularBiology #InfectiousDisease

CHAIR

Giselle Lima-Cooper
Indiana University, Indianapolis, IN, United States

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

10:15 a.m.

6067

SINGLE CELL TRANSCRIPTIONAL PROFILING OF DRY AND WET SEASON *PLASMODIUM FALCIPARUM*

Lasse Votborg-Novél¹, Votborg-Novél¹, Martin Kampmann¹, Manuela Carrasquilla¹, Georgia Angeli¹, Hamidou Cisse², Safiatou Duombo², Didier Doumtabe², Gabriela M. Guerra³, Kassoum Kayentao², Aissata Ongoiba², Mir-Farzin Mashreghi³, Thomas D. Otto⁴, Peter D. Crompton⁵, Boubacar Traore², Silvia Portugal¹
¹Max Planck Institute for Infection Biology, Berlin, Germany, ²Malaria Research and Training Center, Bamako, Mali, ³DRFZ, Berlin, Germany, ⁴University of Glasgow, Glasgow, United Kingdom, ⁵NIH, Rockville, MD, United States

(ACMCIP Abstract)

10:30 a.m.

6068

THE DYNAMICS OF PARASITE GROWTH IN *P. FALCIPARUM* AND *P. KNOWLESI* CO-CULTURES

Jeremy S. Goodwin-Gower, Jenny M. Peters, Hayley E. Mitchell, Stacey Llewellyn, Fiona H. Amante, Bridget E. Barber
QIMR Berghofer Medical Research Institute, Herston, Australia

(ACMCIP Abstract)

10:45 a.m.

6069

DEFINING THE ROLE OF PIPECOLIC ACID IN THE ENCEPHALOPATHY OF CEREBRAL MALARIA

Cheryl Sachdeva¹, Akua Mensah¹, Maxwell Rubin², Kyu Rhee³, Anas Saleh³, Terrie Taylor⁴, Karina Garcia¹, Stephen Ray⁵, Nicole O'Brien⁶, Karl Seydel⁷, **Johanna Daily**¹
¹Albert Einstein College of Medicine, Bronx, NY, United States, ²Tulane University, New Orleans, LA, United States, ³Weill Cornell College of Medicine, New York, NY, United States, ⁴Michigan State University, Lansing, NY, United States, ⁵University of Oxford, Oxford, United Kingdom, ⁶Ohio State University, Columbus, OH, United States, ⁷Michigan State University, Lansing, MI, United States

(ACMCIP Abstract)

11 a.m.

6070

CEREBRAL MALARIA, THE BLOOD-BRAIN BARRIER AND BEYOND. THE IMPACT OF ICAM-1/EPCR DUAL BINDING PARASITES ON BARRIER DYSFUNCTION

Yvonne Adams, Katrine Zeeberg, Nanna Dalgaard, Anja R. Jensen
University of Copenhagen, Copenhagen, Denmark

(ACMCIP Abstract)

11:15 a.m.

6071

HETEROGENEITY IN PATHOGENIC BRAIN SEQUESTERED CD8⁺ T CELLS DURING EXPERIMENTAL CEREBRAL MALARIA REVEALED BY SINGLE CELL SEQUENCING

Miranda Oakley¹, Micah P. Fletcher², Victoria Majam¹, Hong Zheng¹, Gregory K. Tharp², Mark KuKuruga¹, Sanjai Kumar¹
¹FDA, Silver Spring, MD, United States, ²Emory, Atlanta, GA, United States

(ACMCIP Abstract)

11:30 a.m.

6072

METABOLITES ASSOCIATED WITH CEREBRAL MALARIA PATHOGENESIS AND PROTRACTED PRO-THROMBOTIC PROPENSITY IN CHILD SURVIVORS OF CEREBRAL MALARIA

Katherine Dobbs¹, Kenzie Birse¹, Sausan Azzam¹, Laura Noel-Romas¹, David Midem², Paula Embury¹, Yelenna Skomorovska-Prokvolit¹, Arlene Dent¹, Adam Burgener¹, Sidney Ogolla², James Kazura¹
¹Case Western Reserve University, Cleveland, OH, United States, ²Kenya Medical Research Institute, Kisumu, Kenya

(ACMCIP Abstract)

11:45 a.m.

6073

TRANSCRIPTOMIC DATA ANALYSIS IDENTIFIES ACTIVE HOST UBIQUITIN-PROTEASOME PATHWAY IN KENYAN CHILDREN WITH SEVERE MALARIAL ANEMIA

Samuel B. Anyona¹, Qiuying Cheng², Sharley A. Wasena³, Shamim W. Osata⁴, Evans Raballah⁵, Ivy Hurwitz², Clinton O. Onyango³, Phillip D. Seidenber⁶, Benjamin H. McMahon⁷, Christophe G. Lambert⁸, Kristan A. Schneider⁹, Collins Ouma³, Douglas J. Perkins²

¹Department of Medical Biochemistry, School of Medicine, Maseno University, Maseno, Kenya, ²Department of Internal Medicine, Center for Global Health, University of New Mexico, Albuquerque, NM, United States, ³Department of Biomedical Sciences and Technology, School of Public Health and Community Development, Maseno University, Maseno, Kenya, ⁴University of New Mexico-Kenya Global Health Programs, Kisumu and Siaya, Kenya, ⁵Department of Medical Laboratory Sciences, School of Public Health, Biomedical Sciences and Technology, Masinde Muliro University of Science and Technology, Kakamega, Kenya, ⁶Department of Emergency Medicine, School of Medicine, University of New Mexico, Albuquerque, NM, United States, ⁷Theoretical Biology and Biophysics Group, Theoretical Division, Los Alamos National Laboratory, Los Alamos, NM, United States, ⁸Department of Internal Medicine, Division of Translational Informatics, University of New Mexico, Albuquerque, NM, United States, ⁹Department Applied Computer and Bio-Sciences, University of Applied Sciences Mittweida, Mittweida, Germany

(ACMCIP Abstract)

Scientific Session 26

Malaria: Diagnosis – Challenges and Innovations

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

Thursday, November 14, 10:15 a.m. - Noon

CHAIR

Christian Nsanzabana
Swiss Tropical and Public Health Institute, Allschwil, Switzerland

Steve Taylor
Duke University, Durham, NC, United States

10:15 a.m.

6074

TO TEST OR NOT TO TEST: WHAT DETERMINES WHETHER CLIENTS TEST FOR MALARIA IN THE PRIVATE SECTOR IN KENYA AND NIGERIA?

Meley Woldegebriel¹, Indrani Saran², David Arthur³, Nwamaka Eze⁴, Theodor Visser⁵, Jeremiah Laktabai⁶
¹CHAI, Kampala, Uganda, ²Boston College School of Social Work, Boston, MA, United States, ³Duke University Department of Biostatistics & Bioinformatics, Durham, NC, United States, ⁴CHAI, Lagos, Nigeria, ⁵CHAI, Boston, MA, United States, ⁶Academic Model Providing Access to Healthcare, Eldoret, Kenya

10:30 a.m.

6075

PERFORMANCE AND UTILITY OF HIGHLY SENSITIVE MALARIA RAPID DIAGNOSTIC TEST FOR DETECTING INFECTIONS THAT AFFECT HEALTH AND TRANSMISSION IN SCHOOL-AGED CHILDREN IN SOUTHERN MALAWI

Meredith G. Sherman¹, Godfrey Mvula², Karl B. Seydel³, Lauren M. Cohee⁴
¹Global Health Initiative, Children's National Hospital, Washington, DC, United States, ²Kamuzu University of Health Sciences, Blantyre, Malawi, ³Department of Internal Medicine, College of Osteopathic Medicine, Michigan State University, East Lansing, MI, United States, ⁴Department of Clinical Sciences, Liverpool School of Tropical Medicine, Liverpool, United Kingdom

10:45 a.m.

6076

WIDESPREAD PFHRP2/3 DELETIONS AND FALSE NEGATIVE RESULTS ASSOCIATED TO HRP2-BASED RDTs IN SOUTHERN ETHIOPIA

Lemu Golassa¹, Bacha Mekonen¹, Sisay Dugassa¹, Sindew M. Feleke¹, Boja Dufera², Bedasa Gidisa³, Aderaw Adamu⁴, Aynalem Mandefro¹, Geremew Tassew⁵
¹Addis Ababa University, Addis Ababa, Ethiopia, ²alaria and NTDs research team, Bacterial, Parasitic, and Zoonotic Diseases Research, Addis Ababa, Ethiopia, ³rmur Hansen Research Institute, Malaria and NTDs Research Team, Addis Ababa, Ethiopia, Addis Ababa, Ethiopia, ⁴Wollo University College of Medicine and Health Science, Department of Medical Laboratory Science, Wollo, Ethiopia, ⁵Malaria and NTDs research team, Bacterial, Parasitic, and Zoonotic Diseases Research, Addis Ababa, Ethiopia

11 a.m.

6077

PREVALENCE OF PFHRP2/3 DELETIONS IN SOUTH SUDAN: RESULTS OF A 10-SITE NATIONAL SURVEY

Désiré Ndisabiye¹, Constantino Doggale², Olivier Denis³, Pascale Chaillet³, Letizia Di Stefano³, Erwan Piriou⁴, Valérie Briand⁵, Jane Cunningham⁶, Qin Cheng⁷, **Matthew Coldiron**⁵
¹Médecins Sans Frontières, Juba, South Sudan, ²National Malaria Control Programme, Juba, South Sudan, ³Médecins Sans Frontières, Brussels, Belgium, ⁴Médecins Sans Frontières, Amsterdam, Netherlands, ⁵Epicentre, Paris, France, ⁶WHO, Geneva, Switzerland, ⁷Australian Defence Force Malaria and Infectious Disease Institute, Brisbane, Australia

Thursday
November 14

11:15 a.m.

6078

COUNTRYWIDE PFHRP2 GENE DELETION SURVEILLANCE IN MALI

Hinda DOUCOURE¹, Mahamadou S. Sissoko¹, Mamadou M. Tekete¹, Antoine Dara¹, Maimouna Dembele¹, Bintou Diarra¹, Boi Koné¹, Aïssata Koné², Mady Cissoko², Vincent Sanogo², Abdoulaye Djimde¹

¹Pathogens genomics Diversity Network Africa, Bamako, Mali, ²National Malaria Control Program of Mali, Bamako, Mali

11:30 a.m.

6079

ANALYTICAL PERFORMANCE ASSESSMENT OF THE AUTOMATED AND ARTIFICIAL INTELLIGENCE-ENABLED MILAB™ MAL MALARIA SYSTEM FOR THE DETECTION OF *PLASMODIUM FALCIPARUM* IN SUSPECTED MALARIA PATIENTS IN LAGOS, NIGERIA

Wellington A. Oyibo¹, Chinonye Anabike¹, Oladipo O. Oladosu¹, Michael O. Kusimo¹, Rita O. Urude², Chinyere Okoro¹

¹Centre for Transdisciplinary Research for Malaria and Neglected Tropical Diseases (CENTRAL-NTDS)/ANDI Centre of Excellence for Malaria Diagnosis, College of Medicine of the University of Lagos, Nigeria, Idi-Araba, Nigeria, ²NTD Division, Federal Ministry of health, Abuja, Nigeria

11:45 a.m.

6080

END-USERS PERCEPTIONS ON THEORETICAL NON-INVASIVE MALARIA TESTING TOOLS

Serafina Calarco¹, Vanessa Fagnoli¹, Catherine Thomas², Caroline Thomas², Claudius Mone Iye², Valerie Paz Soldan³, Amy Aegypti³, Janvier Serumondo⁴, Ladislav Nshimiyimana⁴, Yvonne Delphine Nsaba Uwera⁴, Sonjelle Shilton¹, Kevin KA Tetteh¹

¹Foundation for innovative New Diagnostics (FIND), Geneva, Switzerland, ²Yayasan Peduli Hati Bangsa, Jakarta, Indonesia, ³Asociación Benéfica PRISMA, Lima, Peru, ⁴Rwanda Biomedical Center, Kingali, Rwanda

Scientific Session 27**Pneumonia, Respiratory Infections and Tuberculosis II**

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

Thursday, November 14, 10:15 a.m. - Noon

#InfectiousDisease #Genomics #Epidemiology
#PopulationSurveillance #Resistance

CHAIR

Muhammad Imran Nisar

Pediatrics and Child Health, Aga Khan University, Karachi, Pakistan

Jasper Chan

The University of Hong Kong, Hong Kong, Hong Kong

10:15 a.m.

6081

ANTIBODY-OMICS REVEALS DISTINCT HUMORAL PROFILES AND BIOMARKERS IN HIV/TB COINFECTION

Sarah M. Ali¹, Abhipsa Panigrahi¹, Marwou de Kock², Willem A. Hanekom³, Cheryl L. Day⁴, Aniruddh Sarkar¹

¹Georgia Institute of Technology, Atlanta, GA, United States, ²South African Tuberculosis Vaccine Initiative, University of Cape Town, Cape Town, South Africa, ³Africa Health Research Institute, Durban, South Africa, ⁴Emory University School of Medicine, Atlanta, GA, United States

10:30 a.m.

6082

DEVELOPMENT OF AMPLICON-BASED WHOLE-GENOME SEQUENCING OF MYCOBACTERIUM TUBERCULOSIS

Chaney C. Kalinich¹, Freddy Gonzalez², Mallery I. Breban³, Isabel Distefano³, Ted Cohen³, Nathan D. Grubaugh³, Seth Redmond³

¹Yale School of Medicine, New Haven, CT, United States, ²Department of Ecology and Evolutionary Biology, Yale University, New Haven, CT, United States, ³Department of Epidemiology of Microbial Diseases, Yale School of Public Health, New Haven, CT, United States

10:45 a.m.

6083

TWO DECADES OF MOLECULAR SURVEILLANCE OF MULTIDRUG-RESISTANT TUBERCULOSIS IN ARGENTINA: LATEST TRENDS AT THE DAWN OF THE GENOMIC ERA

Roxana Paul, Federico Lorenzo, Francisco Delvento, Eduardo Mazzeo, Ingrid Wainmayer, Beatriz López, Norberto Simboli, Noemi Kaoru Yokobori INEI, ANLIS "Dr. C. G. Malbrán", Ciudad Autónoma de Buenos Aires, Argentina

11 a.m.

6084

PRELIMINARY OUTCOMES FROM A PROSPECTIVE OBSERVATIONAL COHORT OF ADULTS WITH DRUG-SUSCEPTIBLE CAVITARY TUBERCULOSIS IN HAITI

Nancy Dorvil¹, Marc A. Jean-Juste¹, Nao Haba², Joissaint Guy¹, Kathleen Walsh², Jean W. Pape¹, Daniel Fitzgerald²

¹GHESKIO, Port-au-Prince, Haiti, ²Weill Cornell Medicine, New York, NY, United States

11:15 a.m.

6085

TUBERCULOSIS DRUG SUSCEPTIBILITY TEST WITH SNP-RESOLUTION USING SINGLE SAMPLE MELT ANALYSIS

Nicole A. Malofsky, Dalton J. Nelson, Megan E. Pask, Frederick R. Haselton Vanderbilt University, Nashville, TN, United States

11:30 a.m.

6086

RISK FACTORS ASSOCIATED WITH POST-TUBERCULOSIS SEQUELAE: A SYSTEMATIC REVIEW AND META-ANALYSIS

Temesgen Yihunie Akalu¹, Archie C.A Clements², Alemneh Mekuriaw Liyew¹, Beth Gilmour³, Megan B. Murray⁴, Keyfalew Addis Alene¹

¹Curtin University, Perth, Australia, ²Queens University Belfast, Belfast, United Kingdom, ³Teleth, Perth, Australia, ⁴Harvard University, Boston, MA, United States

11:45 a.m.

6087

TUBERCULOSIS TRENDS AMONG INDIGENOUS PEOPLE IN BRAZIL BEFORE, DURING, AND AFTER THE SARS-COV-2 PANDEMIC

Ida Kolte¹, Eunice Atsuko Totumi Cunha², Paulo Cesar Basta¹

¹Oswaldo Cruz Foundation (FIOCRUZ), Rio de Janeiro, Brazil, ²Laboratório Central de Saúde Pública do Estado de Mato Grosso do Sul, Campo Grande, Brazil

Exhibit Hall Open

Convention Center - Hall J (1st Floor)

Thursday, November 14, Noon - 1:30 p.m.

Poster Session 28

Poster Session A

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

Thursday, November 14, Noon - 1:45 p.m.

Poster Session A Directory

Global Health - Information/Communication/Technologies Solutions in

Global Health including Modeling: 6088-6100

Global Health – Other: 6101-6131

Global Health - Security/Emerging Infection Preparedness,
Surveillance and Response(s): 6132-6149

Arthropods/Entomology – Other: 6150-6167

Mosquitoes - Biology, Physiology and Immunity: 6168-6177

Mosquitoes - Bionomics, Behavior and Surveillance: 6178-6191

Mosquitoes - Epidemiology and Vector Control: 6192-6223

Mosquitoes - Molecular Biology, Population Genetics and Genomics:
6224-6235

Viruses - Emerging Viral Diseases: 6236-6251

Viruses – Epidemiology: 6252-6272

Viruses - Evolution and Genomic Epidemiology: 6273- 6288

Viruses – Immunology: 6289-6306

Viruses - Pathogenesis and Animal Models: 6307-6322

Malaria - Antimalarial Resistance and Chemotherapy: 6323-6343

Malaria - Diagnosis - Challenges and Innovations: 6344-6355

Malaria - Drug Development and Clinical Trials: 6356-6366

Malaria – Elimination: 6367-6382

Malaria – Epidemiology: 6383-6413

Malaria - Genetics, Genomics and Evolution: 6414-6429

Malaria – Immunology: 6430-6443

Malaria - Parasite Transmission Biology: 6444-6451

Malaria – Prevention: 6452- 6477

Malaria – Surveillance and Data Utilization: 6478-6501

Malaria - Vaccines and Immunotherapeutics: 6502-6520

Bacteriology - Enteric Infections: 6521-6534

Bacteriology - Other Bacterial Infections: 6535-6548

Clinical Tropical Medicine: 6549-6575

Helminths – Nematodes – Filariasis (Diagnostics and Therapeutics):
6576-6592

Helminths – Nematodes – Intestinal Nematodes: 6593-6614

HIV and Tropical Co-Infections: 6615-6635

Kinetoplastida and Other Protozoa - Diagnosis and New Detection Tools
(Including Leishmania and Trypanosomes): 6636-6659

Measures for Control and Elimination of Neglected Tropical Diseases
(NTDs): 6660-6686

One Health: The Interconnection between People, Animals, Plants and
Their Shared Environment: 6687-6699

Pneumonia, Respiratory Infections and Tuberculosis: 6700-6716

Schistosomiasis and Other Trematodes – Diagnostics and Treatment:
6717-6727

Schistosomiasis and Other Trematodes – Epidemiology and Control:
6728-6737

Water, Sanitation, Hygiene and Environmental Health: 6738-6751

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

6088

**COVID-19 COMMUNITY 'BANTABA': RAISING AWARENESS
AND REDUCING MISINFORMATION ON COVID-19 WITHIN TWO
URBAN LOCALITIES IN THE GAMBIA**

Omar Ceesay

Medical Research Council@Ishtm, Banjul, Gambia

6089

**THE EFFECT OF PANDEMICS ON DECENT WORK AND TASK
PERFORMANCE AND ITS INFLUENCE ON LEADERS' EMOTIONAL
INTELLIGENCE**

EMMANUEL BOATENG FOSU

UNIVERSITY OF GHANA, ACCRA, Ghana

6090

**QUANTIFYING THE IMPACT OF MODIFIABLE RISK AND
PROTECTIVE FACTORS ON MORTALITY AMONG CHILDREN AND
YOUNG ADOLESCENTS RECEIVING ANTIRETROVIRAL THERAPY**

Jiawei He, Hmwe Kyu, Amanda Novotney, Edmond Brewer, Austin Carter, Kemal Oumer

Institute for Health Metrics and Evaluation, Seattle, WA, United States

6091

**CHALLENGES AND LESSONS LEARNED WHILE COMPLETING/
INITIATING VACCINE CLINICAL TRIALS DURING THE COVID-19
PANDEMIC IN A DEVELOPING COUNTRY: EXPERIENCE FROM
NEPAL**

Pragya Thapa¹, Tarun Saluja², Pranodan Poudel³, Shanti Bogati³, Naveena Aloysia D'Cor², Birendra Prasad Gupta¹

¹International Vaccine Institute, Kathmandu, Nepal, ²International Vaccine Institute, Seoul, Korea, Democratic People's Republic of, ³Dhulikhel Hospital-Kathmandu University Hospital, Dhulikhel, Nepal

6092

**ADVANCING GEOSTATISTICAL METHODS FOR FUTURE
STRATEGIES IN NEGLECTED TROPICAL DISEASE PROJECTS**

Luke EW Klein

FHI 360, Washington, DC, DC, United States

6093

**FROM RESEARCH TO POLICY - LEVERAGING SCIENCE
AND STRATEGIC COMMUNICATION TO TACKLE DENGUE IN
BANGLADESH**

A K M Tariful Islam Khan, Mohammad Shafiul Alam, Tahmeed Ahmed

International Centre for Diarrheal Disease Research, Bangladesh (icddr), Dhaka, Bangladesh

6094

DOCUMENTATION AND ANALYSIS OF THE SOCIAL CONTACT PATTERNS USING STANDARDIZED DIARIES ACROSS DIFFERENT AGES IN LOW-INCOME SETTINGS IN VELLORE DISTRICT, TAMIL NADU, SOUTHERN INDIA

RAJAN SRINIVASAN¹, Ayyappan V R¹, Janani Rathi¹, Agil Somasundaram¹, Meenakshi N¹, Moses Chapa Kiti², Noureen Ahmed³, Ben Lopman², Saad Omer³, Venkat Raghava Mohan¹

¹Christian Medical College Vellore, Vellore, India, ²Rollins School of Public Health, Emory University, Atlanta, GA, United States, ³O'Donnell School of Public Health, UT Southwestern, Dallas, TX, United States

6095

ENHANCING COMMUNITY HEALTH DIGITIZATION IN BURKINA FASO WITH ENTERPRISE ARCHITECTURE: ACHIEVEMENTS AND LESSONS.

Alain Kabore¹, Fatou Fall², Salif Traore³, Jean Serge Dimitri Ouattara³

¹PATH, Ouagadougou, Burkina Faso, ²PATH, Dakar, Senegal, ³Ministry of health and public hygiene, Ouagadougou, Burkina Faso

6096

CHIKUNGUNYA VIRUS RISK OF ACQUISITION, DIFFERENTIAL DIAGNOSIS AND VACCINE DEVELOPMENT: IMPACT OF INDEPENDENT ONLINE MEDICAL EDUCATION ON PHYSICIAN KNOWLEDGE AND CONFIDENCE

Julia C. Duffey¹, Iwona Misiuta², Lin H. Chen³

¹Manifold Medical, Matlock, United Kingdom, ²Medscape Education Global, New York, NY, United States, ³Division of Infectious Diseases and Travel Medicine, Mount Auburn Hospital and Harvard Medical School, Cambridge and Boston, MA, United States

6097

AN EXPLAINABLE MACHINE LEARNING APPROACH FOR PREDICTING LINEAR GROWTH FALTERING FOLLOWING A DIARRHEAL ILLNESS AMONG CHILDREN AGED 6-35 MONTHS IN WESTERN KENYA

Billy Ogwele¹, Vincent H. Mzazi², Alex O. Awuor¹, John B. Ochieng¹, Stephen Munga¹, Kirkby D. Tickell³, Patricia B. Pavlinac³, Karen L. Kotloff⁴, Richard Omoro¹

¹Kenya Medical Research Institute, Kisumu, Kenya, ²University of South Africa, Pretoria, South Africa, ³University of Washington, Seattle, WA, United States, ⁴University of Maryland, Baltimore, MD, United States

6098

ANALYSIS OF CARE-SEEKING PATHWAY AND FACTORS INFLUENCING EARLY AND APPROPRIATE CARE-SEEKING FOR MALARIA PATIENTS IN THE REPUBLIC OF GUINEA, 2022-2023

Elhadj Marouf DIALLO¹, Mateusz M Plucinski², Fatoumata Bintou TRAORE¹, Biennu Salim CAMARA³, Alice LANGLET⁴, Alexandre DELAMOU¹, Ousmane Oumou DIALLO⁵, Laurent GERBAUD⁴, Alioune CAMARA⁵

¹African Center of Excellence for the Prevention and Control of Communicable Diseases, Faculty of Health Sciences and Techniques, University of Conakry, Dixinn, Conakry, Guinea, ²Malaria Branch, Centers for Disease Control and Prevention, Atlanta, GA, USA; President's Malaria Initiative, Atlanta, GA, United States, ³Centre National de Recherche et de Formation en Santé Rurale de Maferinyah Guinée (CNRFSR), Maferinya, Forecariah, Guinea, ⁴CHU Clermont-Ferrand, UFR Médecine & Paramédicales Professions, University Clermont Auvergne, CNRS, Sigma Clermont Institute Pascal, Clermont-Ferrand, France, ⁵Department of Preventive Medicine and Institute for Global Health, Northwestern University, Chicago, IL, United States, ⁶National Malaria Control Program, Dixinn, Conakry, Guinea

6099

SCREENING, VACCINATION, AND AWARENESS CREATION FOR HEPATITIS B VIRUS INFECTION IN ACCRA, GHANA

Rawdat Baba-Adam, Kwadwo Asamoah Kusi Lab -, Linda Eva Amoah, Kwadwo Asamoah Kusi, Joseph Humphrey Kofi Bonney
Noguchi Memorial Institute for Medical Research, University of Ghana, Accra, Ghana

6100

SUSTAINING MALARIA CONTROL THROUGH WARD DEVELOPMENT COMMITTEES IN NIGERIA

Ekpo Edet¹, Olusola Adeoye¹, Oluseyi Akintola¹, Oluyemi Abodunrin¹, Aderonke Popoola¹, Foyeke Oyedokun-Adebagbo², Veronica Momoh², Jules Mihigo², Samuel Owoya³, Angela Acosta⁴, Bolatito Aiyenigba¹

¹Breakthrough ACTION Project, John Hopkins University Center for Communication Programs, Abuja, Nigeria, ²U.S. President's Malaria Initiative, USAID, Abuja, Nigeria, ³National Malaria Elimination Programme, Federal Ministry of Health, Abuja, Nigeria, ⁴Breakthrough ACTION Project, John Hopkins University Center for Communication Programs, Baltimore, MD, United States

Global Health - Other

6101

CALL FOR A FAIRER APPROACH TO AUTHORSHIP PRACTICE IN THE REPORTING OF BIOMEDICAL RESEARCH

Phaik Yeong Cheah¹, Michael Parker²

¹Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand, ²The Ethox Centre, University of Oxford, Oxford, United Kingdom

6102

UNDERSTANDING THE VIEWS OF PREGNANT AND LACTATING WOMEN ON CHILD BREASTFEEDING. A QUALITATIVE STUDY IN EASTERN ETHIOPIA.

Ketema Begna

Haramaya University, Harar, Ethiopia

6103

LESSONS FROM THE FIELD: MINIMUM SERVICE STANDARDS ASSESSMENT TOOL AND THE HOSPITAL STRENGTHENING PROGRAM: A NOVEL FIRST STEP TOWARDS THE QUALITY IMPROVEMENT OF NEPAL'S GOVERNMENT HOSPITALS

Rita Pokhrel¹, Abigail Knoble², Pratibha Gautam³, Mohammad Kashim Shah¹, Archana Amatyia¹, Ruma Rajbhandari²

¹Nick Simons Institute, Kathmandu, Nepal, ²Mass General Brigham, Boston, MA, United States, ³Harvard School of Public Health, Boston, MA, United States

6104

PHYSICIAN KNOWLEDGE, ATTITUDES, AND PERCEPTIONS OF FACILITY-WIDE ANTIBIOGRAMS IN SOUTHERN SRI LANKA: A PRE-IMPLEMENTATION STUDY

Lorenna Cristal Garcia-Bochas¹, Sherine Nanayakkar², Perla Medrano¹, Ajith Nagahawatte¹, Lakmal Fonseka², Armstrong Obale¹, Lana Abusalem¹, Melissa Watt³, Christopher Woods¹, Truls Ostbye¹, Champica Bodinayake², Gayani Tillekeratne¹

¹Duke University, Durham, NC, United States, ²University of Ruhuna, Galle, Sri Lanka, ³University of Utah, Salt Lake City, UT, United States

6105

EFFECTS OF A SCHOOL-BASED PHYSICAL ACTIVITY PROGRAM AND MULTI-MICRONUTRIENT SUPPLEMENTATION ON BODY COMPOSITION AMONG SCHOOLCHILDREN IN THE KILOMBERO DISTRICT, TANZANIA

Elihaika Gilbert Minja¹, Emmanuel C. Mrimi¹, Winfrida Mponzi², Johanna Beckmann³, Marcelline F. Finda², Christin Lang³, Fredros O. Okumu², Markus Gerber³, Juerg Utzinger¹, Kurt Z. Long¹

¹Swiss Tropical and Public Health, CH-4123 Allschwil, Switzerland, ²Ifakara Health Institute, Ifakara, United Republic of Tanzania, ³University of Basel, CH-4052 Basel, Switzerland

6106

CHARACTERIZATION OF MICROBIAL ISOLATES IN ANTIMICROBIAL STEWARDSHIP PROGRAM (ASP) OF A TERTIARY HEALTHCARE FACILITY IN SOUTHEAST NIGERIA - THE MONITORY PROJECT

Perpetua Onyinye Nmemelu¹, Chukwuanugo N. Ogbuagu¹, Ikemefuna N. C Onyeyili¹, Grace A. Elemuo¹, Irene U. Okeke¹, Ngozika U. Anazoba¹, Debra U. Okeh²

¹Nnamdi Azikiwe University Teaching Hospital Nnewi Anambra state Nigeria, Nnewi, Nigeria, ²Federal Medical Centre Umuahhia Abia state Nigeria, Umuahia, Nigeria

6107

PRECARIOUS HUMANITARIAN SITUATION RISKING INFECTIOUS DISEASES OUTBREAKS FOR INTERNALLY DISPLACED PERSONS IN PORT-AU-PRINCE, HAITI

Fritzel C. Pierre¹, Saurel Doirin¹, Anthony Meme¹, Matthew H. Howard², Louise C. Ivers³

¹Combite Pour la Paix et le Développement, Port-au-Prince, Haiti, ²Milton Public Schools, Milton, MA, United States, ³Harvard Global Health Institute, Cambridge, MA, United States

6108

AWARENESS AND PRACTICE OF MEDICAL WASTE MANAGEMENT AMONG HEALTHCARE PROVIDERS AT SALAVANH AND SEKONG PROVINCIAL HOSPITAL, LAO PDR

Vannyda NAMVONGSA¹, Chathaya WONGRATHANANDHA²

¹Sethathirath Hospital, Vientiane, Lao People's Democratic Republic, ²Faculty of Medicine, Ramathibodi Hospital, Mahidol University, Bangkok, Thailand

6109

UNVEILING LIVES: EXPLORING THE DAILY ROUTINES OF LEPROSY-AFFECTED INDIVIDUALS IN MALAYSIA THROUGH VIDEO ETHNOGRAPHY

Norana Abdul Rahman¹, Vaikunthan Rajaratnam², Ruth M.H. Peters¹, Marjolein B.M. Zweckhorst¹, Karen Morgan³, Mohamed Rusli Abdullah⁴

¹Athena Institute, Vrije University, Amsterdam, Netherlands, ²Khoo Teck Puat Hospital, Yishun, Singapore, Singapore, ³RCSI & UCD Malaysia Campus, Penang, Malaysia, ⁴Universiti Sains, Kubang Kerian, Kota Bharu, Malaysia

6110

EMPOWERING WOMEN AND GIRLS: A PATH TO GENDER EQUITY IN HEALTH AND WELLBEING

Elvis Safary¹, Angela Nguku², Vanessa Fargnoli¹, Debashish Das¹, Angela Muriuki¹

¹FIND, Geneva, Switzerland, ²White Ribbon Alliance Kenya, Nairobi, Kenya

6111

EXPLORING RESILIENCE AND WELL-BEING AMONG COMMUNITY HEALTH WORKERS: AN EXPLORATORY STUDY IN THE UPPER EAST REGION, GHANA

James Kotuah Sakeah¹, David Addiss², Cindy Feng³, John Bosco Aburiya⁴, Norbert Achibase⁵, Margaret Gyapong⁶, Ian Colman¹, Alison Krentel¹

¹University of Ottawa, Ottawa, ON, Canada, ²The Task Force for Global Health, Atlanta, GA, United States, ³Dalhousie University, Halifax, NS, Canada, ⁴SD Dumbo University of Business and Integrated Development Studies, Wa, Ghana, ⁵Navrongo Health Research Centre, Navrongo, Ghana, ⁶University of Health and Allied Sciences, Ho, Ghana

6112

THE COST OF ACCESS TO HEALTH CARE FOR CHILDREN UNDER-FIVE YEARS WITH SEVERE ANAEMIA - A COSTING STUDY OF REFERRAL HOSPITALS IN MALAWI KENYA AND UGANDA

Grace Wezi Mzumara¹, Melf-Jakob Kühn², Jobiba Chinkhumba³, Oddvar Martin Kaarbøe², Bjarne Bjarne Robberstad²

¹Training Research Unit of Excellence, Blantyre, Malawi, ²University of Bergen, Bergen, Norway, ³Kamuzu University of Health Sciences, Blantyre, Malawi

6113

MORTALITY ESTIMATES IN SOUTH AND SOUTHEAST ASIA BY ELECTRONIC VERBAL AUTOPSIES

Nan Shwe Nwe Htun¹, Elizabeth Ashley², Koukeo Phommasone³, François Nosten⁴, Aung Pyae Phy⁴, Moul Vanna⁵, Md Akramul Islam⁶, Shayla Islam⁶, Aninda Sen⁶, Nawrin Kabir⁶, Carlo Perrone¹, Sue J Lee⁷, Yoel Lubell⁸, Thomas J Peto⁸

¹Mahidol-Oxford Research Unit, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand, ²Lao-Oxford-Mahosot Hospital-Wellcome Trust Research Unit, Vientiane, Lao People's Democratic Republic, ³Lao-Oxford-Mahosot Hospital-Wellcome Trust Research Unit, Vientiane, Lao People's Democratic Republic, ⁴Shoklo Malaria Research Unit, Mae Sod, Thailand, ⁵Action for Health Development (AHEAD), Battambang, Cambodia, ⁶Communicable Diseases Programme, BRAC, Dhaka, Bangladesh, ⁷Department of Infectious Diseases, Monash University and Alfred Hospital, Melbourne, Australia, ⁸Centre for Tropical Medicine and Global Health, Nuffield Department of Medicine, University of Oxford, Oxford, United Kingdom

6114

UNDERSTANDING THE IMPACT OF WORKING HOURS ON MEDICAL DOCTORS IN NIGERIA. A STUDY ON MENTAL HEALTH AND DECISION-MAKING

Alamin M. Usman, Aisha J. Suleiman

Dalhatu Araf specialist Hospital, Lafia, Nasarawa state., Nigeria

6115

THE ROLE OF GENDER IN MALARIA HEALTHCARE PROVIDER PERFORMANCE

Elizabeth Arlotti-Parish¹, Katherine Wolf¹, Lolade Oseni¹, Annie Ciceron², Patricia Gomez¹, Thierno Ba², Jadmin Mostel²

