Saturday, October 21

Registration

Grand Ballroom Foyer - Ballroom Level (East Tower)
Saturday, October 21, 7 a.m. - 5 p.m. U.S. Central Time Zone

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

Grand Suite 2AB - Ballroom Level (East Tower)
Saturday, October 21, 7 a.m. - 5 p.m. U.S. Central Time Zone

TropStop -Student/Trainee Lounge

Grand Hall MN – Ballroom Level (East Tower)
Saturday, October 21, 7 a.m. - 5 p.m. U.S. Central Time Zone

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

Meeting Sign-Up Room

Horner and Ogden - Third Floor (West Tower)
Saturday, October 21, 7 a.m. - 7 p.m. U.S. Central Time Zone

Prayer Room

Hong Kong - Ballroom Level (West Tower) and Field - Third Floor (West Tower)
Saturday, October 21, 7 a.m. - 7 p.m. U.S. Central Time Zone

Nursing Mothers Room

Grand Suite 1 and Grand Suite 4 - Ballroom Level (East Tower)
Saturday, October 21, 7 a.m. - 7 p.m. U.S. Central Time Zone

ASTMH Past Presidents Meeting

Michigan 3 -Concourse Level (East Tower)
Saturday, October 21, 7 a.m. - 8 a.m. U.S. Central Time Zone

Diploma Course Certification Committee Meeting

Gallery 3 Boardroom - Skyway Level (West Tower)
Saturday, October 21, 7 a.m. - 8 a.m. U.S. Central Time Zone

Scientific Program Committee Meeting

Michigan 1A/B/C - Concourse Level (East Tower)
Saturday, October 21, 7 a.m. - 8 a.m. U.S. Central Time Zone

Press Room

Randolph 1A - Concourse Level (East Tower)
Saturday, October 21, 7:45 a.m. - 5 p.m. U.S. Central Time Zone

Scientific Session 102

Global Health: Maternal, Newborn and Child Health

Grand Ballroom A - Ballroom Level (East Tower)
Saturday, October 21, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR
Catherine Oldenburg
University of California, San Francisco, San Francisco, CA, United States

Quique Bassat
ISGlobal, Barcelona, Spain

8 a.m. 6466

CAUSES OF DEATH AMONG INFANTS AND CHILDREN ENROLLED THROUGH THE CHILD HEALTH AND MORTALITY PREVENTION SURVEILLANCE (CHAMPS) NETWORK

Quique Bassat[1], Dianna M. Blau[2], Ikechukwu U. Ogbuanu[3], Solomon Samura[4], Erick Kaluma[3], Ima-Abasi Bassey[3], Samba Sow[5], Adama Mamby Keita[5], Milagritos Tapia[6], Ashka Mehta[6], Karen Kotloff[6], Afruna Rahman[7], Kazi Munisul Islam[7], Muntasir Alam[7], Shams El Arifeen[7], Emily Gurley[8], Vicky Baillie[9], Portia Mutevedzi[9], Sana Mahtab[9], Bukiwe Nana Thwala[9], Beth A. Tippett Barr[10], Dickens Onyango[11], Victor Akelo[12], Emily Rogena[13], Peter Onyango[14], Richard Omore[15], Inacio Mandomando[16], Sara Ajanovic[1], Rosauro Varo[1], Antonio M. Sitoe[16], Miquel Duran-Frigola[17], Nega Assefa[18], J. Anthony G. Scott[19], Lola Madrid[19], Tseyon Tesfaye[18], Yadeta Dessie[18], Zachary Madewell[2], Robert F. Breiman[20], Cynthia G. Whitney[20], Shabir Madhi[9]
[1]*ISGlobal, Barcelona, Spain,* [2]*Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States,* [3]*Crown Agents in Sierra Leone, Freetown, Sierra Leone,* [4]*World Hope International, Makeni, Sierra Leone,* [5]*Centre pour le Développement des Vaccins (CVD-Mali), Ministère de la Santé, Bamako, Mali,* [6]*Department of Pediatrics, Center for Vaccine Development and Global Health, University of Maryland School of Medicine, Baltimore, MD, United States,* [7]*International Center for Diarrhoeal Diseases Research (icddr,b), Dhaka, Bangladesh,* [8]*Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States,* [9]*African Leadership in Vaccinology Expertise; Faculty of Health Sciences, University of the Witwatersrand, Johannesburg, South Africa,* [10]*Nyanja Health Research Institute, Salima, Malawi,* [11]*Kisumu County Department of Health, Kisumu, Kenya,* [12]*US Centers for Disease Control and Prevention--Kenya, Kisumu, Kenya,* [13]*Jomo Kenyatta University of Agriculture And Technology, Juja, Kenya,* [14]*Kenya Medical Research Institute, Center for Global Health Research (KEMRI-CGHR), Kisumu, Kenya,* [15]*Kenya Medical Research Institute, Centre for Global Health Research, Kisumu, Kenya,* [16]*Centro de Investigaçao em Saude de Manhiça, Manhiça, Mozambique,* [17]*Ersilia Open Source Initiative, Cambridge, United Kingdom,* [18]*College of Health and Medical Sciences, Haramaya University, Harar, Ethiopia,* [19]*Department of Infectious Disease Epidemiology, London School of Hygiene & Tropical Medicine,, London, United Kingdom,* [20]*Emory Global Health Institute, Emory University, Atlanta, GA, United States*

8:15 a.m. 6467

INFANT MORTALITY AND GROWTH FAILURE AFTER ORAL AZITHROMYCIN AMONG LOW BIRTHWEIGHT AND UNDERWEIGHT NEONATES

Ali Sie[1], Mamadou Bountogo[1], Alphonse Zakane[1], Guillaume Compaore[1], Thierry Ouedraogo[1], Elodie Lebas[2], Benjamin F. Arnold[2], Thomas M. Lietman[2], **Catherine Oldenburg**[2]
[1]*Centre de Recherche en Sante de Nouna, Nouna, Burkina Faso,* [2]*University of California, San Francisco, San Francisco, CA, United States*

8:30 a.m. 6468

EFFECT OF A SINGLE DOSE OF PROPHYLACTIC AZITHROMYCIN TO INFANTS ON FECAL CARRIAGE OF ENTEROPATHOGENS IN PAKISTANI INFANTS

Aneela Pasha[1], Ameer Muhammad[2], Furqan Kabir[1], Waqasuddin Khan[1], Yasir Shafiq[1], Imran Nisar[1], Iqbal Azam[1], Najeeha Iqbal[1], **Fyezah Jehan**[1]
[1]*Aga Khan University, Karachi, Pakistan,* [2]*Vital Pakistan Trust, Karachi, Pakistan*

8:45 a.m. 6469

EVALUATING THE ACCURACY OF INTERVA-5 AND INSILICOVA ALGORITHMS IN DETERMINING THE LEADING CAUSES OF MORTALITY IN INFANTS AND CHILDREN UNDER-5 IN WESTERN KENYA

Joyce Akinyi Were[1], Victor Akelo[2], David Obor[1], Sammy Khagayi[1], Benard Asuke[1], Aggrey Igunza[1], Cynthia Whitney[3], Dianna Blau[4], Beth Barr[5]
[1]Kenya Medical Research Institute, Kisumu, Kenya, [2]US Centers for Disease Control and Prevention, Kisumu, Kenya, [3]Emory Global Health Institute, Emory University, Atlanta, GA, United States, [4]US Centers for Disease Control and Prevention, Atlanta, GA, United States, [5]Nyanja Health Research Institute, Salima, Malawi

9 a.m. 6470

IDENTIFYING RISK FACTORS FOR MATERNAL NEAR MISS (MNM) AMONG RURAL PREGNANT WOMEN ADMITTED TO A TERTIARY PUBLIC HOSPITAL IN BANGLADESH: A CASE-CONTROL STUDY

Rajib Biswas[1], Emily S. Gurley[2], Kazi Munisul Islam[1], Mohammad Sabbir Ahmed[1], Shovo Debnath[1], Hafsa Hossain[1], Salma Afroz Shifa[1], Dilruba Zeba[3], Qazi Sadeq-ur Rahman[1], Sanwarul Bari[1], Shams El Arifeen[1], Mohammad Zahid Hossain[1]
[1]International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, [2]Johns Hopkins University, Baltimore, MD, United States, [3]Bangabandhu Sheikh Mujib Medical College, Faridpur, Bangladesh

9:15 a.m. 6471

ANTENATAL CARE SERVICES IN BENIN AND TANZANIA, 2021-2022: AN EQUITY ANALYSIS STUDY

Anna Munsey[1], Alen Kinyina[2], Melkior Assenga[2], Faustin Onikpo[3], Alexandre Binazon[3], Marie Adeyemi Idohou[3], Manzidatou Alao[3], Sijenunu Aron[4], Samwel L. Nhiga[4], Julie Niemczura[5], Julie Buekens[5], Chonge Kitojo[6], Erik Reaves[7], Catherine Dentinger[8], Ahmed Saadani Hassani[9], Mary Drake[2], Katherine Wolf[10], Stephanie Suhowatsky[10], Aurore Ogouyèmi-Hounto[11], Ruth Lemwayi[2], Julie R. Gutman[1], Walter Ochieng[12]
[1]Malaria Branch, Division of Parasitic Diseases and Malaria, Global Health Center, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Jhpiego, Dar es Salaam, United Republic of Tanzania, [3]U.S. Presidents' Malaria Initiative Impact Malaria project, MCD, Cotonou, Benin, [4]National Malaria Control Program, Dar es Salaam, United Republic of Tanzania, [5]U.S. Presidents' Malaria Initiative Impact Malaria project, MCD, Washington, DC, United States, [6]U.S. President's Malaria Initiative, USAID, Dar es Salaam, United Republic of Tanzania, [7]U.S. President's Malaria Initiative, U.S. Centers for Disease Control and Prevention, Dar es Salaam, United Republic of Tanzania, [8]U.S. President's Malaria Initiative, Malaria Branch, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States, [9]U.S. Presidents' Malaria Initiative, U.S. Centers for Disease Control and Prevention, Cotonou, Benin, [10]U.S. Presidents' Malaria Initiative Impact Malaria project, Jhpiego, Baltimore, MD, United States, [11]Unité de Parasitologie/Faculté des Sciences de la Santé /Université d'Abomey Calavi, Cotonou, Benin, [12]Office of the Director, Global Health Center, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States