¹Jhpiego, Baltimore, MD, United States, ²Population Services International, Washington, DC, United States

6116

EVALUATION OF PHYSICAL ACTIVITY AND DIET INTERVENTIONS IN PREVENTING CHILDHOOD OBESITY IN THE UNITED STATES OF AMERICA: A SYSTEMATIC REVIEW

Christopher I. Chukwu

University of Oxford, Oxford, United Kingdom

6117

NAVIGATING THE LOW COVID-19 VACCINATION RATE NEXUS: BIBLICAL INTERPRETATIONS AND PRACTICES OF PENTECOSTAL CHRISTIANS IN DMV

Patricia Mbah Epse Nchamukong

Walden University, Minneapolis, MN, United States

6118

MASS CYTOMETRY DATA INTEGRATION METHODS REVEAL RURAL-URBAN GRADIENT OF IMMUNE PROFILES ACROSS GEOGRAPHY

Koen Stam¹, Marloes M.A.R. Dorst¹, Mikhael D. Manurung¹, Jeremia J. Pyuza², Dicky L. Tahapary³, Taniawati Supali⁴, Ahmed Mafouz⁵, Mohammed Charrouf⁶, Simon P. Jochems¹, Marion H. König¹, Yvonne C.M. Kruijze¹, Moustapha Mbow⁷, Wouter A.A. A.A. de Steenhuijsen Piters¹, Maria Yazdanbakhsh¹

¹Leiden University Center for Infectious Diseases (LUICID), Leiden University Medical Center, Leiden, Netherlands, ²Department of Pathology, Kilimanjaro Christian Medical Centre, Moshi, United Republic of Tanzania, ³Division of Endocrinology and Metabolism, Department of Internal Medicine, Dr. Cipto Mangunkusumo National General Hospital, Faculty of Medicine Universitas Indonesia, Jakarta, Indonesia, ⁴Department of Parasitology, Faculty of Medicine, Universitas Indonesia, Jakarta, Indonesia, ⁵Leiden Computational Biology Center, Leiden University Medical Center, Leiden, Netherlands, ⁶Delft Bioinformatics Lab, Delft University of Technology, Delft, Netherlands, ⁷Department of Immunology, Faculty of Medicine, Pharmacy and Odontology, Cheikh Anta Diop University of Dakar, Dakar, Senegal

6119

SUCCESSFUL RECRUITMENT STRATEGIES FOR ENGAGING PREGNANT WOMEN IN CLINICAL TRIALS: LESSONS LEARNED FROM TWO INDIVIDUALLY RANDOMIZED CONTROLLED TRIALS CONDUCTED IN KENYA

EVERLINE DELYLAH ONDIEKI

Kenya Medical Research Institute, Kisumu, Kenya

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ESTABLISHING A NATIONAL DEEP VEIN THROMBOSIS NETWORK IN GHANA: RESULTS FROM A PROSPECTIVE MULTI-CENTER STUDY

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THE FIRST AFRICAN CENTER OF EXCELLENCE IN BIOINFORMATICS & DATA SCIENCE (ACE-MALI): TEN-YEAR ACCOMPLISHMENTS

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EXAMINING THE PRESENCE OF MONKEYPOX IN A GHANAIAN COMMUNITY: A CASE STUDY AT PENTECOST HOSPITAL

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INVESTIGATING THE INFLUENCE OF HUMAN MILK OLIGOSACCHARIDES ON CHILD GROWTH DEVELOPMENT

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DETERMINANTS FOR EARLY CARE SEEKING FOR MALARIA AMONG CAREGIVERS OF CHILDREN UNDER FIVE YEARS IN UGANDA

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TRADITIONAL HEALERS REFERRING FOR MALARIA IN UGANDA: RESULTS FROM RAPID ETHNOGRAPHIES

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ENHANCING CHILD MORTALITY SURVEILLANCE AND PREVENTION STRATEGIES IN LOW MIDDLE-INCOME COUNTRIES: THE CHAMPS NETWORK APPROACH IN PAKISTAN

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ASSESSING TENSION AND ALIGNMENT OF COMMUNITY VALUES AND CHILD HEALTH AND MORTALITY PREVENTION SURVEILLANCE (CHAMPS) IN URBAN NEIGHBORHOODS OF KARACHI, PAKISTAN

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ENHANCING THE IDENTIFICATION OF CAUSES OF DEATH THROUGH COMMUNITY-BASED VERBAL AUTOPSY METHODS DURING THE COVID 19 OUTBREAK

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COMMUNITY BEHAVIORS AND PRACTICES TOWARDS ROUTINE IMMUNIZATION IN POLIO HIGH RISK UNION COUNCILS OF PAKISTAN

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INSIGHTS FROM CHILD HEALTH & MORTALITY PREVENTION SURVEILLANCE (CHAMPS) NETWORK - PAKISTAN SITE

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

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IDENTIFYING DISTRICT-LEVEL RISK FACTORS FOR DELAYS IN YELLOW FEVER SPECIMEN COLLECTION AND ARRIVAL FOR TESTING IN GHANA

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SEROPREVALENCE OF ELEVEN NEGLECTED DISEASES OF PUBLIC HEALTH INTEREST IN NAURU

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COVID-19 VACCINE HESITANCY: A GLOBAL SURVEY ON KNOWLEDGE, EXPERIENCE, ATTITUDE, AND PSYCHOLOGICAL STRESS

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COMPARATIVE ANALYSIS OF STATE-LEVEL POLICY RESPONSES IN GLOBAL HEALTH GOVERNANCE: COVID-19 AS A CASE

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SEARCH FOR ACTIVE CASES OF YAWS IN PARTS OF IMO STATE, SOUTHEAST NIGERIA

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Sonja Weiss¹, Nicholas Bbosa², Deogratus Ssemwanga², Sam Kalungi³, Anatoli Mawanda³, Richard Ssentudde³, Emmanuel Ssekyeru⁴, Alfred Ssekagiri², Ronald Kiiza², Cleophous Rwankindo², Joshua Buule², Hamidah Suubi Namagembe², Stella Esther Nabiry², Justine Priscilla Nassolo², Robert Downing², Julius Lutwama², Tom Lutalo², Henry Kyobe Bosa⁵, Michael Berg¹, Mary Rodgers¹, Francisco Averhoff¹, Gavin Cloherty¹, Pontiano Kaleebu²

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SARS-COV-2 TRANSMISSION POTENTIAL AND CONTROL MEASURES IN ZIMBABWE: AN ECOLOGICAL ANALYSIS

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ONE-YEAR PATTERN OF ANTIMICROBIAL RESISTANCE IN ESCHERICHIA COLI, KLEBSIELLA PNEUMONIAE AND PSEUDOMONAS AERUGINOSA ISOLATES IN OSOGBO, NIGERIA

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COMMUNITY PERCEPTIONS OF HEALTH-RELATED RISK FACTORS, HEALTH STATUS, AND HEALTHCARE SERVICE IN RURAL SOUTHEAST ASIA: INSIGHTS FROM A CROSS-SECTIONAL HOUSEHOLD SURVEY IN BANGLADESH, CAMBODIA, AND THAILAND

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DEVELOPING THE CONCEPT AND PRACTICE OF ANTICIPATORY ACTION FOR EPIDEMICS WITHIN THE HUMANITARIAN SECTOR

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ASSESSMENT OF COMMUNITY AWARENESS, CONDUCT AND HABITS ON YELLOW FEVER IN THE UPPER EAST REGION OF GHANA

Millicent Captain-Esoah¹, Kwadwo K. Frempong², Abdul Malik Hussein¹, Francis Balungnaa D. Veriegh³, Martin N. Donkor⁴, Abigail Asiedu¹, Vanessa N. Kayan¹, Emmanuel Frimpong¹, Daniel K. Aluu¹, Iddrisu Fuseini⁵, Elijah D. Angyireyiri¹, Dorothy Obuobi⁶, Bernice Olivia A. Baako⁷, Chrysantus Kubio⁸, Victor Asoala⁷, Daniel A. Boakye², Samuel K. Dadzie²
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ECOLOGICAL STUDY OF TERRESTRIAL SMALL MAMMALS IN AN ENDEMIC PLAGUE FOCUS IN THE CENTRAL HIGHLANDS OF MADAGASCAR, IMPACT ON SURVEILLANCE STRATEGIES

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RETROSPECTIVE EVALUATION OF THE DIAGNOSTIC ACCURACY OF THE RELASVPAN LASSA ANTIGEN RAPID DIAGNOSTIC TEST FOR THE DETECTION OF ACUTE LASSA VIRUS INFECTION IN NIGERIA USING REAL TIME POLYMERASE CHAIN REACTION AS REFERENCE STANDARD

Hanesh Fru chi¹, Johnson Etafo², Frtiz Fonkeng¹, Olufunke Ibitokun², Ronke Ireneh², Chuckwuyem Abejegah², Sampson Owhin², Aurelia Vessiere¹, Adedosu. Nelson², Emmanuel Agogo¹, Devy Emperador¹
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COMPARISON OF KNOWLEDGE, ATTITUDES AND PERCEPTIONS ON RESPONSE TO THE COVID-19 PANDEMIC BETWEEN RURAL AND URBAN COMMUNITIES IN DEMOCRATIC REPUBLIC OF CONGO

Mireille Amba Ngale, Samuel Mampunza Ma Miezé, Thérèse Mpiempie Ngamasata, Tarcisse Kilara Kapene, Joel Kiniati Fumwankau, Nsengi Ntamabyaliro, Gauthier Mesia Kahunu, Gaston Tona Lutete
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A MIXED-METHOD STUDY TO DETERMINE CAUSES OF DEATH USING MINIMAL INVASIVE TISSUE SAMPLING AND VERBAL AUTOPSY IN THE BONO EAST REGION, GHANA.

Grace Manu¹, Samuel Bernard Ekow Harrison¹, Dennis Adu-Gyasi¹, Mahama Abukari¹, Jones Opoku-Mensah¹, Farrid Boadu¹, Charles Zandoh¹, Abubakari Sulemana¹, Norman Goco², Kaali Seyram¹, Ernest Akwasi Adjei³, Christiana Paganelli³, Kwaku Poku Asante¹
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USING MINIMALLY INVASIVE TISSUES SAMPLING TO DETERMINE CAUSES OF DEATHS IN THE MIDDLE-BELT OF GHANA: IMPLEMENTATION SUCCESSES, CHALLENGES AND OPPORTUNITIES

Mahama Abukari¹, Grace Manu¹, Samuel Bernard Ekow Harrison¹, Dennis Adu-Gyasi¹, Jones Opoku-Mensah¹, Farid Boadu¹, Sulemana Abubakari¹, Kaali Seyram¹, Ernest Akwasi Adjei², Norman Goco³, Christina Paganelli³, Kwaku Poku Asante¹
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COLLABORATING WITH KEY COMMUNITY ACTORS TO PREPARE FOR FUTURE OUTBREAK RESPONSES: LESSONS FROM LIBERIA

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Arthropods/Entomology - Other

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SEROLOGICAL SURVEY OF A COMMUNITY IN GHANA INVADED BY BLACKFLIES

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THREAT OF URBAN ARBOVIRAL DISEASES FROM Aedes Aegypti IN COLOMBIA

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DEMONSTRATION OF RNA ACTIVATION IN TICKS

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TICKS ON DROMEDARY CAMELS (CAMELUS DROMEDARIUS, LINNAEUS, 1758) FROM SOMALIA

Aamir M. Osman¹, Flávia CM Collere¹, Vanessa S. Coradi¹, Abdalla M. Ibrahim², Ahmed A. Hassan-Kadle², Mohamed A. Shair², Marcos R. André³, Thiago F. Martins⁴, Thállitha SWJ Vieira⁵, Rosângela Z. Machado³, Rafael FC Vieira⁵

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UNDERSTANDING BARRIERS IN TRIATOMINE SURVEILLANCE: CHALLENGES AND COMMUNITY-DRIVING SOLUTIONS IN AREQUIPA-PERU

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Ae. Aegypti and other mosquito species cohabitating in the Chekwoputoi Cave, Uganda

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MULTIDIMENSIONAL EVALUATION OF FACTORS ASSOCIATED WITH TICK INFESTATION AMONG DOGS LIVING IN ECOTONES OF MADRE DE DIOS, PERU

Cusi Ferradas¹, Oliver A. Bocanegra¹, Veronica K. Castro¹, Carla M. Yauris¹, Winnie M. Contreras¹, Raúl Flores-Mara¹, Caroline Glidden², Andrés G. Lescano¹, Maureen Laroche³

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TRACKING THE SOURCE POPULATION OF SIMULIUM BLACKFLY INVASION IN URBAN SETTINGS IN GHANA: A GENOMICS APPROACH

Millicent Opoku¹, Neha Sirwani¹, Emily N. Hendrickson¹, Himal Shrestha¹, Kwadwo K. Frempong², Sampson Otoo², Franklin Ayisi Ayisi³, Millicent S. Afatodzie², Abena A. Nyarko², Sarah M. Dogbe², Joseph H.N. Osei², Sellase Pi-Bansa², Sindew M. Feleke¹, Warwick Grant¹, Daniel Boakye², Shannon Hedtke¹

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LAND REVERSION AND PALM FEATURES ARE MAJOR DRIVERS INFLUENCING THE OCCURRENCE OF A CHAGAS DISEASE VECTOR IN RURAL AREAS IN PANAMA

Juliana Hoyos¹, Vanessa Pineda², Kadir Gonzalez², Daniel Mendieta², Azael Saldaña², Jose Calzada², Bryna Wilson³, Chystrie Rigg², Vanessa Vasquez², Luis F. Chaves⁴, Sonia Altizer¹, Nicole Gottdenker¹

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INSECT CELL LINES DERIVED FROM OLD AND NEW WORLD VECTORS OF TRYPANOSOMES

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ESTIMATING SPATIAL DISTRIBUTIONS OF *Aedes aegypti*, *Aedes albopictus* AND *Culex quinquefasciatus* IN HAITI

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ALARMINGLY EXPANDING GEOGRAPHIC DISTRIBUTION OF *ANOPHELES STEPHENSI* IN ETHIOPIA

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A SYSTEMATIC REVIEW OF ENTOMOLOGICAL INDICATORS AND SAMPLING APPROACHES USED IN THE EVALUATION OF CLUSTER RANDOMIZED TRIALS FOR MALARIA VECTOR CONTROL PRODUCTS

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MALARIA VECTOR CONTROL IN SUB-SAHARAN AFRICA; COMPLEX TRADE-OFFS TO COMBAT THE GROWING THREAT OF INSECTICIDE RESISTANCE

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Viruses - Emerging Viral Diseases

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Viruses - Epidemiology

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PREVALENCE OF HEPATITIS D VIRUS INFECTION AND ASSOCIATED FACTORS AMONG HEPATITIS B VIRUS PATIENTS FROM SELECTED HOSPITALS IN ACCRA

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DENGUE IN AMAZONAS: UNDERSTANDING SPATIOTEMPORAL DYNAMICS AND SEROTYPE CIRCULATION

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NEURODEVELOPMENTAL OUTCOMES IN CHILDREN WITH AND WITHOUT ZIKA, DENGUE, AND OTHER FLAVIVIRUS EXPOSURE, ZIKA EN EMBARAZADAS Y NIÑOS (ZEN) COHORT, COLOMBIA

Hanvit Oh

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QUANTIFYING THE IMPACT OF MASS DOG VACCINATION ON PUBLIC HEALTH OUTCOMES IN TANZANIA

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Thursday
November 14

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CHARACTERIZING DENGUE SEROPREVALENCE AND HETEROGENEITIES IN TRANSMISSION INTENSITY IN GHANA

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THE IMPACTS OF COVID-19 ON THE TREND OF MEASLES OUTBREAK IN NIGERIA

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PREVALENCE OF PREVIOUS DENGUE INFECTION AMONG SCHOOL CHILDREN IN GRADES 3-10— AMERICAN SAMOA, SEPTEMBER-OCTOBER 2023

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INTERACTIONS AMONG ACUTE RESPIRATORY VIRUSES IN PUERTO RICO, 2013-2023

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HUMAN SEROPREVALENCE OF ANTIBODIES TO FILOVIRUSES CAUSING OUTBREAKS IN SUB-SAHARAN AFRICA: A SYSTEMATIC REVIEW AND META-ANALYSIS

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OUTBREAK OF MONKEYPOX IN BENIDORM, ALICANTE (SPAIN)

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Muhammad Abbas Abid, Joveria Farooqi, Rabiya Owais, Ayesha Sadiqa, Najia Ghanchi, Humaira Shafaq, Erum Khan

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SPATIAL DRIVERS OF DENGUE TRANSMISSION INTENSITY IN COASTAL ECUADOR, 2015-2016

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THE BURDEN OF DENGUE IN LATIN AMERICA AND ASIA: EPIDEMIOLOGICAL DATA OVER 57 MONTHS OF FOLLOW-UP IN A PHASE 3 TRIAL

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SEROPREVALENCE AND SEROINCIDENCE OF LASV INFECTION IN A POPULATION-BASED COHORT STUDY IN SIERRA LEONE (IAVI X100)

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CHARACTERIZING THE INTRA-HOST PLAQUE VARIANTS AND GROWTH KINETICS OF GLOBAL ZIKA VIRUS STRAINS

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MAPPING RESPIRATORY VIRUS EVOLUTION AND OUTBREAKS IN CAMBODIA USING PATHOGEN GENOMICS

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ANALYSIS OF SARS COV2 VARIANTS IN WASTEWATER OF THE METROPOLITAN DISTRICT OF QUITO USING A PASSIVE SAMPLING 3D PRINTED DEVICE

Paula Estefania Mejia, Paúl Cárdenas, Rommel Guevara, Erika Muñoz, Dennisse Benitez, Patricio Rojas, Verónica Barragán, Gabriel Trueba
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DENGUE VIRUS SEROTYPE 3 ORIGINS AND GENETIC DYNAMICS, JAMAICA

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RECOVERY OF COMPLETE GENOME SEQUENCES OF CRIMEAN-CONGO HAEMORRHAGIC FEVER VIRUS THROUGH TARGETED NEXT-GENERATION SEQUENCING APPROACHES: A COMPARATIVE STUDY BETWEEN MULTIPLEX TILING PCR AND PROBE HYBRIDIZATION CAPTURE

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PHYLOGENETIC ANALYSIS OF CRIMEAN CONGO HEMORRHAGIC FEVER VIRUS STRAINS CIRCULATING IN PAKISTAN DURING 2022-2023

Sabiha Yousuf, Aisha Ishauqe, Yusra Rehman, Erum Khan, Kehkashan Imtiaz, Najia Ghanchi

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WEST NILE VIRUS INFECTIOUS UNITS CONTAIN MULTIPLE VIRUS PARTICLES

Marina Fujii, Emily Fitzmeyer, Bradly Burke, Emily Gallichotte, Marcela Henao-Tamayo, Brian Geiss, Gregory D. Ebel

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GENOMIC CHARACTERIZATION OF DENGUE VIRUS CIRCULATION IN ETHIOPIA

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ELUCIDATING THE MOLECULAR EPIDEMIOLOGY OF WEST NILE VIRUS (WNV) IN SOUTHERN NEVADA

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ROTAVIRUS AND STRAIN DIVERSITY: DISENTANGLING THE REASSORTMENT RATES OF PAIRWISE SEGMENT COMBINATIONS

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CLINICAL AND GENOMIC CHARACTERIZATION OF DENGUE VIRUS OUTBREAK IN MALI

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Alejandra Gabriela Torrez Mamani, Belén Claudia Choque Pardo, Cinthia Copeticona Callejas, Sonia Guadalupe Jiménez Pacohuanca, Lucia Isabel Mendieta Elena, Sergio Gutiérrez Cortez, Carla Calderón Toledo, Volga Íñiguez Rojas
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ENHANCED IFN- γ , BUT NOT IL-2, RESPONSE TO MYCOBACTERIUM TUBERCULOSIS ANTIGENS IN HIV/LATENT TB CO-INFECTED PATIENTS ON LONG-TERM HAART

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Thayne Henderson Dickey, Zhantong Wang, Rui Ma, Wai-Kwan Tang, Sachy Orr-Gonzalez, Tarik Ouahes, Palak Patel, Holly McAleese, Brandi Richardson, Brett Eaton, Michael Murphy, Jennifer L. Kwan, Nichole D. Salinas, Baoshan Zhang, Li Ou, Qi Qiu, Lingshu Wang, Tatsiana Bylund, Wing-Pui Kong, Wei Shi, Yaroslav Tsybovsky, Lingyuan Wu, Qiong Zhou, Ridhi Chaudhary, Misook Choe, Mohammed El Anbari, Adam S. Olin, Reda Rawi, I-Ting Teng, Danyi Wang, Shuishu Wang, Michael R. Holbrook, Lynn E. Lambert, Tongqing Zhou, Peter D. Kwong, Niraj H. Tolia
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CORRELATION BETWEEN CLINICAL BIOMARKERS AND LUNG PATHOLOGY OVER THE COURSE OF ACUTE COVID-19

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DISENTANGLING DIFFERENCES IN DENGUE VIRUS INFECTION RISK ACROSS SEX IN A LONGITUDINAL COHORT IN KAMPHAENG PHET, THAILAND

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VACCINE-INDUCED T CELL RESPONSES CONTROL FLAVIVIRAL CHALLENGE INFECTION WITHOUT NEUTRALIZING ANTIBODIES

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DELETIONS IN THE 3' UNTRANSLATED REGION COMPROMISED TRANSLATION INITIATION TO ATTENUATE A DENGUE VIRUS 3 VACCINE STRAIN

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CROSS-NEUTRALIZING ANTIBODY RESPONSES ELICITED BY THE CHIKUNGUNYA VACCINE VLA1553

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DENGUE NS1 ANTIBODIES ARE ASSOCIATED WITH CLEARANCE OF VIRAL NS1

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CHARTING THE IMPACT OF MATERNAL ANTIBODIES AND EXPOSURES ON SAPOVIRUS IMMUNITY IN EARLY CHILDHOOD FROM A NICARAGUAN BIRTH COHORT

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SIGNALING CIRCUITS INVOLVED IN THE SELECTION OF HIGH-AFFINITY ANTIGEN-SPECIFIC B CELLS IN THE GERMINAL CENTER

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PRIMARY ZIKA VIRUS INFECTION INCREASES HETEROTYPIC DENGUE VIRUS SERUM NEUTRALIZATION UPON SECONDARY DENV-3 INFECTION IN RHESUS MACAQUES

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LIFESTYLE SCORES ARE ASSOCIATED WITH CELLULAR IMMUNE PROFILES IN HEALTHY TANZANIAN ADULTS

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APPLYING A ELECTROCHEMILUMINESCENCE MULTIPLEX SEROLOGIC ASSAY TO DETECT AND DIFFERENTIATE ZIKA AND DENGUE VIRUS EXPOSURES DURING LONG-TERM FOLLOW UP OF A COMMUNITY COHORT IN BRAZIL

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UNDERSTANDING IMMUNITY TO MPOX AND SMALLPOX VACCINATION TO INFORM ON SEROSURVEILLANCE, DIAGNOSTIC DEVELOPMENT, AND NEXT-GENERATION VACCINES

Scott Jones, Bethany Hicks, Cathy Rowe, Bassam Hallis, Ashley Otter
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ROBUST T CELL RESPONSES IN ADULT MICE PROVIDE INSIGHTS INTO PROTECTION AGAINST LA CROSSE VIRUS ENCEPHALITIS

Reem Alatrash, Bobby Brooke Herrera
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WIDESPREAD *PFHRP2/3* DELETIONS AND HRP2-BASED FALSE-NEGATIVE RESULTS IN SOUTHERN ETHIOPIA

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ACUTE UNDIFFERENTIATED FEBRILE ILLNESSES SURVEILLANCE IN TWO MILITARY HEALTH FACILITIES IN ABUJA, NIGERIA

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PLASMODIUM FALCIPARUM HISTIDINE RICH PROTEIN 2/3 DELETIONS AND REPEAT MOTIFS IN INDIA: CHALLENGES IN RDT-BASED MALARIA DIAGNOSIS

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UNCOVERING TREATMENT GAPS: A CLOSER LOOK AT MALARIA CASE MANAGEMENT IN A DISTRICT REFERRAL HOSPITAL IN GHANA, 2023

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USING A MULTI-PRONGED APPROACH TO TARGETING *PLASMODIUM VIVAX* (PV) TO SHARPLY REDUCE INCIDENCE

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TRAVELERS WITH SUBMICROSCOPIC PLASMODIUM SPP. INFECTIONS CONTRIBUTE TO MAINTAIN RESIDUAL MALARIA IN TWO RURAL COMMUNITIES FROM THE PERUVIAN AMAZON REGION

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MATHEMATICAL MODELING TO OPTIMIZE THE COHORT MONITORING TO ESTIMATE INCIDENCE RATE AND TIME TO FIRST INFECTION IN MALARIA-ENDEMIC SETTINGS

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ASSESSING ENTOMOLOGICAL MEASURES OF INDIVIDUAL *P. FALCIPARUM* INFECTION RISK

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SPACE-TIME SENSITIVE MODELING OF SUBCLINICAL MALARIA PREVALENCE AT THE VILLAGE LEVEL IN LOW ENDEMIC AREAS OF MYANMAR USING RANDOM FOREST MODEL

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PREVALENCE OF SUBCLINICAL MALARIA AND ITS POTENTIAL RISK FACTORS IN LOW TRANSMISSION SETTING IN MYANMAR: A COMMUNITY-BASED SURVEY

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PERFORMANCE METRICS DURING A MALARIA OUTBREAK RESPONSE; LESSONS FROM EVALUATION IN AN ARID, EPIDEMIC-PRONE COUNTY IN KENYA

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MATHEMATICAL ASSESSMENT OF THE ROLE OF INTERVENTION PROGRAMS FOR MALARIA CONTROL

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ATTRACTIVE TARGETED SUGAR BAITS FOR MALARIA CONTROL IN WESTERN KENYA (ATSB-KENYA): ENROLLMENT CHARACTERISTICS OF COHORT CHILDREN AND HOUSEHOLDS

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Rajendra Maharaj, Ishen Seocharan, Vishan Lakan

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AN UPDATE OF THE EPIDEMIOLOGICAL PARAMETERS OF MALARIA IN SCHOOL AGE CHILDREN IN KOLLE, A RURAL SETTING, MALI

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ANALYSIS OF MALARIA PREVALENCE AND HEALTH SERVICES IN A GOLD MINING SITE IN WESTERN ETHIOPIA: A MIXED METHODS RESEARCH STUDY

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HOUSEHOLD STORM DAMAGE LIMITS ACCESS TO AND USE OF INSECTICIDE TREATED BEDNETS IN MOZAMBIQUE

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Mathilde Grimée, Aimee Taylor, Michael White
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AN INVESTIGATION OF A PLASMODIUM FALCIPARUM ODYSSEAN MALARIA CASE IN AN INFORMAL SETTLEMENT, GAUTENG, SOUTH AFRICA, JANUARY 2024

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GENETIC DIVERSITY OF *PLASMODIUM VIVAX* DUFFY BINDING PROTEIN IN ETHIOPIA AND COMPARISON WITH OTHER GEOGRAPHICAL ISOLATES

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(ACMCIP Abstract)

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GENE EXPRESSION NETWORKS IN STAGE-CONTROLLED *PLASMODIUM VIVAX* INFECTIONS FROM NORTHERN THAILAND: A WEIGHTED GENE CO-EXPRESSION NETWORK ANALYSIS (WGCNA)

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USE OF GENETIC METRICS TO CHARACTERIZE MALARIA TRANSMISSION PATTERNS AND DISTINGUISH COTRANSMISSION FROM SUPERINFECTION IN BURKINA FASO

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GENOME-WIDE ASSOCIATION STUDY OF GLOBAL *PLASMODIUM VIVAX* POPULATIONS PROVIDES INSIGHTS INTO THE EVOLUTION OF DRUG RESISTANCE

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IMPACT OF SICKLE CELL GENOTYPES ON PEDIATRIC MALARIA OUTCOMES IN A HOLOENDEMIC *PLASMODIUM FALCIPARUM* TRANSMISSION REGION: INSIGHTS FROM A LONGITUDINAL STUDY

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EVALUATING HOW THE MEANING OF IDENTICAL BY DESCENT VARIES WITH MUTATION AND RECOMBINATION RATESJaneesh K. Bansal¹, Meng-Chun Chang², Robert Verity³, Richard A. Nichols¹, John Wakeley⁴, Hsiao-Han Chang²¹Queen Mary University of London, London, United Kingdom, ²National Tsing Hua University, Hsinchu City, Taiwan, ³Imperial College London, London, United Kingdom, ⁴Harvard University, Cambridge, MA, United States[\(ACMCIP Abstract\)](#)

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DYSREGULATION OF VASO-OCCLUSIVE AND VASOCONSTRICTIVE MOLECULAR PATHWAYS IN PEDIATRIC PATIENTS WITH SICKLE CELL ANEMIA AND SEVERE MALARIA ANEMIAShamim W. Osata¹, Sharley W. Wasena², Qiuying Cheng³, Evans Raballah⁴, Ivy Hurwitz³, Clinton O. Onyango², Philip D. Seidenberg³, Benjamin H. McMahon⁵, Kristan A. Schneider⁶, Collins Ouma⁷, Samuel B. Anyona⁷, Douglas J. Perkins³¹University of New Mexico-Kenya Global Health Programs, Kisumu and Siaya, Kenya, ²Department of Biomedical Sciences and Technology, School of Public Health and Community Development, Maseno University, Maseno, Kenya, ³Department of Internal Medicine, Center for Global Health, University of New Mexico, Albuquerque, NM, United States, ⁴Department of Medical Laboratory Sciences, School of Public Health, Biomedical Sciences and Technology, Masinde Muliro University of Science and Technology, Kakamega, Kenya, ⁵Theoretical Biology and Biophysics Group, Theoretical Division, Los Alamos National Laboratory, Los Alamos, NM, United States, ⁶Department Applied Computer and Bio-Sciences, University of Applied Sciences Mittweida, Mittweida, Germany, ⁷Department of Medical Biochemistry, School of Medicine, Maseno University, Maseno, Kenya[\(ACMCIP Abstract\)](#)

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DECLINING POLYMORPHISM OF THE C-TERMINUS MEROZOITE SURFACE PROTEIN 1 AMIDST INCREASED PLASMODIUM KNOWLESII TRANSMISSION IN THAILANDParsakorn Tapaopong
Mahidol University, Bangkok, Thailand[\(ACMCIP Abstract\)](#)

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PREDICTING THE FUNCTIONAL IMPACT OF STRUCTURAL VARIATION AT A PLASMODIUM FALCIPARUM SICKLE-ASSOCIATED LOCUSAnnie J. Forster¹, James Docker¹, Anna Jeffreys¹, Richard Pearson², Katie Healey¹, Mariateresa de Cesare¹, Alex J. Mentzer¹, Jason Hendry³, Gavin Band¹¹University of Oxford, Oxford, United Kingdom, ²Wellcome Sanger Institute, Cambridge, United Kingdom, ³Max Planck Institute, Berlin, Germany[\(ACMCIP Abstract\)](#)

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DEVELOPMENT OF PLASMODIUM FALCIPARUM WHOLE GENOME SEQUENCING WORKFLOW USING OXFORD NANOPORE SEQUENCING TECHNOLOGY TO SUPPORT MALARIA MOLECULAR SURVEILLANCE IN TANZANIACatherine Bakari¹, Aurel Holzschuh², Pierre Schneeberger², Celine I. Mandara¹, Jeffrey A. Bailey³, Jonathan J. Juliano⁴, Pascal Mäser², Deus S. Ishengoma¹, Christian Nsanzabana²¹National Institute for Medical Research, Dar es Salaam, United Republic of Tanzania, ²Swiss Tropical and Public Health Institute, Basel, Switzerland, ³Brown University, Providence, RI, United States, ⁴University of North Carolina, Chapel Hill, NC, United States[\(ACMCIP Abstract\)](#)

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SURVEILLING PLASMODIUM FALCIPARUM AT FIRST ANTENATAL CARE VISITS THROUGH GENOMICS IN MOZAMBIQUEGlória Matambisso¹, Clemente Silva¹, Dário Tembisse¹, Simone Boene¹, Paulino da Costa da Costa¹, Henriques Mbeve¹, Nelo Ndimande¹, Eduard Rovira-Vallbona², Nanna Brokhattingen³, Andrés Aranda-Díaz Aranda-Díaz⁴, Bryan Greenhouse⁴, Neide Canana⁵, Bernadete Rafael⁶, Sónia Enosse⁵, Maria Rodrigues⁵, Baltazar Candrinho⁷, Francisco Saúde¹, Alfredo Mayor⁸¹Centro de Investigação em Saúde de Manhiça (CISM), Manhiça district, Mozambique, ²ISGlobal, Barcelona Institute for Global Health (ISGlobal), Barcelona, Spain, ³Barcelona Institute for Global Health (ISGlobal), Barcelona, Spain, ⁴EPPIcenter Research Program, Division of HIV, Infectious Disease and Global Medicine, Department of Medicine, University of California San Francisco, California San Francisco, CA, United States, ⁵Malaria Consortium (MC), Maputo, Mozambique, ⁶National Malaria Control Program (NMCP), Ministry of Health, Maputo, Mozambique, ⁷National Malaria Control Program (NMCP), Maputo, Mozambique, ⁸Centro de Investigação em Saúde de Manhiça (CISM); ISGlobal, Barcelona Institute for Global Health (ISGlobal); Spanish Consortium for Research in Epidemiology and Public Health (CIBERESP) and Department of Physiologic Sciences, Faculty of Medicine, Manhiça district, Mozambique[\(ACMCIP Abstract\)](#)

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ANALYTICAL VALIDATION OF A CAPILLARY ELECTROPHORESIS METHOD TO GENOTYPE P. FALCIPARUM GENES MSP1, MSP2, AND THE NEUTRAL MICROSATELLITE MARKER POLY-ACulzean Kennedy¹, Breanna Horton¹, Zhiyong Zhou², Samaly Souza², Dragan Ljolje², Ira Goldman², Jessica McCaffery², Rispah Abdallah¹, Amy Kong², Stephen Lindstrom², Molly M. Freeman²¹Oak Ridge Institute for Science and Education, Oak Ridge, TN, United States, ²Laboratory Science and Diagnostics Branch, US Centers for Disease Control and Prevention, Atlanta, GA, United States[\(ACMCIP Abstract\)](#)