9:30 a.m. 6472

COSTING OF A COMBINATION INTERVENTION (KYATEREKERA) ADDRESSING SEXUAL RISK-TAKING BEHAVIORS AMONG VULNERABLE WOMEN IN SOUTHWESTERN UGANDA

Yesim Tozan[1], Joshua Kiyingi[2], Sooyoung Kim[1], Ozge Bahar Sensoy[2], Proscovia Nabunya[2], Larissa Jennings Mayo-Wilson[3], Joseph Kagaayi[4], Mary M. McKay[2], Susan S. Witte[5], Fred M. Ssewamala[2]
[1]New York University School of Global Public Health, New York, NY, United States, [2]Brown School, Washington University in Saint Louis, Saint Louis, MO, United States, [3]Gilling School of Global Public Health, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [4]International Center for Child Health and Development, Washington University in St. Louis, Uganda Field Office, Masaka, Uganda, [5]Columbia University School of Social Work, New York, NY, United States

Scientific Session 103

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Parasites – Protective Mechanisms

Grand Ballroom B - Ballroom Level (East Tower)
Saturday, October 21, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

Supported with funding from the Burroughs Wellcome Fund

CHAIR
Julian Rayner
University of Cambridge, Cambridge, United Kingdom

Katherine O'Flaherty
Burnet Institute, Melbourne, Australia

8 a.m. 7264

HIGH-RESOLUTION ANALYSIS OF TRANSLATIONAL REGULATION DURING LIFE CYCLE TRANSITIONS IN *TOXOPLASMA GONDII*

Michelle Peters, Aditi Shukla, Kehui Xiang, Dylan McCormick, David Bartel, Sebastian Lourido
Whitehead Institute/Massachusetts Institute of Technology, Cambridge, MA, United States

8:15 a.m. 6473

THE COLLABORATIVE CROSS REVEALS A SINGLE LOCUS REQUIRED FOR PROTECTIVE IMMUNITY AGAINST HIGHLY VIRULENT *TOXOPLASMA GONDII* STRAINS

Juan C. Sánchez-Arcila[1], Arlon Wizzard[1], Litzy Lemus[1], Jennifer Eggleston[1], Darian Galvez[1], Scott P. Souza[1], Kirk Dc Jensen[2]
[1]Department of Molecular and Cell Biology, University of California, Merced, CA, United States, [2]Health Sciences Research Institute, University of California, Merced, CA, United States

8:30 a.m. 6474

EXPLORING NATURALLY ACQUIRED IMMUNITY TO *PLASMODIUM FALCIPARUM* IN A GENOTYPIC ANALYSIS OF A LONGITUDINAL COHORT STUDY

Emily LaVerriere[1], Zachary M. Johnson[2], Meg Shieh[2], Charlotte Switzer[1], Caroline O. Buckee[1], Peter D. Crompton[3], Boubacar Traore[4], Tuan M. Tran[5], Daniel E. Neafsey[1]
[1]Harvard T.H. Chan School of Public Health, Boston, MA, United States, [2]Broad Institute of MIT and Harvard, Cambridge, MA, United States, [3]National Institutes of Health, Rockville, MD, United States, [4]University of Sciences, Technique and Technology of Bamako, Bamako, Mali, [5]Indiana University School of Medicine, Indianapolis, IN, United States

8:45 a.m. 6475

INVESTIGATION OF THE RELATIONSHIP BETWEEN NATURALLY ACQUIRED ANTIMALARIAL ANTIBODIES AND THE DURATION AND CLEARANCE OF ULTRA-LOW DENSITY *PLASMODIUM VIVAX* INFECTIONS

Katherine O'Flaherty[1], Rhea J. Longley[2], Merryn S. Roe[1], Sophie G. Zaloumis[3], D. Herbert Opi[1], Kael Schoffer[4], David J. Price[5], Rupam Tripura[6], Chea Ngoun[7], Koukeo Phommasone[8], Mayfong Mayxay[9], Paul N. Newton[10], Thomas J. Peto[6], James Callery[6], Mehul Dhorda[6], Nicholas P. Day[6], Arjen M. Dondorp[6], Eizo Takashima[11], Takafumi Tsuboi[11], Julie A. Simpson[3], James G. Beeson[12], Ivo Mueller[2], Nicholas J. White[6], Lorenz von Seidlein[6], Freya J. I. Fowkes[13]
[1]Disease Elimination Program, Burnet Institute, Melbourne, Australia, [2]Population Health and Immunity Division, Walter and Eliza Hall Institute of Medical Research and Department of Medical Biology, The University of Melbourne, Melbourne, Australia, [3]Centre for Epidemiology and Biostatistics, The University of Melbourne, Melbourne, Australia, [4]Population Health and Immunity Division, Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia, [5]Centre for Epidemiology and Biostatistics, The University of Melbourne and

Department of Infectious Diseases, The University of Melbourne at the Peter Doherty Institute for Infection and Immunity, Melbourne, Australia, [6]Mahidol-Oxford Tropical Medicine Research Unit, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand and Centre for Tropical Medicine and Global Health, University of Oxford, Oxford, United Kingdom, [7]National Centre for Parasitology, Entomology, and Malaria Control, Phnom Penh, Cambodia, [8]Lao-Oxford-Mahosot Hospital-Wellcome Trust Research Unit, Vientiane, Lao PDR and Amsterdam Institute for Global Health & Development, Amsterdam, Netherlands, [9]Centre for Tropical Medicine and Global Health, University of Oxford, Oxford, United Kingdom and Institute of Research and Education Development, University of Health Sciences, Vientiane, Lao People's Democratic Republic, [10]Centre for Tropical Medicine and Global Health, University of Oxford, Oxford, United Kingdom and Lao-Oxford-Mahosot Hospital-Wellcome Trust Research Unit, Vientiane, Lao People's Democratic Republic, [11]Division of Malaria Research, Proteo-Science Center, Ehime University, Matsuyama, Japan, [12]Disease Elimination Program, Burnet Institute and Departments of Medicine, Microbiology and Immunology, and Infectious Diseases, The University of Melbourne and Central Clinical School and Department of Microbiology, Monash University, Melbourne, Australia, [13]Disease Elimination Program, Burnet Institute and Centre for Epidemiology and Biostatistics, The University of Melbourne and Departments of Epidemiology and Preventative Medicine and Infectious Diseases, Monash University, Melbourne, Australia

9 a.m. **6476**

NEW INSIGHTS INTO SCHISTOSOMIASIS MANSONI PATHOGENESIS: EVIDENCE FOR BACTERIAL TRANSLOCATION, INFLAMMASOME ACTIVATION, AND UPREGULATION OF PROINFLAMMATORY CYTOKINES IN HEPATOSPLENIC PATIENTS

Thiago Almeida Pereira[1], Jailza Lima Rodrigues[2], Izabela Voieta[2], José Roberto Lambertucci[2], Stefan M. Geiger[2], Deborah Negrão-Corrêa[2]
[1]Stanford University School of Medicine, Stanford, CA, United States, [2]Federal University of Minas Gerais, Belo Horizonte, Brazil

9:15 a.m. **6477**

IMMUNE RESPONSE KINETICS IN NEUROCYSTICERCOSIS OVER TIME POST INFECTION USING AN ANIMAL MODEL

Danitza G. Dávila-Villacorta[1], Rensson Homero Céliz-Ygnacio[1], Fabio Torres-Bocanegra[1], Valeria Alejandra Rubio[1], Alejandra Jimena Bustamante-Portocarrero[1], María Milagros Dueñas-Mendoza[1], Ayme Yadine Huaman-Navarro[1], Cesar M Gavídia[2], Robert H Gilman[3], Manuela R. Verástegui[1]
[1]Universidad Peruana Cayetano Heredia, Lima, Peru, [2]School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru, [3]The Department of International Health, Bloomberg School of Hygiene and Public Health, Johns Hopkins University,, baltimore, MD, United States

9:30 a.m. **6478**

TRANSCRIPTOMIC IDENTIFICATION OF BIOMARKERS FOR CHAGAS DISEASE PROGRESSION

Carolina Duque[1], Jill Hakim[1], Kelly DeToy[1], Shilah Waters[1], David Martin[1], Rachel Marcus[2], Manuela Verastegui[3], Robert H. Gilman[1], Monica R. Mugnier[1]
[1]Johns Hopkins University, Baltimore, MD, United States, [2]Medstar Union Memorial Hospital, Baltimore, MD, United States, [3]Universidad Peruana Cayetano Heredia, Lima, Peru

Symposium 104

Generating Data on Typhoid Conjugate Vaccine to Save Lives – Clinical Studies to Country Introduction

Grand Hall J - Ballroom Level (East Tower)
Saturday, October 21, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

Typhoid is a serious disease that disproportionately impacts children in low-resource settings in sub-Saharan Africa and South/Southeast Asia. Typhoid is primarily spread through contaminated food and water and globally, accounts for more than 9 million cases and more than 110,000 deaths each year. There is a mounting need to contain and control typhoid driven by growing antimicrobial resistant strains of Salmonella Typhi (S. Typhi) worldwide and severe adverse weather events due to climate change. Two safe, effective, and cost-effective typhoid conjugate vaccines (TCVs) are World Health Organization (WHO)-prequalified in children as young as six months. Broad introduction of TCVs is essential to combat the spread – and potentially devastating consequences – of typhoid. It is vital to empower, encourage, and facilitate typhoid-endemic countries to introduce TCVs and for decision-makers to embrace this critical tool to prevent typhoid and save lives. The Typhoid Vaccine Acceleration Consortium (TyVAC), led by the Center for Vaccine Development and Global Health at the University of Maryland, the Oxford Vaccine Group at the University of Oxford, and PATH, conducted the first clinical trials on TCVs in Africa – and two trials in Asia – to generate additional information on safety, immunogenicity, co-administration, and efficacy in different geographical settings. Data from clinical trials in diverse settings in Malawi, Nepal, and Bangladesh, show TCVs are safe, well-tolerated, and approximately 80% efficacious up to three years following a single dose. Additionally, efficacy has been demonstrated in all pediatric age groups, including children under two years of age. Trials in Malawi and Burkina Faso show TCVs can be safely co-administered with routine childhood vaccines at 9- and 15-months of age. This information informed TCV country introductions in Pakistan, Liberia, Zimbabwe, and Nepal, planned introduction in Malawi, and Gavi applications in Bangladesh and Kenya. The data generated helps guide policy and inform country decision-makers across the globe to accelerate the introduction of TCVs. This symposium will extend prior results to provide longer term efficacy data, results of alternative schedules, and early lessons learned from introduction. The objectives are to (1) provide updated data from on-going trials of TCV in Malawi and Nepal; (2) discuss lessons learned from country introductions in Malawi and Nepal; and (3) understand the importance of these data to regional and country policy makers to accelerate TCV introduction to help prevent and control typhoid. The session will begin with an overview of global policy recommendations on use of TCVs, followed by specific data from the trials and how it informed country introductions.

CHAIR
Kathleen Neuzil
University of Maryland Baltimore, Baltimore, MD, United States

Nginache Nampota
Blantyre Malaria Project, Blantyre, Malawi

8 a.m.
INTRODUCTION

8:10 a.m.
TCV INTRODUCTION – NOW IS THE TIME
Kathleen Neuzil
University of Maryland Baltimore, Baltimore, MD, United States

8:20 a.m.
IMMUNOGENICITY AND TOLERABILITY OF DIFFERENT DOSE SCHEDULES IN NEPAL
Sanjeev Bijukchhe
OUCRU – Nepal, Kathmandu, Nepal

8:35 a.m.
TCV CLINICAL TRIAL UPDATES FROM MALAWI: 4-YR EFFICACY DATA AND BOOSTER DOSE STUDY
Nginache Nampota
Blantyre Malaria Project, Blantyre, Malawi

8:50 a.m.
INTRODUCTION OF TCV IN NEPAL: LESSONS LEARNED
Mila Shakya
OUCRU – Nepal, Jhamiskhel, Lalitpur, Nepal

9:05 a.m.
MALAWI COUNTRY INTRODUCTION OF TYPHOID CONJUGATE VACCINE AND MEASLES RUBELLA
Latif Ndeketa
Malawi-Liverpool-Wellcome Trust Clinical Research Programme, Blantyre, Malawi

Symposium 105

LIVE STREAMING

Mechanisms of Protection Induced by the RTS,S/AS01 Vaccine and Identification of Host Signatures Influencing Vaccine Efficacy to Inform Next - Generation Malaria Vaccine Development

Grand Ballroom CDEF - Ballroom Level (East Tower)
Saturday, October 21, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

Identifying correlates of protection following RTS,S/AS01 (RTS,S) vaccination can guide and accelerate the development of improved next-generation malaria vaccines. Antibody (Ab) and CD4+ T cell responses increase after RTS,S immunization and may be associated with protection. Ab features such as titer, affinity (avidity), and Fc-mediated effector functions (phagocytosis and NK cell activation) of anti-circumsporozoite (CSP) antibodies against the major NANP repeats of CSP are biomarkers associated with the RTS,S efficacy in controlled human malaria infection (CHMI) studies. Variations exist in vaccine responsiveness across populations and geographical areas. The emerging concept that baselines immune signatures, low-grade persistent malaria infection, and early post-vaccination signatures might play an essential role in predicting whether a vaccine will show efficacy can now be addressed using a multi-omics approach to understand why malaria vaccines exhibit variable performance. There is a need to understand the underlying immune mechanisms that contribute to malaria vaccine-elicited protection or vaccine hypo-responsiveness in endemic regions by capitalizing on recent advances in systems vaccinology and systems immunology as well as maximizing the application of big data science and bioinformatics. This symposium will first introduce to the audience the current RTS,S biomarkers identified in CHMI studies and the strategic applications of these biomarkers to vaccine development before addressing the host signatures and mechanistic factors that may influence malaria vaccine performance in malaria-endemic regions and how this critical knowledge could guide next-generation malaria vaccines development. The panel discussion will introduce the current RTS,S biomarkers as an efficient and cost-effective guideline for protection to inform the development of next-generation malaria vaccines providing high-level and durable protection. The panel will also highlight priority areas for the evaluation of the immunogenicity of malaria vaccine candidates, focusing on how to set the stage for determining the long-term efficacy of the next generation of malaria vaccines.

CHAIR
Neville Kisalu
PATH, Washington, DC, United States

Ann Moormann
University of Massachusetts Chan Medical School, Worcester, MA, United States

8 a.m.
INTRODUCTION

8:15 a.m.
CURRENT RTS,S BIOMARKERS IDENTIFIED IN CHMI TRIALS: AN OVERVIEW
Georgia D. Tomaras
Duke University, Durham, NC, United States

8:30 a.m.
STRATEGIC APPLICATION OF RTS,S BIOMARKERS TO MALARIA VACCINE DEVELOPMENT
Faith H. Osier
Imperial College London, London, United Kingdom

8:45 a.m.
ANTIBODY FUNCTIONS MEDIATING PROTECTION BY THE RTS,S MALARIA VACCINE, AND UNDERSTANDING FACTORS DETERMINING THEIR INDUCTION, MAINTENANCE, AND DECAY IN CHILDREN
Liriye Kurtovic
Burnet Institute, Melbourne, Australia

9 a.m.
ANTIBODY, CELLULAR, AND TRANSCRIPTIONAL CORRELATES OF PROTECTION IN THE RTS,S PEDIATRIC PHASE 3 TRIALS
Gemma Moncunill
ISGlobal, Barcelona, Spain

9:15 a.m.
ASSESSING TRANSCRIPTOMIC AND FUNCTIONAL DIFFERENCES BETWEEN PEDIATRIC AND ADULT NATURAL KILLER CELLS AND THEIR IMPLICATIONS FOR MALARIA VACCINE EFFICACY
Cliff Oduor
Brown University, Providence, RI, United States

9:20 a.m.
MODERATOR, PANEL DISCUSSION
Faith H. Osier
Imperial College, London, United Kingdom

John Ong'echa
Kenya Medical Research Institute, Kisumu, Kenya

Neville Kisalu
PATH, Washington, DC, United States

Scientific Session 106

Integrated Control Measures for Neglected Tropical Diseases I

Grand Hall K - Ballroom Level (East Tower)

Saturday, October 21, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR

Maureen Headland
FHI 360, Washington DC, United States

Dieudonne Nare
Helen Keller International, Ouagadougou, Burkina Faso

8 a.m. 6479

REDUCTION OF SEXUALLY TRANSMITTED INFECTIONS FOLLOWING AZITHROMYCIN MASS DRUG ADMINISTRATION FOR TRACHOMA IN NAURU

Lucia Romani[1], Sue-Chen Apadinuwe[2], Aisling Byrne[1], Mitchell Starr[3], Kathleen Lynch[4], Susan Star[2], Philip Cunningham[3], Stephen Lambert[4], Susana Vaz Nery[1]
[1]Kirby Institute, UNSW, Sydney, Australia, [2]Ministry of Health and Medical Services, Denig, Nauru, [3]NSW State Reference Laboratory for HIV, Sydney, Australia, [4]UQ Centre for Clinical Research, Brisbane, Australia

8:15 a.m. 6480

THE SECONDARY EFFECTS OF IVERMECTIN MDA DESIGNED FOR MALARIA ON ECTOPARASITIC INFESTATIONS IN MOPEIA, MOZAMBIQUE: A CLUSTER-RANDOMIZED CONTROLLED TRIAL

Joanna Furnival-Adams[1], Amelia Houana[2], Hansel Mundaca[1], Aina Casellas[1], Patricia Nicolas[1], Julia Montaña[1], Eldo Elobolobo[2], Samuel Martinho[1], Aida Xerinda[2], Arlindo Soares[2], Almudena Sanz[1], Victor Mutepa[1], Mary Mael[1], Felisbela Materula[2], Marta Ribes[1], Valeria Lopez[1], Antonio Macucha[2], Paula Ruiz-Castillo[1], Mussa Sale[2], Jenisse Mbanze[2], Humberto Munguambe[1], Francisco Saute[2], Regina Rabinovich[1], Daniel Engelman[3], Carlos Chaccour[1]
[1]Barcelona Institute for Global Health, Barcelona, Spain, [2]Centro de Investigação em Saúde de Manhiça (CISM), Manhica, Mozambique, [3]Murdoch Children's Research Institute, Melbourne, Australia

8:30 a.m. 6481

ASSESSING THE PREVALENCE OF SOIL TRANSMITTED HELMINTHS AND TUNGIASIS DURING LYMPHATIC FILARIASIS SURVEILLANCE IN THE COASTAL REGION OF KENYA

Michael O. Ofire[1], Wyckliff P. Omondi[2], Sultani H. Matendechero[2], Sammy M. Njenga[3], Collins O. Okoyo[3], Stella Kepha[3], Lynne Elson[4], Joseph O. Oloo[2], Gerald G. Gakuo[2]
[1]Amref Health Africa, Nairobi, Kenya, [2]Ministry of Health, Nairobi, Kenya, [3]Kenya Medical Research Institute, Nairobi, Kenya, [4]Kenya Medical Research Institute-Wellcome Trust, Nairobi, Kenya

8:45 a.m. 6482

ESTIMATING THE BURDEN OF MALARIA-HELMINTH CO-INFECTIONS AMONG CHILDREN LIVING IN A SETTING OF HIGH COVERAGE OF STANDARD INTERVENTIONS FOR MALARIA AND HELMINTHS

Muhammed O. Afolabi[1], Doudou Sow[2], Ibrahima Mbaye[3], Marie Pierre Diouf[3], Mor Absa Loum[3], Elhadj Babacar Fall[3], Amadou Seck[3], Isaac A. Manga[4], Cheikh Cisse[3], Baba Camara[5], Awa Diouf[3], Ndéye Aida Gaye[3], Aminata Colle Lo[6], Brian Greenwood[1], Jean Louis A. Ndiaye[7]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]Université Gaston Berger de Saint-Louis, Saint-Louis, Senegal, [3]Université de Thies, Thies, Senegal, [4]Université Cheikh Anta Diop, Dakar, Senegal, [5]Saraya Health Centre, Saraya, Senegal, [6]Université Cheikh Anta Diop, Dakar, United Kingdom, [7]University of Thies, Thies, Senegal

9 a.m. 6483

INTEGRATED NEGLECTED TROPICAL DISEASES (NTDS) SURVEYS TO ASSESS IMPACT OF INTEGRATED MDA IN VANUATU

Elizabeth Nguyen[1], Md Saiful Islam[1], Fasihah Taleo[2], Clare Dyer[1], David S. Kennedy[1], Macklyne Katenga[3], Stephanie Tabe[3], Prudence Rymill[3], Sze F. Hii[4], Vito Colella[4], Rebecca Traub[4], Anastasia Pantelias[5], Julie Jacobson[5], John M. Kaldor[1], Susana Vaz Nery[1]
[1]Kirby Institute, University of New South Wales, Sydney, Australia, [2]World Health Organization, Port Vila, Vanuatu, [3]Ministry of Health, Government of Vanuatu, Vanuatu, [4]The University of Melbourne, Victoria, Australia, [5]Bridges to Development, Seattle, WA, United States