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SURVEILLANCE OF PFHRP2 GENE DELETIONS AND ASSESSMENT OF FALSE NEGATIVE RDT OUTCOMES FOR MALARIA DIAGNOSTICS IN SENEGALDjiby SOW¹, Awa Dème¹, Ibrahima M. Ndiaye¹, Mamadou A. Diallo¹, Aïta Sene¹, Amy Gaye¹, Mariama Toure¹, Mouhamad Sy¹, Tolla Ndiaye¹, Mamadou S. Yade¹, Yaye D. Ndiaye¹, Khadim Diongue¹, Jules F. Gomis¹, Mame C. Seck¹, Mouhamadou Ndiaye¹, Ndeye C. Diop¹, Nougaye Gadiaga¹, Elhadj M. Ba¹, Mamane N. Garba¹, Bassirou Ngom¹, Fatou F. Ba², Ibrahima Diallo², Medoune Ndiop², Sarah K. Volkman³, Bronwyn MacInnis⁴, Doudou Sene², Aida S. Badiane¹, Dyann F. Wirth³, Daouda Ndiaye¹¹International Center for Research and Training on Applied Genomics and Health Surveillance (CIGASS) - Cheikh Anta DIOP University (UCAD), Dakar, Senegal, ²National Malaria Control Program, Dakar, Senegal, ³Department of Immunology and Infectious Diseases, Harvard T.H. Chan School of Public Health, Boston, MA, United States, ⁴Infectious Disease and Microbiome Program, Broad Institute, Cambridge, MA, United States[\(ACMCIP Abstract\)](#)

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GENOMIC EPIDEMIOLOGY OF MALARIA IN ZANZIBAR: DEFINING THE ROLE OF IMPORTATION AND LOCAL TRANSMISSIONSean Connelly¹, Mohamed Ali², Billy E. Ngasala³, Wahida Hassan², Bakari Mohamed², Safia Mohammed², Shija J. Shija², Abdallah Zacharia³, Msolo C. Dominick³, Rebecca Crudale⁴, Varun Goel⁵, Barbara B. Cholo⁶, Anders Björkman⁷, Jeffrey A. Bailey⁴, Jessica T. Lin⁶, Jonathan J. Juliano⁶¹MD-PhD Program, University of North Carolina, Chapel Hill, NC, United States, ²Zanzibar Malaria Elimination Program (ZAMEP), Zanzibar, United Republic of Tanzania, ³Department of Parasitology and Medical Entomology, Muhimbili University of Health and Allied Sciences, Dar es Salaam, United Republic of Tanzania, ⁴Department of Pathology and Laboratory Medicine, Brown University, Providence, RI, United States, ⁵Carolina Population Center, University of North Carolina, Chapel Hill, NC, United States, ⁶Division of Infectious Diseases, Department of Medicine, School of Medicine, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, ⁷Department of Global Public Health, Karolinska Institutet, Stockholm, Sweden[\(ACMCIP Abstract\)](#)

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EVALUATION OF THE MSP1, MSP2, AND POLY-A METHOD FOR DISTINGUISHING NEW INFECTIONS FROM RECRUDESCENCE

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(ACMCIP Abstract)

Malaria - Immunology

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SEROLOGICAL BIOMARKERS FOR DETECTION OF ASYMPTOMATIC PLASMODIUM VIVAX-INFECTED INDIVIDUALS IN THE PERUVIAN AMAZON

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(ACMCIP Abstract)

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INVESTIGATING THE ROLE OF NON-VAR2CSA SPECIFIC ANTIBODIES IN PROTECTION FROM PLACENTAL MALARIA

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(ACMCIP Abstract)

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EVALUATE THE ROLE OF CYTOKINES AND CHEMOKINES IN THE DEVELOPMENT OF COMPLICATIONS IN MALARIA CAUSED BY P. VIVAX

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(ACMCIP Abstract)

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IGG ANTIBODY-MEDIATED COMPLEMENT FIXATION AND ACTIVITY AND ITS ASSOCIATIONS WITH PROTECTION AGAINST SEVERE MALARIA

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(ACMCIP Abstract)

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MOSQUITO-PLASMODIUM IGG ANTIBODIES AND CLINICAL PRESENTATION OF MALARIA IN COLOMBIA

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(ACMCIP Abstract)

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ASSOCIATION OF NOVEL IGG3 ALLELE WITH MALARIA IN CHILDREN FROM SEPIK REGION OF PAPUA NEW GUINEA

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MATURATION AND DIVERSIFICATION OF THE B AND T CELL RECEPTOR REPERTOIRES OVER 9 YEARS OF REPEATED MALARIA INFECTIONS

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THE CD4⁺T CELL MEMORY IN *PLASMODIUM FALCIPARUM* MALARIAMarie-Theres Thieme¹, Johannes Brandt², Maren Sandkuhl¹, Thomas Jacobs², Maria Sophia Mackroth¹¹University Medical Center Hamburg-Eppendorf, Hamburg, Germany, ²Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany

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INFLUENCE OF CYTOKINE RATIO (IL-10: TNF- ALPHA) ON ANAEMIA STATUS OF MALARIOUS CHILDREN IN SOUTH EASTERN NIGERIAChinyere IHUARULAM Okoro¹, Oluchi Ijeoma Okoro², Kingsley Excell Dunga³, Easter Godwin Nwokah⁴¹FEDERAL UNIVERSITY TEACHING HOSPITAL, Owerri North, Nigeria, ²Life streams laboratory, Asaba, Nigeria, ³Rhema University Aba, Abia, Nigeria, ⁴River State University, Portharcourt, Nigeria

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FICOLIN-1 IN PAEDIATRIC *PLASMODIUM FALCIPARUM* MALARIA AND ITS POSSIBLE ROLE IN PARASITE CLEARANCE AND ANAEMIADi Zheng¹, Natalie Ferrington¹, Dilini Rathnayake¹, Agersew Alemu¹, Visopo Harawa², Emily Karahalios³, Wina Hasang¹, Evelyne Gout⁴, Nicole Thielens⁴, Karl Seydel⁵, Terrie Taylor⁵, Wilson Mandala⁶, Stephen Rogerson¹, Elizabeth Aitken¹, Louise Randall¹¹Peter Doherty Institute of Infection and Immunity, Melbourne, Australia, ²Kamuzu University of Health Sciences, Blantyre, Malawi, ³University of Melbourne, Melbourne, Australia, ⁴University of Grenoble Alpes, Grenoble, France, ⁵Blantyre Malaria Project, Blantyre, Malawi, ⁶Kamuzu University of Health Sciences, Blantyre, Malawi

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ASSESSMENT FOR NEUTROPHIL EXTRACELLULAR TRAPS MARKERS IN *PLASMODIUM FALCIPARUM* MALARIA INFECTED PREGNANT WOMEN IN A HIGH MALARIA BURDEN REGIONRebecca Chukwuanukwu¹, Chioma Agu¹, Alfred Ehiaghe¹, Dorothy Ezeagwuna², Gerald Udigwe³, Martin Herrmann⁴¹Nnamdi Azikiwe University, Awka, Awka, Nigeria, ²Parasitology Unit, Nnamdi Azikiwe University Teaching Hospital, Nnewi, Nnewi, Nigeria, ³Obstetrics & Gynaecology Department, Nnamdi Azikiwe University, Awka, Nnewi, Nigeria, ⁴Friedrich-Alexander University, Erlangen-Nurnberg, Germany

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MEMORY CD8⁺ T-CELLS SPECIFIC FOR CIRCUMSPOROZOITE PROTEIN EPIPOPE SEQUENCE YLNKIQNSL RECOGNIZE AND KILL *PLASMODIUM FALCIPARUM* MALARIA INFECTED HEPATOCYTESRoos van Schuijlenburg¹, Beatrice Winkel¹, Sascha Bezemer¹, Severine C. Chevalley-Maurel¹, Jeroen C. Sijtsma¹, Krista E. Meijgaarden¹, Els Baalbergen¹, Fiona Geurten¹, Felix M. Behr², Giampietro Corradin³, Ramon Arens², Blandine Franke-Fayard¹, Meta Roestenberg¹¹Leiden University Center for Infectious Diseases (LU-CID), Leiden University Medical Center, Leiden, Netherlands, ²Department of Immunohematology and Blood Transfusion, Leiden University Medical Center, Leiden, Netherlands, ³Institute of Biochemistry, University of Lausanne, Epalinges, Switzerland

(ACMCIP Abstract)

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BONE VOYAGE: HOW *PLASMODIUM* INFECTION DISRUPTS THE PLASMA CELL MICROENVIRONMENT IN THE BONE MARROWElizabeth Fusco, Alexander R. Maldeney, Layne Bower, Wei Luo, Nathan W. Schmidt
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(ACMCIP Abstract)

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NOVEL ASSAY TO ASSESS THE SEROLOGICAL EQUIVALENCE OF VACCINE-INDUCED RESPONSES TO CRITICAL MONOCLONAL ANTIBODIESJessica S. Bolton¹, Randall S. MacGill², Emily Locke², Elke S. Bergmann-Leitner¹¹Biologics Research & Development Branch, Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Center for Vaccine Innovation and Access, PATH, Washington, DC, United States

(ACMCIP Abstract)

Malaria - Parasite Transmission Biology

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BURKHOLDERIA GLADIOLI'S PRODUCTION OF ARSINOTHRICIN TO LIMIT TRANSMISSIBILITY OF P.F. WHEN INTRODUCED INTO THE AG. MIDGUT

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THE LSHTM HUMAN MALARIA TRANSMISSION FACILITY: AN OPEN FACILITY FOR EXPERIMENTAL TRANSMISSION STUDIES OF *PLASMODIUM* PARASITES

Mojca Kristan, Harry Pollard, Lindsay Stewart, Luke Brandner-Garrod, Mufuliat T. Famodimu, Penny Sparkes, Eduardo Alves, Gisela Henriques, Chris J. Drakeley, Christiaan van Ooij, Michael Delves, Colin J. Sutherland

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ASSESSING THE IMPACT OF DRUG RESISTANCE ON MALARIA TRANSMISSIONMargarida Ruivo¹, Ines Marreiros¹, Ana Belen Garcia¹, Malhar Krushu², Selina Bopp², David Calvo¹, Lorena Cortes¹, Carmen Cuevas¹, Helena Garuti¹, Jose Luis Llergo¹, Noemi Magan¹, Sara Viera-Morilla¹, Dyann Wirth³, Maria Jose Lafuente-Monasterio¹, Amanda Lukens³¹GSK, Global Health Medicines R&D, Tres Cantos, Madrid, Spain, ²Harvard T.H. Chan School of Public Health, Boston, MA, MA, United States, ³Broad Institute of MIT and Harvard, Cambridge, MA, MA, United States

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EXPERIMENTAL INFESTATION OF *ANOPHELES GAMBIAE* WITH *PLASMODIUM OVALE* ISOLATES FROM PATIENTS WITH UNCOMPLICATED MALARIA

Fatoumata I. BALLO, Laurent Dombé, Dinkorma Ouologuem, Karim Sawadogo, Mohamed Touré, Yacouba N. Barré, Siaka M. Goïta, Alpha Seydou Yaro, Abdoulaye Djimé

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PRELIMINARY CHARACTERIZATION OF *PLASMODIUM FALCIPARUM* SPLICING FACTOR 3A SUBUNIT 2 (SF3A2) GENE IN GAMETOCYTE DEVELOPMENT

Olatunbosun Olanbani Aringbangba, Camilla V. Pires, Prem Prakash, Shulin Xu, Min Zhang, Chengqi Wang, John Adams

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MALARIA RISK STRATIFICATION: A CRITICAL TOOL FOR MALARIA CONTROL AND ELIMINATION IN HIGH BURDEN COUNTRY, CASE OF MALI

Mady Cissoko¹, Mahamadou Magassa¹, Assitan Dembélé¹, Seybou Coulibaly¹, Ibrahim A. Cissé¹, Daouda S. Samaké¹, Chaka Sanogo¹, Vincent Sanogo¹, Aissata Koné¹, Mamady Koné², Sylla Thiam³, Seydou Fomba¹, Issaka Sagara²

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ASSESSMENT OF MOSQUITO FEEDING ASSAYS TO MEASURE ENDPOINTS IN CHILDREN FOR FUTURE TRANSMISSION BLOCKING TRIALS

Daman Sylla¹, Adama Sacko¹, Heather Goodman², Mahamadou H. Maiga¹, Abdrahamane Fofana¹, Boubacar Coulibaly¹, Moussa Diallo¹, Sale Sidibe¹, Yacouba Diarra¹, Amadou Berthe¹, Mohamed L. Diarra¹, Moridie Sidibe¹, Salifou Kone¹, Sekou Goita¹, Adama Coulibaly¹, Mariam Doumbia¹, Amadou Guindo¹, Ousmane Sacko¹, Yacouba Dembele¹, Amadou S. Traore¹, Issaka Sagara¹, Sara A. Healy², Alpha S. Yaro¹, Patrick E. Duffy², Jen C. Hume²

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Malaria - Prevention

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COMMUNITY ACCEPTABILITY OF ATTRACTIVE TARGETED SUGAR BAITS IN A CLUSTER RANDOMIZED CONTROLLED TRIAL IN WESTERN KENYA

Caroline Ogwang¹, Teresa Bange¹, Omollo Mevis¹, Dominic Ouma¹, Brian Seda¹, Julia M. Janssen², Jonathan S. Schultz³, Julie R. Gutman², Aaron M. Samuels³, Simon Kariuki¹, Feiko ter Kuile¹, Sarah G. Staedke⁴, George Okello⁴

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A SYSTEMATIC REVIEW OF THE COST OF DELIVERING SEASONAL MALARIA CHEMOPREVENTION

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EQUITY IN ACCESS TO IPTP3+ AMONG WOMEN WHO ATTENDED ANC4 IN 12 SUB-SAHARAN COUNTRIES, BEFORE AND AFTER WHO RECOMMENDATION CHANGES

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COMMUNITY-BASED STRATEGIES TO INCREASE UPTAKE OF INTERMITTENT PREVENTIVE TREATMENT IN PREGNANCY WITH SULFADOXINE-PYRIMETHAMINE IN SUB-SAHARAN AFRICA: A SYSTEMATIC REVIEW, META-ANALYSIS, META-ETHNOGRAPHY, AND ECONOMIC ASSESSMENT

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ASSESSMENT OF EPIDEMIOLOGIC IMPACT ON MALARIA FOLLOWING DRONE-BASED LARVICIDING WITH *BACILLUS THURIGIENSIS ISRAELENSIS* IN TWO DISTRICTS OF MADAGASCAR, 2022

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THE EFFECT OF INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANCY (IPTP) ON THE MATERNAL INTESTINAL MICROBIOME AND ITS RELATIONSHIP WITH FETAL GROWTH

Patricia J. Hunter¹, Dagmar G. Alber¹, Jemima A. Hair¹, Lily Gates¹, Godwin Tembo², Crispin Mukerebe³, Mwayiwawo Madanitsa⁴, Hellen C. Barsosio⁵, Daniel T. Minja⁶, John P. Lusingu⁶, Eric D. Onyango⁶, Jenny Hill⁷, James Dodd⁷, Ulla Ashorn⁸, Julie R. Gutman⁹, Nigel Klein¹, Feiko O. ter Kuile⁵, Raymond M. Chico¹⁰

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ANTIPLASMODIAL AND INSECTICIDAL ACTIVITIES OF THIRD GENERATION IVERMECTIN HYBRIDS

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ASSESSING THE 2023 SCHOOL-BASED INSECTICIDE-TREATED NET DISTRIBUTION IN KONO DISTRICT, SIERRA LEONE

Keith Esch¹, Prince Owusu², Frederick Yamba³, Raymond Sudoi⁴, Malia Skjefte⁵, Musa Sillah-Kanu⁶, Jenny Carlson⁶, Temitayo Labor⁷, Kevin Opondo⁸, Djenam Jacob⁹, Charlene Youssef¹⁰, Prince Nallo¹⁰, Elisabeth Tyler¹, Stephen Poyer¹¹

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KNOWLEDGE, ATTITUDES, PRACTICES AND SATISFACTION OF DIGITAL PAYMENT BY OPERATORS OF THE INDOOR SPRAYING CAMPAIGN AGAINST MALARIA IN THE HEALTH DISTRICT OF KOUMPENTOUM (SENEGAL)

El Hadji Cheikh Abdoulaye DIOP

District sanitaire de Tambacounda, Tambacounda, Senegal

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LEVERAGING COMMUNITY HEALTH WORKERS TO SUSTAIN UNIVERSAL BED NET COVERAGE IN RURAL UGANDA: A PILOT FEASIBILITY STUDY

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IMPLEMENTATION PERFORMANCE OF INSECTICIDE TREATED NET (ITN) DISTRIBUTION THROUGH THE HEALTH FACILITIES IN TANZANIA: FIVE YEARS OF EXPERIENCE (2018-2022)

Mponeja Gitanya¹, Samuel Lazaro¹, Charles Dismasi¹, Hannah Koenker², Matt Worges³, Benjamin Kamala⁴, Ruth Msolla⁴, Naomi Serbantez⁵, Israel P. Nyarubeli⁶, Heavenlight A. Paulo⁶, William Kisinza⁷, Johnson Matowo⁸

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COMBINING SEASONAL MALARIA CHEMOPREVENTION WITH A MULTI-STAGE PRODUCT FOR MALARIA PREVENTION: A MATHEMATICAL MODELLING STUDY

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IDENTIFICATION AND MAPPING AREAS WITH AN INCREASED RISK OF MALARIA TRANSMISSION AMONG HARD-TO-REACH HIGH-RISK GROUPS IN RWANDA

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INSECTICIDE TREATED NET (ITN) TARGETED MASS CAMPAIGN (TMC) FOR MALARIA PREVENTION IN THE KAGERA REGION, TANZANIA: IMPLEMENTATION PROCESSES, OUTCOMES AND CHALLENGES

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PREGNANCY DESIRES AND MALARIA PREVENTION IN SUB-SAHARAN AFRICA

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ASSESSING MISSED OPPORTUNITIES IN ROUTINE LONG-LASTING INSECTICIDE-TREATED NETS DISTRIBUTION AMONG PREGNANT WOMEN ATTENDING PUBLIC HEALTH FACILITIES IN TARGETED COUNTIES IN KENYA

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EFFECTS OF FACILITY BASED MALARIA SURVEILLANCE MONITORING AND EVALUATION MENTORSHIP MODEL ON DATA QUALITY IN KAKAMEGA COUNTY, KENYA

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IMPROVING THE APPROACH TO MONITOR AND REPORT ON COVERAGE OF MALARIA INTERMITTENT PREVENTIVE TREATMENT IN PREGNANCY: TIME FOR A RETHINK

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SETTING UP A SUSTAINABLE ACTIVE SURVEILLANCE SYSTEM IN SOUTHERN ANGOLA: PROGRESS TOWARDS MALARIA ELIMINATION IN THE SOUTHERN AFRICA REGION

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PFS230D1 24- AND 60-COPY SINGLE COMPONENT MALARIA TRANSMISSION BLOCKING NANOPARTICLE VACCINES ELICIT A POTENT AND DURABLE RESPONSE UPON VACCINATION

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SINGLE IMMUNIZATION WITH GENETICALLY ATTENUATED PLASMODIUM FALCIPARUM ΔMEI2 (GA2) SPOOROZITES INDUCES HIGH LEVEL PROTECTION AGAINST A CONTROLLED HUMAN MALARIA INFECTION

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CHARACTERIZING THE SEROLOGICAL IGG REPERTOIRE OF TANZANIAN CHILDREN VACCINATED WITH NOVEL MALARIA BLOOD-STAGE CANDIDATE RH5.1/MATRIX-M ADJUVANT

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November 14

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VALIDATION OF CIRCULAR RNA VACCINE PLATFORM FOR MALARIA TRANSMISSION BLOCKING VACCINE

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A WHOLE ORGANISM *PLASMODIUM VIVAX* BLOOD STAGE VACCINE PARTIALLY PROTECTS AOTUS MONKEYS AGAINST A HOMOLOGOUS EXPERIMENTAL INFECTION

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ACCEPTABILITY AND FEASIBILITY OF ADMINISTERING RTS,S/AS01 MALARIA VACCINE TO SCHOOL-AGED CHILDREN IN SOUTHERN MALAWI

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IN-SILICO ANALYSIS OF *PLASMODIUM FALCIPARUM* SURFACE PROTEINS AND MONOCLONAL ANTIBODIES TO DESIGN MALARIA VACCINE

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Melanie Kiener¹, Caroline Ichura¹, Bryson A. Ndenga², Francis M. Mutuku³, Christabel A. Winter², Victoria Okuta⁴, Laura Mwambugu², Kevin Ogamba², Karren N. Shaita², Charles Ronga², Philip Chebi⁵, Jael Amugongo³, Said Malumbo⁵, Omar Godana⁵, Zainab Jembe⁶, Charles Ng'ang'a⁵, Mwangosho Mazera⁵, A. Desiree LaBeaud¹

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TROPICAL SPASTIC PARAPARESIS AND ADULT T CELL LEUKEMIA-LYMPHOMA CO-PRESENTATION IN AN HTLV-1 PATIENT

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PARASITES IN HISTOPATHOLOGY: A TEACHING HOSPITAL EXPERIENCE

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DEVELOPMENT OF FUNCTIONAL BOWEL DISORDERS AFTER TRAVEL IN DEPARTMENT OF DEFENSE BENEFICIARIES

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EVALUATING THE IMPACT OF A LAO LANGUAGE MOBILE PHONE APPLICATION ON ADHERENCE TO ANTIMICROBIAL PRESCRIBING GUIDELINES IN LAO PDR

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VACCINE-INDUCED ANTIBODY LEVELS IN A PEDIATRIC POPULATION WITH WIDESPREAD ANTIBIOTIC USE

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CLINICAL PRESENTATION, TREATMENT, AND OUTCOMES OF NEUROCYSTICERCOSIS AT AN ACADEMIC MEDICAL CENTER IN THE STATE OF FLORIDA, USA

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EPIDEMIOLOGY, CLINICAL PRESENTATION, AND MANAGEMENT OF SNAKEBITES IN GHANA: INSIGHTS FROM A RETROSPECTIVE STUDY AT A DISTRICT-LEVEL HOSPITAL

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ELIMINATION GOALS FOR ONCHOCERCIASIS CAN BE PROGRESSED FASTER BY INCORPORATING TREATMENT WITH REPURPOSED DRUGS THAT TARGET VARIOUS STAGES OF FILARIAL WORMS

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EVALUATION OF A NOVEL BIPLEX RAPID DIAGNOSTIC TEST FOR ANTIBODY RESPONSES TO LOA LOA AND ONCHOCERCA VOLVULUS INFECTIONS

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MAMMALIAN EXPRESSED OV16 ELISA PERFORMANCE ON GHANA PROGRAM SAMPLES IN COMPARISON TO ELUTED DRIED BLOOD SPOT ON OV16 RAPID DIAGNOSTIC TEST

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WHO LABORATORY CAPACITY REVIEW TOOL FOR ONCHOCERCIASIS

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SAFETY OF A SINGLE DOSE OF MOXIDECTIN AND OF IVERMECTIN: FIRST RESULTS OF A LARGE STUDY IN INDIVIDUALS LIVING IN AN ONCHOCERCIASIS ENDEMIC AREA OF THE DEMOCRATIC REPUBLIC OF CONGO AND IN AN ONCHOCERCIASIS-LYMPHATIC FILARIASIS CO-ENDEMIC AREA IN CÔTE D'IVOIRE

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FEASIBILITY OF A NOVEL ONCHOCERCIASIS RAPID DIAGNOSTIC TEST IN MARIDI, SOUTH SUDAN

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A ROBOTIC AI MICROSCOPE FOR AUTONOMOUS FILARIASIS QUANTIFICATION BASED ON SMARTPHONES AND OPTICAL MICROSCOPY

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PREGNANCY, ONCHOCERCA VOLVULUS INFECTION AND IVERMECTIN USE: A CROSS-SECTIONAL STUDY

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PRE-CLINICAL DEVELOPMENT OF THE ANTI-WOLBACHIAL DRUG CORALLOPYRONIN A TO TREAT FILARIAES: END RUN TO PHASE 1 TRIAL

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Helminths – Nematodes – Intestinal Nematodes

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PERFORMANCE OF QUANTITATIVE PCR FOR THE DETECTION OF SOIL-TRANSMITTED HELMINTHS IN COMPARISON TO KATO-KATZ PRECEDING AND FOLLOWING COMMUNITY-WIDE MASS DRUG ADMINISTRATION IN TAMIL NADU, INDIA

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STATUS OF SOIL TRANSMITTED HELMINTHIASIS AND THEIR RISK-FACTORS AMONG SCHOOL PUPILS AND NOMADIC -FULANIS IN SELECTED COMMUNITIES IN OSUN-STATE, SOUTHWEST, NIGERIA

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(ACMCIP Abstract)

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EVALUATION OF *STRONGYLOIDES STERCORALIS* SS-IR RECOMBINANT ANTIGEN FOR DIAGNOSTIC AND SURVEILLANCE USING A BEAD-BASED IMMUNOASSAY

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(ACMCIP Abstract)

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EUKARYOTIC ENTERIC PATHOGENS RELATIONSHIP WITH THE GUT FUNGAL COMMUNITY IN MALIAN CHILDREN

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PHARMACOPHORE APPROACH TO THE PREDICTION OF ACTIVATORS OF DAF-12 RECEPTOR TO DEACTIVATE AUTO-INFECTION LIFE CYCLE STAGE OF *STRONGYLOIDES STERCORALIS*

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EFFECT OF KNOWLEDGE, AWARENESS AND PARTICIPATION ON SUSTAINED REDUCTION OF SOIL-TRANSMITTED HELMINTH INFECTIONS AMONG SCHOOL-AGE CHILDREN IN RIVERS STATE NIGERIA

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A TWO-PRONGED BIG DATA APPROACH TO CRITICALLY ANALYZE *STRONGYLOIDES STERCORALIS* INFECTIONS AMONG RURAL, IMPOVERISHED SOUTH CAROLINA RESIDENTS

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(ACMCIP Abstract)

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APPLICATION OF QPCR TO DETERMINE COMMUNITY PREVALENCE OF *STRONGYLOIDES STERCORALIS* IN SOUTHERN INDIA

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IMPACT OF PREVENTIVE CHEMOTHERAPY ON THE STATUS OF SOIL-TRANSMITTED HELMINTHIASIS ACROSS THREE IMPLEMENTATION UNITS IN ONDO STATE, NIGERIA

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RESISTANCE OF SOIL TRANSMITTED HELMINTHS TO SINGLE DOSE ALBENDAZOLE AND RESULTS OF COMBINED THERAPY WITH ALBENDAZOLE AND IVERMECTIN IN CHILDREN AGED 2 TO 11 YEARS IN THE PERUVIAN AMAZON

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IDENTIFICATION OF NOVEL BIOMARKERS FOR SEROSURVEILLANCE OF HUMAN HOOKWORM INFECTIONS

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SOIL-TRANSMITTED HELMINTHS (STHS) IDENTIFIED IN ENVIRONMENTAL SAMPLES (SOIL AND FECAL MATTER) COLLECTED FROM SOME PRIMARY SCHOOLS IN GHANA

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SEROPREVALENCE AND ASSOCIATED FACTORS OF STRONGYLOIDES STERCORALIS INFECTION AMONG AT-RISK POPULATION IN NORTHERN TAIWAN

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HIGH PREVALENCE OF INTESTINAL PARASITES AMONG ADULTS LIVING IN 36 VILLAGES IN NORTHERN GABON AND RELATIONSHIP WITH BODY MASS INDEX : CROSS-SECTIONAL STUDY

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THE OCCURRENCE OF CROSS-HOST SOIL TRANSMITTED HELMINTH (ASCARIS, TRICHURIS AND ANCYLOSTOMA SPP.) INFECTIONS IN HUMANS AND DOMESTIC/LIVESTOCK ANIMALS: A SYSTEMATIC REVIEW

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ENVIRONMENTAL SURVEILLANCE TOOLS FOR MONITORING COMMUNITY-LEVEL SOIL-TRANSMITTED HELMINTH PREVALENCE

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TARGET MOLECULES OF BACILLUS THURINGIENSIS CRYSTAL PROTEINS AND ANTHELMINTHIC COMPOUNDS IN C. ELEGANS

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CHARACTERIZING GENETIC DIVERSITY AND POPULATION STRUCTURE OF HUMAN HOOKWORMS USING WHOLE GENOME DATA FROM ACCESSIBLE SAMPLE TYPES

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PREVALENCE AND RISK FACTORS OF SOIL-TRANSMITTED HELMINTH INFECTIONS AMONG SCHOOL CHILDREN IN BIKO NORTE PROVINCE, EQUATORIAL GUINEA

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INOCULUM DEPENDENT ANEMIA AND HUMORAL IMMUNE RESPONSES IN HAMSTERS INFECTED WITH A FIELD-ADAPTED STRAIN OF *NECATOR AMERICANUS*

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GUT DYSBIOSIS IN MATERNAL HELMINTH INFECTION

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DISENTANGLING THE COVARYING EFFECTS OF MOTOR DEVELOPMENT AND WEANING FROM BREAST MILK ON INTESTINAL PARASITE INFECTIONS AMONG CHILDREN AGED 0-2 YEARS IN NORTHERN COASTAL ECUADOR

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HIV and Tropical Co-Infections

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HIV MORTALITY TRENDS AMONG THE UNITED STATES POPULATION, FROM 1999-2023: A CDC WONDER DATABASE STUDY

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T CELL RECEPTOR REPERTOIRE ANALYSIS REVEALS A DISTINCT PHENOTYPE OF *MYCOBACTERIUM TUBERCULOSIS* (MTB) SPECIFIC T CELL FUNCTION IN PEOPLE LIVING WITH HIV (PLHIV)

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THE PREVALENCE OF CRYPTOCOCCAL ANTIGENEMIA AMONG PATIENTS WITH ADVANCED HIV DISEASES IN SOUTHWEST AND NORTHCENTRAL NIGERIA

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THREE NOVEL EPIGENETIC-MODIFYING COMPOUNDS IDENTIFIED AS HIV LATENCY-REVERSING AGENTS IN GHANA

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HIV SCREENING ON NEUROSURGICAL PATIENTS IN SRI LANKA; INSIGHT TOWARDS WHEN TO DO IT

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IMPACT OF MHV-68'S HEPATOTROPISM ON A SUBSEQUENT LIVER INFECTION BY MALARIA PARASITES

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RESPIRATORY VIRUSES AND BACTERIA CARRIAGE AMONG PEOPLE LIVING WITH HUMAN IMMUNODEFICIENCY VIRUS IN ACCRA, GHANA

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PLACENTAL AND CONGENITAL MALARIA IN HIV POSITIVE PREGNANT WOMEN AND HIV EXPOSED NEONATES IN ABUJA NIGERIA

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THE IMPACT OF HEPATITIS B CO-INFECTION ON T-CELL RESPONSES IN VIROLOGICALLY SUPPRESSED HUMAN IMMUNODEFICIENCY VIRUS PATIENTS ON ANTIRETROVIRAL THERAPY IN GHANA

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EXPLORING HISTOPLASMOSIS IN NON-ENDEMIC AREAS: COMPARATIVE ANALYSIS OF CLINICAL FEATURES, RISK FACTORS, AND OUTCOME OF HISTOPLASMOSIS IN HIV-POSITIVE AND HIV-NEGATIVE COHORTS IN WESTERN INDIA

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UNVEILING THE NEXUS: PREVALENCE AND ATTRIBUTES OF TUBERCULOSIS POSITIVITY AMONG PEOPLE LIVING WITH HIV IN BANGLADESH

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AGEING AND FRIALTY: THE CASE OF HIV-POSITIVE AND HIV-NEGATIVE INDIVIDUALS IN ASUTIFI-SOUTH DISTRICT AND TECHIAMAN MUNICIPALITY IN AHAFO AND BONO REGIONS OF GHANA

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TATTOOING, CHRONIC DIARRHEA AND ANEMIA - A CLINICAL TRIAD OF HIV INFECTION

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OPTIMIZING SEROLOGICAL DIAGNOSIS OF TOXOPLASMOSIS: HETEROLOGOUS EXPRESSION OF GRA1 PROTEIN OF T. GONDII IN E. COLI AS A KEY ANTIGEN IN CHRONIC INFECTION

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DETERMINANTS OF HEALTH AFFECTING THE CARE CASCADE OF VULNERABLE PEOPLE LIVING WITH HIV IN SENEGAL

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UNVEILING A BROADER STI SPECTRUM: THE ADVANTAGES OF MULTIPLEX PCR FOR TRANSGENDER WOMEN'S HEALTH

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NEURODEVELOPMENTAL OUTCOMES IN UGANDAN PERINATALLY-INFECTED CHILDREN WITH HIV AT PRESCHOOL AGE WHO ARE NOT IMMUNE-COMPROMISED

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INTEGRATING SMOKING CESSATION INTO HIV CARE SETTINGS: A SYSTEMATIC REVIEW OF THE EVIDENCE BASE ON INTERVENTION EFFECTIVENESS AND COST-EFFECTIVENESS

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COST ANALYSIS OF SMOKING CESSATION INTERVENTIONS FOR SMOKERS WITH HIV IN HIV OUTPATIENT CLINIC SETTINGS IN VIETNAM

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LEPROSY, PARASITIC CO-INFECTION, AND FOOD INSECURITY: A CROSS-SECTIONAL STUDY IN MINAS GERAIS, BRAZIL

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CO-INFECTION DYNAMICS: PREVALENCE AND DEMOGRAPHIC INSIGHTS OF HEPATITIS B AND C AMONG HIV PATIENTS

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Kinetoplastida and Other Protozoa - Diagnosis and New Detection Tools (Including Leishmania and Trypanosomes)

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DEVELOPMENT OF A CHAGAS DISEASE SEROLOGIC SCREENING PROGRAM WITHIN AN ACADEMIC PUBLIC SAFETYNET HOSPITAL IN CALIFORNIA

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PRELIMINARY VALIDATION OF ACANTHAMOEBA PCR IN A UK PARASITOLOGY REFERENCE LABORATORY

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EVALUATION OF ANTIGENIC REGIONS OF GRA7 FOR THE DIFFERENTIAL DIAGNOSIS OF ACUTE AND CHRONIC PHASES OF TOXOPLASMOSIS

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FIRST DOCUMENTED DETECTION OF *TRYPANOSOMA CRUZI* IN PARATRIATOMA HIRSUTA

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EXPLOITING THE HUMAN AND ANIMAL HOST INTERACTION WITH *TRYPANOSOMA BRUCEI* GAMBIENSE FOR RAPID DIAGNOSTIC TEST DEVELOPMENT

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EVALUATION OF THE ELISA TECHNIQUE USING SAG1 AND TOTAL ANTIGEN TO DETECT IGG ANTIBODIES AGAINST TOXOPLASMA GONDII IN HEALTHY AND HIGH-RISK HUMAN SERUMS

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PROLIFERATING PARASITES- INCREASES IN THE IDENTIFICATION OF CUTANEOUS LEISHMANIASIS CASES IN NEW YORK STATE

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EVALUATING THE KNOWLEDGE, ATTITUDES, AND PRACTICES OF CHAGAS DISEASE AMONG HEALTH PROFESSIONALS IN SOUTH FLORIDA, USA

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APPLICATION OF RKMP11 BASED ELISA FOR DIAGNOSIS OF CUTANEOUS LEISHMANIASIS CAUSED BY *L. DONOVANI*

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IDENTIFICATION OF ANTIBODY BIOMARKERS TO DIFFERENTIATE POST KALA AZAR DERMAL LEISHMANIASIS FROM LEPROSY

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COMPARATIVE EVALUATION OF 4 MOLECULAR DIAGNOSTIC TESTS FOR THE DETECTION AND IDENTIFICATION OF CUTANEOUS LEISHMANIA PARASITES

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PHAGE DISPLAY IMMUNOPRECIPITATION SEQUENCING (PHIP-SEQ) FOR THE IDENTIFICATION OF *TRYPANOSOMA CRUZI* ANTIGENS WITH DIAGNOSTIC POTENTIAL

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PRODUCTION AND EVALUATION OF LB6H RECOMBINANT ANTIGEN PRODUCED IN BRAZIL TO DIAGNOSE AMERICAN TEGUMENTARY LEISHMANIASIS

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EVALUATION OF THE CROSS-REACTIVITY OF THE RK28 ANTIGEN USED IN THE SEROLOGICAL DIAGNOSIS OF HUMAN VISCERAL LEISHMANIASIS

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VALIDATION OF A WHOLE BLOOD *TRYPANOSOMA CRUZI* QUANTITATIVE RT-PCR ASSAY ACROSS A RELEVANT RANGE OF PARASITEMIA

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THE RELATION BETWEEN RECOMBINANT PROTEIN GRA1 AND SEVERITY INDICATORS IN PATIENTS WITH TOXOPLASMOSIS AND HIV/AIDS CO-INFECTION

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DEVELOPMENT OF ISOTHERMAL AND CRISPR-BASED DIAGNOSTICS FOR THE DETECTION OF *BABESIA* PARASITES

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TOXOPLASMA GONDII IN TERTIARY HOSPITAL, EASTERN SAUDI ARABIA: ROLE OF SEROLOGY AND MOLECULAR DIAGNOSIS AND INSIGHT INTO PREDICTIVE RISK FACTORS

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CHARACTERIZATION OF LEISHMANIASIS IN THE TOURIST CORRIDOR OF THE AMAZONAS REGION, PERU

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Kinetoplastida and Other Protozoa - Genomics, Proteomics and Metabolomics, Molecular Therapeutic Targets (Including *Leishmania* and Trypanosomes)

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ASSOCIATION BETWEEN IMMUNE PROFILE AND CHAGAS DISEASE PROGRESSION IN NATURALLY INFECTED RHESUS MACAQUES

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(ACMCIP Abstract)

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MOLECULAR EPIDEMIOLOGY OF *TRYPANOSOMA CRUZI* IN EL SALVADOR ELUCIDATED BY MULTI-LOCUS SEQUENCE TYPING USING THIRTEEN HOUSE-KEEPING GENES.