9:15 a.m. 6484

COMMUNITY DIALOGUE AS AN INNOVATIVE APPROACH TO IMPROVE THE EFFECTIVENESS OF NTD CONTROL PROGRAMS TO IMPROVE MDA COVERAGE FOR LF IN BURKINA FASO

Clarisse Bougouma[1], Mamadou Serme[1], Christophe Nassa[1], Kima Appolinaire[1], Zoromé Harouna[1], Cathérine Kabré[1], Ilboudo Adama[1], Georges Diminthe[2], Regina Khassanova[2], **Dieudonné Naré**[2], Micheline Ouedraogo[2], Lucien Mano[2], Elisabeth Chop[3], Angel Weng[3], Patricia Houck[3], Yaobi Zhang[3], Benoit Dembele[4], Steven D. Reid[3], Angela Weaver[3]
[1]NTD Control Program - Ministry of Health, Ouagadougou, Burkina Faso, [2]Helen Keller International, Ouagadougou, Burkina Faso, [3]Helen Keller International, New York, NY, United States, [4]Helen Keller International, Dakar, Senegal

9:30 a.m. 6485

CHARACTERISTICS OF NON-TREATED POPULATIONS AMONG SELECT NTD MDA CAMPAIGNS IN WEST AFRICA: RESULTS FROM MULTI-LEVEL MODELING USING COVERAGE EVALUATION SURVEYS

Maureen K. Headland[1], Kaustubh Wagh[1], Andres Martinez[2], Vance Harris[2], Elisabeth Chop[3], Caleb Parker[2], Diana Stukel[1]
[1]FHI 360, Washington, DC, United States, [2]FHI 360, Durham, NC, United States, [3]Helen Keller International, Washington, DC, United States

Scientific Session 107

Cestodes

Grand Hall L - Ballroom Level (East Tower)

Saturday, October 21, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR

Philip J. Budge
Washington University School of Medicine, St. Louis, MO, United States

Shubha Bevkal Subramanyaswamy
Weill Cornell Medicine, New York, NY, United States

8 a.m. 6486

A SEMI-QUANTITATIVE DIPSTICK ASSAY IN SERUM FOR THE FOLLOW-UP OF PATIENTS WITH SUBARACHNOID NCC

Luz M. Toribio[1], Sukwan Handali[2], Carolina Guzman[1], Erika Perez[1], Yesenia Castillo[1], Javier Bustos[1], Herbert Saavedra[3], Seth O'Neal[4], Hector H. Garcia[1]
[1]Center for Global Health, Universidad Cayetano Heredia, Lima, Peru, [2]Division of Parasitic Diseases, Center for Disease Control and Prevention, Atlanta, GA, United States, [3]Instituto Nacional de Ciencias Neurológicas, Lima, Peru, [4]Oregon Health & Sciences University-Portland State University, Portland, OR, United States

8:15 a.m. 6487

OPTIMIZATION OF A PCR ASSAY TO DETECT URINARY PARASITE DERIVATE DNA IN PATIENTS WITH NEUROCYSTICERCOSIS

Luz M. Toribio[1], Mariel Almanza[1], Isidro Gonzales[2], Alan Scott[3], Javier Bustos[1], Hector H. Garcia[1], Clive Shiff[3]
[1]Center for Global Health, Universidad Cayetano Heredia, Lima, Peru, [2]Instituto Nacional de Ciencias Neurologicas, Lima, Peru, [3]Department of Molecular Microbiology and Immunology, Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD, United States

8:30 a.m. 6488

DETECTION OF TAENIA SOLIUM ANTIGENS IN PAIRED SERUM AND URINE SAMPLES FROM PATIENTS WITH NEUROCYSTICERCOSIS USING THE TSW8/TSW5 ANTIGEN ENZYME-LINKED IMMUNOSORBENT ASSAY (AG- ELISA)

Carolina Guzman[1], Luz M. Toribio[1], Yesenia Castillo[1], Mirla Villafuerte[2], Cindy Espinoza[3], Javier Bustos[1], Herbert Saavedra[4], Seth O'Neal[5], Hector Garcia[1]
[1]Center for Global Health, Universidad Peruana Cayetano Heredia, lima, Peru, [2]Hospital Nacional Edgardo Rebagliati Martins, lima, Peru, [3]Universidad Peruana Cayetano Heredia, lima, Peru, [4]Instituto Nacional de Ciencias Neurológicas, lima, Peru, [5]School of Public Health, Oregon Health & Sciences, Portland State University, Oregon, USA, Oregon, OR, United States

8:45 a.m. 6489

PRESENTATION, COMPLICATIONS, AND OUTCOMES OF CYSTIC ECHINOCOCCOSIS IN CUSCO, PERU

Roberto Pineda-Reyes[1], Angel Gamarra[2], Ramiro Hermoza[2], Rocio Cuaresma[2], Maria L. Morales[3], Karen Mozo[3], Maria A. Caravedo[1], Miguel M. Cabada[1]
[1]Infectious Disease Division, University of Texas Medical Branch, Galveston, TX, United States, [2]Hospital Regional del Cusco, Cusco, Peru, [3]Cusco Branch - Alexander von Humboldt Tropical Medicine Institute. Universidad Peruana Cayetano Heredia, Cusco, Peru

9 a.m. 6490

DEVELOPMENT OF A HIGHLY SENSITIVE QPCR ASSAY FOR DETECTION OFE. MULTILOCULARISAND FURTHER MAPPING THE EXTENT OF EUROPEAN-LIKE STRAINS IN NORTH AMERICA

Jiana Blaha[1], Sasisekhar Bennuru[1], Michael Grigg[1], Tammy Chen[1], Yang Chen[1], Stephen Raverty[2], Rick McKown[3], Brian Xi[1], Jennifer Noyes[4], Roger Ramirez Barrios[5], Elise M. O'Connell[1]
[1]National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, [2]Animal Health Center, Vancouver, BC, Canada, [3]USDA Meat Animal Research Center, Clay Center, NE, United States, [4]Hollins University, Roanoke, VA, United States, [5]Virginia-Maryland College of Veterinary Medicine, Virginia Tech, Blacksburg, VA, United States

9:15 a.m. 6491

EVALUATION OF ETIDRONATE IN CALCIFIED CYSTS IN THE PIG MODEL OF NEUROCYSTICERCOSIS

Laura Baquedano Santana[1], Noemi Miranda[1], Gianfranco Arroyo[1], Hector H. Garcia[2], Javier A. Bustos[2]
[1]Universidad Peruana Cayetano Heredia, Lima, Peru, [2]Instituto Nacional de Ciencias Neurologicas, Lima, Peru

9:30 a.m. 6492

DYSREGULATED AUTOPHAGY LEADS TO AXONAL SWELLING IN NEUROCYSTICERCOSIS

Gino Castillo[1], Katty Ore[1], Oscar Ramos[1], Ana Claudia Palacios[1], Nancy Chile[1], Edson Bernal[1], Dina Luz Patilla Chihuan[1], Dina Maria Ramirez Cubas[1], Danitza Davila[1], Cesar Gavidia[2], Manuela Verastegui[1], Robert Gilman[3], Cysticercosis Working Group of Peru[1]
[1]Laboratorio de Investigación en Enfermedades Infecciosas, LID, Facultad de Ciencias y Filosofia, Universidad Peruana Cayetano Heredia, Lima, Peru, [2]School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Perú., Lima, Peru, [3]Department of International Health, Johns Hopkins School of Public Health, Baltimore, Maryland, USA., Baltimore, MD, United States

Scientific Session 108

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Parasites – Disease Mechanisms

Plaza Ballroom - Lobby Level (East Tower)
Saturday, October 21, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

Supported with funding from the Burroughs Wellcome Fund

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

Vanessa Angelova
Georgetown University, Washington, DC, United States

8 a.m. 7265

CRYPTOSPORIDIUM REMODELS HOST MICROVILLI THROUGH AN EXPORTED VIRULENCE FACTOR

Elena Rodrigues, Tapoka T. Mkandawire, Kat Sala, Silvia Haase, Adam Sateriale
The Francis Crick Institute, London, United Kingdom

8:15 a.m. 7266

A SKIN-ON-CHIP ORGANOID MODEL TO UNRAVEL THE DEVELOPMENT OF DERMAL TRYPANOSOMES

Parul Sharma[1], Christelle Travaillé[2], Samy Gobaa[3], Brice Rotureau[1]
[1]Trypanosome Transmission Group, Trypanosome Cell Biology, UnitInstitut Pasteur, Paris, France, [2]BioImagerie Photonique (UTechS PBI), Institut Pas-teur, Paris, France, [3]Biomaterials and Microfluidics Core Facility, Institut Pasteur, Paris, France

8:30 a.m. 6493

EVALUATION OF APOPTOSIS IN RESPONSE TO ANTHELMINTIC TREATMENT IN RAT BRAINS EXPERIMENTALLY INFECTED WITH ONCOSPHERES OF TAENIA SOLIUM

Valeria Alejandra Rubio[1], DG Dávila-Villacorta[1], Rensson Homero Céliz-Ygnacio[1], Gino Castillo Vilca[1], Edson G. Bernal-Terán[1], Alejandra J. Bustamante-Portocarrero[1], Ayme Yadine Huaman-Navarro[1], Fabio C. Torres-Bocanegra[1], Milagros M. Dueñas-Mendoza[1], Robert H. Gilman[2], Cesar M. Gavídia[3], Manuela R. Verástegui[1], Cysticercosis Working Group in Peru[1]
[1]Infectious Diseases Laboratory Research-LID, Faculty of Science and Philosophy, Universidad Peruana Cayetano Heredia, Lima, Peru, [2]Bloomberg School of Hygiene and Public Health, Johns Hopkins University, Baltimore, MD, United States, [3]School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru

8:45 a.m. 6494

LEAKY GUT MECHANISMS IN GIARDIASIS

Vanessa V. Angelova, Erqiu Li, Brooke Fiedler, Haley Wexelblatt, Rita Kosile, Matthew Darmadi, Eleanor Miskovsky, Steven Singer
Georgetown University, Washington, DC, United States

9 a.m. 6495

DISRUPTION OF HUMAN LYMPHATIC EPITHELIAL CELL CONTACT INTEGRITY PROTEINS BY FILARIAL MIRNAS

Denis Voronin, Hailey Johnson, Elodie Ghedin
Systems Genomics Section, Laboratory of Parasitic Diseases, NIAID, NIH, Bethesda, MD, United States

9:15 a.m. 6496

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

Adnan Gopinadhan[1], Jason M. Hughes[2], Andrea L. Conroy[1], Chandy C. John[1], Scott G. Canfield[3], Dibyadyuti Datta[1]
[1]Indiana University School of Medicine, Indianapolis, IN, United States, [2]Indiana University School of Medicine, Terre Haute, IN, United States, [3]Indiana University School of Medicine, Terre Hatue, IN, United States

9:30 a.m. 6497

THE BRCT DOMAIN FROM LEISHMANIA MAJOR LMJPES PROMOTES MALIGNANCY AND DRUG RESISTANCE IN MAMMALIAN CELLS

Paul Nguewa[1], Esther Larrea[1], Celia Fernandez-Rubio[1], José Peña-Guerrero[1], Elizabeth Guruceaga[2]
[1]Institute of Tropical Health University of Navarra (ISTUN), Pamplona, Spain, [2]Bioinformatics Platform, Center for Applied Medical Research, University of Navarra (ISTUN), Pamplona, Spain

Scientific Session 109

Malaria - Proteins to Populations: Transmission Biology across Scales

Crystal Ballroom A - Lobby Level (West Tower)
Saturday, October 21, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR
Hosea Akala
USAMRU-K, Kisumu, Kenya

Scott E. Lindner
Pennsylvania State University, University Park, PA, United States

8 a.m. 6498

SUPER RESOLUTION IMAGING REVEALS CYTOSKELETON REGULATION IN *PLASMODIUM* SEXUAL STAGE DEVELOPMENT

Jiahong Li, Sophie Collier, Emma Pietsch, Sash Lopaticki, Paul McMillan, James McCarthy McCarthy, Leann Tilley, **Matthew Dixon**
University of Melbourne, Melbourne, Australia

8:15 a.m. 6499

DEVELOPMENT OF AN *IN VIVO* MOUSE MODEL FOR TRANSMISSION BLOCKING STUDIES WITH HUMAN MALARIA PARASITE *P. FALCIPARUM*

Abhai K. Tripathi, Godfree Mlambo, Tassanee Thanakornsombut, George Dimopoulos
Johns Hopkins University, Baltimore, MD, United States

8:30 a.m. 6500

GLOBAL RELEASE OF TRANSLATIONAL REPRESSION ACROSS *PLASMODIUM*'S HOST-TO-VECTOR TRANSMISSION EVENT

Kelly T. Rios[1], James P. McGee[1], Kristian E. Swearingen[2], **Scott E. Lindner**[1]
[1]Pennsylvania State University, University Park, PA, United States, [2]Institute for Systems Biology, Seattle, WA, United States

8:45 a.m. 6501

DYNAMICS OF ASYMPTOMATIC *PLASMODIUM FALCIPARUM* AND *PLASMODIUM VIVAX* INFECTIONS AND INFECTIOUSNESS TO MOSQUITO IN LOW TRANSMISSION SETTING OF ETHIOPIA: A LONGITUDINAL OBSERVATIONAL STUDY

Elifaged Hailemeskel[1], Surafel K. Tebeje[1], Temsgen Ashine[1], Sinknesh W. Behaksra[1], Tadele Emiru[1], Tizita Tsegaye[1], Kjerstin Lanke[2], Abrham Gashaw[1], Wakoya Chalie[1], Endashaw Esayas[1], Temesgen Tafesse[1], Mikiyas Gebremichael[1], Girma Shumie[1], Beyene Petros[3], Hassen Mamo[4], Jordache Ramjith[2], Chris Drakeley[5], Endalamaw Gadisa[1], Teun Bousema[2], Fitsum G. Tadesse[1]
[1]Armauer Hansen Research Institute, Addis Ababa, Ethiopia, [2]Radboud Institute for Health Science, Radboud University Medical Center, Nijmegen, Netherlands, [3]Department of Biomedical Sciences, College of Natural and Computational Sciences, Addis Ababa university, Addis Ababa, Ethiopia, [4]Department of Biomedical Sciences, College of Natural and Computational Sciences, Addis Ababa university, Ethiopia, Addis Ababa, Ethiopia, [5]London School of Hygiene & Tropical Medicine, London, United Kingdom

9 a.m. 6502

EFFECT OF CHLOROQUINE ON *PLASMODIUM VIVAX* PARASITE TRANSMISSION TO MOSQUITOES IN THE EARLY POST-TREATMENT HOURS, ARBA MINCH, ETHIOPIA

Girum Datanbo[1], Biniam Wondale[1], Nigatu Eligo[1], Endalamaw Gadisa[2], Bernt Lindtjørn[3], Fitsum Girma[2], Fekadu Massebo[1]
[1]Arba Minch University, Arba Minch, Ethiopia, [2]Armauer Hansen Research Institute, Addis Ababa, Ethiopia, [3]Centre for International Health, University of Bergen, Norway

9:15 a.m. 6503

CLINICAL INVESTIGATION STUDY TO EVALUATE THE CONSISTENCY AND REPRODUCIBILITY OF TWO CONSECUTIVE MOSQUITO FEEDING ASSAYS IN ADULTS WITH VARYING *PLASMODIUM FALCIPARUM* GAMETOCYTE DENSITIES

Hosea M. Akala[1], **Millicent Anyango Achola**[1], Ben M. Andagalu[1], Mike Raine[2], Valerie Moore Moore[2], Yimin Wu[2], Benjamin H. Opot[1], Raphael O. Okoth[3], Jackline A. Juma[1], Edwin W. Mwakio[4], Maurine Mwalo A. Mwalo[1], David O. Oullo[1], Fredrick L. Eyase L. Eyase[1], Lucas Otieno Tina[1], Amanda Roth[5], Nathanial Copeland[1], James Mutunga[1], Irene onyango[1], Jaree Johnson[6], Bernhards Ogutu[7], Timothy E. Egbo[8], Jack hutter[8], John Aponte[2], Christian F. Ockenhouse[2]
[1]Department of Emerging and Infectious Diseases (DEID), United States Army Medical Research Directorate-Africa (USAMRD-A), Kenya Medical Research Institute (KEMRI) / Walter Reed Project, Kisumu, Kenya., KISUMU, Kenya, [2]PATH, Seattle, WA, USA, SEATTLE, WA, United States, [3]1Department of Emerging and Infectious Diseases (DEID), United States Army Medical Research Directorate-Africa (USAMRD-A), Kenya Medical Research Institute (KEMRI) / Walter Reed Project, Kisumu, Kenya., KISUMU, Kenya, [4]Department of Emerging and Infectious Diseases (DEID), United States Army Medical Research Directorate-Africa (USAMRD-A), Kenya Medical Research Institute (KEMRI) / Walter Reed

Project, Kisumu, Kenya, KISUMU, Kenya, [5]Medical Communications for Combat Casualty Care, 1540 Porter Street, Fort Detrick MD 21702, Fort Detrick, WA, United States, [6]Armed Forces Pest Management Board 2460 Linden Ln, Silver Spring, MD 20910, Washington, WA, United States, [7]Centre for Clinical Research, Kenya Medical Research Institute, Kisumu, Kenya, KISUMU, Kenya, [8]United States Army Medical Research Directorate-Africa, Kenya (USAMRD-A)., KISUMU, Kenya

9:30 a.m. 6504

HYPER-DIVERSE ANTIGENIC VARIATION AND RESILIENCE TO TRANSMISSION-REDUCING INTERVENTION IN FALCIPARUM MALARIA

Qi Zhan[1], Kathryn Tiedje[2], Qixin He[3], Karen Day[2], Mercedes Pascual[1]
[1]University of Chicago, Chicago, IL, United States, [2]The University of Melbourne, Melbourne, Australia, [3]Purdue University, West Lafayette, IN, United States

Scientific Session 110

Clinical Tropical Medicine: Arboviral Infections

Crystal Ballroom B - Lobby Level (West Tower)
Saturday, October 21, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR

Rapeephan Maude
Mahidol-Oxford Tropical Medicine Research Unit, Bangkok, Thailand

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

8 a.m. 6505

DENGUE SEVERITY BY SEROTYPE IN 17 YEARS OF A PEDIATRIC HOSPITAL STUDY IN NICARAGUA

Federico Narvaez[1], Karla Gonzalez[2], Elsa Videa[1], Cesar Narvaez[1], Sonia Arguello[1], Carlos Montenegro[1], Jose Juarez[1], Eva Harris[3], Angel Balmaseda[2]
[1]Sustainable Science Institute, Managua, Nicaragua, [2]Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua, [3]Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States

8:15 a.m. 6506

COMPARATIVE EVALUATION OF FIVE RAPID DIAGNOSTIC TESTS FOR DENGUE DIAGNOSIS

Jyotshna Sapkota[1], Rumina Hasan[2], Zahida Azizullah[2], Hina Shams[2], Berra Erkosar[1], Sabine Dittrich[3], Kevin Tetteh[1]
[1]FIND, Geneva, Switzerland, [2]Aga Khan University, Karachi, Pakistan, [3]Deggendorf Institut of Technology, Pffarrkirchen, Germany

8:30 a.m. 6507

POTENTIAL UTILITY OF CONTINUOUS PPG MONITORING IN THE MANAGEMENT OF SEVERE DENGUE

Ngan H. Lyle[1], Chanh Q. Ho[1], Huy Q. Nguyen[1], Giang T. Nguyen[1], Huyen T. Vu[1], Van-Khoa D. Le[1], Damien K. Ming[2], Stefan Karolcik[3], Hao V. Nguyen[4], Qui T. Phan[4], Trieu T. Huynh[4], Sophie Yacoub[1]
[1]Oxford Clinical Research Unit Vietnam, Ho Chi Minh City, Vietnam, [2]Centre for Antimicrobial Optimisation (CAMO), Imperial College London, London, United Kingdom, [3]Centre for Bio-Inspired Technology, Imperial College London, London, United Kingdom, [4]Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam

8:45 a.m. 6508

METFORMIN AS ADJUNCTIVE THERAPY IN OVERWEIGHT AND OBESE PATIENTS WITH DENGUE: AN OPEN-LABEL SAFETY AND TOLERABILITY TRIAL (MEDO)