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(ACMCIP Abstract)

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CO-INFECTIONS OF *LEISHMANIA DONOVANI* AND *LEISHMANIA MAJOR* IN BLOOD OF PATIENTS WITH VISCERAL LEISHMANIASIS FROM GARISSA COUNTY, NORTHERN KENYA

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(ACMCIP Abstract)

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EVIDENCE FOR VERTICAL TRANSMISSION OF GENETICALLY DIVERSE *TRYPANOSOMA CRUZI* IN A NATURAL RODENT RESERVOIR POPULATION

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(ACMCIP Abstract)

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GENOME ANALYSIS OF *T. CRUZI* FIELD ISOLATES OFFERS THE OPPORTUNITY TO STUDY THE EFFECT OF INFECTION CONTEXT ON PARASITE GENETIC DIVERSITY

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(ACMCIP Abstract)

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

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ACCEPTABILITY AND IMPACT OF THE MAGIC GLASSES LOWER MEKONG, A CARTOON-BASED EDUCATION PACKAGE TARGETING SOIL-TRANSMITTED HELMINTHS AND OPISTHORCHIASIS VIVERRINI IN THE LOWER MEKONG BASIN

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USING PHOTOVOICE AS A COMMUNITY BASED PARTICIPATORY RESEARCH TOOL FOR CHANGING SANITATION AND HYGIENE BEHAVIOURS IN TAABO, COTE D'IVOIRE

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IMPACT OF COMMUNITY PARTICIPATORY APPROACHES IN ENHANCING ACCESS TO MASS DRUG ADMINISTRATION FOR TRACHOMA IN A PASTORAL CONFLICT AREA OF KENYA

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SUPPORTING LYMPHATIC FILARIASIS MORBIDITY MANAGEMENT AND DISABILITY PREVENTION (MMDP) ACTIVITIES IN WEST AFRICA: CASE STUDY FROM NIGERIA AND SIERRA LEONE

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ASSESSING THE CAPACITY OF HEALTH FACILITIES TO DIAGNOSE, TREAT, AND MANAGE VISCERAL LEISHMANIASIS: EVIDENCE FROM TIATY, BARINGO COUNTY, KENYA

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ASSESSING COMMUNITY DRUG DISTRIBUTORS PERFORMANCE IN GHANA; A GENDER BASED APPROACH

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MIXED INFECTIONS OF SOIL TRANSMITTED HELMINTHS & *SCHISTOSOMA MANSONI* AMONG SCHOOL GOING CHILDREN IN KAKAMEGA COUNTY, KENYA

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RISK FACTORS AND ULTRASOUND ASPECTS ASSOCIATED WITH UROGENITAL SCHISTOSOMIASIS AMONG PRIMARY SCHOOL CHILDREN IN MALI WEST AFRICA

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TREATMENT COVERAGE ACHIEVED UNDER TWO ENHANCED MASS DRUG ADMINISTRATION REGIMENS FOR TRACHOMA IN THE REPUBLIC OF SOUTH SUDAN: ENHANCING THE A IN SAFE (ETAS) TRIAL RESULTS

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EFFECTIVENESS OF COMMUNITY HEALTH EDUCATION ON VISCERAL LEISHMANIASIS IN IMPROVING KNOWLEDGE, PRACTICE AND HEALTH SEEKING BEHAVIOR IN TIATY, KENYA

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SOCIO-ECONOMIC PROFILE OF NEVER TREATED INDIVIDUALS DURING MASS DRUG ADMINISTRATION TARGETING ONCHOCERCIASIS IN HARD-TO-REACH AREAS OF MALI: A CROSS-SECTIONAL STUDY

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SOCIO-ECONOMIC IMPACT OF 24-MONTH LYMPHEDEMA MANAGEMENT IN AFFECTED PERSONS IN MALI: CROSS-SECTIONAL STUDY

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SUSTAINABILITY OF LYMPHEDEMA HYGIENE-BASED SELF-CARE WITHIN LEDOXY PATIENTS MORE THAN TWO YEARS AFTER THE CLINICAL TRIAL IN RURAL AREAS, MALI: A CROSS-SECTIONAL STUDY

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MONITORING THE IMPACT OF COMMUNITY-BASED DEWORMING ON SCHISTOSOMIASIS AND SOIL-TRANSMITTED HELMINTHIASIS AMONG SCHOOL-AGE CHILDREN IN WESTERN KENYA: MIDTERM RESULTS

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ASSESSMENT OF KNOWLEDGE, ATTITUDES, PRACTICES AND FACTORS CONTRIBUTING TOWARDS ONGOING TRACHOMA TRANSMISSION AND MASS DRUG ADMINISTRATION (MDA) COVERAGE IN UGANDA

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TREATMENT COVERAGE FOLLOWING AN ENHANCED MASS DRUG ADMINISTRATION STRATEGY FOR TRACHOMA IN AMHARA REGION, ETHIOPIA: THE CHILD MDA PILOT STUDY

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SAMPLING AND SITE SELECTION STRATEGIES FOR LYMPHATIC FILARIASIS TRANSMISSION ASSESSMENT SURVEYS IN AREAS WITH HIGH SECURITY CHALLENGES: THE BURKINA FASO EXPERIENCE

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THE CONTROL AND ELIMINATION OF NEGLECTED TROPICAL DISEASES IN MALI: A SUCCESS STORY

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A FOLLOW-UP STUDY IN 2024: SCHISTOSOMIASIS IMPACT ASSESSMENT IN EIGHT DISTRICTS FOLLOWING A DECADE OF MASS DRUG ADMINISTRATION

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FIX-DOSING IVERMECTIN REGIMENS IN MASS DRUG ADMINISTRATION ACTIVITIES. IS IT TIME TO LEAVE THE DOSING POLE BEHIND?

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ALTERATION OF THE MURINE GUT MICROBIOTA MEDIATES ANTIDEPRESSANT EFFECT OF *MALLOTUS OPPOSITIFOLIUS* EXTRACT

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SETTING THE PLATFORM FOR THE ELIMINATION OF STRONGYLOIDIASIS IN AUSTRALIA

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EPIDEMIOLOGY AND CLINICAL CHARACTERISTICS OF RESPIRATORY SYNCYTIAL VIRUS IN PATIENTS WITH INFLUENZA LIKE ILLNESS IN THE GAMBIA: RESULTS FROM A NEWLY IMPLEMENTED SENTINEL SURVEILLANCE PROGRAM

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RESPIRATORY SYNCYTIAL VIRUS (RSV)-INDUCED METABOLITES REGULATE MITOCHONDRIAL HETEROGENEITY THROUGH LUNG-BRAIN AXIS

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IMPROVED TUBERCULOSIS DETECTION BY PARTIAL AMPLICON CAPTURE AND RECONSTRUCTION OF PLAMID DNA FRAGMENTS DEGRADED IN URINEDavid Evans¹, Megan Pask¹, Jonathan Blackburn², Frederick Haselton¹¹Vanderbilt University, Nashville, TN, United States, ²University of Cape Town, Cape Town, South Africa

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HEALTHCARE FACILITY-BASED INTENSIFIED TUBERCULOSIS CASE DETECTION IN ETHIOPIA: OPPORTUNITIES AND CHALLENGESEsayas Kebede Gudina¹, Nasir Abdo², Demissu Fulas³, Kolato Gemed³, Sitota Tesfaye³, Dereje Adugna³, Gameda Abebe¹¹Jimma University, Jimma, Ethiopia, ²Jimma Zone Health Department, Jimma, Ethiopia, ³Oromia Health Bureau, Addis Ababa, Ethiopia

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IL-26 DIFFERENTIALLY AFFECTS THE INFLAMMATORY RESPONSE OF HUMAN MACROPHAGES TO MYCOBACTERIUM TUBERCULOSIS WHOLE CELL LYSATESJose Barragan¹, Diana Padilla¹, Jorge Cervantes²¹TTUHSC El Paso, El Paso, TX, United States, ²Nova Southeastern University, Fort Lauderdale, FL, United States

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THE IMPACT OF A NEW RAPID DIAGNOSTIC TEST FOR SCHOOL-BASED PREVALENCE MAPPING AND MONITORING AND EVALUATION OF SCHISTOSOMIASIS: A MODELLING STUDYJoshua M. Chevalier¹, Kyra H. Grant², Sarah Girdwood², Thierry Ramos², Brooke E. Nichols², Shaukat Khan², Sarah Hingel²¹Amsterdam Institute for Global Health and Development, Amsterdam UMC, University of Amsterdam, Amsterdam, Netherlands, ²FIND, Geneva, Switzerland

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SYNTHESIS AND ANTISCHISTOSOMAL STRUCTURE-ACTIVITY RELATIONSHIP PROFILING OF N-PYRIDAZIN-3-YLBENZAMIDES

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DETECTION OF SCHISTOSOMA HAEMATOBIIUM CELL-FREE DNA IN URINE SAMPLES STORED ON FILTER PAPERS TO IMPROVE THE DIAGNOSTIC OF URINARY SCHISTOSOMIASIS

Estelle Mezajou Mewamba, Darelle Bethanie Motia, Rachel Morgane Banga Diengue, Loic Edmond Tekeu Mengoue, Rostand Joel Tatang Atiokeng, Arnol Auvaker Zebaze Tiofack, Pythagore Soubgwi Fogue, Gustave Simo

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FACTORS INFLUENCING THE RESOLUTION OF FEMALE GENITAL SCHISTOSOMIASIS: A LONGITUDINAL STUDY FROM RURAL MADAGASCARValentina Marchese¹, Jean-Marc Kutz¹, Pia Rausche¹, Tahinamandranto Rasamoelina², Sonya Ratefiarisoa³, Ravo Razafindrakoto², Myriam Lassmann¹, Fiona Franz¹, Elly Daus¹, Olivette Totofotsy³, Alexina Olivasoza Zafinimampera³, André Brito¹, Philipp Klein¹, Anna Jaeger¹, Rivo Solotiana Rakotomalala³, Zoly Rakotomalala³, Bodo Sahondra Randrianasolo⁴, Irina Kislaya¹, Eva Lorenz¹, Jürgen May¹, Raphael Rakotozandrindrainy⁵, Dewi Ismajani Puradiredja¹, Monika Hamp⁶, Tarik Gheit⁷, Rivo Andry Rakotoarivelo⁸, Daniela Fusco¹¹Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany, ²Centre d'Infectiologie Charles Mérieux, Antananarivo, Madagascar, ³Centre Hospitalier Universitaire Androva, Mahajanga, Madagascar, ⁴Association K'OLO VANONA, Antananarivo, Madagascar, ⁵University of Antananarivo, Antananarivo, Madagascar, ⁶Köln-Hohenlind Hospital, Cologne, Germany, ⁷International Agency for Research on Cancer, Lyon, France, ⁸University of Fianarantsoa, Fianarantsoa, Madagascar

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ACCURATE DETECTION OF FEMALE GENITAL SCHISTOSOMIASIS - A NEGLECTED GYNECOLOGICAL TROPICAL DISEASE

Nilanjan Lodh, Lilianna Buss

Marquette University, Milwaukee, WI, United States

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DEVELOPING A SIMPLE POINT-OF-CARE LATERAL FLOW ASSAY FOR DETECTION OF F. HEPATICA DNA IN CLINICAL AND ENVIRONMENTAL SAMPLES

Alejandro Castellanos-Gonzalez

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

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ENHANCING DETECTION AND MONITORING OF SCHISTOSOMIASIS USING FLOW, A URINE-BASED ANALYTE PRE-CONCENTRATION TECHNOLOGY

Brianna Mullins¹, Cody Carrell¹, Danielle de Jong², Jane K. Maganga³, Loyce Mhango³, Peter Shigella³, Philbert Kashangaki³, Raymond Kirigiti⁴, Madalyn Gill¹, Ryan Shogren¹, John M. Changalucha³, Govert J. van Dam², Jennifer A. Downs⁵, Paul L.A.M. Corstjens², Jay W. Warrick¹

¹Salus Discovery, Madison, WI, United States, ²Leiden University Medical Center, Leiden, Netherlands, ³Mwanza Intervention Trials Unit/National Institute for Medical Research, Mwanza, United Republic of Tanzania, ⁴Nkoma Health Center, Simiyu Region, United Republic of Tanzania, ⁵(i) Center for Global Health, Department of Medicine, Weill Cornell Medicine (New York); (ii) Department of Medicine, Weill Bugando School of Medicine (Mwanza); (iii) Mwanza Intervention Trials Unit/National Institute for Medical Research (Mwanza), New York, NY, United States

Schistosomiasis and Other Trematodes – Epidemiology and Control

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RISK FACTORS FOR SCHISTOSOMIASIS CURE FAILURE/ REINFECTION AMONG PRE-SCHOOL-AGED CHILDREN 12 MONTHS AFTER TREATMENT IN UGANDA

Racheal Nakyasige

MRC/UVRI and LSHTM Uganda Research Unit, Entebbe, Uganda

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INVESTIGATING THE PREVALENCE, INTENSITY, AND CONTRIBUTING FACTORS OF SCHISTOSOMA MANSONI INFECTION IN ALMATA DISTRICT, TIGRAY, NORTHERN ETHIOPIA

Gessesew Bugssa Hailu¹, Nega Berhe Belay², Prof. Tilahun Tekelehaymanot²

¹Department of Medical Parasitology and Entomology, Biomedical Sciences Division, College of Health Sciences, Mekelle University, Mekelle, Ethiopia, ²Aklilu Lemma Institute of Pathobiology, Addis Ababa University, Addis Ababa, Ethiopia

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NOVEL INTERVENTION STRATEGIES FOR SCHISTOSOMIASIS ELIMINATION

Lydia Trippler¹, Said Mohammed Ali², Naomi Chi Ndim¹, Jan Hattendorf¹, Saleh Juma³, Shaali Makame Ame⁴, Fatma Kabole⁴, Stefanie Knopp¹

¹Swiss Tropical and Public Health Institute, Allschwil, Switzerland, ²Public Health Laboratory - Ivo de Carneri, Pemba, United Republic of Tanzania, ³Zanzibar Ministry of Health, Pemba, United Republic of Tanzania, ⁴Zanzibar Ministry of Health, Unguja, United Republic of Tanzania

6731

SOCIO-ENVIRONMENTAL FACTORS AFFECTING THE RISK OF HUMAN FASCIOLIASIS IN CENTRAL VIETNAM

Yi-Chen Wang¹, Thi Lien Hanh Nguyen², Hong Quang Huynh², Yiding Ran¹

¹National University of Singapore, Singapore, Singapore, ²Institute of Malariology, Parasitology and Entomology Quy Nhon, Quy Nhon, Vietnam

6732

DIET OF SCHISTOSOME VECTORS INFLUENCES INFECTION OUTCOMES

Joshua T. Trapp¹, Wesley Yu¹, Johannie Spaan¹, Tom Pennance¹, Fredrick Rawago², George Ogara², Maurice Odier², Michelle Steinauer¹

¹Western University of Health Sciences, Department of Basic Medical Sciences, Lebanon, OR, United States, ²Kenya Medical Research Institute, Centre for Global Health Research, Kisumu, Kenya

6733

FACTORS ASSOCIATED WITH NATURAL INFECTION BY FASCIOLA HEPATICA IN THE MAIN DAIRY BASIN OF CAJAMARCA IN NORTHERN PERU

Cristian Hoban¹, César A. Murga-Moreno¹, Dayana M. Terrones-Cerna¹, David Ruiz-Pérez¹, Ana M. Fernández-Sánchez¹, Jhover Díaz¹, Sandra Quispe¹, Miguel M. Cabada², Pedro Ortiz¹

¹Universidad Nacional de Cajamarca, Cajamarca, Peru, ²University of Texas Medical Branch, Galveston, TX, United States

6734

ENVIRONMENTAL DNA OF SCHISTOSOME PARASITES REVEALS POSSIBILITY OF WIDENING THE SNAIL VECTOR SPECTRUM IN ENDEMIC AREAS UNDER CLIMATE CHANGE CONDITIONS IN NIGERIA

Chiaka I. Anumudu¹, Attah A. Amos¹, Cephas A. Akpabio¹, Pearl U. Ofoegbu²

¹Cellular Parasitology Programme, Department of Zoology, University of Ibadan, Ibadan, Nigeria, ²Federal University of Technology Owerri, Owerri, Nigeria

6735

SUITABLE COMMUNICATION STRATEGIES PRIOR TO THE INTRODUCTION OF A NOVEL PEDIATRIC TREATMENT OPTION < SCHISTOSOMIASIS IN KENYA

Janet Mbinya Masaku¹, John M. Gachohi², Alice Sinkeet³, Mary Maghanga³, Florence Wakesho⁴, Wyckliff Omondi⁴, Jennifer Burrill⁵, Ashley Preston⁵, Lisa Sophie Reigl⁶, Isabelle L. Lange⁶, Andrea S. Winkler⁶, Sammy M. Njenga¹, Mary Amuyunzu Nyamongo³

¹Kenya Medical Research Institute (KEMRI), Nairobi, Kenya, ²Jomo Kenyatta University of Agriculture and Technology (JKUAT), Nairobi, Kenya, ³African Institute for Health and Development (AIHD), Nairobi, Kenya, ⁴Ministry of Health Kenya, Division of Vector Borne Diseases and Neglected Tropical Diseases (DVB/NTDs), Nairobi, Kenya, ⁵Unlimit Health, London, United Kingdom, ⁶Technical University of Munich (TUM), Munich, Germany

6736

ENDEMIC COUNTRY LABORATORY QUALIFICATION OF SCHISTOSOMA HAEMATOBIIUM ANTIBODY BIOMARKERS IN KENYA

Maria Ulke Colman¹, Isaac Onkanga², Joshua Kivuthi², Maurice Royal¹, Yong Wang¹, Sylvia Ossai¹, Machi Shiiba³, Kimberly M. Won¹, Maurice Odier², Sukwan Handali¹, William E. Secor¹

¹CDC, Atlanta, GA, United States, ²Kenya Medical Research Institute (KEMRI), Kisumu, Kenya, ³Emory School of Public Health, Atlanta, GA, United States

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ETIOLOGY OF ANEMIA IN THE CONTEXT OF S. MANSONI INFECTION AMONG PRE-SCHOOL AGED CHILDREN FROM LAKE ALBERT, UGANDA

Alexandra Burgess¹, Susannah Colt¹, Andrew Edielu², Hannah Wu¹, Patrice Mawa³, Rachael Nakyasige³, Gloria Kakoba Ayebazibwe³, Kanika Men¹, Emily Webb², Amaya Bustinduy², Jennifer Friedman¹

¹Center for International Health Research, RI Hospital and Alpert Medical School of Brown University, Providence, RI, United States, ²London School of Hygiene & Tropical Medicine, London, United Kingdom, ³Medical Research Council-London School of Hygiene & Tropical Medicine Research Unit, Entebbe, Uganda

Water, Sanitation, Hygiene and Environmental Health

6738

TCBS POSITIVE VIBRIO SPECIES IN WATER SAMPLES OF PRE-URBAN AND PERI-URBAN MAPUTO, MOZAMBIQUE

Matthew Cappiello¹, Henrique Velasco², Inacio Mandomando³, Sanjay Mehta⁴
¹Loma Linda University Medical Center, Loma Linda, CA, United States, ²Instituto Comercial de Maputo, Maputo, Mozambique, ³Centro de Investigação em Saúde de Manhiça, Maputo, Mozambique, ⁴University of California San Diego, La Jolla, CA, United States

6739

WATER QUALITY AND OCCURRENCE OF ENTERIC BACTERIA AND VIRUSES IN ASIPA RIVER, OYO STATE, WESTERN NIGERIA

Olatunji Matthew Kolawole¹, Oluwasanmi A. Adeyemi², Modupe O. Jimoh³
¹University of Ilorin, Ilorin, Kwara state, Nigeria, ²Ajayi Crowther University, Oyo, Oyo state, Nigeria, ³University of Warwick, Coventry, United Kingdom

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LATRINE AVAILABILITY AND UTILIZATION ASSESSMENT IN PRIMARY SCHOOLS OF MERHABETE, ETHIOPIA: A MIXED METHOD STUDY

Awraris Hailu Bilchut¹, Esmael Habtamu Ali², Nigus Taddese¹, Melese Kitu², Fikreab Kebede³, Ian Fetterman⁴, Hadley Burroughs⁴, Catherine E. Oldenburg⁴, Thomas M. Lietman⁴
¹Debre Berhan University, Debre Berhan, Ethiopia, ²Eyu-Ethiopia, Bahir Dar, Ethiopia, ³Federal Ministry of Health, Disease Prevention and Control, Addis Ababa, Ethiopia, ⁴F.I. Proctor Foundation, University of California, San Francisco, San Francisco, CA, United States

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INTERACTIONS BETWEEN WATER, SANITATION, AND HYGIENE (WASH) AND MOSQUITO DYNAMICS IN WESTERN KENYA: IMPLICATIONS FOR DIARRHEAL AND MALARIA DISEASES

Noriko Tamari¹, Maurice Agawo², Heidi E. Brown¹, Luigi Sedda³, Gary L. Christopherson¹, Katherine D. Ellingson¹, Stephen Munga⁴, Kacey C. Ernst¹
¹University of Arizona, Tucson, AZ, United States, ²Maseno University, Kisumu, Kenya, ³Lancaster University, Lancaster, United Kingdom, ⁴Kenya Medical Research Institute (KEMRI), Kisumu, Kenya

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HOUSEHOLD RISK FACTORS ASSOCIATED WITH HOSPITALIZED DIARRHEAL PATIENTS IN ULAANBAATAR, MONGOLIA

Amber N. Barnes¹, Uyanga Baasandavga², Anu Davaasuren², Battsetseg Gonchigoo², Greg C. Gray³
¹University of North Florida, Jacksonville, FL, United States, ²Institute of Veterinary Medicine, Ulaanbaatar, Mongolia, ³Division of Infectious Diseases, School of Medicine, University of Texas Medical Branch, Galveston, TX, United States

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MERCURY LEVELS IN HAIR OF PREGNANT WOMEN IN TUMBES, PERU: A CROSS-SECTIONAL STUDY

Sofia I. Chapela-Lara¹, Olivia Arar¹, Lauralee Fernandez¹, Denys Villareal-Palacios², Percy Vilchez-Barreto², Ricardo Gamboa-Moran², Sarah E. Rothenberg³, William K. Pan⁴, Seth E. O'Neal¹
¹Oregon Health and Science University - Portland State University, School of Public Health, Portland, OR, United States, ²Centro de Salud Global - Tumbes, Tumbes, Peru, ³Oregon State University, College of Health, Corvallis, OR, United States, ⁴Duke University Global Health Institute and Nicholas School of Environment, Durham, NC, United States

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A MECHANISTIC MODELING APPROACH TO ASSESSING THE SENSITIVITY OF OUTCOMES OF WATER, SANITATION, AND HYGIENE INTERVENTIONS TO LOCAL CONTEXTS AND INTERVENTION FACTORS

Andrew F. Brouwer¹, Alicia NM Kraay², Mondal H. Zahid¹, Marisa C. Eisenberg¹, Matthew C. Freeman³, Joseph NS Eisenberg¹
¹University of Michigan, Ann Arbor, MI, United States, ²Bill & Melinda Gates Foundation, Seattle, WA, United States, ³Emory University, Atlanta, GA, United States

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EXPLORING PERCEPTIONS AND UNDERSTANDING OF ORAL HEALTH: A STUDY ON ORAL GINGIVITIS AMONG UNDERGRADUATE STUDENTS IN IBADAN

Olufemi Adebayo Adedokun¹, Kazeem Olabamiji Balogun², Damilola Opeyemi Olatunji², Moses Akinjide Afolabi², Mosunmola Olufunke Adedokun³, Caroline Chidinma Nwoko⁴
¹University of Ibadan Research Foundation, Ibadan, Nigeria, ²Adekunle Ajasin University Akungba Akoko, Ondo, Nigeria, ³University of Ibadan, Ibadan, Nigeria, ⁴Adekunle Ajasin University Akungba Akoko, Ibadan, Nigeria

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USE OF THE HOUSEHOLD WATER INSECURITY ACCESS SCALE TO EVALUATE RURAL WATER DELIVERY IN SMALL COMMUNITIES

Gwenyth J. Lee¹, Gustavo Huera², Andrea Sosa³, Samuel B. Schlesinger⁴
¹Rutgers, The State University of New Jersey, New Brunswick, NJ, United States, ²Fundación ALTROPICO, Quito, Ecuador, ³University of Michigan, Ann Arbor, MI, United States, ⁴Green Empowerment, Portland, OR, United States

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MENSTRUAL MATERIAL DISPOSAL PRACTICES WITHIN THE GHANAIA SOCIOCULTURAL CONTEXT: A QUALITATIVE STUDY

Sitsofe Gbogbo¹, Israel Wurusah¹, Emmanuel Gbogbo¹, Wisdom Axame¹, Priscilla Klutse¹, Robert Dowou¹, Paramount E. Nelson¹, Ishmael Boateng¹, Sarah O. Mantey¹, Nuworza Kugbey², Victor C. Doku³, Frank E. Baiden¹, Fred N. Binka¹
¹University of Health and Allied Sciences, Ho, Ghana, ²University of Environment and Sustainable Development, Somanya, Ghana, ³King's College London, London, United Kingdom

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ISOTHERMAL AMPLIFICATION AND COLORIMETRIC DETECTION OF VIBRIOVCHOLERAEE IN ENVIRONMENTAL MATRICES

Michelande Adolphe
Méditerranée Infection (IHU)/ Aix-Marseille Université, Marseille, France

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INDICATORS OF DRINKING WATER ACCESS AND ESCHERICHIA COLI CONCENTRATION IN HOUSEHOLD DRINKING WATER IN MADAGASCAR

Amanda Seyler¹, Fabiola Aparicio-Ting², John D. McLennan³
¹Department of Anthropology and Archaeology, University of Calgary, Calgary, AB, Canada, ²Department of Community Health Sciences, Cumming School of Medicine, University of Calgary, Calgary, AB, Canada, ³Departments of Psychiatry and Community Health Sciences, Cumming School of Medicine, University of Calgary, Calgary, AB, Canada

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EVALUATION OF THE ANTIBACTERIAL SUSCEPTIBILITY PATTERN OF VIBRIO SPECIES ISOLATED FROM PERIWINKLES AND AQUATIC SNAILS SOLD AT UMUAGWO MARKET IN IMO STATE, NIGERIA

Ogechi Innocentia Nwachukwu, Chinyere Ukaga, Chika Maureen Ezenwa, Treasure Njideka Njoku-Obi
Imo State University, Owerri, Imo State, Nigeria, Owerri, Nigeria

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SOCIOECONOMIC AND COMMUNITY DRIVERS OF SAFE HOUSEHOLD WATER AND SANITATION: A MIXED METHODS ANALYSIS IN NORTHERN ECUADOR

Molly K. Miller-Petrie¹, Nicolette A. Zhou², Kelsey J. Jesser², Caitlin Hemlock², Christine S. Fagnant-Sperati², William Cevallos³, Gabriel Trueba⁴, Gwenyth O. Lee⁵, Joseph N.S. Eisenberg⁶, Karen Levy²

¹Department of Epidemiology, Department of Environmental and Occupational Health Sciences, University of Washington, Seattle, WA, United States, ²Department of Environmental and Occupational Health Sciences, University of Washington, Seattle, WA, United States, ³Centro de Biomedicina, Universidad Central del Ecuador, Quito, Ecuador, ⁴Instituto de Microbiología, Universidad San Francisco de Quito, Quito, Ecuador, ⁵Rutgers Global Health Institute, Rutgers University, New Brunswick, NJ, United States, ⁶Department of Epidemiology, University of Michigan, Ann Arbor, MI, United States



Symposium 29

The Power of Partnership: The Role of the U.S. Government in Advancing Global Health

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

Thursday, November 14, 12:15 p.m. - 1:30 p.m.

This session does not carry CME credit.

In an era of unprecedented global health challenges, the synergy between government initiatives and international collaborations is pivotal to driving forward innovative research and sustainable solutions. This session will focus on the US government as the largest funder and implementer of global health programs and explore how strategic partnerships between the US government and global health organizations are transforming research landscapes and addressing critical health issues worldwide.

Join us as we delve into the multifaceted roles of the US Federal agencies in shaping and supporting global health research from basic science through operational and implementation research to scaled program delivery. Our distinguished panel of experts will highlight key programs and funding mechanisms that have catalyzed groundbreaking research, improved health outcomes, and strengthened health systems across regions. This will also include discussion on how academia, non-governmental organizations, private sector partners, and international bodies connect with their mission.

This session is designed as a high-level overview for researchers and health professionals who may not directly collaborate with US agencies but who would like to gain a better understanding of how various US Federal agencies support global health. Participants will gain valuable insights into how collective efforts and strategic partnerships can accelerate progress and address the most pressing health challenges facing our world today.

CHAIR

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

David Hamer
Boston University, Boston, MA, United States

12:15 p.m.

WELCOME, INTRODUCTIONS AND OVERVIEWS OF EACH AGENCY

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

12:55 p.m.

FACILITATED Q&A

David Hamer
Boston University, Boston, MA, United States

PANELISTS

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

Lee Hall
National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

Peter H. Kilmarx
Fogarty International Center, National Institutes of Health, Bethesda, MD, United States

Kayla F. Laserson
Centers for Disease Control and Prevention, Atlanta, GA, United States

Amy Lin
ARPANETH Innovation Network, Advanced Research Projects Agency for Health, Bethesda, MD, United States

Nelson Michael
Walter Reed Army Institute of Research, Silver Spring, MD, United States

David Walton
President's Malaria Initiative, Washington, DC, United States

1:15 p.m.

OPEN Q&A AND WRAP-UP

David Hamer
Boston University, Boston, MA, United States

Late-Breaker Abstract Session 30

Late-Breakers in Basic Science

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

Thursday, November 14, 12:15 p.m. - 1:30 p.m.

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

CHAIR

Wei-Kung Wang
John A. Burns School of Medicine, University of Hawaii at Manoa, Honolulu, HI, United States

Yai Justin Doritchamou
National Institute of Allergy and Infectious Disease, Bethesda, MD, United States

Meet the Professors Session 31

Meet the Professors: Trainee Case Competition

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

Thursday, November 14, 12:15 p.m. – 1:30 p.m.

Meet the Professors sessions are valuable learning experiences for trainees and practicing clinicians to hear about clinical reasoning.

This session will feature unique clinical cases of tropical diseases presented by clinical trainees that have been evaluated, diagnosed and treated by the trainee under faculty supervision at their training facility. The cases will be presented as “unknowns” and a panel will discuss the cases with the audience, including their differential diagnoses and approaches to diagnosis and treatment.

SESSION ORGANIZER

Jill Weatherhead
National School of Tropical Medicine, Baylor College of Medicine, Houston, TX, United States

PANELISTS

Rachel Martin-Blais
Nationwide Children's Hospital, Columbus, OH, United States

Henry Wu
The Emory Clinic, Emory University, Atlanta, GA, United States

Edward T. Ryan
Massachusetts General Hospital, Boston, MA, United States

PRESENTATION #1

Clive Martin Rodrigues
Kings College Hospital NHS Foundation Trust, London, United Kingdom

PRESENTATION #2

Gabriela Garrido-Pinzás
Instituto de Medicina Tropical Alexander von Humboldt, Universidad Peruana Cayetano Heredia, Lima, Peru

PRESENTATION #3

Wilson Goh
National University Health System (NUHS, Singapore), Singapore

Lunch with the American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) Councilors

Convention Center - Room 397 (3rd Floor)
Thursday, November 14, 12:15 p.m. - 1:30 p.m.

We have reserved the room for attendees to stop by and chat with members of the parasitology subgroup, ACMCIP. Bring your own lunch and network with your fellow parasitologists!

American Committee of Medical Entomology (ACME) Trainee Networking Lunch

Convention Center - Room 398 (3rd Floor)
Thursday, November 14, 12:15 p.m. - 1:30 p.m.

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

Ben Kean Fellowship Committee Meeting

Hilton - Marlborough A (2nd Floor)
Thursday, November 14, 12:15 p.m. - 1:30 p.m.

Digital Education Committee Meeting

Hilton - Ascot (3rd Floor)
Thursday, November 14, 12:15 p.m. - 1:30 p.m.

Membership Committee Meeting

Hilton - Norwich (3rd Floor)
Thursday, November 14, 12:15 p.m. - 1:30 p.m.



Plenary Session 32

Plenary Session II: Charles Franklin Craig Lecture

Convention Center - Hall I-2 (1st Floor)
Thursday, November 14, 1:45 p.m. - 2:30 p.m.

CHAIR

Albert I. Ko
Yale School of Public Health, New Haven, CT, United States



The Charles Franklin Craig Lecture is an honor bestowed on a distinguished worker in the field of tropical medicine. Charles Franklin Craig (1872-1950) received his MD from Yale University and entered the Army Medical Corps in 1898, as a pathologist and bacteriologist. After holding a variety of far-flung assignments early in his career, in 1909 he began a long association

with the Army Medical School in Washington DC, rising to become Professor and Commandant of the School. He wrote ten books on malaria, parasitology and infectious diseases, and he discovered and described *Plasmodium ovale*. In 1931 he retired from the Army to become Professor of Tropical Medicine and head of the Department at Tulane School of Medicine. He was President of the American Society of Tropical Medicine (1915), Editor-in-Chief of the *American Journal of Tropical Medicine* (1927-1946) and Editor of the *Journal of the National Malaria Society* (1942-1944).

1:45 p.m. INTRODUCTION

Albert I. Ko
Yale School of Public Health, New Haven, CT, United States

2 p.m.**PIONEERING RESEARCH AND CONTROL OF EMERGING INFECTIOUS DISEASES IN THE DEMOCRATIC REPUBLIC OF THE CONGO: LESSONS I'VE LEARNED FROM EBOLA AND MPOX SINCE 1976**

Photo courtesy
Institut de France

Jean-Jacques Muyembe Tamfum, MD, PhD
General Director
National Institute of Biomedical Research
Kinshasa, Democratic Republic of the Congo

Dr. Jean-Jacques Muyembe Tamfum is the Director General of the DRC's National Institute of Biomedical Research in Kinshasa,

full Professor of Microbiology at the University of Kinshasa Medical School and the inaugural president of the Congolese Academy of Science. He has received several honors including lifetime achievement awards from the African Union/Africa CDC and the International Symposium on Filoviruses. He is laureate of Mérieux Foundation and Hideo Noguchi Africa Prizes.

Recently he received an honorary Doctor of Science degree from Harvard and the University of Montpellier (France).

Dr. Muyembe is a Congolese Virologist who leads public health emergency responses to emerging and re-emerging infectious diseases in the Democratic Republic of the Congo. He is most widely known for his seminal work on Ebola virus disease, generating the foundation of our understanding of epidemiology, clinical manifestations and response strategies against Ebola outbreaks.

He is globally recognized leader in the fight against Ebola and is a key figure in the World Health Organization efforts to combat infectious diseases. He is co-discoverer of the Ebola virus in 1976 and co-inventor of the monoclonal antibody "mAb114", approved by FDA as an Ebola treatment under the name "Ebanga" in December 2020.

Poster Session A Viewing

Convention Center - Hall I-1 (1st Floor)
Thursday, November 14, 1:45 p.m. - 3 p.m.

Exhibit Hall Open

Convention Center - Hall J (1st Floor)
Thursday, November 14, 2:15 p.m. - 3:15 p.m.

Coffee Break

Convention Center - Hall J (1st Floor)
Thursday, November 14, 2:30 p.m. - 3 p.m.

Poster Session A Dismantle

Convention Center - Hall I-1 (1st Floor)
Thursday, November 14, 3 p.m. - 5:15 p.m.

**Symposium 33****Malaria Vector Genomics Surveillance in Africa: A Pan-African-Led Initiative to Deliver an Accessible Data Platform for Research and Public Health**

Convention Center - Hall I-2 (1st Floor)
Thursday, November 14, 3 p.m. - 4:45 p.m.

In sub-Saharan Africa (SSA), the Anopheles vectors of malaria are undergoing rapid genetic and evolutionary changes due to high selection pressure from persistent use of conventional insecticides in the main insecticidal interventions. As new classes of insecticides with new modes of action are introduced into the pipeline, the mosquitoes will only get more adaptive. A clear understanding of the genomic alterations leading to molecular, ecological, and evolutionary changes in the Anopheles genomes is essential to monitor the adaptation of Anopheles vectors to control initiatives. This will enable the initiation of effective insecticide resistance management strategies and guarantee the continued efficacy of conventional and novel vector control products. Over the past six years since 2018, the Pan-African Mosquito Control Association (PAMCA) has partnered with Malaria Genomic Epidemiology (MalariaGEN) group at Wellcome Sanger Institute, UK, and G-AVENIR (Genomics of African Vectors for NMCP Management of Insecticide Resistance) led by KEMRI (Kenya) and TIDRC/UAC (Benin) to support multi-country studies on Anopheles genomic surveillance in malaria-endemic SSA countries. These projects are led by partner SSA institutions and Principal Investigators working in partnership with their NMCPs. The goal of the projects was to collect, collate, and curate essential genomic data on Anopheles genetic diversity, population structure, evolutionary traits and the intersections of these factors with better understanding and management of malaria epidemiology in the continent. This symposium will present key progress milestones in the implementation of the genomics surveillance program with specific updates on building the vector genomics surveillance community network, output of the training initiatives undertaken under this program, advocacy and engagement initiatives with the country NMCPs, and progress with the establishment of the hardware high-performance infrastructure to support bioinformatics analysis across the continent. The symposium will present data from a selection of genomics surveillance studies from this program and how these data are informing malaria vector control policy and operational guidelines changes. #Genomics; #MolecularBiology; #Genetics

CHAIR

Elijah Juma
Pan-African Mosquito Control Association (PAMCA), Nairobi, Kenya
Alistair Miles
Wellcome Sanger Institute, Cambridgeshire, United Kingdom

3 p.m.**INTRODUCTION**

3:10 p.m.

GENOMIC SURVEILLANCE OF ANOPHELES ARABIENSIS IN THE GAMBIA REVEALS EVIDENCE OF INCREASED INSECTICIDE RESISTANCE IN COASTAL POPULATIONS

Fatoumata Seck

African Centre of Excellence in Biotechnological Innovations, Banjul, Gambia

3:35 p.m.

FIRST REPORT OF ANOPHELES COLUZZII IN KENYA AND COMPARISON OF GENETIC STRUCTURE AND INSECTICIDE RESISTANCE PROFILES WITH CONSPECIFIC POPULATIONS IN WEST AND CENTRAL AFRICA

Luna Kamau

Kenya Medical Research Institute (KEMRI), Nairobi, Kenya

3:50 p.m.

TAXONOMY, POPULATION STRUCTURE, AND RESISTANCE PROFILES OF ANOPHELES GAMBIAE COMPLEX MOSQUITOES IN TANZANIA

Sophia Mwinyi

Ifakara Health Institute, Ifakara, United Republic of Tanzania

4:05 p.m.

GENOMIC SURVEILLANCE OF ANOPHELES GAMBIAE S.L IN MALI

Assétou Diarra

Malaria Research and Training Center, Bamako, Mali

4:20 p.m.

DISCOVERY OF KNOCK-DOWN RESISTANCE IN THE MAJOR MALARIA VECTOR ANOPHELES FUNESTUS REVEALS THE LEGACY OF PERSISTENT DDT POLLUTION.

Joel Otero

Ifakara Health Institute & University of Glasgow, Ifakara & Edinburgh, United Republic of Tanzania

Scientific Session 34

Filariasis – Epidemiology and Control

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

Thursday, November 14, 3 p.m. - 4:45 p.m.

#onchocerciasis #loiasis #MDA #hygiene #filariasis

CHAIR

Paul Cantey

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

Philip Budge

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

3 p.m.

6752

MOXIDECTIN PLUS ALBENDAZOLE FOR LYMPHATIC FILARIASIS: EFFECTS THROUGH 36 MONTHS POST-TREATMENT

Benjamin Koudou¹, Catherine Bjerum², Allassane Outtara¹, Paskal Toki Gabo³, Charles Goss⁴, Daphne Lew⁴, Christopher King², Peter Fischer⁴, Gary Weil⁴, Philip Budge⁵

¹Centre Suisse de Recherches Scientifiques en Côte d'Ivoire, Abidjan, Côte D'Ivoire, ²Case Western Reserve University, Cleveland, OH, United States, ³Centre Hospitalier Régional d'Agboville, Agboville, Côte D'Ivoire, ⁴Washington University in St. Louis, St. Louis, MO, United States, ⁵Washington University School of Medicine, St. Louis, MO, United States

(ACMCIP Abstract)

3:15 p.m.

6753

STRINGENT APPLICATION OF THE ESSENTIAL PACKAGE OF CARE WITH OR WITHOUT ADDITIONAL TREATMENT WITH DOXYCYCLINE IN PATIENTS WITH ADVANCED STAGES (4 - 6) OF FILARIAL LYMPHEDEMA

Ute Klarmann-Schulz¹, Sarah M. Sullivan², Yaya I. Coulibaly³, Alexander Y. Debrah⁴, Thishan C. Yahathugoda⁵, Akili Kalinga⁶, Suma Krishnasasstry⁷, Jennifer Nadal⁸, Charles Mackenzie², John Horton⁹, Eric Ottesen², Achim Hoerauf¹

¹Institute for Medical Microbiology, Immunology and Parasitology (IMMIP), University Hospital Bonn, Bonn, Germany, ²Neglected Tropical Diseases Support Center, Task Force for Global Health, Atlanta, GA, United States, ³International Center for Excellence in Research, Bamako, Mali, ⁴Kumasi Centre for Collaborative Research in Tropical Medicine (KCCR), Faculty of Allied Health Sciences, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana, ⁵Filariasis Research Training and Service Unit, Department of Parasitology, Faculty of Medicine, University of Ruhuna, Galle, Sri Lanka, ⁶National Institute for Medical Research (NIMR), Dar es Salaam, United Republic of Tanzania, ⁷Filariasis Research center, Govt. T. D. Medical College, Alappuzha, Kerala, India, ⁸Institute for Medical Biometry, Informatics and Epidemiology (IMBIE), University Hospital Bonn, Bonn, Germany, ⁹Tropical Projects, Hitchin, United Kingdom

(ACMCIP Abstract)

3:30 p.m.

6754

EVIDENCE OF RENEWED ONCHOCERCIASIS TRANSMISSION IN THE METEMA SUB-FOCUS AFTER TREATMENTS STOPPED IN 2017

Yewondwossen Bitew¹, Emily Griswold², Jenna E. Coalson², Aderajew Mohammed¹, Mitiku Adugna³, Fetene Mihretu³, Kadu Meribo⁴, Tewodros Seid¹, Tekola Endeshaw¹, Desalegn Jemberie¹, Fikresilasie Samuel¹, Firdaweke Bekele¹, Tadesse Asmare¹, Henok Birhanu¹, Adane Yayeh¹, Geremew Haileyesus¹, Gedefaw Ayenew³, Yihenew Wubet³, Anley Haile¹, Fikre Seife⁴, Zerihun Tadesse¹, Frank O. Richards², Gregory S. Noland²

¹The Carter Center, Addis Ababa, Ethiopia, ²The Carter Center, Atlanta, GA, United States, ³The Carter Center, Bahir Dar, Ethiopia, ⁴Federal Ministry of Health, Addis Ababa, Ethiopia

3:45 p.m.

6755

ASSOCIATION BETWEEN ANATOMICAL HYPOSPLENISM AND LOA LOA MICROFILAREMIA IN A RURAL AREA OF THE REPUBLIC OF CONGO: A POPULATION-BASED CROSS-SECTIONAL STUDY (THE MORLO PROJECT)

Cédric B. Chesnais¹, Valentin Dupasquier², Elodie Lebretonchel³, Sébastien D. S. Pion¹, Charlotte Boullé¹, Ludovic G. Rancé², Marhand Hemilembolo⁴, Michel Boussinesq¹, Jeremy T. Campillo⁵, Francois Missamou⁶

¹Institut de Recherche pour le Développement, Montpellier, France, ²Montpellier University Hospital, Montpellier, France, ³Hôpital Bichat-Claude Bernard, Paris, France, ⁴Programme National de Lutte contre l'Onchocercose, Brazzaville, Republic of the Congo, ⁵Inserm, Montpellier, France, ⁶Programme National de Lutte contre l'Onchocercose, Br, Republic of the Congo

4 p.m.

6756

IMPACT OF TRIPLE-DRUG MASS DRUG ADMINISTRATION ON THE SEROPREVALENCE OF ANTIBODIES TO LYMPHATIC FILARIASIS IN SAMOA

Harriet Lawford¹, Helen Mayfield¹, Filipina Amosa-Lei Sam², Satu Viali², Tito Kamu³, Robert Thomsen⁴, Colleen Lau¹

¹UQ Centre for Clinical Research, The University of Queensland, Brisbane, Australia, ²National University of Samoa, Apia, Samoa, ³Tupua Tamasese Meaole Hospital, Apia, Samoa, ⁴Ministry of Health, Apia, Samoa

4:15 p.m.

6757

EVALUATION OF THE EFFECT OF ONE ROUND OF MASS DRUG ADMINISTRATION WITH IDA ON HUMAN *BRUGIA MALAYI* INFECTIONS IN BELITUNG DISTRICT, INDONESIA

Taniawati Supali¹, Yenny Djuardi¹, Sudirman Surdirman¹, Elisa Iskandar¹, Rahmat Alfian¹, Yossi Destani¹, Emanuele Giorgi², Peter U. Fischer³

¹Department of Parasitology, Faculty of Medicine, Universitas Indonesia, Jakarta, Indonesia, ²Faculty of Health and Medicine, Lancaster University, Lancaster, United Kingdom, ³Division of Infectious Diseases, Washington University School of Medicine, Saint Louis, MO, United States

4:30 p.m.

6758

INVESTIGATION OF POTENTIAL ONCHOCERCIASIS HOTSPOTS IN PARTS OF ENUGU SOUTHEAST NIGERIA THAT ARE UNDER POST TREATMENT SURVEILLANCE

Adamu Sallau¹, Jenna E. Coalson², Lazarus Nweke³, Emmanuel Miri¹, Emmanuel Emukah¹, Cephas Ityonzughul¹, Lindsay Rakers², Emily Griswold², Solomon Adelayo¹, Samuel Ifeanyichukwu¹, Ifeoma Otiji³, Ebere Ogbodo³, Andrew Obasi¹, Egeonu Attamah-Isiani¹, Chukwuemeka Makata⁴, Fatai Oyediran⁴, Bertram E.B. Nwoke⁵, Frank O. Richards², Gregory S. Noland²

¹The Carter Center, Jos, Nigeria, ²The Carter Center, Atlanta, GA, United States, ³State Ministry of Health, Enugu, Nigeria, ⁴Federal Ministry of Health, Abuja, Nigeria, ⁵Imo State University, Owerri, Nigeria

Scientific Session 35

Water, Sanitation, Hygiene and Environmental Health (WaSH-E): Interventions

Convention Center - Room 345 (3rd Floor)

Thursday, November 14, 3 p.m. - 4:45 p.m.

#Epidemiology #InfectiousDisease #Prevention #FieldStudies

CHAIR

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

Jade Benjamin-Chung
Stanford University, Stanford, CA, United States

3 p.m.

6759

MITIGATING COLONIZATION WITH CARBAPENEM-RESISTANT ORGANISMS AMONG NEONATAL INTENSIVE CARE UNIT ADMISSIONS: EVALUATING THE EFFECTIVENESS OF INFECTION CONTROL INTERVENTIONS

Fahmida Chowdhury¹, Gazi Md. Salahuddin Mamun¹, Sanzida Khan¹, Syeda Mah-E-Muneer¹, Aminul Islam¹, Dilruba Ahmed¹, Debashis Sen¹, Md. Golam Dostogir Harun¹, Lisa P Oakley², Gemma Parra², Ashley Styczynski²

¹icddr, Dhaka, Bangladesh, ²Centers for Disease Control and Prevention (US-CDC), Atlanta, GA, United States

3:15 p.m.

6760

URBAN SANITATION UPGRADES IN MAPUTO, MOZAMBIQUE ASSOCIATED WITH REDUCED DETECTION OF ENTERIC PATHOGENS IN FECAL SLUDGES

Gouthami Rao¹, Márcia Chiluvane², Yarrow Linden¹, Jack Dalton¹, Drew Capone³, Amanda Lai¹, David Holcomb¹, Erin Kowalsky¹, Elly Mataveia², Victória Cumbane², Vanessa Monteiro², Edna Viegas², Joe Brown¹

¹University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, ²Instituto Nacional de Saúde, Maputo, Mozambique, ³Indiana University, Bloomington, IN, United States

3:30 p.m.

6761

EFFECTS OF HOUSEHOLD CONCRETE FLOORS ON MATERNAL AND CHILD HEALTH (CRADLE TRIAL): A RANDOMIZED CONTROLLED TRIAL

FARJANA JAHAN¹, Mahbubur Rahman¹, Suhi Hanif², Afsana Yeamin¹, Abul Kasham Shoab¹, Zahid Hayat Mahmud³, Fahmida Tofail⁴, Rashidul Haque⁵, Ayse Ercumen⁶, Jade Benjamin-Chung²

¹Environmental Health and WASH, International Centre for Diarrhoeal Disease Research, Bangladesh (icddr), Dhaka, Bangladesh, ²Department of Epidemiology & Population Health, Stanford University, California, CA, United States, ³Laboratory of Environmental Health, International Centre for Diarrhoeal Disease Research, Bangladesh (icddr), Dhaka, Bangladesh, ⁴Nutrition Research Division, International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ⁵Infectious Diseases Division, International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ⁶Department of Forestry and Environmental Resources, North Carolina State University, Raleigh, NC, United States

3:45 p.m.

6762

EFFECTS OF A WATER, SANITATION, AND HYGIENE PROGRAM ON DIARRHEA AND CHILD GROWTH IN THE DEMOCRATIC REPUBLIC OF THE CONGO: A CLUSTER-RANDOMIZED CONTROLLED TRIAL OF THE PREVENTATIVE-INTERVENTION-FOR-CHOLERA-FOR-7-DAYS (PICHAT) PROGRAM

Christine Marie George¹, Presence Sanvura², Jean-Claude Bisimwa², Kelly Endres¹, Alves Namunesha², Willy Felicien², Jamie Perin¹, David Sack¹, Camille Williams¹, Raissa Boroto², Gisèle Nsimire², Feza Rugusha², Freddy Endeleya², Pacifique Kitumaini², Claude Lunyelunye², Emmanuel Buhendwa², Brigitte Munyerenkana², Jessy Timsifu², Pascal Kitumanini², Blessing Muderhwa Banywesize², Justin Bengheya³, Ghislain Maheshe², Cirhuza Cikomola², Alain Mwishingo², Lucien Bisimwa²

¹Johns Hopkins School of Public Health, Baltimore, MD, United States, ²Université Catholique de Bukavu, Bukavu, Democratic Republic of the Congo, ³Division Provinciale de la Santé Sud Kivu, Ministère de la Santé, Bukavu, Democratic Republic of the Congo

4 p.m.

6763

REDUCED EXPOSURE TO ENTERIC PATHOGENS IN CHILDREN LIVING FROM BIRTH IN HOUSEHOLDS SERVED BY SANITATION UPGRADES IN URBAN MAPUTO, MOZAMBIQUE

Erin Kowalsky¹, Márcia Chiluvane², David Holcomb¹, Vanessa Monteiro², Victória Cumbane², Elly Mataveia², Toheedat Bakare¹, Drew Capone³, Gouthami Rao¹, Sindhuja Damodaran¹, Samuel Pomper¹, Oliver Cumming⁴, Edna Viegas², Joe Brown¹

¹University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, ²Instituto Nacional de Saúde, Mozambique, Maputo, Mozambique, ³Indiana University, Bloomington, IN, United States, ⁴London School of Hygiene & Tropical Medicine, London, United Kingdom

4:15 p.m.

6764

A CLUSTER RANDOMIZED CONTROLLED TRIAL FOR THE EFFECT OF A WATER, SANITATION AND HYGIENE KIT COMBINED WITH STANDARD OUTPATIENT TREATMENT ON DRINKING WATER QUALITY IN NORTHERN SENEGAL

Laura Braun¹, Serigne Niang², Djiby N'diaye², Joseph Wells¹, Matar Ba², Clara Macleod¹, Albert E. Cabo², Yahya Gnokane², Françoise Siroma³, Jean Lapegue², Moustapha Seye⁴, Antonio Vargas⁵, Alexandre Devort², Dleynaba N'diaye⁵, Oliver Cumming¹

¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²Action Against Hunger, Dakar, Senegal, ³Action against Hunger, Dakar, Senegal, ⁴LARTES, Dakar, Senegal, ⁵Action Against Hunger, Madrid, Spain, ⁶Action Against Hunger, Paris, France

4:30 p.m.

6765

DRINKING WATER QUALITY AND ACCESS IMPACTS ON INFANT GUT MICROBIOME COMPOSITION IN MOZAMBIKAN INFANTS

Courtney Victor¹, Konstantinos T. Konstantinidis², Sandy McGunegill¹, Rassul Nalá³, Jedidiah S. Snyder¹, Matthew C. Freeman¹, Karen Levy⁴
¹Emory University, Atlanta, GA, United States, ²Georgia Institute of Technology, Atlanta, GA, United States, ³Ministry of Health (Instituto Nacional de Saúde), Marracuene, Mozambique, ⁴University of Washington, Seattle, WA, United States

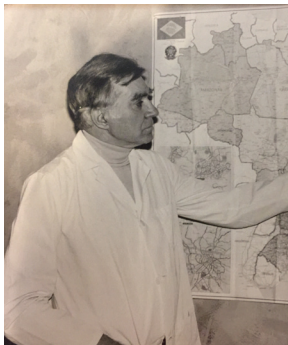
Symposium 36

American Committee on Clinical Tropical Medicine and Travelers' Health (Clinical Group - ACCTMTH) Symposium I: Vincenzo Marcolongo Lecture: Schistosomiasis: Insights into Immunology and Treatment from Human Challenge Studies

Convention Center - Room 352 (3rd Floor)

Thursday, November 14, 3 p.m. - 4:45 p.m.

Supported with funding from the International Association for Medical Assistance to Travellers (IAMAT)



Vincenzo Marcolongo

This session features the Vincenzo Marcolongo Lecture, which honors Dr. Vincenzo Marcolongo, the founder of IAMAT - the International Association for Medical Assistance to Travelers in 1960. Dr. Marcolongo's lifelong work was devoted to the medical needs of travelers. Through IAMAT and numerous publications, Dr. Marcolongo worked tirelessly to inform travelers of health risks and raise awareness of travelers' health. His foresight, compassion and generosity continue to serve as inspiration for IAMAT's work. To quote Dr. Vincenzo Marcolongo, "Distinguished physicians and respected medical institutions, with a sense of solidarity which makes them like one family, are now working in harmony to assist the traveler who may require medical assistance on his journey... The need for peace and understanding between the peoples of the world has never been as great as now. Peace can come only with understanding, and travel is an important means of acquiring it."

Schistosomiasis is an acute and chronic parasitic disease caused by blood flukes (trematode worms) of the genus *Schistosoma*. Schistosomiasis transmission occurs in 78 countries, latest estimates revealed at least 251.4 million people requiring preventive treatment in 2021. In addition, female genital schistosomiasis is an emerging disease with considerable morbidity in low and middle income countries. Control of schistosomiasis depends on a single drug, praziquantel, with variable cure rates, high reinfection rates, and risk of drug resistance. A vaccine could transform schistosomiasis control efforts. Recent developments in understanding of parasite biology and host immune response as well as controlled human schistosoma infection models are advancing efforts in vaccine

development. Dr. Meta Roestenberg will deliver the Marcolongo Lecture and provide an update on the latest insights into Schistosomiasis immunology and treatment based on the human challenge work and reflect on its implications for schistosome control strategies. #ClinicalResearch #Immunology #Vaccinology

CHAIR

Kyle Petersen
Uniformed Services University, Bethesda, MD, United States

3 p.m.

INTRODUCTION TO VINCENZO MARCOLONGO LECTURE

Kyle Petersen
Uniformed Services University, Bethesda, MD, United States

3:10 p.m.

VINCENZO MARCOLONGO LECTURE: SCHISTOSOMIASIS: INSIGHTS INTO IMMUNOLOGY AND TREATMENT FROM HUMAN CHALLENGE STUDIES



Meta Roestenberg, MD
Professor, Human Models for Vaccine Development
Universiteit Leiden
Leiden, The Netherlands

Meta Roestenberg is an infectious diseases clinician heading the Controlled Human Infection Center at Leiden University Medical Center in the Netherlands. She leads a group of translational researchers in answering key questions related to host-pathogen interaction by making use of controlled human infection models. Her research group was the first to establish a controlled human infection model using single-sex schistosomes and the first to establish a controlled human infection model for hookworm using higher doses of larvae, enhancing the power of experimental hookworm infections. Moreover, the team pioneered the clinical testing of a genetically attenuated sporozoite vaccine against malaria by intravenous administration and demonstrated the exceptional potency of late-arresting genetically attenuated malaria parasite vaccines. Recognizing the ethical complexity of such healthy volunteer studies, the group is active in establishing ethical frameworks for such challenge trials, contributing to generating guidelines and leading discussions.

3:55 p.m.

ACCTMTH ANNUAL BUSINESS MEETING

Kyle Petersen
Uniformed Services University, Bethesda, MD, United States

4:25 p.m.

NETWORKING RECEPTION

Thursday
November 14

Scientific Session 37

American Committee of Molecular Cellular and Immunoparasitology (ACMCIP): Molecular Approaches to Parasite Infection, Growth and Development

Convention Center - Room 353 (3rd Floor)

Thursday, November 14, 3 p.m. - 4:45 p.m.

Supported with funding from the Burroughs Wellcome Fund

#MolecularBiology #CellBiology
#InfectiousDisease #Pathogenesis

CHAIR

Scott E. Lindner
Pennsylvania State University, University Park, PA, United States

Hang Thi Thu Nguyen
Yale University, New Haven, CT, United States

3 p.m.

8433

A SPECIALIZED RIBOSOME PROMOTES HOST-TO-VECTOR TRANSMISSION IN THE HUMAN MALARIA PARASITE

Tiziano Vignolini, Justine Couble, Grégory Doré, Sebastian Baumgarten
Pasteur Institute, Paris, France

3:15 p.m.

8434

HIDE AND GO SEQ: CAPTURING THE ANTIBODY-VSG ARMS RACE DURING TRYPANOSOMA BRUCEI INFECTION

Lulu M. Singer¹, Jaime E. So², Alexander K. Beaver², Monica R. Mugnier¹
¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Johns Hopkins University School of Medicine, Baltimore, MD, United States

3:30 p.m.

6766

GENOME-WIDE ASSOCIATION STUDY OF AN AFRICAN SNAIL VECTOR OF SCHISTOSOMIASIS IDENTIFIES GENES ASSOCIATED WITH RESISTANCE TO INFECTION BY SCHISTOSOMA MANSONI

Tom Pennance¹, Jacob A. Tennesen², Johannie M. Spaan¹, Tammie McQuistan¹, George Ogara³, Fredrick Rawago¹, Martin W. Mutuku⁴, Gerald M. Mkoji⁴, Eric S. Loker⁵, Maurice R. Odiere³, Michelle Steinauer¹

¹Western University of Health Sciences, Lebanon, OR, United States, ²Harvard T.H. Chan School of Public Health, Boston, MA, United States, ³Centre for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya, ⁴Centre for Biotechnology Research and Development, Kenya Medical Research Institute, Nairobi, Kenya, ⁵University of New Mexico, Albuquerque, NM, United States

(ACMCIP Abstract)

3:45 p.m.

6767

GENERATING THE GENERATOR: A GIANT COMPLEX ESSENTIAL FOR MITOCHONDRIAL BIOGENESIS IN PLASMODIUM FALCIPARUM

Ijeoma Okoye, Ian Lamb, Swati Dass, Joanne M. Morrissey, Michael W. Mather, Akhil B. Vaidya
Drexel University College of Medicine, Philadelphia, PA, United States

(ACMCIP Abstract)

4 p.m.

6768

A DRUGGABLE AGC KINASE CLRK MEDIATES TEMPORAL REGULATION OF CYCLIC NUCLEOTIDE SIGNALING AND CONTROLS PARASITE EGRESS AND INVASION

Deepti Sarkar, Ravi Kumar Narayanasamy, Luciana Ribeiro Dinis, Abhai Tripathi, Isabelle Coppens, Prakash Srinivasan
Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD, United States

(ACMCIP Abstract)

4:15 p.m.

6769

INCREASED DUFFY BINDING PROTEIN 1 EXPRESSION CORRELATES WITH PLASMODIUM CYNOMOLGI GROWTH IN CONTINUOUS CULTURE

Wayne Cheng¹, Magdalena Argomaniz¹, Caitlin C. Cooper¹, Amadis Vivas¹, Saniya Sabnis¹, Sarah G. Roberson¹, Celia L. Saney¹, Mary R. Galinski², Steven P. Maher¹, Dennis E. Kyle¹, Chester J. Joyner¹

¹University of Georgia, Athens, GA, United States, ²Emory University, Atlanta, GA, United States

(ACMCIP Abstract)

4:30 p.m.

6770

TISSUE COLONIZATION AND INFECTION ESTABLISHMENT OF TRYPANOSOMA BRUCEI BRUCEI AT THE BITE SITE

Hang Thi Thu Nguyen, Daniel Bruzzese, Erick Awuoch, Brian Weiss, Serap Aksoy
Yale University, New Haven, CT, United States

(ACMCIP Abstract)

Symposium 38

American Committee on Arthropod-Borne and Zoonotic Viruses (ACAV) Symposium I: Historical and Future Perspectives on Yellow Fever Virus

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

Thursday, November 14, 3 p.m. - 4:45 p.m.

This session does not carry CME credit.

Yellow fever virus (YFV) is an epidemic-prone arbovirus spread by various mosquito genera in the subtropics and tropics of South America and Africa. This event aims to bring together accomplished scientists engaged in YFV research for a discussion of the YFV history, current perspectives, and therapeutic development. #TranslationalScience #EmergingDiseaseThreats #Pathogenesis #Epidemiology #Evolution

CHAIR

Mauricio Nogueira
Faculdade de Medicina de Sao Jose do Rio Preto, Sao Jose do Rio Preto, Brazil

Shannan Rossi
University of Texas Medical Branch, Galveston, TX, United States

3 p.m.

INTRODUCTION

3:10 p.m.

HISTORY OF YFV

Tom Monath
Crozet BioPharma LLC, Devens, MD, United States

3:30 p.m.

YFV TREATMENTS - A FOCUS ON MONOCLONALS

Esper G. Kallas

University of Sao Paulo, School of Medicine, Sao Paulo, Brazil

3:55 p.m.

YFV IN SOUTH AMERICA

Marta Giovanetti

Laboratorio de Flavivirus, Fundacao Oswaldo Cruz, Rio de Janeiro, Brazil

4:20 p.m.

YFV IN NEW ORLEANS

Robert F. Garry

Tulane University, New Orleans, LA, United States

Symposium 39

One Health Action for All: Assessment and Evaluation

Convention Center - Room 356 (3rd Floor)

Thursday, November 14, 3 p.m. - 4:45 p.m.

The globe faces a prominent and urgent public health threat at the human-animal-environment interface, particularly concerning the emergence of diseases such as avian influenza, severe acute respiratory syndrome (SARS-CoV-1), and COVID-19. This highlights a vulnerability exacerbated by dense human populations and increased human-animal interactions. Adding to these concerns, challenges with antimicrobial resistance and food security issues have been exacerbated by the interaction of diverse ecological landscape and social-economic patterns. The significance of adopting a One Health approach to address these challenges is well-recognized. However, there are persistent challenges in implementing One Health at the national and sub-national levels, and this imposes an urgent need for executive assessments to guide One Health actions. Recognizing this critical gap, a number of research teams, are leading innovative explorations in developing tools and measurements for One Health assessment and evaluation. For example, the team from School of Global Health, Chinese Center for Tropical Diseases Research, Shanghai Jiao Tong University School of Medicine, with the support of the Bill & Melinda Gates Foundation, lead the establishment of the global One Health index (GOHI) and One Health Action Commission (OHAC). The discussion on the assessment and evaluation of One Health holds significant values. The performance evaluation of One Health helps countries understand their own shortcomings and gaps in One Health development. This facilitates the implementation of One Health approaches and the determination of priority areas for international aid related to One Health, thereby promoting the achievement of the Sustainable Development Goals. Meanwhile, the assessments lay the foundations for the incubation of One Health pilot projects and help to design prototypes tailoring into local scenarios. This symposium serves a catalytic role in improving exchanges benefiting various audience in assessment and evaluation on One Health implementation in LMICs, with following specific objectives: (i) it promotes dissemination of innovative techniques and research breakthroughs of One Health assessment and evaluation, thereby driving the advancement

of relevant methodologies and tools; (ii) it encourages the discussion on the gaps in One Health practices and the priorities for One Health assessment and evaluation, particularly in areas such as infectious disease control and prevention, emergency response, and antimicrobial resistance monitoring; (iii) it deepens the understanding of the essence of One Health assessment and evaluation, and promotes its application in decision-making related to health issues. #Elimination #EmergingDiseaseThreats #Epidemiology #FieldStudies #InfectiousDisease

CHAIR

Xiaonong Zhou

School of Global Health, Chinese Center for Tropical Diseases Research, Shanghai Jiao Tong University School of Medicine, Shanghai, China

3 p.m.

INTRODUCTION

3:05 p.m.

THE PROGRESS OF CHINA IN PROMOTING ONE HEALTH APPROACH

Xiaonong Zhou

National Institute of Parasitic Diseases at Chinese Center for Disease Control and Prevention, Shanghai, China

3:30 p.m.

TRIPLE-CRISES-INDUCED FOOD INSECURITY: SYSTEMATIC UNDERSTANDING AND RESILIENCE BUILDING APPROACHES IN AFRICA

Tambo Ernest

University of Global Health Equity, Kigali, Rwanda

3:55 p.m.

DETERMINANTS FOR THE RISK OF MALARIA INFECTIONS AMONG CHILDREN IN REFUGEE SETTLEMENTS IN UGANDA

Song Liang

University of Massachusetts Amherst, Amherst, United States

4:20 p.m.

HOW FAR HAS THE GLOBE GONE IN ACHIEVING ONE HEALTH: EVIDENCE FROM GLOBAL ONE HEALTH INDEX (GOHI)

Xiaoxi Zhang

School of Global Health, Chinese Center for Tropical Diseases Research, School of Medicine, Shanghai Jiao Tong University, Shanghai, China



Symposium 40

Hansen's Disease (Leprosy) in the United States: Local Lessons and Global Implications

Convention Center - Room 357 (3rd Floor)

Thursday, November 14, 3 p.m. - 4:45 p.m.