Tam Dong Thi Hoai[1], Nguyet Nguyen Minh[1], Phong Nguyen Thanh[2], Tai Luong Thi Hue[2], Tam Cao Thi[2], Kieu Nguyen Tan Thanh[1], Thuy Huynh Le Phuong[1], Van Nguyen Thanh[1], Chau Nguyen Thi Xuan[1], Chanh Ho Quang[1], Duyen Huynh Thi Le[1], Vi Tran Thuy[1], Ronald Geskus[1], Evelyne Kestelyn[1], Vuong Nguyen Lam[1], Sophie Yacoub[1]
[1]Oxford University Clinical Research Unit, Ho Chi Minh City, Vietnam, [2]Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam

9 a.m. 6509

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

Angela McBride[1], Phan Vinh Tho[2], Luong Thi Hue Tai[2], Nguyen Thanh Phong[2], Nguyen Thanh Ngoc[3], Duyen Huynh Thi Le[3], Nguyen Lam Vuong[3], Louise Thwaites[3], Martin J Llewelyn[1], Nguyen Van Hao[4], Sophie Yacoub[3]
[1]Brighton and Sussex Medical School, Brighton, United Kingdom, [2]Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam, [3]Oxford University Clinical Research Unit, Ho Chi Minh City, Vietnam, [4]University of Medicine and Pharmacy, Ho Chi Minh City, Vietnam

9:15 a.m. 6510

NEURODEVELOPMENTAL OUTCOMES IN TWO YEAR OLD CHILDREN BORN DURING THE ZIKA EPIDEMIC IN BRAZIL: A PROSPECTIVE COHORT STUDY

Nivison Ruy R. Nery Jr[1], Pablo Aguilar[2], Claudia G. Sampaney[3], Millani S. A. Lessa[2], Adeolu Aromolaran[3], Valmir Rastely-Júnior[1], Gielson A. Sacramento[1], Jaqueline S. Cruz[1], Daiana de Oliveira[1], Laiara Lopes dos Santos[1], Crislaine G. da Silva[1], Adriana Mattos[4], Bruno Freitas[4], Joseane Bouzon[4], Ailema Guerra[4], Viviane F. Botosso[5], Camila P. Soares[6], Danielle B. Oliveira[5], Danielle Bastos Araujo[6], Rubens Prince dos Santos Alves[7], Robert Andreata-Santos[7], Edison L. Durigon[5], Luís Carlos de Souza Ferreira[7], Elsio A. Wunder, Jr.[3], Ricardo Khouri[1], Jamary Oliveira-Filho[8], Isadora C. de Siqueira[1], Antônio R. P. Almeida[4], Derek A.T. Cummings[9], Mitermayer G. Reis[1], Federico Costa[2], Albert I. Ko[3]
[1]Goncalo Moniz Institute, Salvador, Brazil, [2]Institute of Collective Health, Federal University of Bahia, Salvador, Brazil, [3]Department of Epidemiology of Microbial Diseases, Yale School of Public Health, New Haven, CT, United States, [4]Roberto Santos General Hospital, Salvador, Brazil, [5]Development and Innovation Center, Laboratory of Virology, Butantan Institute, São Paulo, Brazil, [6]Department of Microbiology. Institute of Biomedical Sciences, University of São Paulo, São Paulo, Brazil, [7]Vaccine Development Laboratory, Department of Microbiology, Institute of Biomedical Sciences, University of São Paulo, São Paulo, Brazil, [8]Faculty of Medicine of Bahia, Federal University of Bahia, Salvador, Brazil, [9]Department of Biology, University of Florida, Gainesville, FL, United States

9:30 a.m. 6511

PERSISTENT RHEUMATOLOGICAL DISEASE AFTER 7 YEARS OF CHIKUNGUNYA VIRUS INFECTION: RESULTS FROM A COHORT STUDY IN PIEDECUESTA, COLOMBIA

Anyela Lozano-Parra[1], Carlos Andrés Calderón[2], Reynaldo Badillo[3], Luis Angel Villar[2], Victor Herrera[4], Rosa Margarita Gelvez[2], Jose Fernando Lozano[2], Maria Isabel Estupiñan[2], **Elsa Marina Rojas**[2]
[1]Centro de Investigaciones Epidemiológicas, Universidad Industrial de Santander, Bucaramanga, Colombia, [2]Centro de Atención y Diagnóstico de Enfermedades Infecciosas-CDI, Fundación INFOVIDA, Bucaramanga, Colombia, [3]RBA. Director Departamento Medicina Interna. Universidad de Santander-UDES, Bucaramanga, Colombia, [4]Department of Public Health, Universidad Industrial de Santander, Bucaramanga, Colombia

Symposium 111

American Committee on Arthropod-Borne and Zoonotic Viruses (ACAV) Symposium I: Annual Business Meeting

Regency Ballroom A - Ballroom Level (West Tower)
Saturday, October 21, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

The American Committee on Arthropod-Borne Viruses (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.

CHAIR
Saravanan Thangamani
SUNY Upstate Medical University, Syracuse, NY, United States
Mauricio Lacerda Nogueira
Faculdade de Medicina de São José do Rio Preto (FAMERP), Sao Paulo, Brazil

8 a.m.
INTRODUCTION

8:10 a.m.
ACAV AWARDS AND BUSINESS MEETING
Saravanan Thangamani
SUNY Upstate Medical University, Syracuse, NY, United States

8:40 a.m.
AN OVERVIEW OF THE EMERGENCE OF ARBOVIRUSES IN LATIN-AMERICA
Jairo Mendez-Rico
PAHO/WHO Collaborating Centre for Arboviruses, Washington, DC, United States

8:55 a.m.
STRUCTURAL BIOLOGY OF ARBOVIRUSES OF MEDICAL INTEREST
Rafael Elias Marques
Brazilian Center for Research in Energy and Materials, Sao Paulo, Brazil

9:10 a.m.
AUDIENCE AND PANEL DISCUSSION: CHALLENGES AND LESSONS LEARNED FOR RESEARCH AND OPERATIONAL SUPPORT
Mauricio Lacerda Nogueira
Faculty of Medicine of São José do Rio Preto, Sao Paulo, Brazil

9:25 a.m.
CO-MODERATOR: AUDIENCE AND PANEL DISCUSSION: CHALLENGES AND LESSONS LEARNED FOR RESEARCH AND OPERATIONAL SUPPORT
Rebecca Christofferson
LSU School of Veterinary Medicine, Baton Rouge, LA, United States

9:35 a.m.
NETWORKING RECEPTION

Scientific Session 112

Water, Sanitation, Hygiene and Environmental Health (WaSH-E): Interventions

Regency Ballroom B - Ballroom Level (West Tower)
Saturday, October 21, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR
Drew Capone
Indiana University, Bloomington, IN, United States
Anna Nguyen
Stanford University, Stanford, CA, United States

8 a.m. 6512

MAPUTO SANITATION TRIAL 60-MONTH FOLLOW-UP ANTHROPOMETRIC MEASUREMENTS AND CHILD HEALTH
Erin Kowalsky[1], Drew Capone[2], Oliver Cumming[3], Márcia Chiluvane[4], Victória Cumbane Cumbane[5], David Holcomb[1], Amanda Lai[1], Yarrow Linden[1], Elly Mataveia Mataveia[5], Vanessa Monteiro[5], Gouthami Rao[1], Edna Viegas[5], Joe Brown[1]
[1]University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [2]Indiana University, Bloomington, IN, United States, [3]London School of Hygiene & Tropical Medicine, London, United Kingdom, [4]Instituto Nacional de Saúde, Mozambique, Maputpo, Mozambique, [5]Instituto Nacional de Saúde, Mozambique, Maputo, Mozambique

8:15 a.m. 6513

EFFECT OF A WATER, SANITATION AND HYGIENE PROGRAM ON HANDWASHING WITH SOAP AMONG DIARRHEA PATIENTS AND ATTENDANTS IN HEALTHCARE FACILITIES IN THE DEMOCRATIC REPUBLIC OF THE CONGO: A RANDOMIZED PILOT OF THE PICHA7 PROGRAM
Alain Mwishingo[1], Kelly Endres[2], Presence Sanvura[1], Jean-Claude Bisimwa[1], Lucien Bisimwa[1], Camille Williams[2], Jamie Perin[2], Justin Bengehya[1], Cirhuza Cikomola[1], Ghislain Maheshe[1], Christine Marie George[2]
[1]Université Catholique de Bukavu, Bukavu, Democratic Republic of the Congo, [2]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

8:30 a.m. 6514

THE LONG-TERM EFFECTS OF IMPROVED WATER, SANITATION, AND HYGIENE (WASH) AND IMPROVED COMPLEMENTARY FEEDING ON SCHOOL-AGE GROWTH AND DEVELOPMENT IN RURAL ZIMBABWE: FOLLOW-UP OF THE SHINE CLUSTER-RANDOMIZED TRIAL
Joseph Daniel Piper[1], Clever Mazhanga[2], Marian Mwapaura[2], Idah Mapurisa[2], Gloria Mapako[2], Tsitsi Mashedze[2], Eunice Munyama[2], Maria Kuona[2], Thomizodwa Mashiri[2], Kundai Sibanda[2], Dzidzai Matemavi[2], Monica Tichagwa[2], Soneni Nyoni[2], Asinje Saidi[2], Mwanasa Mangwende[2], Dzvaidzo Chidhanguro[2], Eddington Mpofu[2], Joice Tome[2], Batsirai Mutasa[2], Bernard Chasekwa[2], Melanie Smuk[1], Laura Smith[2], Virginia Sauramba[2], Lisa Langhaug[2], Naume Tavengwa[2], Melissa Gladstone[3], Jonathan Wells[4], Elizabeth Allen[5], SHINE Follow-up trial Team[2], Jean Humphrey[6], Robert Ntozini[2], Andrew Prendergast[1]
[1]Queen Mary University of London, LONDON, United Kingdom, [2]Zvitambo Institute of Maternal and Child Health Research, Harare, Zimbabwe, [3]University of Liverpool, Liverpool, United Kingdom, [4]UCL Institute of Child Health, LONDON, United Kingdom, [5]London School of Hygiene & Tropical Medicine, LONDON, United Kingdom, [6]Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD, United States

8:45 a.m. 6515

SURPRISE SOAP: EFFECT OF A NOVEL HYGIENE INTERVENTION ON OLDER CHILDREN'S HANDWASHING IN COMPLEX HUMANITARIAN SETTINGS: RESULTS OF TWO CLUSTER-RANDOMIZED CONTROLLED EQUIVALENCE TRIALS