Hansen's disease, or leprosy, is a disease documented since ancient times. However, we are still struggling on our way towards elimination of this persistent and disabling disease, with more than 200,000 new cases reported every year to WHO. Several crucial characteristics of this disease are posing a challenge to reaching the goal of transmission interruption and elimination, including the long incubation time, diagnostic difficulties, our inability to predict who is at risk, and unavailability of *in vitro*

culturing. Furthermore, stigma and discrimination are long-standing barriers to early detection of leprosy and disability prevention. Needless to say that social exclusion contributes to the decrease in quality of life of those affected by the disease. In the United States (US), while leprosy is often considered to be eliminated, in reality, there are still 150 to 200 new cases reported yearly to the CDC or the National Hansen's Disease (Leprosy) Program. Cases arise not only among migrants but also within domestic populations, possibly contracting the disease from animal reservoirs, particularly armadillos. This potential zoonotic transmission could complicate global disease control efforts. Louisiana, host to this year's ASTMH, is a home to Carville where it was the only national leprosarium in the continental United States (1894-2005). Renowned for the discovery of promin (later dapson), the first leprosy drug, Carville's legacy continues as the National Hansen's Disease Museum and as the National Hansen's Disease Program in Baton Rouge. The latter's Laboratory Research Branch holds the world's sole armadillo-based leprosy model and a diverse array of research initiatives. In this symposium, we aim to elucidate the global and US leprosy statuses, disease control efforts, and targets. Pioneering work at the National Hansen's Disease Program will be presented. Furthermore, no discussion on leprosy would be complete without addressing the stigma associated with the disease. A second-generation family member of a Carville survivor will share her experience that have separated her from her parents and offer insights into how the residents forged their own world behind a barbed wire fence. To achieve the targets as outlined in the NTD Roadmap 2021-2030, Louisiana and US experiences warrant revisitation. With stagnant global case figures over the past two decades, a paradigm shift in leprosy control is imperative. Our focus should extend beyond countries where the disease is identified to be endemic. Given globalization and the zoonotic nature of leprosy, cases emerge regardless of geographical boundaries. We anticipate our symposium will shed a light on this facet of leprosy and contribute to the global fight against the disease. #Elimination #Epidemiology #HostResponse #PopulationSurveillance #SocialScience

CHAIR

Rie R. Yotsu
Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States

Barbara M. Stryjewska
National Hansen's Disease Program, Baton Rouge, LA, United States

3 p.m.
INTRODUCTION

3:10 p.m.
GLOBAL EPIDEMIOLOGY OF HANSEN'S DISEASE (LEPROSY) AND ROADMAP TO 2030

Subbanna Jonnalagada
World Health Organization - Global Leprosy Programme, New Delhi, India

3:25 p.m.
EPIDEMIOLOGY OF HANSEN'S DISEASE IN THE UNITED STATES

Caroline A. Schrodtt
CDC, Bacterial Special Pathogens Branch, Division of High-Consequence Pathogens & Pathology, Atlanta, GA, United States

3:40 p.m.
TREATMENT FOR HANSEN'S DISEASE AND ITS IMMUNOLOGICAL COMPLICATIONS

Barbara M. Stryjewska
National Hansen's Disease Program, Baton Rouge, LA, United States

3:55 p.m.
EVALUATING NEW THERAPEUTIC AND PROPHYLACTIC COMPOUNDS & REGIMENS AGAINST MYCOBACTERIUM LEPRAE INFECTION

Ramanuj Lahiri
National Hansen's Disease Program, Baton Rouge, LA, United States

4:10 p.m.
HANSEN'S DISEASE, THE SEPARATING SICKNESS: LIVED EXPERIENCE FROM CARVILLE, LOUISIANA

Anne Harmon Brett
Friends of the Carville Historic District, Vacherie, LA, United States

4:25 p.m.
HANSEN'S DISEASE (LEPROSY), THE SEPARATING SICKNESS: LIVED EXPERIENCE FROM CARVILLE, LOUISIANA

Claire Manes
Friends of Carville Historic District, Lafayette, LA, United States

4:35 p.m.
CAN WE ELIMINATE HANSEN'S DISEASE (LEPROSY)? - FROM LOCAL TO GLOBAL PERSPECTIVE

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

Scientific Session 41

Global Health: Community Health, NTDs and NCDs

Convention Center - Room 383/384/385 (3rd Floor)
Thursday, November 14, 3 p.m. - 4:45 p.m.

#Elimination #Epidemiology #FieldStudies #InfectiousDisease

CHAIR

Grace Murilla
Yale University and Trypanosomiasis Res Ctr-KARI, Nairobi, Kenya

Karla Estudillo Fuentes
Emory University, Atlanta, GA, United States

3 p.m.

6771

BROKERED DESIGN: COMMUNITY-DRIVEN LEARNING FOR MALARIA ELIMINATION IN THE DOMINICAN REPUBLIC

Karla Estudillo Fuentes¹, Luccene Desir², Victoria Krauss², Gregory Noland², Karen Hamre², Nicole Michelen Strofer³, Domingo Cabral⁴, Jose Luis Cruz Raposo⁵, James Lavery¹

¹Human Engagement Learning Platform, Hubert Department of Global Health, Rollins School of Public Health, Emory University, Atlanta, GA, United States, ²The Carter Center, Atlanta, GA, United States, ³Malaria and Neglected Tropical Diseases Program, Clinton Health Access Initiative, Santo Domingo, Dominican Republic, Santo Domingo, Dominican Republic, ⁴Centro de Prevención y Control de Enfermedades Transmitidas por Vectores y Zoonosis, Ministerio de Salud y Asistencia Social, Santo Domingo, Dominican Republic, ⁵Centro de Prevención y Control de Enfermedades Transmitidas por Vectores y Zoonosis, Ministerio de Salud y Asistencia Social, Dominican Republic, Santo Domingo, Dominican Republic

3:15 p.m.

6772

ACCELERATING PROGRESS TOWARDS THE ELIMINATION OF MALARIA AND OTHER VBDS: ENGAGING WOMEN IN VECTOR CONTROL, THE PAMCA EXPERIENCE

Damaris Matoke-Muhia, Jessy Goupeyou-Youmsi, Rosalia Joseph, Christina Sudi, Emma Orefuwa
Pan Africa Mosquito Control Association, Nairobi, Kenya

3:30 p.m.

6773

ADDRESSING HEALTH DISPARITIES AMONG TRANSGENDER WOMEN IN THE MIDDLE EAST: APPLYING THE ADAPT-ITT MODEL TO REFINE AND ENHANCE A COMMUNITY-BASED HIV INTERVENTION

Sasha Abdallah Fahme¹, Rachel Kaplan², Leah Zraika³, Parya Saberi²
¹Weill Cornell Medicine, New York, NY, United States, ²University of California San Francisco, San Francisco, CA, United States, ³Helem Lebanon, Beirut, Lebanon

3:45 p.m.

6774

TOWARDS INCLUSIVE HEALTHCARE: UNDERSTANDING CAREGIVER PERCEPTION ON THE USE OF A DIGITAL TOOL BY CLINICIANS TO MANAGE SICK CHILDREN IN PRIMARY HEALTHCARE SETTINGS OF TANZANIA: A MIXED METHOD STUDY

Geoffrey I. Ashery¹, Ibrahim E. Mtebene¹, Alexandra V. Kulinkina², Godfrey A. Kavishe³, Rainer Tan⁴, Chacha D. Mangu⁵, Lameck L. Luwanda¹, Peter Agrea⁵, Nyanda E. Ntinginya⁶, Honorati M. Masanja¹, Valérie D'Acromont⁴, Sabine Renggli¹
¹Ifakara Health Institute, Dar es Salaam, United Republic of Tanzania, ²Swiss Tropical and Public Health Institute, Basel, Switzerland, ³National Institute of Medical Research, MMRC, Mbeya, United Republic of Tanzania, ⁴University of Lausanne, Lausanne, Switzerland, ⁵National Institute for Medical Research, MMRC, Mbeya, United Republic of Tanzania, ⁶National Institute for Medical Research, Mbeya, United Republic of Tanzania

4 p.m.

6775

DECOMPOSITION ANALYSIS OF CHANGE IN THE BURDEN OF NEGLECTED TROPICAL DISEASES, 1990-2021

Ewerton Cousin, Cathleen Keller, Joanna Whisnant, Stephanie R. M. Zimsen, Taren Gorman, Olivia Nesbit, Lydia Plante, Michael Celone, Quince Hara, Jonathan F. Mosser
Institute for Health Metrics and Evaluation, University of Washington, Seattle, WA, United States

4:15 p.m.

6776

SPATIAL ACCESS TO HEALTH SERVICES IN THE TRI-BORDER REGION OF ARGENTINA, BOLIVIA, AND PARAGUAY

Carla Rodriguez Gonzalez¹, Susana Ávila², Mariana Fernández², Favio Crudo², Veronica Andreo¹, Maria Victoria Periago²
¹Instituto Gulich, Cordoba, Argentina, ²Fundacion Mundo Sano, Buenos Aires, Argentina

4:30 p.m.

6777

ASSOCIATION OF BLOOD PRESSURE AND ANTHROPOMETRIC INDICATORS WITH GENE VARIANTS IN ADULTS IN THE KASSENSA NANKANA MUNICIPAL AND KASSENSA NANKANA WEST DISTRICT OF GHANA

Joseph Alale Aweeya¹, Godfred Agongo², Patrick O. Ansah¹, Lord Gowans³
¹Navrongo Health Research Centre, Navrongo, Ghana, ²C. K. Tedam University of Technology and Applied Sciences, Navrongo, Ghana, ³Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

Scientific Session 42

Global Health: Global Health Security, Emerging Infectious Diseases and Pandemic Preparedness

Convention Center - Room 388/389 (3rd Floor)
Thursday, November 14, 3 p.m. - 4:45 p.m.

This session does not carry CME credit.

#InfectiousDisease #EmergingDiseaseThreats
#Diagnostics #Prevention #Modeling

CHAIR

Miguel Reina Ortiz
Indiana University Fairbanks School of Public Health, Indianapolis, IN, United States

Claire Quiner
RTI International, Research Triangle Park, NC, United States

3 p.m.

6778

USE OF A ONE HEALTH APPROACH TO DETECT EIGHT NOVEL HIGH RISK PATHOGENS IN ACUTE FEBRILE PATIENTS IN NIGERIA

Claire Quiner¹, Jay Samuels², Jean Kim¹, Philippe Chebu², Cyril Erameh³, Vivian Kwaghe⁴, Lauren Courtney¹, Onyia Ejike⁴, Ikponmwosa Odia³, Eke Ofuche², Femi Owolagba², Kat Asman¹, Osas Edeawe³, Ephraim Ogbaini³, Nankpah Vongdip⁴, Victoria Orok⁴, Oladimeji Matthew⁴, Blessed Okira⁴, Jacqueline Agbukor³, Julius Imoyera³, Adamu Ephraim¹, Emmanuel Oga¹
¹RTI International, Research Triangle Park, NC, United States, ²APIN Public Health Initiatives, Abuja, Nigeria, ³Irrua Specialist Teaching Hospital, Irrua, Nigeria, ⁴University of Abuja Teaching Hospital, Abuja, Nigeria

3:15 p.m.

6779

PATHOGEN ANALYSIS NETWORK FOR DETECTING MICROBES IN REAL-TIME (PANDEMIC)

Jessica D. Wiley¹, Ryan C. Chapman¹, Karla Prieto¹, Michael R. Wiley²
¹PraesensBIO, LLC, Omaha, NE, United States, ²University of Nebraska Medical Center, Omaha, NE, United States

3:30 p.m.

6780

SPATIAL VARIATION IN ENVIRONMENTAL AND SOCIODEMOGRAPHIC DRIVERS OF LEPTOSPIROSIS IN THE DOMINICAN REPUBLIC USING A GEOGRAPHICALLY WEIGHTED REGRESSION

Beatris M. Martin¹, Benn Sartorius¹, Helen Mayfield¹, Angela Cadavid Restrepo², Cecilia J. Then Paulino³, Marie C. Etienne³, Ronald Skewes-Ramm³, Eric J. Nilles⁴, Colleen L. Lau¹
¹Centre for Clinical Research, Faculty of Medicine, The University of Queensland, Brisbane, Australia, ²School of Public Health, Faculty of Medicine, The University of Queensland, Brisbane, Australia, ³Ministerio de Salud, Republica Dominicana, Santo Domingo, Dominican Republic, ⁴Brigham and Womens Hospital, Harvard Medical School, Boston, MA, United States

3:45 p.m.

6781

UTILIZATION OF NEAR REAL-TIME ENVIRONMENTAL DATA FOR AN 'EARLY WARNING SYSTEM' TO INCREASE PUBLIC PREPAREDNESS OF THE SEASONALITY AND SPREAD OF LYME DISEASE IN THE UNITED STATES

Patrick H. Kelly¹, Sarah Willis¹, James H. Stark¹, Agustín Estrada-Peña²
¹Pfizer, New York City, NY, United States, ²Ministry of Health, Madrid, Spain

Thursday
November 14

4 p.m.

6782

COUNTRIES' PROGRESS TOWARDS GLOBAL HEALTH SECURITY (GHS) INCREASED HEALTH SYSTEMS RESILIENCE DURING THE CORONAVIRUS DISEASE-19 (COVID-19) PANDEMIC: A DIFFERENCE-IN-DIFFERENCE STUDY OF 191 COUNTRIES

Tyler Y. Headley¹, Sooyoung Kim², Yesim Tozan³

¹New York University Abu Dhabi, Abu Dhabi, United Arab Emirates, ²New York University School of Global Public Health, Department of Public Health Policy and Management, New York, NY, United States, ³New York University School of Global Public Health, Department of Global and Environmental Health, New York, NY, United States

4:15 p.m.

6783

DISTRICT READINESS TO RESPOND TO INFECTIOUS DISEASE PUBLIC HEALTH EMERGENCIES ACCORDING TO THE 7-1-7 TIMELINESS METRICS IN EASTERN UGANDA

Richard Ssekitoleko¹, Herbert Isabirye², Benjamin Fuller³, Margaret R Lawrence³, Solome Okware¹, Annet Alenyo¹, Immaculate Atuhaire¹, Andrew Bakainaga¹, Elizabeth Mgamb¹, Yonas Tegegn Woldemariam¹, Christopher C. Moore³

¹World Health Organization, Kampala, Uganda, ²Infectious Disease Institute and the National Public Health Emergency Operations Center, Kampala, Uganda, ³University Of Virginia, Charlottesville, VA, United States

4:30 p.m.

Lightning Talks

(Lightning Talks are two-minute talks to highlight abstracts assigned to poster presentations.)

6930

LESSONS FROM COVID-19 VACCINATION IMPLEMENTATION IN 52 AFRICAN COUNTRIES: IMPLICATIONS FOR FUTURE PANDEMIC PREPAREDNESS

Muhammed Olanrewaju Afolabi¹, Oghenebrume Wariri², Christinah Mukandavire¹, Yauba Saidu³, Emmanuel A. Okpo⁴, Olalekan Uthman⁵, Beate Kampmann¹

¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²MRC Unit The Gambia at the London School of Hygiene & Tropical Medicine, Banjul, Gambia, ³Clinton Health Access Initiative, Yaounde, Cameroon, ⁴UK Health Security Agency, Newcastle, United Kingdom, ⁵University of Warwick Medical School, Coventry, United Kingdom

6932

RAPID RESPONSE MOBILE SUITCASE LABORATORY AS A TOOL FOR COMBATING INFECTIOUS DISEASE OUTBREAKS

Paula Emily Schweizer¹, Rea Maja Kobialka¹, Arianna Ceruti¹, Prakash Ghosh¹, Martin Faye², Oumar Faye², Andy Mahine Diouf², Soa Fy Andriamandimby³, Dinesh Mondal⁴, Sarah Schurig¹, Manfred Weidmann⁵, Julius Boniface Okuni⁶, Kamal H Eltom⁷, Sheila Makiala-Mandanda⁸, Mitali Chatterjee⁹, Michael Frimpong¹⁰, Ndongo Dia², George Olusegun Ademowo¹¹, Mohamed A. Shalaby¹², Uwe Truyen¹, Ahmed Abd El Wahed¹

¹Institute of Animal Hygiene and Veterinary Public Health, Leipzig University, Leipzig, Germany, ²Virology Department, Institut Pasteur de Dakar, Dakar, Senegal, ³Virology Unit, Institut Pasteur de Madagascar, Madagascar, ⁴Nutrition Research Division, International Centre for Diarrhoeal Disease Research, Bangladesh (icddr), Dhaka, Bangladesh, ⁵Institute of Microbiology and Virology, Medizinische Hochschule Brandenburg Theodor Fontane, Neuruppin, Germany, ⁶College of Veterinary Medicine, Animal Resources and Biosecurity, Makerere University, Kampala, Uganda, ⁷Department of Animal Health and Safety of Animal Products, Institute for Studies and Promotion of Animal Exports, University of Khartoum, Khartoum, Sudan, ⁸Department of Virology at the Institut National de Recherche Biomédicale (INRB); Faculty of Medicine, University of Kinshasa, Kinshasa, Democratic Republic of the Congo, ⁹Department of Pharmacology, Institute of Postgraduate Medical Education and Research, Kolkata, India, ¹⁰Kumasi Centre for Collaborative Research in Tropical Medicine (KCCCR), Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, ¹¹Institute for Advanced Medical Research and Training (IAMRAT), College of Medicine, University of Ibadan, Ibadan, Nigeria, ¹²Department of Virology, Faculty of Veterinary Medicine, Cairo University, Cairo, Egypt

7677

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

Debra U. Okeh¹, Afeez Abidemi², Emmanuel A. Bakare³, Samson O. Olagbami², Godswill U. Ogbonnaya¹, Godwin O. Okafor¹, Kingsley Metu¹, Ugochukwu U. Onyeonoro¹, Azubuike K. Onyebuchi¹, Victor O. Ameh³, Emmanuel Shekarau³, Augustine U. Akubue⁴, Amos K. Langat⁵, Perpetua O. Nnemelu⁶, Idowu Olasupo²

¹Federal Medical Centre Umuahia, Abia, Nigeria, ²International Centre for Applied Mathematical Modelling and Data Analytics, Federal University Oye, Ekiti, Nigeria, ³National Malaria Elimination Programme, Abuja, Nigeria, ⁴Central Washington College, Enugu, Nigeria, ⁵Pan African University Institute for Basic Sciences Technology and Innovation, Nairobi, Kenya, ⁶Nnamdi Azikiwe University Teaching Hospital, Nnewi, Nigeria

6885

SYNDEMIC MODELLING: A NOVEL MATHEMATICAL MODELLING FRAMEWORK FOR SIMULATING MULTIPLE PATHOGENS DYNAMICS IN CONTEXT

Caroline Franco¹, Lisa J. White², Sheetal Silal³

¹University of Aberdeen, Aberdeen, United Kingdom, ²University of Oxford, Oxford, United Kingdom, ³University of Cape Town, Cape Town, South Africa

6933

ADAPTING RAPID LABORATORY BIORISK SELF-ASSESSMENTS TO BETTER INCORPORATE CYBER-BIOSECURITY RISKS

Ming Yang Ong¹, Emilie Ryan-Castillo¹, Lauren Miller¹, Brian Samuelson¹, Claire Standley¹, Kaitlin Sandhaus², Kevin Omondi³, Tura Galgado³

¹Georgetown University Center for Health Science and Security, Washington D.C., DC, United States, ²Global Implementation Solutions, Chicago, IL, United States, ³Global Implementation Solutions, Nairobi, Kenya

Scientific Session 43

Malaria: Antimalarial Resistance and Chemotherapy

Convention Center - Room 391/392 (3rd Floor)

Thursday, November 14, 3 p.m. - 4:45 p.m.

#Resistance #PopulationSurveillance #Elimination
#Genomics #Therapeutics

CHAIR

David Serre

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

Ethan Booth

Mahidol-Oxford Tropical Medicine Research Unit, Bangkok, Thailand

3 p.m.

6784

A SUBSET OF CAMBODIAN PLASMODIUM VIVAX PARASITES TREATED WITH ARTESUNATE DISPLAY SLOW CLEARANCE AND A DELAYED AND UNIQUE GENE EXPRESSION RESPONSE

Kieran Tebben¹, Virak Eng², David Serre¹, Jean Popovici²

¹University of Maryland School of Medicine, Baltimore, MD, United States, ²Institut Pasteur du Cambodge, Phnom Penh, Cambodia

3:15 p.m.

6785

EVALUATION OF AN IMPROVED SYBR GREEN I ASSAY FOR SURVEILLANCE OF ANTIMALARIAL RESISTANCE IN EX VIVO AND CULTURED ISOLATES

Agnes C. Cheruiyot, Redemptah Yeda, Farid Abdi, Dennis Juma, Benjamin.Opot@usamru-k.org Opot, Raphael Okoth, Jackline Juma, Risper Maisiba, Maurine Mwalo, Edwin Mwakio, Timothy E. Egbo, Hosea Akala
Kenya Medical Research Institute/ USAMRU-A, Kisumu, Kenya

3:30 p.m.

6786

EMERGING BIOLOGICAL THREATS TO MALARIA CONTROL IN UGANDA: EVIDENCE OF VALIDATED MARKERS OF PARTIAL ARTEMISININ RESISTANCE AND PFHRP2/3 DELETIONS IN A HIGH TRANSMISSION SETTING

Dr. Bosco B. Agaba¹, Trevor Jye², David Smith³, Prof. Antonio Martin⁴, Associate Prof. Beshir Khalid⁵, Prof. Moses R. Kamya⁶, Prof. Pontiano Kaleebu⁷, Prof. Piot Peter⁸, Prof. Qin Cheng⁹

¹Malaria Control Division/London School of Hygiene & Tropical Medicine/Peter Piot Fellow for Global Health Innovation: Epidemic Preparedness & Response/Mbarara University of Science and Technology, Kampala, Uganda, ²QIMR Berghofer Medical Research Institute, Brisbane, Australia, ³Australian Defence Force Malaria and Infectious Disease Institute, Australia, Brisbane, Australia, ⁴London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁵London School of Hygiene & Tropical Medicine, London, Australia, ⁶Infectious Diseases Research Collaboration, Kampala, Uganda, ⁷London School of Hygiene & Tropical Medicine/Uganda Virus Research Institute, Entebbe, Uganda, ⁸Australian Defence Force Malaria and Infectious Disease Institute, Australia, Brisbane, Australia

3:45 p.m.

6787

ARTESUNATE-PYRONARIDINE IS EFFICACIOUS FOR THE TREATMENT OF UNCOMPLICATED PLASMODIUM VIVAX INFECTIONS AND BLOCKS TRANSMISSION MORE THAN CHLOROQUINE IN ETHIOPIA

Migbaru Keffale Bezabih¹, Sinknesh Wolde¹, Misganaw Misganaw¹, Hiwot Teka², Bereket Hailegiorgis³, Natnael Lemessa¹, Legesse Alamerie Ejigu¹, Samuel Girma², Mekonnen Tadesse³, Fikregabrail Aberra Kassa¹, Mikiyas Gebremichael¹, Wakweya Chali¹, Amanuel Shimelash¹, Melat Abdo¹, Addisu Gizat¹, Getinet Habtamu¹, Gudisa Assefa Bayissa⁴, Teun Bousema⁵, Fitsum G. Tadesse⁶

¹Armauer Hansen Research Institute (AHRI), Addis Ababa, Ethiopia, ²U.S. President's Malaria Initiative, USAID, Addis Ababa, Ethiopia, ³ICAP at Columbia University, Addis Ababa, Ethiopia, ⁴Ministry of Health, Addis Ababa, Ethiopia, ⁵Armauer Hansen Research Institute (AHRI), Nijmegen, Netherlands, ⁶London School of Hygiene & Tropical Medicine, London, United Kingdom

4 p.m.

6788

INTERACTIVE GENETIC EPIDEMIOLOGY TOOLS FOR SURVEILLANCE OF DRUG-RESISTANT MALARIA PARASITE STRAINS

Ethan James Booth, Varanya Wasakul, Tess Verschuuren, Olivo Miotto
Mahidol-Oxford Tropical Medicine Research Unit, Bangkok, Thailand

4:15 p.m.

6789

PARTNERSHIP FOR ANTIMALARIAL RESISTANCE MONITORING IN AFRICA (PARMA) HUBS: LOCALIZATION AND CAPACITY STRENGTHENING FOR AFRICAN RESEARCHERS BY AFRICAN RESEARCHERS

Awa Deme¹, Irene Cavros², Mamadou A. Diallo¹, Mouhamad Sy¹, Bassirou Ngom¹, Amy Gaye¹, Aita Sene¹, Djiby Sow¹, Tolla Ndiaye¹, Ibrahima M. Ndiaye¹, Daba Zoumarou¹, Jessica McCaffery³, Marko Bajic³, Cassandra Webster⁴, Jehan Ahmed⁵, Daouda Ndiaye¹
¹International Research Training Center on Genomics and Health Surveillance (CIGASS), Dakar, Senegal, ²U.S. President's Malaria Initiative, Malaria Branch, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States, ³U.S. President's Malaria

Initiative, Laboratory Science and Diagnostics Branch, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴CDC Foundation, Atlanta, GA, United States, ⁵PATH, Washington, DC, United States

4:30 p.m.

Lightning Talks

(Lightning Talks are two-minute talks to highlight abstracts assigned to poster presentations.)

7911

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

Sunil K. Narwal¹, John M. Bennett², Krittikorn Kumpornsin³, John Okombo¹, Tomas Yeo¹, Case McNamara³, Matthew Bogyo², David A. Fidock⁴

¹Department of Microbiology and Immunology, Columbia University Irving Medical Center, New York, NY, United States, ²Department of Chemistry, Stanford University, Stanford, CA, United States, ³Calibr at Scripps Research Institute, La Jolla, CA, CA, United States, ⁴Department of Microbiology and Immunology, Columbia University Irving Medical Center, New York, NY, United States

7918

PROFILING OF DRUG RESPONSES AND ANTIMALARIAL DRUG RESISTANCE MARKERS IN P. FALCIPARUM CLONES FROM A GHANAIAN DHA-SELECTED CLINICAL ISOLATE

Bridget Adikah, Silas Yeboah, Jersley Chirawurah, Elizabeth Akrong, Gordon Awandare, Lucas Amenga-Etego, Yaw Aniweh
West Africa Centre for Cell Biology of Infectious Pathogens, Legon, Ghana

7146

A DOUBLE THREAT TO ACT EFFICACY IN AFRICA: REDUCED SUSCEPTIBILITY OF PLASMODIUM FALCIPARUM TO BOTH ARTEMISININ AND LUMEFANTRINE

Colin J. Sutherland, Sade Pratt, Donnelly A. van Schalkwyk
London School of Hygiene & Tropical Medicine, London, United Kingdom

7147

COMBINATION OF REDOX MODIFIERS WITH ARTEMISININ RESULTS IN INCREASED PARASITE SUSCEPTIBILITY TO ARTEMISININS

Annie Roys¹, Ghizal Siddiqui¹, Carlo Giannangelo¹, Darren Creek¹, Natalie Counihan²
¹Monash institute of pharmaceutical science, Melbourne, Australia, ²Deakin University, Geelong, Australia

7898

ASSESSMENT OF ANTIMALARIAL RESISTANCE AND ASSOCIATED MARKERS IN GAMBIAN P. FALCIPARUM CLINICAL ISOLATES

Ndey Fatou Drammeh, Fatoumatta Bojang, Nora Nganyewo, Aminata Seedy Jawara, Simon Correa, Eniyou Cheryll Oriero, Alfred Amambua-Ngwa
Medical Research Council Unit The Gambia at London School of Hygiene & Tropical Medicine, Banjul, Gambia

Thursday
November 14

Scientific Session 44

Malaria: Genetics, Genomics and Evolution

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

Thursday, November 14, 3 p.m. - 4:45 p.m.

#Genetics #Evolution #Modeling
#PopulationSurveillance #Genomics

CHAIR

Angela M. Early

Broad Institute of MIT and Harvard, Cambridge, MA, United States

Alfred Amambua-Ngwa

Medical Research Council Unit The Gambia at London School of Hygiene & Tropical Medicine, Banjul, Gambia

3 p.m.

6790

NEW INSIGHTS ON SELECTION OF MALARIA PARASITES REVEALED BY GENOMES OF OLDEST ARCHIVED *PLASMODIUM FALCIPARUM* POPULATION SAMPLES

Alfred Amambua-Ngwa¹, Mouhamadou Fadel Diop¹, Christopher J. Drakeley², Umberto D'Alessandro¹, Dominic Kwiatkowski³, David J. Conway²

¹Medical Research Council Unit The Gambia at London school of Hygiene and Tropical Medicine, Banjul, Gambia, ²London school of Hygiene and Tropical Medicine, London, United Kingdom, ³MRC Centre for Genomics and Global Health, Big Data Institute, Oxford University, Oxford, United Kingdom

(ACMCIP Abstract)

3:15 p.m.

6791

A COMPLEX *PLASMODIUM FALCIPARUM* CRYPTOTYPE CIRCULATING AT LOW FREQUENCY ACROSS THE AFRICAN CONTINENT

Olivo Miotto¹, Alfred Amambua-Ngwa², Lucas N. Amenga-Etego³, Muzamil M. Abdel Hamid⁴, Ishag Adam⁵, Enoch Aninagyei⁶, Tobias Apinjoh⁷, Gordon A. Awandare⁸, Philip Bejon⁹, Gwladys Bertin⁹, Marielle Bouyou-Akotet¹⁰, Claessens Antoine¹¹, David J. Conway¹², Umberto D'Alessandro², Mahamadou Diakite¹³, Abdoulaye Djimdé¹³, Arjen M. Dondorp¹⁴, Patrick Duffy¹⁵, Rick M. Fairhurst¹⁵, Caterina I. Fanello¹⁴, Anita Ghansah¹⁶, Deus S. Ishengoma¹⁷, Mara Lawniczak¹⁸, Oumou Maïga-Ascofaré¹⁹, Sarah Auburn²⁰, Anna Rosanas-Urgell²¹, Varanya Wasakul¹⁴, Nina FD White¹⁸, Alexandria Harrott¹⁸, Jacob Almagro-Garcia¹⁸, Richard D. Pearson¹⁸, Sonia Goncalves¹⁸, Cristina Ariani¹⁸, Zbynek Bozdech²², William Hamilton¹⁸, Victoria Simpson¹⁸, Dominic Kwiatkowski²³

¹University of Oxford, Bangkok, Thailand, ²Medical Research Council Unit The Gambia at LSHTM, Banjul, Gambia, ³West African Centre for Cell Biology of Infectious Pathogens (WACCBIP), University of Ghana, Accra, Ghana, ⁴Institute of Endemic Diseases, University of Khartoum, Khartoum, Sudan, ⁵Department of Obstetrics and Gynecology, Unaizah College of Medicine and Medical Sciences, Qassim University, Unaizah, Saudi Arabia, ⁶Department of Biomedical Sciences of School of Basic and Biomedical Sciences, University of Health and Allied Science, Ho, Ghana, ⁷Department of Biochemistry and Molecular Biology, University of Buea, Buea, Cameroon, ⁸KEMRI Wellcome Trust Research Programme, Kilifi, Kenya, ⁹Institute of Research for Development (IRD), Paris, France, ¹⁰Faculty of Medicine, University of Health Sciences, Libreville, Gabon, ¹¹LPHI, MIVEGEC, INSERM, CNRS, IRD, University of Montpellier, Montpellier, France, ¹²London School of Hygiene & Tropical Medicine, London, United Kingdom, ¹³Malaria Research and Training Centre, University of Science, Techniques and Technologies of Bamako, Bamako, Mali, ¹⁴Mahidol-Oxford Tropical Medicine Research Unit, Mahidol University, Bangkok, Thailand, ¹⁵National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States, ¹⁶Noguchi Memorial Institute for Medical Research (NMIMR), Accra, Ghana, ¹⁷National Institute for Medical Research (NIMR), Dar Es Salaam, United Republic of Tanzania, ¹⁸Wellcome Sanger Institute, Hinxton, United Kingdom, ¹⁹Bernhard Nocht Institute for Tropical Medicine (BNITM), Hamburg, Germany, ²⁰Menzies School of Health Research, Charles Darwin University, Darwin, Australia, ²¹Institute of Tropical Medicine Antwerp, Antwerp, Belgium, ²²School of Biological Sciences, Nanyang Technological University, Singapore, Singapore, ²³Big Data Institute, Oxford University, Oxford, United Kingdom

(ACMCIP Abstract)

3:30 p.m.

6792

UNDERSTANDING GENETIC AND TRANSCRIPTIONAL COMPLEXITY IN MALARIA: INSIGHTS FROM SINGLE-CELL RNA-SEQUENCING IN MALI

Sunil Kumar Dogga¹, Jesse Rop¹, Seri Kitada¹, Yomna Gohar², Antoine Dara³, Dinkorma Ouologuem³, Fataimoudou Tandina³, Sekou Sissoko³, Arthur Talman⁴, Abdoulaye Djimdé³, Mara Lawniczak¹

¹Wellcome Sanger Institute, Hinxton, United Kingdom, ²Institute of Medical Microbiology and Hospital Hygiene, Heidelberg, Germany, ³University of Science, Techniques and Technologies of Bamako, Bamako, Mali, ⁴MIVEGEC, University of Montpellier, IRD, CNRS, Montpellier, France

(ACMCIP Abstract)

3:45 p.m.

6793

GENETIC VARIATIONS IN *P. FALCIPARUM* INVASION LIGANDS AND THEIR COGNATE HUMAN RECEPTOR VARIANTS IN MALARIA CASES FROM THE GAMBIA

Nora Nghochuzie Ngyanyewo¹, Martha Anita Martha¹, Mouhamadou Fadel Diop¹, Eniyou C. Oriero¹, Lucas N. Amenga-Etego², Alfred Amambua-Ngwa¹

¹Medical Research Council Unit The Gambia at London School of Hygiene & Tropical Medicine, Banjul, Gambia, ²West African Centre for Cell Biology and Infectious Pathogens, Accra, Ghana

(ACMCIP Abstract)

4 p.m.

6794

DEFINING IMMUNE ESCAPE POLYMORPHISMS IN *PLASMODIUM VIVAX*: INSIGHTS FROM THE ANALYSIS OF ALLELIC TURNOVER OF 16 ANTIGENS IN A LONGITUDINAL COHORT OF PAPUA NEW GUINEAN CHILDREN

Alison Paolo Namuco Bareng¹, Myo Naung¹, Zahra Razook¹, Alicia Arnott², Enmoore Lin³, Benson Kiniboro³, Moses Laman³, Leanne Robinson⁴, Ivo Mueller², Alyssa Barry¹

¹Deakin University, Victoria, Australia, ²Walter and Eliza Hall Institute, Victoria, Australia, ³Papua New Guinea Institute of Medical Research, Madang, Papua New Guinea, ⁴Burnet Institute, Victoria, Australia

(ACMCIP Abstract)

4:15 p.m.

6795

SOFTWARE TO ESTIMATE THE PROBABILITY THAT A RECURRENT MALARIA INFECTION IS A REINFECTION, RECRUDESCENCE OR RELAPSE

Aimee R. Taylor¹, Yong See Foo², Michael T. White¹

¹Institut Pasteur, Université Paris Cité, Paris, France, ²The University of Melbourne, Parkville, Melbourne, Australia

(ACMCIP Abstract)

4:30 p.m.

6796

GENETIC REGULATION OF *PLASMODIUM FALCIPARUM* OXIDATIVE STRESS RESPONSES

Camilla V. Pires¹, Jenna Oberstaller¹, Min Zhang¹, Chengqi Wang¹, Thomas Otto², Julian Rayner³, John Adams¹

¹University of South Florida, Tampa, FL, United States, ²University of Glasgow, Glasgow, United Kingdom, ³University of Cambridge, Cambridge, United Kingdom

(ACMCIP Abstract)

Scientific Session 45

Malaria: Elimination

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

Thursday, November 14, 3 p.m. - 4:45 p.m.

#Resistance #InfectiousDisease #Elimination
#Modeling #Diagnostics

CHAIR

Aissatou Diawara

Global Institute for Disease Elimination (GLIDE), Abu Dhabi, United Arab Emirates

Truphena Onyango

KEMRI-Wellcome Trust Research Programme, Kilifi, Kenya

3 p.m.

6797

ASSESSMENT OF STRATEGIES USED IN THE MALARIA ELIMINATION DEMONSTRATION PROJECT (MEDP) FOR THE REDUCTION OF MALARIA IN A TRIBAL DISTRICT OF MADHYA PRADESH, INDIA

Harsh Rajvanshi¹, Farzana Islam², Altaf Lal¹

¹Foundation for Disease Elimination and Control of India, Mumbai, India, ²Jamia Hamdard University, New Delhi, India

3:15 p.m.

6798

ADVANCING MALARIA ELIMINATION ASSESSMENT IN LORETO, PERU THROUGH THE FREEDOM FROM INFECTION MODEL

Jorge Ruiz-Cabrejos¹, Luca Nelli², Bryan Fernandez-Camacho¹, Brian Peña-Calero¹, Jose Luis Barboza¹, Luciana Bartolini-Arana¹, Hugo Rodriguez-Ferrucci³, Veronica E. Soto-Calle⁴, Isabel Byrne⁵, Monica Hill⁵, Lynn Grignard⁵, Kevin Tetteh⁵, Alejandro Llanos-Cuentas⁶, Chris Drakeley⁵, Gillian Stresman⁵, Gabriel Carrasco-Escobar¹

¹Health Innovation Laboratory, Universidad Peruana Cayetano Heredia, Lima, Peru, ²School of Biodiversity, One Health and Veterinary Medicine, University of Glasgow, Glasgow, United Kingdom, ³Universidad Nacional de la Amazonía Peruana, Iquitos, Peru, ⁴Dirección de Prevención y Control de Enfermedades Metaxénicas y Zoonosis, Ministerio de Salud, Lima, Peru, ⁵London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁶Institute of Tropical Medicine Alexander von Humboldt, Universidad Peruana Cayetano Heredia, Lima, Peru

3:30 p.m.

6799

COMMUNITY EXPERIENCES AND PERCEPTIONS OF THE BOHEMIA TRIAL OF IVERMECTIN MASS DRUG ADMINISTRATION: A LONGITUDINAL QUALITATIVE STUDY IN KWALE COUNTY, KENYA

Truphena N. Onyango, Khadija Nuru, Karisa Kazungu, Winnie Wangari, Caroline Jones

KEMRI-Wellcome Trust Research Programme, Kilifi, Kenya

3:45 p.m.

6800

REACTIVE CASE DETECTION IN ZANZIBAR, A MALARIA ELIMINATION-TARGETED SETTING EXPERIENCING MALARIA UPSURGES IN 2023

Michael Gulaka¹, Abdulhamid Ramadhan², Mohamed Ali Kitwasi², Stella Makwaruzi¹, Saidi Mgata¹, Geoffrey Makenga¹, Nicodemus Govella¹, Marguerite M. Clougherty³, Roly Gosling³, Shija J. Shija², Albert Ikonje⁴, Sarah-Blythe Ballard⁵, Naomi Serbantez⁴, Sigsibert Mkude¹

¹Population Services International (PSI), Dar es Salaam, United Republic of Tanzania, ²Zanzibar Malaria Elimination Program, Ministry of Health, Zanzibar, United Republic of Tanzania, ³Population Services International (PSI), Washington DC, WA, United States, ⁴U.S. President's Malaria Initiative, U.S. Agency for International Development, Dar es Salaam, United Republic of Tanzania, ⁵U.S. President's Malaria Initiative, U.S. Centers for Disease Control and Prevention, Dar es Salaam, United Republic of Tanzania

4 p.m.

6801

RE-EMERGENCE OF *PLASMODIUM VIVAX* MALARIA CASES IN BORDER AREAS OF MYANMAR AND STRATEGIC EFFORTS TO INTEGRATE NEW TOOLS AT NATIONAL LEVEL FOR ELIMINATION OF *PLASMODIUM VIVAX* MALARIA FROM 2021 TO 2023

Zwe Thihaa Kyaw, Wah Wah Thaw, Kyi Tun Lwin, Soe Htike, Day Naing Aung, Han Lin Aung, Khin Zarli Aye
PATH, Yangon, Myanmar

4:15 p.m.

6802

OPTIMIZING LAST-MILE DELIVERY THROUGH THE INTEGRATION OF MALARIA COMMODITIES DISTRIBUTION IN MALAWI

Fikadu Batu¹, Daniel Tadesse Tadesse¹, Lumbani Munthali², Lumbani Makwakwa³, Denver Raisi¹, Elias Mwalabu¹, Charles Nzawa¹

¹USAID Global Health Supply Chain Program-Procurement and Supply Management (GHSC-PSM) project, Lilongwe, Malawi, ²Ministry of Health-NMCP, Lilongwe, Malawi, ³USAID, Lilongwe, Malawi

4:30 p.m.

Lightning Talks

(Lightning Talks are two-minute talks to highlight abstracts assigned to poster presentations.)

7934

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

Daouda SANOGO¹, Mahamoudou Toure², Moussa Keita³, Fousseyni Kane¹, Soumba Keita¹, Cheick Oumar Doumbia¹, Hamady Coulibaly¹, Mountaga Diallo¹, Mahamadou Diakite³, Nafomon Sogoba⁴, Seydou Doumbia⁵

¹University Clinical Research Center(UCRC), Bamako, Mali, ²University of Sciences, Tech and Techniques of Bamako (USTTB)/University Clinical Research Center(UCRC), Bamako, Mali, ³University of Sciences, Tech and Technologies of Bamako(USTTB)/University Clinical Research Center(UCRC), Bamako, Mali, ⁴University of Sciences, Tech and Technologies of Bamako (USTTB)/University Clinical Research Center(UCRC), Bamako, Mali, ⁵University of Sciences, Tech and Technologies of Bamako (USTTB)/University Clinical Research Center(UCRC), Bamako, Mali, Bamako, Mali

7944

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

Modest Mulenga¹, Mike Chaponda², Mbanga Muleba², Jean-Bertin Kabuya², William Moss³, ICEMR Southern Africa –⁴

¹Lusaka Apex Medical University, Lusaka, Zambia, ²Tropical Diseases Research Centre, Ndola, Zambia, ³Johns Hopkins School of Public Health, Baltimore, MD, United States, ⁴–, Baltimore, MD, United States

7938

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

Ednah Ramokone Baloyi¹, Sadiq K. Wanjala², Bongani E. Simelane³, Nompumelelo Z. Mdletshe³, Tshikae B. Power³, Ziyanda Fekema⁴, Mabatho Mogadime¹, Bridget M. Shandukani¹, Babongile Mhlongo³

¹National Department of Health, Pretoria, South Africa, ²Clinton Health Access Initiative, Richards Bay, South Africa, ³Malaria Program, KwaZulu Natal Provincial Department of Health, Jozini, South Africa, ⁴Humana People to People, Pretoria, South Africa

7205

INTEGRATING ACTIVE SURVEILLANCE AND ENTOMOLOGY FELLOWSHIP FOR SUSTAINABLE MALARIA CONTROL AND ELIMINATION IN SOUTHERN ANGOLA

André Domingos¹, Generoso Wangama², José Franco Martins³, Cani Pedro Jorge³, Luzala Garcia³, Fernanda Guimarães³, Paulo Máquina⁴, Manuel Lando⁵, Ana Direito⁶, Xavier Badia⁷, Gonçalo Alves⁷, **Teresa Nobrega⁸**

¹Provincial Public Health Department, Ondjiva, Angola, ²SADC E8 fellowship, Cuangar, Angola, ³National Malaria Control Programme, Ministry of Health, Luanda, Angola, ⁴SADC Elimination 8, Luanda, Angola, ⁵The Mentor Initiative, Ondjiva, Angola, ⁶The Mentor Initiative, Luanda, Angola, ⁷The Mentor Initiative, Haywards Heath, United Kingdom

7194

IMPROVING INTEGRATED COMMUNITY CASE MANAGEMENT (ICCM) BY COMMUNITY HEALTH WORKERS - AN EXAMPLE OF MALARIA MANAGEMENT IN NCHELENGE DISTRICT, ZAMBIA

Gift Hapenga¹, Chilowekwa Shike¹, Tawonga Manda¹, Jennifer Somtore², Rabson Zyambo³, Tamara Ngona⁴

¹USAID Global Health Supply Chain Program-Procurement and Supply Management (GHSC-PSM) project, Lusaka, Zambia, ²U.S. President's Malaria Initiative (PMI), Lusaka, Zambia, ³USAID, Lusaka, Zambia, ⁴Ministry of Health-NMEC, Lusaka, Zambia

Break

Thursday, November 14, 4:45 p.m. - 5:15 p.m.

**Infectious Diseases Surveillance and Modeling in LMICs: From Data Collection to Forecasting**

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

Thursday, November 14, 5:15 p.m. - 7 p.m.

The COVID-19 pandemic, Ebola, cholera, and endemic diseases rising to epidemic levels have burdened existing public health infrastructure and surveillance systems globally. Resource scarcity and limited clinical reporting compounds these public health challenges in low- and middle-income countries. To confront these challenges, public health personnel within LMICs have made significant innovations, including enhancement of clinical data collection, surveillance systems, response infrastructure, and forecasting future outbreaks. This symposium presents five unique perspectives from LMICs on three continents, with examples of public health officials and NGOs who have partnered to improve public health in the face of multiple outbreaks. Each speaker outlines innovations in surveillance, response, or forecasting capabilities in resource-limited settings. The ability to track, respond, and forecast outbreaks hinges upon the accuracy of the data collected. Implementing technologies such as DHIS2 has augmented this effort, but the challenges of on-ground implementation are significant. Carol Kyoziira, the Principal Biostatistician for the Ugandan Ministry of Health, will outline the challenges and, ultimately, the success of implementing a nationwide health data collection system in the face of multiple disease outbreaks, including Ebola, cholera, and COVID-19. Dr. Isobel Blake will present research on the value of sewage surveillance in Bangladesh for COVID-19 monitoring. Results from this surveillance system were shared with the National COVID-19 task force every week via a real-time dashboard, enhancing

response throughout Bangladesh. Dr. John Giles will discuss the development of a stochastic spatial model of Cholera transmission in Sub-Saharan Africa using incidence data collected as part of a national-level surveillance program. The model leverages multiple data streams to produce short-term district-level predictions of Cholera incidence with implications for the recent 2023-24 Cholera outbreak and future public health responses. Paul Garcia will outline a novel approach to rapid pathogen identification during the early stages of an outbreak and how his team has coupled this technology with notification and implementation of rapid response capabilities in Peru. Finally, we highlight advances in response and forecasting. The Uganda Ministry of Health has constructed a national network of Emergency Operations Centers, which uses real-time forecasting data to predict and rapidly respond to outbreaks. Dr. Richard Ssekitoleko of WHO-Uganda and Mr. Herbert Isabirye of the Ugandan Ministry of Health will outline the creation of the EOCs in Uganda during Ebola and COVID-19 outbreaks and how forecasting has augmented response efforts. #Modeling #Epidemiology #InfectiousDisease #PopulationSurveillance

CHAIR

Mami Taniuchi
University of Virginia, Charlottesville, VA, United States

Ben Fuller
University of Virginia, Charlottesville, VA, United States

5:15 p.m. INTRODUCTION**5:25 p.m. ESTABLISHMENT OF DHIS2 AS A TOOL FOR DISEASE SURVEILLANCE THROUGHOUT UGANDA**

Carol Kyoziira
Uganda Ministry of Health, Kampala, Uganda

5:40 p.m. WASTEWATER SURVEILLANCE FOR SARS-COV-2 AND OTHER PATHOGENS FOR PUBLIC HEALTH IMPACT: BANGLADESH EXPERIENCE

Isobel Blake
Imperial College London, London, United Kingdom

5:55 p.m. A SURVEILLANCE AND RESPONSE SYSTEM FOR ACUTE FEBRILE ILLNESS IN THE PERUVIAN AMAZON

Paul Garcia
Asociación Benefica PRISMA, Iquito, Loreto, Peru

6:10 p.m. A STOCHASTIC SPATIAL MODEL OF CHOLERA TRANSMISSION IN SUB-SAHARAN AFRICA AS PART OF A NATIONAL-LEVEL SURVEILLANCE PROGRAM

John Giles
The Bill & Melinda Gates Foundation, Institute for Disease Modeling, Seattle, WA, United States

6:25 p.m. THE ESTABLISHMENT OF A NATIONAL EMERGENCY RESPONSE NETWORK TO FORECAST AND COMBAT PATHOGENS OF INTEREST IN UGANDA

Richard Ssekitoleko
WHO-Uganda, Uganda Ministry of Health, Kampala, Uganda

6:40 p.m.

THE ESTABLISHMENT OF A NATIONAL EMERGENCY RESPONSE NETWORK TO FORECAST AND COMBAT PATHOGENS OF INTEREST IN UGANDA

Herbert Isabirye

Uganda National Public Health Emergency Operations Center, Kampala, Uganda

Symposium 47

A Tribute to Carlos (Kent) Campbell: Global Leader in the Fight Against Malaria

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

Thursday, November 14, 5:15 p.m. - 7 p.m.

THIS SESSION DOES NOT CARRY CME CREDIT.

Carlos (Kent) Campbell, MD, MPH, FASTMH, ASTMH President (2007), Councilor (1990-1994) and recipient of the Society's Joseph Augustin Le Prince Medal (2012) passed away in Tucson, Arizona, on February 20, 2024, at age 80. Known to many for his kind, charismatic demeanor, visionary thinking, and good-natured sense of humor expressed in his southern drawl, Kent was a global leader in the fight against malaria who had a profound impact on efforts to control and eliminate the disease. This tribute symposium will track his remarkable life and career from his pre-CDC life in eastern Tennessee and at Haverford, Duke and Harvard through his start at the Centers for Disease Control as an EIS Officer in 1972, his start in malaria in El Salvador (1973-1976) followed by his leadership as Malaria Branch Chief (through 1993), his move to Arizona to develop and serve as interim Dean of the University of Arizona College of Public Health (1995-2002) and his return to malaria-specific work with UNICEF and then the Bill and Melinda Gates Foundation where he worked to co-develop the MACEPA Program and the Center of Excellence for Malaria at PATH (2003-2014) and establish collaborations with many African malaria-endemic countries and the global malaria community. As Kent noted in 2014, "Building a set of systems changes forever the potential of African communities: that's what's kept me in this business. When I started, malaria was merely a biological entity people studied in the lab, and I've seen a rapid shift during my career." The symposium will focus on his ever-evolving work and the qualities and reach of his mentorship over 40+ years. We will be joined by Kent's immediate family and many of his collaborating colleagues.

Reception to follow.

#InfectiousDisease #Elimination

CHAIR

Stephen L. Hoffman

Sanaria, Rockville, MD, United States

Regina Rabinovich

ISGlobal, Barcelona, Spain

5:15 p.m.

INTRODUCTION

5:30 p.m.

FAMILY LIFE

Kristine Campbell

University of Utah Medical Center, Salt Lake City, UT, United States

Patrick Campbell

St Jude Children's Research Hospital, Memphis, TN, United States

5:35 p.m.

KENT'S WEST AFRICAN ADVENTURE WITH LASSA

Thomas P. Monath

Quigley Biopharma LLC, Bolton, MA, United States

5:45 p.m.

EL SALVADOR

David Brandling Bennett

Medical Epidemiologist, Retired, Seattle, WA, United States

5:55 p.m.

CDC MALARIA BRANCH CHIEF

Altaf A. Lal

Sun Pharmaceuticals Industries Limited, Atlanta, GA, United States

Bernard Nahlen

University of Notre Dame, Eck Institute for Global Health, South Bend, IN, United States

Eve Lackritz

Center for Infectious Disease Research and Policy (CIDRAP), University of Minnesota, Minneapolis, MN, United States

6:15 p.m.

BUILDING THE UNIVERSITY OF ARIZONA'S SCHOOL OF PUBLIC HEALTH

Imam Hakim

The University of Arizona School of Public Health, Tucson, AZ, United States

6:25 p.m.

UNICEF TO GATES TO MACEPA

Richard Steketee

Medical Epidemiologist, Retired, Bethesda, MD, United States

Kafula Silumbe

Monitoring and Evaluation, MACEPA/PATH, Lusaka, Zambia

Busiku Hamainza

Zambia Ministry of Health, Lusaka, Zambia

Kammerle Schneider

PATH, Seattle, WA, United States

6:45 p.m.

CLOSING REMARKS FROM FAMILY

Kristine Campbell

University of Utah Medical Center, Salt Lake City, UT, United States

Patrick Campbell

St Jude Children's Research Hospital, Memphis, TN, United States

6:55 p.m.

REMARKS FROM AUDIENCE AND CLOSING

Thursday
November 14

Scientific Session 48

Water, Sanitation, Hygiene and Environmental Health (WaSH-E): Outcomes

Convention Center - Room 345 (3rd Floor)

Thursday, November 14, 5:15 p.m. - 7 p.m.

#Epidemiology #MolecularBiology #InfectiousDisease

CHAIR

Christine Marie George

Johns Hopkins Bloomberg School of Public Health, Maryland, MD, United States

Isaac Chun Hai Fung

Georgia Southern University, Statesboro, GA, United States

5:15 p.m.

6803

EXAMINATION OF PATHOGENS AND FECAL MARKERS IN THE ENVIRONMENT DUE TO INADEQUATE SANITATION SERVICES IN THE ALABAMA BLACK BELT.

Olivia A. Harmon, Megan Lott, Joe Brown

The University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

5:30 p.m.

6804

FECAL EXPOSURE PATHWAYS FOR CHILDREN IN LOW-INCOME, UNPLANNED COMMUNITIES OF URBAN MAPUTO, MOZAMBIQUE USING A QUANTITATIVE MICROBIAL RISK ASSESSMENT FRAMEWORK (QMRA)

Julia Silva Sobolik¹, Elly Mataveia², Mahira Amade², Cynthia Silva², Liliana Dengo-Baloi¹, Laura Braun¹, Oliver Cumming¹, Edna Viegas², Jackie Knee¹

¹LSHTM, London, United Kingdom, ²Centro de Investigação e Treino em Saúde da Polana Caniço (CISPOC), Maputo, Mozambique

5:45 p.m.

6805

UNDERSTANDING ANTIBIOTIC RESISTANCE, VIRULENCE, AND BIOFILM FORMATION IN *ACINETOBACTER BAUMANNII*: INSIGHTS FROM GORANCHATBARI SUB-CATCHMENT, DHAKA CITY

Mohammad Rafiqul Islam, Mohammad Atique Ul Alam, Md. Sakib Hossain, Amanta Rahman, Ashrin Haque, Md. Foysal Abedin, Md. Hajbiur Rahman, Md. Shafiqul Islam, Zahid Hayat Mahmud
icddr, Dhaka, Bangladesh

6 p.m.

6806

ENVIRONMENTAL EXPOSURES ASSOCIATED WITH ENTERIC PATHOGEN CARRIAGE IN CHILDREN AGED 6 MONTHS IN NORTHERN ECUADOR

Kelsey J. Jesser¹, Nicolette A. Zhou², Caitlin Hemlock¹, Molly K. Miller-Petrie¹, Christine S. Fagnant-Sperati¹, April Ballard³, Paige Witucki⁴, Andrea Sosa-Moreno⁴, Gabriel Trueba⁵, William Cevallos⁶, Gwentyth O. Lee⁷, Joseph N.S. Eisenberg⁴, Karen Levy¹
¹University of Washington, Seattle, WA, United States, ²University of Washington, SEATTLE, WA, United States, ³Georgia State University, Atlanta, GA, United States, ⁴University of Michigan, Ann Arbor, MI, United States, ⁵Universidad San Francisco de Quito, Quito, Ecuador, ⁶Universidad Central del Ecuador, Quito, Ecuador, ⁷Rutgers University, New Brunswick, NJ, United States

6:15 p.m.

6807

SOIL-BORNE EXPOSURE TO ANTIMICROBIAL RESISTANT *E. COLI* AND SOIL-TRANSMITTED HELMINTHS THROUGH SOIL FLOORS IN RURAL BANGLADESH

Ayşe Ercumen¹, Md. Sakib Hossain², Tahani Tabassum², Ashrin Haque², Amanta Rahman², Md. Hajbiur Rahman², Claire Anderson³, Sumaiya Tazin¹, Suhi Hanif², Md. Rana Miah², Afsana Yeamin², Farjana Jahan², Abul Kasham Shoaib², Zahid Hayat Mahmud², Mahbubur Rahman², Jade Benjamin-Chung³

¹North Carolina State University, Raleigh, NC, United States, ²icddr, Dhaka, Bangladesh, ³Stanford University, Stanford, CA, United States

6:30 p.m.

6808

ASSOCIATION OF WATER, SANITATION AND HYGIENE (WASH) AND ANIMAL OWNERSHIP TO RELAPSE TO ACUTE MALNUTRITION (AM) FOLLOWING RECOVERY FROM SEVERE ACUTE MALNUTRITION (SAM) AMONG CHILDREN 6-59 MONTHS IN MALI, SOUTH SUDAN AND SOMALIA: A PROSPECTIVE COHORT STUDY

Lauren Eleanor D'Mello-Guyett¹, Sarah King², Sherifath Mama Chabi³, Feysal A. Mohamud⁴, Nancy Lamaka⁵, John Agong⁵, Malyun Mohamed⁴, Karim Kone³, Karim Gallandat¹, Mesfin Gose³, Mohamed S. Omar⁴, Magloire Bunkembo³, Indi Trehan⁶, Anastasia Marshak⁷, Khamisa Ayoub⁸, Ahmed H. Olad⁹, Bagayogo Aliou¹⁰, Heather Stobaugh¹¹, Oliver Cumming¹

¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²Centers for Disease Control and Prevention, Atlanta, GA, United States, ³Action Against Hunger, Bamako, Mali, ⁴Action Against Hunger, Mogadishu, Somalia, ⁵Action Against Hunger, Juba, South Sudan, ⁶University of Washington, Seattle, WA, United States, ⁷Tufts University, Boston, MA, United States, ⁸Ministry of Health for the Republic of South Sudan, Juba, South Sudan, ⁹Federal Ministry of Health for the Federal Republic of Somalia, Mogadishu, Somalia, ¹⁰Ministry of Health and Social Development for the Republic of Mali, Bamako, Mali, ¹¹Action Against Hunger, Washington DC, DC, United States

6:45 p.m.

6809

COMMUNITY PERCEPTIONS OF OPEN DEFECATION AND SCHISTOSOMIASIS CONTROL: LESSONS LEARNED FROM A RAPID ETHNOGRAPHIC ASSESSMENT STUDY IN THREE ENDEMIC LAKESHORE COMMUNITIES IN MAYUGE, UGANDA

Lucy Pickering¹, Edith Nalwadda², Lazaaro Mujumbusi³, Agnes Ssali³, Janet Seeley³, Poppy H L Lamberton¹

¹University of Glasgow, Glasgow, United Kingdom, ²Independent Researcher, Entebbe, Uganda, ³MRC/UVRI & LSHTM Uganda Research Unit, Entebbe, Uganda

Symposium 49

American Committee on Clinical Tropical Medicine and Travelers' Health (Clinical Group - ACCTMTH) Symposium II: What's New with Vaccines for Tropical and Travel Medicine?

Convention Center - Room 352 (3rd Floor)

Thursday, November 14, 5:15 p.m. - 7 p.m.

In the last few years there have been exciting new developments in vaccines to prevent infectious diseases in people traveling to, working, or residing in areas endemic for diseases transmitted by insect or animal bites. This symposium explores the clinical use of vaccines that are in advanced clinical trials, that are recently approved, or that have new dosing recommendations. This symposium will specifically discuss vaccination for Chikungunya, Tick-Borne Encephalitis and Rabies. #Vaccinology #Prevention #InfectiousDisease

CHAIR

Kyle Petersen
Uniformed Services University, Bethesda, MD, United States

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

5:15 p.m.

INTRODUCTION

Kyle Petersen
Uniformed Services University, Bethesda, MD, United States

5:35 p.m.

CHIKUNGUNYA VACCINES: CURRENT STATUS AND CONSIDERATIONS FOR USE

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

6 p.m.

TOWARDS SHORTER RABIES PREP REGIMENS IN TRAVELERS

Patrick Soentjens
Institute of Tropical Medicine, Antwerp, Belgium

6:25 p.m.

TBE, AN UNDERESTIMATED RISK FOR TRAVELERS TO EUROPE? FROM EPIDEMIOLOGY TO VACCINATION PROGRAMS.

Ursula Widermann-Schmidt
Medical University of Vienna, Vienna, Austria

Scientific Session 50

American Committee of Molecular Cellular and Immunoparasitology (ACMCIP): Parasite - Host Microenvironments

Convention Center - Room 353 (3rd Floor)
Thursday, November 14, 5:15 p.m. - 7 p.m.

Supported with funding from the Burroughs Wellcome Fund

#HostResponse #Pathogenesis #InfectiousDisease
#CellBiology #Immunology

CHAIR

Selina Bopp
Harvard T.H. Chan School of Public Health, Boston, MA, United States

Joao Luiz Silva-Filho
Wellcome Centre for Integrative Parasitology, University of Glasgow, Glasgow, United Kingdom

5:15 p.m.

8435

ESTABLISHMENT OF A LABORATORY SYSTEM TO INTERROGATE TRYPANOSOMA CRUZI DEVELOPMENT WITHIN THE KISSING BUG VECTOR RHODNIUS PROLIQUS

Ruby Harrison¹, Kevin J. Vogel², Drew Etheridge¹
¹University of Georgia Center for Tropical and Emerging Global Diseases, Athens, GA, United States, ²University of Georgia Department of Entomology, Athens, GA, United States

5:30 p.m.

8436

CIRCADIAN RHYTHMS MEDIATE MALARIA TRANSMISSION POTENTIAL

Inês Bento¹, Brianna Parrington², Rushlenne Pascual², Alexander Goldberg², Eileen Wang³, Hani Liu², Mira Zelle², Joseph Takahashi⁴, Joshua Elias³, Maria Mota¹, Filipa Rijo-Ferreira⁵
¹Instituto de Medicina Molecular, João Lobo Antunes, Faculdade de Medicina Universidade de Lisboa, Lisbon, Portugal, ²Berkeley Public Health, Molecular and Cell Biology Department, University of California, Berkeley, Berkeley, CA, United States, ³Chan Zuckerberg Biohub - San Francisco, San Francisco, CA, United States, ⁴Department of Neuroscience, Peter O'Donnell Jr. Brain Institute, University of Texas Southwestern Medical Center, Howard Hughes Medical Institute, Dallas, TX, United States, ⁵Berkeley Public Health, Molecular and Cell Biology Department, University of California, Berkeley, Chan Zuckerberg Biohub - San Francisco, Berkeley, CA, United States

5:45 p.m.

6810

HOST GASTRIC CORPUS MICROENVIRONMENT FACILITATES ASCARIS SUUM LARVAL HATCHING AND INFECTION IN A MURINE MODEL

Yifan Wu¹, Grace Adeniyi-Ipadeola¹, Mahliyah Adkins-Threats¹, Matthew Seasock¹, Charlie Suarez-Reyes¹, Ricardo Fujiwara², Maria E. Bottazzi¹, Lizhen Song¹, Jason C. Mills¹, Jill E. Weatherhead¹
¹Baylor College of Medicine, Houston, TX, United States, ²Universidade Federal de Minas Gerais, Belo Horizonte, Brazil

(ACMCIP Abstract)

6 p.m.

6811

COMPREHENSIVE SINGLE CELL RNA SEQUENCING UNVEILS THE TRANSCRIPTIONAL DYNAMICS OF PLASMODIUM VIVAX HYPNOZOITE FORMATION

Gigliola Zanghi¹, Lindsay V. Clark¹, Nastaran Rezakhani¹, Wanlapa Roobsoong², Jetsumon Sattabongkot³, Sumana Chakravarty⁴, Stephen L. Hoffman⁴, B. Kim Lee Sim⁴, Stefan H.I. Kappe¹, Ashley M. Vaughan¹
¹Seattle Children's, Seattle, WA, United States, ²Mahidol Vivax Research Unit, Faculty of Tropical Medicine, Bangkok, Thailand, ³Mahidol Vivax Research Unit, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand, ⁴Sanaria Inc., Rockville, MD, United States

(ACMCIP Abstract)

6:15 p.m.

6812

P. VIVAX-INDUCED BM ALTERATIONS PERSIST LONG AFTER ACUTE PHASE OF INFECTION

Joao Luiz Silva-Filho¹, Jessica RS Alves², Anne CG Almeida³, Erich De Paula², Stefanie Lopes⁴, Kevin Couper⁵, Thomas Otto¹, Gisely Mello⁶, Wuelton Monteiro³, Marcus Lacerda³, Fabio TM Costa², Matthias Marti¹
¹University of Glasgow, Glasgow, United Kingdom, ²University of Campinas, Campinas, Brazil, ³Tropical Medicine Foundation Dr. Heitor Vieira Dourado, Manaus, Brazil, ⁴Fiocruz, Manaus, Brazil, ⁵University of Manchester, Manchester, United Kingdom, ⁶Tropical Medicine Foundation Dr. Heitor Vieira Dourado University of Glasgow, Manaus, Brazil

(ACMCIP Abstract)

6:30 p.m.

6813

A HUMAN PLURIPOTENT STEM CELL DERIVED MODEL OF THE NEUROVASCULAR UNIT COMPRISED OF BRAIN MICROVASCULAR ENDOTHELIAL CELLS, ASTROCYTES, AND NEURONS IN CEREBRAL MALARIA

Adnan Gopinadhan¹, Finley Andrew¹, Rylee Anderson², Alejandro Soto¹, Jason M. Hughes², Andrea L. Conroy¹, Chandly John¹, Scott G. Canfield², Dibyadyuti Datta¹
¹Indiana University, Indianapolis, IN, United States, ²Indiana University, Terre Haute, IN, United States

(ACMCIP Abstract)

6:45 p.m.

6814

DIETARY EFFECTS ON THE COURSE OF VISCERAL LEISHMANIASIS IN A MOUSE MODEL

Natalie Jarvis, Grace Gutzman, Yani Chen, Bayan Zhanbolat, Patrick Nuro-Gyina, Jacilara Conceicao, Mary Wilson
University of Iowa, Iowa City, IA, United States

(ACMCIP Abstract)

Symposium 51**American Committee on Arthropod-Borne and Zoonotic Viruses (ACAV) Symposium II: Annual Business Meeting***Convention Center - Room 354/355 (3rd Floor)***Thursday, November 14, 5:15 p.m. - 7 p.m.**

ACAV provides a forum for exchanging information among people interested in arbovirus research and research in diseases caused by high consequence viral pathogens. This session will include the ACAV business meeting, award presentations, research presentations by ACAV award recipients, and outbreak reports. These presenters will describe their research on arbovirology and emerging viral diseases. #EmergingDiseaseThreats #Prevention #Vaccinology #InfectiousDisease #Trainee

CHAIR

Mauricio Nogueira
Faculdade de Medicina de Sao Jose do Rio Preto, Sao Jose do Rio Preto, Brazil

Shannan Rossi
University of Texas Medical Branch, Galveston, TX, United States

5:15 p.m.

INTRODUCTION

5:25 p.m.

ACAV AWARDS AND BUSINESS MEETING

Mauricio Nogueira
Faculdade de Medicina de Sao Jose do Rio Preto, Sao Jose do Rio Preto, Brazil

5:45 p.m.

CHIKUNGUNYA VIRUS OUTBREAK REPORT

William Marciel de Souza
University of Texas Medical Branch, Galveston, TX, United States

6 p.m.

CREID/CREATE-NEO OUTBREAK REPORT

Shannan Rossi
University of Texas Medical Branch, Galveston, TX, United States

6:15 p.m.

SCHERER/HARDY AWARD PRESENTATION

Mauricio Nogueira
Faculdade de Medicina de Sao Jose do Rio Preto, Sao Jose do Rio Preto, Brazil

6:30 p.m.

NETWORKING RECEPTION**Symposium 52****Setting the Research Agenda for Integrating One Health and Hygiene: A Delphi Method Synthesis of Expert Opinion***Convention Center - Room 356 (3rd Floor)***Thursday, November 14, 5:15 p.m. - 7 p.m.**

The UNEP One Health Joint Plan of Action underscores that the lack of One Health and Water, Sanitation and Hygiene (WASH) integration contributes to health problems for people, animals and their shared environment. Developing a roadmap for effective integration of hygiene and One Health necessitates consultations with experts from across these domains to identify gaps and priorities for research and practice. The objective of this symposium is to develop a research agenda for integrating One Health and hygiene by building on two previous events at WASH-focused conferences in 2023 (UNC Water & Health, Global Hygiene Summit), where WASH researchers, policymakers and funders were consulted to generate an initial list of gaps and priorities, stakeholders and thematic areas for effective integration. ASTMH provides an opportunity to continue this effort by 1) presenting preliminary findings to a broader interdisciplinary audience of experts in epidemiology, public health, animal health, One Health and WASH and 2) consulting with these experts to identify priorities within and across disciplines. The symposium will employ the Delphi method to harness the collective expertise of conference attendees, engaging participants in a collaborative process to identify and rank gaps and priorities for integrating One Health and hygiene and build a research agenda consensus. The symposium will be organized into three parts: 1. Introductory presentations : First, speakers will give an overview of the multiple domains of hygiene, their relevance to One Health and the rationale for their integration. This will be followed by a summary of findings from the UNC Water & Health and Global Hygiene Summit events, including WASH-experts' opinions on opportunities, challenges and key stakeholders for One Health and hygiene integration for five thematic areas: research gaps, research methodology, intervention development, evaluation of interventions and programs and translation of research to practice. 2. Live discussion and voting: For each thematic area, symposium participants will complete a questionnaire via QR code to rank items on the initial working list of key gaps, priorities and stakeholders derived from the 2023 events. Participants will respond to questions at the same time and voting results will be shown graphically in real-time with time allocated for reaction, discussion and debate after each set of results are presented. Participants will then be asked to vote in a second round to provide an opportunity for consensus building. 3. Summary and closing: The chairs will summarize voting results and main discussion points to highlight where consensus was/ was not reached. A final open-floor discussion of findings will follow. #Prevention #InfectiousDisease #Epidemiology

CHAIR

Max T. Eyre
London School of Tropical Medicine, London, United Kingdom

Elizabeth Thomas
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

5:15 p.m.
INTRODUCTION

5:25 p.m.
INTEGRATING HYGIENE INTO ONE HEALTH

Kelly Baker
University of Iowa College of Public Health, Iowa City, IA, United States

5:40 p.m.
RESEARCH AND LEARNING PRIORITIES FOR INTEGRATING HYGIENE AND ONE HEALTH: AN OVERVIEW OF PRELIMINARY FINDINGS

Fanta Gutema
University of Iowa College of Public Health, Iowa City, IA, United States

5:55 p.m.
LIVE DISCUSSION AND VOTING

Max T. Eyre
London School of Tropical Medicine, London, United Kingdom

6:10 p.m.
SUMMARY & CLOSING

Elizabeth Thomas
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

Symposium 53

End-to-End Development of a Lassa Fever Vaccine Program

Convention Center - Room 357 (3rd Floor)

Thursday, November 14, 5:15 p.m. - 7 p.m.