Julie Watson[1], Claudio Deola[2], Mohamed Abji Haji[3], Mohamed Rashid Sheikh[3], Feysal Abdisalan Mohamud[3], Salman Yasin Ali[3], Ibtihal Osman[4], Maud Akissi Amon-Tanoh[1], Amy MacDougall[1], Oliver Cumming[1]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]Save the Children International, London, United Kingdom, [3]Action Against Hunger, Mogadishu, Somalia, [4]Care International, Khartoum, Sudan

9 a.m. 6516

EFFECTIVENESS OF SEWAGE INTERVENTION ON LEPTOSPIRA TRANSMISSION AMONG RESIDENTS OF URBAN INFORMAL SETTLEMENTS

Fábio N. Souza[1], Freya Clark[2], Max T. Eyre[3], Juliet O. Santana[4], Nivison Nery[4], Fabiana A. Palma[4], Daiana Oliveira[1], Jaqueline S. Cruz[5], Mitermayer G. Reis[5], Emanuele Giorgi[2], Cleber Cremonese[1], Albert I. Ko[6], Federico Costa[1]
[1]Institute Collective Health, Federal University of Bahia, Salvador, Brazil, [2]Centre for Health Informatics, Computing, and Statistics, Lancaster University Medical School Lancaster, Lancaster, United Kingdom, [3]London School of Hygiene & Tropical Medicine, London, United Kingdom, [4]Institute Collective Health,Federal University of Bahia, Salvador, Brazil, [5]Instituto Gonçalo Moniz, Fundação Oswaldo Cruz, Salvador, Brazil, [6]Department of Epidemiology of Microbial Diseases, Yale School of Public Health, New Haven, CT, United States

9:15 a.m. 6517

IMPACT OF THE WASH IN SCHOOLS FOR EVERYONE (WISE) PROGRAMME ON CHILD HEALTH AND SCHOOL ATTENDANCE IN ADDIS ABABA, ETHIOPIA: A CLUSTER-RANDOMISED CONTROLLED TRIAL

Sarah Bick[1], Charles Opondo[1], Baptiste Leurent[2], Oliver Cumming[1], Alem Ezezew[3], Elizabeth Allen[1], Robert Dreibelbis[1]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]University College London, London, United Kingdom, [3]Holster International Research and Development Consultancy, Addis Ababa, Ethiopia

9:30 a.m. 6518

PROCESS EVALUATION OF THE PREVENTATIVE INTERVENTION FOR CHOLERA FOR 7 DAYS (PICHA7) WATER, SANITATION AND HYGIENE MOBILE HEALTH PROGRAM

Presence Sanvura[1], Kelly Endres[2], Jean-Claude Bisimwa[1], Alain Mwishingo[1], Lucien Bisimwa[1], Camille Williams[2], Jamie Perin[2], Justin Bengehya[1], Cirhuza Cikomola[1], Ghislain Maheshe[1], Christine Marie George[2]
[1]Université Catholique de Bukavu, Bukavu, Democratic Republic of the Congo, [2]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

Scientific Session 113

Ectoparasite-Borne Diseases II

Regency Ballroom C - Ballroom Level (West Tower)

Saturday, October 21, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR

Adélaïde Miarinjara
Emory University, Atlanta, GA, United States

Holly Tuten
University of Illinois Urbana-Champaign, Champaign, IL, United States

8 a.m. 6519

BACTERIAL ZOONOSES DETECTED BY 16S RRNA METAGENOMICS AMONG FEBRILE ADMISSIONS IN KILIMANJARO, TANZANIA, 2007-2009

Robert J. Rolfe, Jr[1], Matthew P. Rubach[1], Venance P. Maro[2], Grace Kinabo[2], Wilbrod Saganda[3], Jeannine M. Petersen[4], Luke C. Kingry[4], Sarah Sheldon[4], John A. Crump[5]
[1]Duke University, Durham, NC, United States, [2]Kilimanjaro Christian Medical Centre, Moshi, United Republic of Tanzania, [3]Mawenzi Regional Referral Hospital, Moshi, United Republic of Tanzania, [4]Bacterial Diseases Branch, Division of Vector-Borne Diseases, Centers for Disease Control and Prevention, Fort Collins, CO, United States, [5]Centre for International Health, University of Otago, Denedin, New Zealand

8:15 a.m. 6520

DETERMINING FLEA VECTOR SUSCEPTIBILITY TO INSECTICIDES AS PART OF PLAGUE RISK MONITORING IN MADAGASCAR

Mireille Harimalala[1], Soanandrasana Rahelinirina[2], Sarah Zohdy[3], Minoarisoa Rajerison[2], Romain Girod[1]
[1]Medical Entomology Unit, Institut Pasteur de Madagascar, Antananarivo, Madagascar, [2]Plague Unit, Institut Pasteur de Madagascar, Antananarivo, Madagascar, [3]US President's Malaria Initiative, Malaria Branch, US Centers for Disease Control and Prevention, Atlanta, GA, United States

8:30 a.m. 6521

RISK FACTORS ASSOCIATED WITH RURAL HOUSEHOLD FLEA INFESTATIONS IN THE PLAGUE ENDEMIC AREA OF MADAGASCAR

Adélaïde Miarinjara[1], Annick O. Raveloson[2], Stephen G. Mugel[1], Nick An[1], Andry Andriamiadanarivo[3], Romain Girod[2], Thomas R. Gillespie[1]
[1]Emory University, Atlanta, GA, United States, [2]Institut Pasteur de Madagascar, Antananarivo, Madagascar, [3]Centre ValBio Ranomafana, Ranomafana, Madagascar

8:45 a.m. 6522

SURVEILLANCE FOR METASTRIATE TICKS AND SPOTTED FEVER GROUP RICKETTSIOSES IN SOUTHERN ILLINOIS

Victoria Phillips[1], Matt Flenniken[1], Levi Mick[1], Leta Chesser[1], Edna Alfaro[1], Chang-Hyun Kim[1], April Holmes[2], Samantha Kerr[2], Holly Gaff[3], Brian Allan[1], Chris Stone[1], **Holly Tuten**[1]
[1]University of Illinois Urbana-Champaign, Champaign, IL, United States, [2]Illinois Department of Public Health, Springfield, IL, United States, [3]Old Dominion University, Norfolk, VA, United States

9 a.m. 6523

SEROLOGIC TESTING FOR THE DIAGNOSIS OF BARTONELLA INFECTIONS IN PATIENTS IN MARYLAND

Kristin E. Mullins, Robert H. Christenson
University of Maryland School of Medicine, Baltimore, MD, United States

9:15 a.m. 6524

MOLECULAR SURVEY OF ANAPLASMATACEAE AGENTS AND BARTONELLA SPP IN COATISNASUA NASUA FROM URBAN FORESTED AREAS IN BRAZIL

Lívia Perles[1], Wanessa Barreto[2], Gabriel de Macedo[3], Heitor Herrera[3], Rosangela Machado[1], **Marcos Rogério André**[1]
[1]Universidade Estadual Paulista (UNESP), Jaboticabal, Brazil, [2]Universidade Federal do Mato Grosso do Sul, Campo Grande, Brazil, [3]Universidade Católica Dom Bosco, Campo Grande, Brazil

9:30 a.m. 6525

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

Oliver A. Bocanegra[1], Cusi Ferradas[1], Winnie Contreras[1], Diana León-Luna[1], Andres M. Lopez[2], Raul Bello[3], Andres G. Lescano[1]
[1]Emerge, Emerging Diseases and Climate Change Research Unit, School of Public Health and Administration, Universidad Peruana Cayetano Heredia, Lima, Peru, [2]Department of Medicine and Epidemiology, School of Veterinary Medicine, University of California, Davis, CA, United States, [3]Kawsay Biological Station, Puerto Maldonado, Peru

Symposium 114

The Many Paths to *P. falciparum* Artemisinin Resistance: Lessons Learned from Asia with Implications for Africa

Regency Ballroom D - Ballroom Level (West Tower)
Saturday, October 21, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

The emergence of resistance to the artemisinin derivatives and their partner drugs threatens recent progress toward regional malaria elimination and eventual global malaria eradication. In the 15 years since artemisinin resistance was first reported in the Greater Mekong Subregion, substantial progress has been made in understanding the molecular mechanisms underlying resistance and its emergence and spread through populations. Prior studies have identified multiple genomic regions and differentially expressed genes associated with artemisinin resistance phenotypes, and forward genetic screens continue to provide insights into the function and biological relevance of these genes. These studies have indicated that artemisinin resistance is a multigenic trait, with multiple biological processes contributing to parasite resistance to artemisinin-induced damage and/or the fitness of resistant parasites. A recent meta-analysis of population genomic and transcriptomic studies indicated an enrichment of predicted favored mutations in genes encoding products involved in endocytosis, vesicular trafficking, oxidative stress response, DNA repair and host cell remodeling. Transcriptomic studies have observed similar enriched functions with 156 differentially expressed genes defining the Artemisinin Resistance Transcriptional Profile (ARTP) in Southeast Asian parasites. Functional studies have also implicated altered isoprenoid biosynthesis, RNA processing, DNA repair, and mitochondrial processes in artemisinin resistance, and have identified links between artemisinin resistance and increased gametocytogenesis, potentially facilitating resistance spread by providing a transmission advantage to resistant parasites. With the emergence of artemisinin resistance in areas of sub-Saharan Africa, it is critical to consider how our increased understanding of artemisinin resistance can be leveraged to monitor and control the emergence and spread of resistance in these high malaria burden areas. In this symposium, we will discuss new insights into the contribution of transcriptional regulation to artemisinin resistance, the relationship between artemisinin susceptibility and gametocytogenesis, genomic surveillance approaches that account for the multigenic mechanisms of resistance, and the implications of these findings for efforts to counter resistance in high-burden African settings.