Lassa fever (LF) is a serious viral hemorrhagic disease endemic to West Africa caused by zoonotic Lassa virus (LASV), a member of the arenavirus family, transmitted from rodents to humans. Though seasonal in nature, LF cases are reported year-round in some countries, and endemicity is likely to strengthen in west, central, and eastern Africa in the future. Case fatality rates are as high as 15-20%, and there is currently no licensed vaccine against LF. Therefore, the development of an effective and safe vaccine against LF is a high priority. IAVI, a nonprofit vaccine development and global health organization with over 25 years of experience conducting research, capacity building, and community engagement, including in West Africa, has a portfolio of vesicular stomatitis virus (VSV)-based vaccine candidates targeting several emerging infectious diseases (EIDs) including LF caused by LASV. IAVI's VSV construct is based on the same technology utilized in Merck's licensed ERVEBO® vaccine against Ebola Zaire. Based on highly promising preclinical data, IAVI has fully engaged in end-to-end product development with VSV-LASV, initiating a Phase I study at sites in the US and Liberia in June 2023, with enrollment in a Phase IIa trial to begin in early 2024. IAVI's model for innovative partnerships, involving alignment with organizations that have similar missions to our own, sets a precedent for other vaccine developers in the EID space. This symposium is chaired by representatives from partners engaged in end-to-end LF vaccine development (Liberian government, Walter Reed Army Institute of Research, and IAVI) and featuring a diverse array of speakers to facilitate in-depth review and discussion of epidemiological, preclinical, and clinical considerations involved in

establishing IAVI's VSV-LASV program. Speaker presentations will include: (1) Results from an acute Lassa Fever study and evolving molecular virology of Lassa (HJF 032) (Redeemer's University, Nigeria), (2) Overview of Lassa epidemiology studies supporting trial development (CEPI-ENABLE), (3) Preclinical data supporting the VSV-LASV program (IAVI), (4) Results from IAVI C102 Phase 1 trial with VSV-LASV in US and Liberian cohorts (PREVAIL), and (5) Challenges in end-to-end vaccine development for Lassa fever (IAVI). This session will provide a robust overview of end-to-end product development for a critical LF vaccine and outline a partnership-based model that future vaccine developers may draw upon in establishing novel programs. #ClinicalResearch #EmergingDiseaseThreats #Epidemiology #InfectiousDisease #Vaccinology

CHAIR

Swati Gupta
IAVI, New York, NY, United States

Melanie McCauley
Henry Jackson Foundation, Bethesda, MD, United States

Bernice Dahn
University of Liberia, Monrovia, Liberia

5:15 p.m.
INTRODUCTION

5:30 p.m.
RESULTS FROM AN ACUTE LASSA FEVER STUDY AND EVOLVING MOLECULAR VIROLOGY OF LASSA (HJF 032)

Christian Happi
Redeemer's University, Ede, Osun State, Nigeria

5:45 p.m.
OVERVIEW OF LASSA EPIDEMIOLOGY STUDIES SUPPORTING TRIAL DEVELOPMENT

Henshaw Mandi
CEPI, Oslo, Norway

6 p.m.
PRECLINICAL DATA SUPPORTING THE VSV-LASV PROGRAM

Christopher Cooper
IAVI, New York City, NY, United States

6:15 p.m.
RESULTS FROM IAVI C102 PHASE 1 TRIAL WITH VSV-LASV IN US AND LIBERIAN COHORTS

Mark Kieh
Partnership for Research on Ebola Virus in Liberia (PREVAIL), Monrovia, Liberia

6:30 p.m.
CHALLENGES IN END-TO-END VACCINE DEVELOPMENT FOR LASSA FEVER

Johan Vekemans
IAVI, New York City, NY, United States

Scientific Session 54

Global Health: Research, Training, Policy and Decolonization

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

Thursday, November 14, 5:15 p.m. - 7 p.m.

THIS SESSION DOES NOT CARRY CME CREDIT.

#Trainee #EarlyCareer #MNCH #InfectiousDisease

CHAIR

Andres G. Lescano

Universidad Peruana Cayetano Heredia, Lima, Peru

Kassahun Alemu Gelaye

HeSET Maternal and Child Health Research Program, Addis Ababa, Ethiopia

5:15 p.m.

6815

PERSPECTIVES ON EQUITABLE PARTNERSHIPS IN GLOBAL HEALTH

Senait Kebede, Mischka Garel, Michael Chung, Rebecca Martin

Emory Global Health Institute, Emory University, Atlanta, GA, United States

5:30 p.m.

6816

INNOVATION FOR NEGLECTED DISEASES: TWO DECADES OF PROGRESS AND GAPS IN NEW DRUG APPROVALS

Paul G. Ashigbie¹, Rajiv Shah², Jonathan M. Spector¹, Thierry T. Diagona³

¹Global Health, Biomedical Research, Novartis, Cambridge, MA, United States, ²Global Health and Sustainability, Novartis, Basel, Switzerland, ³Global Health, Biomedical Research, Novartis, Emeryville, CA, United States

5:45 p.m.

6817

BUILDING CAPACITY FOR MATERNAL, NEWBORN & CHILD HEALTH RESEARCH IN LOW-INCOME COUNTRY SETTINGS: A RESEARCH FELLOWSHIP EXPERIENCE IN ETHIOPIA

Kassahun Alemu Gelaye¹, Lisanu Taddesse¹, Clara Pons-Duran², Clara Pons-Duran², Bezawit Mesfin Hunegnaw³, Robera Olana Fite¹, Abebe Belayneh Bekele¹, Frederick GB Goddard⁴, Assaye K. Nigusie⁵, Yifru Berhan⁶, Delayehu Bekele⁶, Theodoros Getachew⁷, Ebba Abate⁸, Grace J. Chan⁹

¹HeSET Maternal and Child Health Research Program, Addis Ababa, Ethiopia, ²Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, Massachusetts, USA, ³Harvard School of Public Health, MA, United States, ⁴Department of Pediatric and Child Health, Saint Paul's Hospital Millennium Medical College, Addis Ababa, Ethiopia, Addis Ababa, Ethiopia, ⁵Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, Massachusetts, USA, Addis Ababa, MA, United States, ⁶College of Medicine and Health Sciences, Bahir Dar University, Bahir Dar, Ethiopia, ⁷Department of Obstetrics and Gynecology, Saint Paul's Hospital Millennium Medical College, Addis Ababa, Ethiopia, Addis Ababa, Ethiopia, ⁸Health System and Reproductive Health Research Directorate, Ethiopian Public Health Institute, Addis Ababa, Ethiopia, Addis Ababa, Ethiopia, Addis Ababa, Ethiopia, ⁹Director General, Ethiopian Public Health Institute, Addis Ababa, Ethiopia, Addis Ababa, Ethiopia, ⁹Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, Massachusetts, USA, Boston, MA, United States

6 p.m.

6818

EAST AND SOUTHERN AFRICAN CONSORTIUM FOR OUTBREAK EPIDEMIOLOGY TRAINING (ENTRANT)

Emily Webb¹, Nega Assefa², John Changelucha³, Maryirene Ibeto¹, Joseph Jarvis¹, Achilles Kiwanuka⁴, Madisa Mine⁵, Julius Oyugi⁶, Kwame Shanaube⁷

¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²Haramaya University, Haramaya, Ethiopia, ³Mwanza Interventions Trials Unit, Mwanza, United Republic of Tanzania, ⁴MRC/UVRI and LSHTM Uganda Research Unit, Entebbe, Uganda, ⁵National Health Laboratories, Gaborone, Botswana, ⁶University of Nairobi, Nairobi, Kenya, ⁷Zambart, Lusaka, Zambia

6:15 p.m.

6819

WHO ANC POLICY AND SKILLED BIRTH ATTENDANCE IN SUB-SAHARAN AFRICA

Michael Bride¹, Bolanle Olapeju²

¹Johns Hopkins University Center for Communication Programs, Baltimore, MD, United States, ²Uniformed Services University of the Health Sciences, Bethesda, MD, United States

6:30 p.m.

6820

ENHANCING THE QUALITY OF COMMUNITY HEALTH SERVICES IN MADAGASCAR: A MIXED METHODS EVALUATION OF A CHV PEER SUPERVISION MODEL IN FOUR REGIONS

Kanto Jude Ramanamahefa¹, Samantha Herrera², Tsinjo Fehizoro Razafindratsinana¹, Anna Bowen³, Erica Berlin⁴, Andry Rabemanantsoa¹, Hery Suzanette Gnetsa⁵, Jose Clement Randrianarisoa⁶, Jayne Webster⁷, Jessie Hamon⁷, Cara Smith Gueye⁸

¹Population Services International, Antananarivo, Madagascar, ²U.S. President's Malaria Initiative Insights, Washington, DC, United States, ³U.S. President's Malaria Initiative, U.S. Centers for Disease Control and Prevention, Antananarivo, Madagascar, ⁴Population Services International, Washington, DC, United States, ⁵Community Health Service, Ministry of Public Health, Antananarivo, Madagascar, ⁶National Malaria Control Program, Antananarivo, Madagascar, ⁷London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁸University of California, San Francisco Malaria Elimination Initiative, San Francisco, CA, United States

6:45 p.m.

6821

AI IN GLOBAL HEALTH: CHALLENGES AND OPPORTUNITIES

Naomi Waithira¹, Mavuto Mukaka¹, Evelyne Kestelyn², Keitcheya Chotthanawatit¹, Anne Osterreider³, Trudie Lang³, Phaik Yeong Cheah¹

¹MORU Tropical Health Network, Bangkok, Thailand, ²Oxford Clinical Research Unit, Ho Chi Minh City, Vietnam, ³University of Oxford, Oxford, United Kingdom

Scientific Session 55

Global Health: Maternal, Newborn and Child Health

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

Thursday, November 14, 5:15 p.m. - 7 p.m.

#MNCH #Immunology #ChildHealth

CHAIR

Mamadou Otto Diallo

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

Sophia T. Tan

Stanford University, Palo Alto, CA, United States

5:15 p.m.

6822

CLINICODEMOGRAPHIC PROFILE AND SURVIVAL PROSPECTS OF WOMEN WITH PERIPARTUM CARDIOMYOPATHY IN TANZANIA: A PROSPECTIVE COHORT STUDY.

Pedro Kisali Pallangyo, Zabella Mkojera, Makrina Komba, Peter R. Kisenge
Jakaya Kikwete Cardiac Institute, Dar es Salaam, United Republic of Tanzania

5:30 p.m.

6823

BURDEN, DISTRIBUTION, TIMING AND CAUSES OF STILLBIRTH AND NEONATAL MORTALITIES IN A HEALTH AND DEMOGRAPHIC SURVEILLANCE SYSTEM (HDSS) IN KAREMO AND MANYATTA IN WESTERN KENYA, 2018-2023

George Aol Otieno¹, Richard O. Onyando¹, Godfrey M. Bigogo¹, Joyce Were¹, Beth A. Odhiambo¹, Stephen O. Munga¹, Beth T. Barr², Nehemia O. Abongo¹, Brian Genga¹, Jonathan A. Muir¹, Victor Akelo³, Aggrey Igunza¹, Thomas Misore¹

¹Kenya Medical Research Institute, Kisumu, Kenya, ²Nyanja Health Research Institute, Salima, Malawi, ³Liverpool School Of Tropical Medicine, Kisumu, Kenya

5:45 p.m.

6824

VACCINATION COVERAGE AND TIMELINESS AMONG INFANTS IN ETHIOPIA

Clara Pons-Duran¹, Bezawit Mesfin Hunegnaw², Chalachew Bekele², Kassahun Alemu¹, Raffi Pontes³, Fiseha Tadesse⁴, Melkamu Ayalew⁵, Abraham Alebie², Lisanu Tadesse¹, Delayehu Bekele², Sebastien Haneuse³, Grace J. Chan³

¹HaSET Maternal and Child Health Research Program, Addis Ababa, Ethiopia, ²St. Paul's Hospital Millennium Medical College, Addis Ababa, Ethiopia, ³Harvard T.H. Chan School of Public Health, Boston, MA, United States, ⁴Debre Birhan Hospital, Debre Birhan, Ethiopia, ⁵Federal Ministry of Health, Addis Ababa, Ethiopia

6 p.m.

6825

UNDERSTANDING IMPACT OF DOMESTIC VIOLENCE ON PERINATAL DEATH IN RURAL BANGLADESH; FINDINGS FROM CHILD HEALTH AND MORTALITY PREVENTION SURVEILLANCE, BANGLADESH

Mohammad Zahid Hossain¹, Afsana Afrin¹, Shahana Parveen¹, Daliya Yeasmin¹, Afruna Rahman¹, Shams El Arifeen¹, Emily Susan Gurley²

¹icddr, Dhaka, Bangladesh, ²John Hopkins University, Baltimore, MD, United States

6:15 p.m.

6826

MASS AZITHROMYCIN DISTRIBUTION AND CAUSE-SPECIFIC MORTALITY AMONG CHILDREN AGED 1-59 MONTHS IN BURKINA FASO

Ali Sie¹, Mamadou Ouattara¹, Mamadou Bountogo¹, Boubacar Coulibaly¹, Valentin Boudo¹, Thierry Ouedraogo¹, Elisabeth Gebreegziabher², Huiyu Hu², Elodie Lebas², Benjamin F. Arnold², Thomas M. Lietman², Catherine Oldenburg²

¹Centre de Recherche en Santé de Nouna, Nouna, Burkina Faso, ²University of California, San Francisco, San Francisco, CA, United States

6:30 p.m.

6827

CLUSTER VARIATION IN UNDER-FIVE MORTALITY IN A PROACTIVE CASE DETECTION INTERVENTION BY COMMUNITY HEALTH WORKERS IN MALI: ANALYSIS OF THE PROCCM TRIAL

Emily Treleaven¹, Amadou Beydi Cisse², Oumar Tolo², Noumoutie Sanogo², Kalo Dao², Djoume Diakite², Ari Johnson³, Kassoum Kayentao⁴

¹University of Michigan, Ann Arbor, MI, United States, ²Muso, Bamako, Mali, ³Muso, San Francisco, CA, United States, ⁴Malaria Research & Training Center, Bamako, Mali

6:45 p.m.

LIGHTNING TALKS

(Lightning Talks are two-minute talks to highlight abstracts assigned to poster presentations.)

7696

CORRELATES OF INTESTINAL FATTY ACID BINDING PROTEIN, A MARKER OF INTESTINAL INJURY, IN A COHORT OF KENYAN CHILDREN UNDER 5 BEING DISCHARGED FROM HOSPITALS FOR NON-TRAUMATIC CAUSES

Olivia N. McCollum¹, Kevin Kariuki², Elise Kang³, Morgan Litchford³, Doreen Rwiggi¹, Kirkby Tickell¹, Joyce Otieno², Benson Singa², Mame M. Diakhate¹, Dara Lehman³, Judd L. Walson¹, Jennifer A. Slyker¹, Patricia B. Pavlinac¹

¹University of Washington-Seattle, Seattle, WA, United States, ²Kenya Medical Research Institute (KEMRI), Nairobi, Kenya, ³Fred Hutch Cancer Center, Seattle, WA, United States

6904

ASSOCIATIONS BETWEEN IMMUNE STATUS AND CHILD DEVELOPMENT IN RURAL BANGLADESH

Sophia T. Tan¹, Andrew N. Mertens², Md. Ziaur Rahman³, Fahmida Tofail Tofail⁴, Helen O. Pitchik², Da Kyung Jung², Caitlin Hemlock⁵, Benjamin F. Arnold⁶, Lisa Hester⁷, Mohammed Rabiul Karim⁴, Sunny Shahriar⁴, Shahjahan Ali⁸, Abul K. Shoab⁴, Md. Saheen Hossen⁴, Palash Mutsuddi⁴, Syeda L. Famida⁴, Salma Akther⁴, Mahbubur Rahman⁴, Leanne Unicomb⁴, Patricia Kariger², Alan E. Hubbard², Christine P. Stewart⁹, John M. Colford Jr.², Stephen P. Luby¹, Firdaus S. Dhabhar¹⁰, Lia C. H. Fernald², Audrie Lin³

¹Division of Infectious Diseases and Geographic Medicine, Stanford University, Palo Alto, CA, United States, ²School of Public Health, University of California, Berkeley, Berkeley, CA, United States, ³Department of Microbiology and Environmental Toxicology, University of California, Santa Cruz, Santa Cruz, CA, United States, ⁴International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ⁵School of Public Health, University of Washington, Seattle, WA, United States, ⁶Francis I. Proctor Foundation, University of California, San Francisco, San Francisco, CA, United States, ⁷Department of Medicine, University of Maryland, Baltimore, MD, United States, ⁸Colorado School of Public Health, University of Colorado, Denver, CO, United States, ⁹Institute for Global Nutrition, University of California, Davis, Davis, CA, United States, ¹⁰University of Miami, Miami, FL, United States

6946

IMPACTS OF BAD OBSTETRIC HISTORY ON ANTENATAL CARE UPTAKE IN SUBSEQUENT PREGNANCIES: INSIGHTS FROM CHAMPS BANGLADESH

Maria Rahman Mim¹, Rajib Biswas¹, Shovo Debnath¹, Taukir Tanjim¹, Emily S. Gurley², Kazi Munisul Islam¹, Qazi Sadeq-ur Rahman¹, Md. Abdus Salam¹, Md. Atique Iqbal Chowdhury¹, Sanwarul Bari¹, Shams El Arifeen¹, Mohammad Zahid Hossain¹

¹International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ²John Hopkins University, Baltimore, MD, United States

6902

REASONS FOR NON-PARTICIPATION IN AZITHROMYCIN MASS DRUG ADMINISTRATION TO REDUCE MORTALITY AMONG CHILDREN 1-11 MONTHS OLD IN NIGER: A CROSS-SECTIONAL COVERAGE EVALUATION SURVEY

Carolyn Brandt¹, Ahmed M. Arzika², Ramatou Maliki², Alio Karamba², Nasser Galo², Naser Harouna², Diallo Beidi², Elodie Lebas¹, Brittany Peterson¹, Benjamin F. Arnold¹, Thomas M. Lietman¹, Kieran S. O'Brien¹

¹Francis I. Proctor Foundation, University of California, San Francisco, San Francisco, CA, United States, ²Centre de Recherche et Interventions en Santé Publique, Bimi N'Gaoure, Niger

6937

A SURVIVOR CASE OF NEONATAL TETANUS: CASE DESCRIPTION AND SURVEILLANCE SYSTEM EVALUATION IN THE URBAN HEALTH DISTRICT OF EBOLOWA, CAMEROON, MARCH 2023

Ngotty Essebe Ruth-Aimée¹, Signe Benjamin², Atouba Benjamin³, Anya Priscilla⁴, Mendjime Patricia⁵

¹Cameroon Field Epidemiology Training Program, Ministry of Public Health, Regional Delegation for the West, Bafoussam, Cameroon, ²Ministry of Public Health, Regional Delegation for the South, Ebolowa, Cameroon, ³Ministry of Public Health, Regional Delegation for the South, Ebolowa, Cameroon, ⁴Department for the Control of Disease Epidemics and Pandemics; Cameroon Field Epidemiology Training Program, Yaounde, Cameroon, ⁵Department for the Control of Disease Epidemics and Pandemics; Cameroon Field Epidemiology Training Program, Yaounde, Cameroon

Scientific Session 56

Malaria: Drug Development and Clinical Trials

Convention Center - Room 391/392 (3rd Floor)

Thursday, November 14, 5:15 p.m. - 7 p.m.

This session does not carry CME credit.

#Therapeutics #Resistance #Prevention
#TranslationalScience #Elimination

CHAIR

Bridget Barber

QIMR Berghofer Medical Research Institute, Brisbane, Australia

David Saunders

US Army, Rockville, MD, United States

5:15 p.m.

6828

COMBINATION OF A REDUCTASE INHIBITOR WITH PRIMAQUINE PREVENTS HEMOLYSIS OF G6PD DEFICIENT RBCS

Ariel M. Hay¹, Paul Buehler², Joseph Kao², Derek R. Lamb², Robert Commons³, Eric A. Legendzov², Mitasha S. Palha², James C. Zimring¹

¹University of Virginia, Charlottesville, VA, United States, ²University of Maryland, Baltimore, MD, United States, ³Menzies School of Health Research, Darwin, Australia

5:30 p.m.

6829

RUXOLITINIB AS AN ADJUNCTIVE TREATMENT TO REDUCE INFLAMMATORY RESPONSES IN MALARIA: A RANDOMIZED PLACEBO CONTROLLED TRIAL IN VOLUNTEERS EXPERIMENTALLY INFECTED WITH *P. FALCIPARUM*

Bridget E. Barber¹, Rebecca Webster¹, Nischal Sahai², Indika Leelasena², Eniko Ujvary², Sue Mathison², Luzia Bukali¹, Damian Oyong³, Fabian de Labastida Rivera¹, Jessica Engel¹, Dean W. Andrew¹, Megan S. Soon¹, Nicholas L. Dooley³, Jessica R. Loughland¹, Jeremy Gower¹, Jenny Peters¹, Ria Woo¹, Adam Potter¹, Stacey Llewellyn¹, Fiona Amante¹, Teija Frame¹, Julianne Hamelink¹, Mayimuna Nalubega¹, Reena Mukhiya³, James S. McCarthy⁴, Christian Engwerda¹, Michelle J. Boyle³

¹QIMR Berghofer Medical Research Institute, Brisbane, Australia, ²University of Sunshine Coast, Brisbane, Australia, ³Burnet Institute, Brisbane, Australia, ⁴University of Melbourne, Melbourne, Australia

5:45 p.m.

6830

IMPROVING ANTIMALARIAL DRUG EFFICACY ASSESSMENT: COMPARATIVE ANALYSIS OF LENGTH POLYMORPHIC MARKERS AND CLASSIFICATION ALGORITHMS IN TWO PHASE II CLINICAL TRIALS

Daniela Montero Salas¹, Monica Golumbeanu¹, Sara L. Cantoreggi¹, Celine Risterucci², Cornelis Winnips², Christian Nsanzabana¹

¹Swiss Tropical and Public Health Institute, Allschwil, Switzerland, ²Novartis Pharma, Basel, Switzerland

6 p.m.

6831

FUNGAL DERIVED DEOXAPHOMINES TARGET *PLASMODIUM FALCIPARUM* SEGREGATION THROUGH INHIBITION OF PFACTIN1

Sarah Jiang¹, Jin Woo Lee², Jennifer Collins³, Samuel Schaefer¹, Daisy Chen¹, Flore Nardella³, Karen Wendt⁴, Thilini Peramuna⁴, Raphaella Paes³, Greg Durst⁵, Kirsten Hanson⁶, Debopam Chakrabarti³, Robert Cichewicz⁴, Elizabeth Winzeler¹

¹UCSD, San Diego, CA, United States, ²Duksung Women's University, Seoul, Republic of Korea, ³University of Central Florida, Orlando, FL, United States, ⁴University of Oklahoma, Norman, OK, United States, ⁵Lgenia Inc, Fortville, IN, United States, ⁶University of Texas at San Antonio, San Antonio, TX, United States

6:15 p.m.

6832

PLASMODIUM FALCIPARUM FIELD ISOLATES TO GUIDE CLINICALLY RELEVANT DOSE RATIOS FOR CABAMIQUINE: PYRONARIDINE COMBINATION USING TRANSLATIONAL MODELING

Mohamed MAIGA¹, Sebastian G. Wicha², Perrine Courlet³, Abdoulaye Djimé¹, Thomas Spangenberg⁴, Laurent Dembélé¹, Claudia Demarta-Gatsi⁴

¹Université des Sciences des Techniques et des Technologies de Bamako (USTTB), Bamako, Mali, ²Universität Hamburg, Hamburg, Germany, ³Merck Institute for Pharmacometrics, Ares Trading S.A., Lausanne, Switzerland, an affiliate of Merck KGaA, Darmstadt, Germany, ⁴Global Health Institute of Merck, Ares Trading SA, Eysins, Switzerland, an affiliate of Merck KGaA, Darmstadt, Germany

6:30 p.m.

6833

DIHYDROARTEMISININ-PIPERAQUINE PLUS SULFADOXINE-PYRIMETHAMINE FOR INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANT WOMEN: A DOUBLE-BLINDED RANDOMIZED CONTROLLED TRIAL

Abel Kakuru¹, Jimmy Kizza¹, Miriam Aguti¹, Harriet Adrama¹, John Ategeka¹, Peter Olwoch¹, Miriam Nakalembe², Joaniter Nankabirwa¹, Bishop Opira¹, Timothy Ssemukuye¹, Nida Ozarslan³, Anju Ranjit³, Erin Dela Cruz³, Stephanie Gaw³, Tamara D. Clark², Michelle E. Roh³, Prasanna Jagannathan⁴, Philip J. Rosenthal⁵, Moses R. Kanya², Grant Dorsey³

¹Infectious Diseases Research Collaboration, Kampala, Uganda, ²Makerere University College of Health Sciences, Kampala, Uganda, ³University of California, San Francisco, San Francisco, CA, United States, ⁴Stanford University, San Francisco, CA, United States

6:45 p.m.

6834

EFFECT OF INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANCY ON VAGINAL MICROBIOTA, HOST IMMUNE RESPONSE AND PREGNANCY OUTCOMES: A CASE-CONTROL STUDY FROM THE ASPIRE TRIAL IN ZAMBIA

Tanweer Beleil¹, Marwah Bagabas¹, Patricia Hunter², Sherrienne Ng¹, Jemima Hair², Gonçalo Correia¹, Yun S. Lee¹, Enesia B. Chaponda³, Ephraim Chikwanda⁴, Mike Chaponda⁴, Nigel Klein², Lynne Sykes¹, Jane Bruce⁵, Ludovica Ghilardi⁶, Philippe Mayaud⁵, Daniel Chandramohan⁵, Phillip R. Bennett¹, R Matthew Chico⁵, David A. MacIntyre¹

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Symposium 57

Building Out Malaria: Housing Modification for Malaria Prevention

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

Thursday, November 14, 5:15 p.m. - 7 p.m.

Scale-up of proven, WHO-recommended malaria control interventions has not been sufficient to control malaria in Uganda and other countries, emphasizing the need to explore innovative approaches. Housing modification, a promising strategy and once a key pillar of malaria control, remains underutilized in most endemic areas, including sub-Saharan Africa where up to 80% of malaria transmission occurs indoors at night. Simple changes to prevent house entry by mosquitoes can reduce malaria, making housing modification an innovative and promising strategy to address the need for long-term, sustainable interventions. Evidence that housing structural design can provide protection from malaria is limited but encouraging. To explore housing modification as a malaria control intervention, a recent cluster-

randomized trial evaluated two innovative housing modifications developed through community-driven design: house screening and Eave Tubes. Both are new, long term, sustainable interventions; Eave Tubes are also an innovative insecticide resistance mitigation tool. The symposium will provide an overview of housing characteristics in Uganda and house-related behaviors associated with risk of malaria from several studies. New evidence from the Housing Modification trial in Uganda will focus on epidemiological and entomological effectiveness, and acceptability of housing modification. Feasibility and cost-effectiveness presentations will elucidate housing modification cost drivers, willingness to pay, equity, and potential scale up pathways through public and private market venues, as well as policy considerations. The symposium will conclude with a panel discussion on the challenges and promise of housing modification, discussing approaches to multisectoral engagement for scale up and adaptation with a long-term view on malaria control. #ClinicalResearch #Epidemiology #Prevention

CHAIR

Samuel Gonahasa
Infectious Diseases Research Collaboration (IDRC), Kampala, Uganda

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

5:15 p.m. INTRODUCTION

5:25 p.m. HOUSING CHARACTERISTICS AND THEIR ASSOCIATION WITH RISK OF MALARIA IN UGANDA

Joaniter Nankabirwa
Makarere University Kampala, Kampala, Uganda

5:45 p.m. IMPACT OF HOUSING MODIFICATION ON MALARIA BURDEN AND ENTOMOLOGICAL OUTCOMES: MAIN RESULTS OF THE CLUSTER RANDOMIZED TRIAL IN UGANDA

Nelli Westercamp
Centers for Diseases Control and Prevention, Atlanta, GA, United States

6:05 p.m. FEASIBILITY AND COSTING OF IMPLEMENTING HOUSING MODIFICATION FOR MALARIA CONTROL

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

6:25 p.m. HOUSING CONTEXT, POLICY AND SCALE UP CONSIDERATIONS FOR HOUSING MODIFICATION AS MALARIA PREVENTION METHOD: FROM GRASSROOT UPTAKE TO FUNDER-DRIVEN IMPLEMENTATION

Samuel Gonahasa
Infectious Diseases Research Collaboration, Kampala, Uganda

Scientific Session 58

Cestodes

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

Thursday, November 14, 5:15 p.m. - 7 p.m.

**#ClinicalResearch #Epidemiology #Diagnostics
#InfectiousDisease**

CHAIR

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

Elise M. O'Connell
NIH, Bethesda, MD, United States

5:15 p.m.

6835

SEROPREVALENCE OF *TAENIA SOLIUM* ANTIBODIES AND ASSOCIATED RISK FACTORS AMONG CHILDREN 0-14 YEARS IN NIGERIA

Jennifer Akambo¹, Samuel A. Oyebanjo², Mary L. Kamb¹, Andrew Hill¹, Nishanth Parameswaran¹, Nnaemeka C. Iriemenam³, Gretchen Cooley¹, Nwachukwu E. William⁴, Nwando Mba⁴, McPaul I. J. Okoye³, Jeffrey W. Priest⁵, Diana L. Martin¹, Paul Cantey¹, Chikwe Ihekweazu⁴

¹Division of Parasitic Diseases and Malaria, U.S. Centers for Disease Control and Malaria, Atlanta, GA, United States, ²Institute of Human Virology, Abuja, FCT, Nigeria, ³Division of Global HIV & TB, U.S. Centers for Disease Control and Prevention, Abuja, FCT, Nigeria, ⁴Nigeria Centre for Disease Control and Prevention, Abuja, FCT, Nigeria, ⁵Division of Foodborne, Waterborne and Environmental Diseases, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States

(ACMCIP Abstract)

5:30 p.m.

6836

PULMONARY CYSTIC ECHINOCOCCOSIS TREATMENT OUTCOMES AMONG 280 PATIENTS AT TWO TERTIARY CARE CENTERS IN CUSCO, PERU

Roberto Pineda-Reyes¹, Maria L. Morales², Karen Mozo², Maria A. Caravedo³, Angel Gamarra⁴, Ramiro Hermoza⁴, Rocio Cuaresma⁴, Miguel M. Cabada³

¹Swiss Tropical and Public Health Institute, Allschwil, Switzerland, ²Cusco Branch - Alexander von Humboldt Tropical Medicine Institute/Universidad Peruana Cayetano Heredia, Cusco, Peru, ³Infectious Disease Division, University of Texas Medical Branch, Galveston, TX, United States, ⁴Department of Surgery, Hospital Regional del Cusco, Cusco, Peru

(ACMCIP Abstract)

5:45 p.m.

6837

TAENIA SOLIUM FATTY ACID BINDING PROTEIN 1 INDUCES SUPPRESSES TLR4 SIGNALING AND DOWNREGULATE IRE-1A IN A PPAR-G DEPENDENT MANNER

Amit Prasad, Suraj S. Rawat
Indian Institute of Technology Mandi, mandi, India

(ACMCIP Abstract)

6 p.m.

6838

HIGH PREVALENCE AND HOUSEHOLD CLUSTERING OF LIVER CYSTIC ECHINOCOCCOSIS IN A RURAL COMMUNITY IN THE CENTRAL ANDES OF PERU: A POPULATION - BASED SURVEY

Saul J. Santivanez¹, Percy Soto-Becerra¹, Raul Enriquez¹, Luis Tello¹, Oswaldo G.E. Espinoza-Hurtado¹, Andreas Neumayr², Hector H. Garcia³

¹Universidad Continental, Huancayo, Peru, ²Swiss Tropical and Public Health Institute, Basel, Switzerland, ³Center for Global Health, Universidad Peruana Cayetano Heredia, Lima, Peru

(ACMCIP Abstract)

6:15 p.m.

6839

DIAGNOSTIC PERFORMANCE OF A MULTIANTIGEN PRINT IMMUNOASSAY (MAPIA) FOR ANTIBODY DETECTION IN HUMAN NEUROCYSTICERCOSIS

Luz M. Toribio Salazar¹, Carolina Guzman¹, Herbert Saavedra², Isidro Gonzales¹, Javier A. Bustos¹, Sukwan Handali³, Hector Garcia¹

¹UNIVERSIDAD PERUANA CAYETANO HEREDIA, Lima, Peru, ²Instituto Nacional de Ciencias Neurologicas, Lima, Peru, ³Division of Parasitic Diseases, Coordinating Center for Infectious Diseases, Centers for Disease Control and Prevention USA, Atlanta, GA, United States

(ACMCIP Abstract)

6:30 p.m.

6840

COMPARISON OF THE ANTIBODY DYNAMICS IN TWO MODELS OF EXPERIMENTAL PIG CYSTICERCOSIS USING A MULTIPLEX BEAD ASSAY (MBA)

Luz M. Toribio Salazar¹, Sukwan Handali², Gianfranco Arroyo¹, Javier A. Bustos¹, Hector Garcia¹

¹UNIVERSIDAD PERUANA CAYETANO HEREDIA, Lima, Peru, ²Centers for Disease Control and Prevention, Atlanta, GA, Atlanta, GA, United States

(ACMCIP Abstract)

6:45 p.m.

6841

CHARACTERIZATION OF THE ACUTE NEUROINFLAMMATORY RESPONSE INDUCED BY ANTIPARASITIC TREATMENT IN THE CAROTID PORCINE MODEL OF NEUROCYSTICERCOSIS

Gianfranco Arroyo¹, Lizzie Tello-Ccente¹, Rosa Diaz-Gongora¹, Yessenia Salas¹, Miguel A. Orrego-Solano¹, Javier A. Bustos¹, Manuela R Verastegui¹, Robert H Gilman², Hector H. Garcia¹

¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²Johns Hopkins University, Baltimore, MD, United States

(ACMCIP Abstract)

Special Session 59

Ponder to Probe: A Climate-Health Networking Event

Convention Center - Room 398 (3rd Floor)

Thursday, November 14, 5:15 p.m. - 7 p.m.

The ASTMH Committee on Global Health (ACGH) invites you to join us for an informal discussion on how climate change affects global health. Chat with experts who are working in the field and ask them how climate change affects their work, what we can do to better incorporate climate change into our work, and what we can do to help mitigate the problem.

CHAIR

James Colborn

Clinton Health Access Initiative, Inc., Evergreen, CO, United States

Break

Thursday, November 14, 7 p.m. - 7:30 p.m.

Special Session 60

Clinical Pub Trivia Night

Hilton - Churchill A1 (2nd Floor)

Thursday, November 14, 7:30 p.m. – 9:15 p.m.

Come join us for a fun-filled collegial competition, sponsored by the ASTMH Clinical Group. This is a chance to meet others interested in clinical tropical medicine, show your knowledge, learn some new fun facts, and enjoy free snacks. Don't worry if you are new to trop med. Teams will be a mix of people with different levels of experience, and you won't be asked to answer any question alone. The winning team takes home prizes and bragging rights.

CHAIR

Jill Weatherhead

Baylor College of Medicine, Houston, TX, United States.

Sponsored Symposium

The Rising Tide: Dengue Fever and Climate Change

Sponsored by Abbott

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

Thursday, November 14, 7:30 p.m. – 9:15 p.m.

See page 51 for information.

Sponsored Symposium

One Health: From Plagues and Pestilence to Pesticides, Pharmaceuticals and Public Health

Sponsored by Bayer U.S. Crop Science

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

Thursday, November 14, 7:30 p.m. – 9:15 p.m.

See page 51 for information.