CHAIR
John H. Adams
University of South Florida, Tampa, FL, United States
Zbynek Bozdech
Nanyang Technological University, Singapore, Singapore

8 a.m.
INTRODUCTION

8:10 a.m.
CONTRIBUTION OF EPIGENETICS AND TRANSCRIPTIONAL REGULATION TO ARTEMISININ RESISTANCE
Zbynek Bozdech
Nanyang Technological University, Singapore, Singapore

8:30 a.m.
FORWARD GENETIC SCREENS OF *P. FALCIPARUM* MUTANT LIBRARIES LINK THE GENETIC BASIS OF ARTEMISININ SENSITIVITY TO INCREASED GAMETOCYTOGENESIS
Camilla V. Pires
University of South Florida, Tampa, FL, United States

8:45 a.m.
A GENETIC LINK BETWEEN MALARIA TRANSMISSION AND ARTEMISININ RESISTANCE
Lauriane Sollelis
University of Zurich, Zurich, Switzerland

9 a.m.
IMPLICATIONS OF THE MULTIGENIC MECHANISM OF ARTEMISININ RESISTANCE FOR GENOMIC SURVEILLANCE: MOVING BEYOND A CANDIDATE GENE APPROACH
Shannon Takala Harrison
University of Maryland School of Medicine, Baltimore, MD, United States

9:15 a.m.
MECHANISMS OF ARTEMISININ RESISTANCE EMERGENCE AND SPREAD: IMPLICATIONS FOR MONITORING AND COUNTERING RESISTANCE IN AFRICA
Abdoulaye Djimde
University of Bamako, Bamako, Mali

Exhibit Hall Open

Riverside Center - Exhibit Level (East Tower)
Saturday, October 21, 9:30 a.m. - 10:30 a.m. U.S. Central Time Zone

Coffee Break

Riverside Center - Exhibit Level (East Tower)
Saturday, October 21, 9:45 a.m. - 10:15 a.m. U.S. Central Time Zone

Poster Session C Set-Up

Riverside Center - Exhibit Level (East Tower) and Grand Hall GHI – Ballroom Level (East Tower)
Saturday, October 21, 9:45 a.m. - 10:15 a.m.

Poster Session C Viewing

Riverside Center - Exhibit Level (East Tower) and Grand Hall GHI – Ballroom Level (East Tower)
Saturday, October 21, 10:15 a.m. – 11 a.m.

Plenary Session 115

LIVE STREAMING

Plenary Session IV: Presidents' Address: A Forward Look from the Society's Present and Past Presidents

Grand Ballroom CDEF - Ballroom Level (East Tower)
Saturday, October 21, 10:15 a.m. - 11 a.m. U.S. Central Time Zone

This session does not carry CME credit.

Each year at the ASTMH Annual Meeting, the President addresses Society members with an update and reflections. This year, however, we will broaden the format and outlook by calling on the wisdom of the ages: Current President Daniel Bausch will bring to the stage a group of ASTMH Past Presidents and lead an informal discussion on the state of the world of tropical medicine and global health. Don't miss this opportunity to hear this illustrious group of leaders from diverse disciplines discuss the challenges and opportunities facing our planet and Society, and the Society's role in meeting them.

CHAIR
Daniel G. Bausch
FIND, Geneva, Switzerland

10:15 a.m.
MODERATOR
Daniel G. Bausch
FIND, Geneva, Switzerland

PANEL

Past President (2021)
Julie Jacobson
Bridges to Development, Seattle, WA, United States

Past President (2019)
Chandy John
Indiana University, Indianapolis, IN, United States

Past President (2012)
James Kazura
Case Western Reserve University, Cleveland, OH, United States

Past President (2018)
Regina Rabinovich
Harvard T.H. Chan School of Public Health/ISGlobal, Boston, MA, United States

Past President (2013)
David Walker
Department of Pathology, University of Texas Medical Branch at Galveston, Galveston, TX, United States

Exhibit Hall Open (Light Lunch)

Riverside Center - Exhibit Level (East Tower)
Saturday, October 21, 11 a.m. - 12:30 p.m.

Poster Session 116

Poster Session C Presentations

Riverside Center - Exhibit Level (East Tower) and Grand Hall GHI – Ballroom Level (East Tower)
Saturday, October 21, 11 a.m. - 12:45 p.m. U.S. Central Time Zone

Poster Session C Directory

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

6526

BIOMETRICS DATA COLLECTION FOR TRACHOMATOUS TRICHIASIS (TT) SURGERY PROGRAM IN OROMIA, SNNP AND SIDAMA REGIONS, ETHIOPIA: LESSONS LEARNT

Nigusie Fetene, Dawit Seyum Buda, Belay Bayissasse, Mulatu Gebre, Getachew Mekonnen, Doris Macharia, Alemayehu Sisay
Orbis, Addis Ababa, Ethiopia

6527

SPATIAL VARIATION IN HOUSING CONSTRUCTION MATERIAL IN LOW- AND MIDDLE-INCOME COUNTRIES: A BAYESIAN PREDICTION MODEL OF A KEY INFECTIOUS DISEASES RISK FACTOR AND SOCIAL DETERMINANT OF HEALTH

Josh Michael Colston[1], Bin Fang[2], Margaret Kosek[1], Venkataraman Lakshmi[2]
[1]University of Virginia School of Medicine, Charlottesville, VA, United States, [2]University of Virginia, Charlottesville, VA, United States

6528

USE OF MATHEMATICAL MODELING TO INFORM INSECTICIDE-TREATED BEDNET DISTRIBUTION CAMPAIGNS: A HAITIAN CASE STUDY

Billy Bauzile[1], Clara Champagne[1], Punam Amratia[2], Ewan Cameron[2], Peter Gething[2], Nick Ruktanonchai[3], Marc A. Telfort[4], Valerian Turbé[5], Justin T. Lana[6], Emilie Pothin[1]
[1]Swiss Tropical and Public Health Institute, Allschwil, Switzerland, [2]Malaria Atlas Project, Telethon kids Institute, Perth Children's Hospital, Perth, Australia, [3]Virginia Tech, Blacksburg, Virginia, VA, United States, [4]Programme National de Contrôle de la Malaria, Ministère de la Santé Publique et de la Population, Port-au-Prince, Haiti, [5]Clinton Health Access Initiative, Port-au-Prince, Haiti, [6]Clinton Health Access Initiative, Panama, Panama

6529

NET WORTH: A MODELING EXPLORATION OF COST AND COST-EFFECTIVENESS IN INSECTICIDE-TREATED NET INTERVENTIONS

Amelia Bertozzi-Villa, Daniel Bridenbecker, Caitlin Bever
Institute for Disease Modeling, Seattle, WA, United States

6530

MULTIFACETED INTERVENTIONS FOR UNINTERRUPTED MALARIA COMMODITIES: LESSONS FROM MALAWI

Daniel Taddesse[1], Elias Mwalabu[1], Fikadu Deme[1], Lumbani Makwakwa[2], Charles Nzawa[1], Lumbani Munthali,[3]
[1]USAID Global Health Supply Chain Program-Procurement and Supply Management (GHSC-PSM) project., Washington DC, DC, United States, [2]USAID, Washington DC, DC, United States, [3]Ministry of Health Malawi, Lilongwe, Malawi

6531

MULTI-OBJECTIVE CALIBRATION OF THE AGENT-BASED MALARIA TRANSMISSION MODEL, EMOD, TO SYMPTOM, PARASITE, GAMETOCYTE, AND MOSQUITO INFECTION DATA FROM A TRIAL OF ASYMPTOMATIC SCREENING IN SAPONE, BURKINA FASO

Tobias M. Holden[1], Katharine A. Collins[2], Teun Bousema[2], Chris Drakeley[3], Aurélien Cavelan[4], Melissa Penny[4], Anne Stahlfeld[1], Manuela Runge[1], Jaline Gerardin[1]
[1]Northwestern University, Chicago, IL, United States, [2]Radboud University Medical Center, Nijmegen, Netherlands, [3]London School of Tropical Medicine and Hygiene, London, United Kingdom, [4]Swiss Tropical and Public Health Institute, Allschwil, Switzerland

6532

IMPLEMENTING A LARGE-SCALE COMMUNITY DIGITAL HEALTH PLATFORM IN MOZAMBIQUE: LESSONS LEARNT FROM UPSCALE

Maria Rodrigues
Malaria Consortium, MAPUTO, Mozambique

6533

PREDICTIVE MODEL FOR REAL WORLDPERFORMANCE OF RAPID ANTIGEN TESTS BASED ON LABORATORY EVALUATION

Irene Bosch, Miguel Bosch, Dawlyn Garcia, Lindsey Rudtner, Nol Salcedo, Sina Hoche, Jose G Arocha, Helena de Puig, Helena del Corral, Lee Gehrke, Alfred Harding, Laura Holberger
IDX20 Inc., Boston, MA, United States

6534

EVALUATING A DHIS2 BASED PLATFORM FOR REAL TIME MONITORING OF MASS DRUG ADMINISTRATION OF NEGLECTED TROPICAL DISEASES MEDICINES: LEARNINGS FROM NIGERIA

Martins Imhansoloeva[1], Christian Nwosu[1], Ruth Dixon[2], Omosefe Osinoiki[1], Chukwuma Anyaike[3], Perpetua Amodu-Agbi[3], Ununumah Egbelu[3], Richard Selby[4], Sarah Bartlett[4], Sunday Isiyaku[4]
[1]Sightsavers, Abuja, Nigeria, [2]Technopolis, Brighton, United Kingdom, [3]Federal Ministry of Health, Abuja, Nigeria, [4]Sightsavers, Haywards Heath, United Kingdom

6535

A PROBABILISTIC FRAMEWORK OF MALARIA EPIDEMIOLOGY USING AGE OF INFECTION

John M. Henry[1], Austin R. Carter[1], Juliet N. Nsumba[2], Doreen M. Ssebuliba[2], David L. Smith[1]
[1]University of Washington, Seattle, WA, United States, [2]Makerere University, Kampala, Uganda

6536

DENGUE--AN EMERGING THREAT WORLDWIDE: A MATHEMATICAL MODEL EXPLORING GLOBAL RELATIVE RISK USING CLIMATIC, GEOLOCALIZED ECONOMIC, AND VECTOR DISTRIBUTION DATA

Amber F. Britt, Sina Mokhtar, Rebecca Fischer, Patrick Tarwater, Angela Clendenin, Martial Ndeffo-Mbah
Texas A&M, College Station, TX, United States

6537

THE SINGLE PATCH *PLASMODIUM FALCIPARUM* (SPPF) APPLICATION - A TOOL FOR MALARIA MODELLING IN LMIC

Sheetal P. Silal
Modelling and Simulation Hub, Africa (MASHA), University of Cape Town, Cape Town, South Africa

6538

HEALTH: RADAR - A PROJECT FOR BETTER CLIMATE SENSITIVE INFECTIOUS DISEASE MODELS IN THE GLOBAL SOUTH

Jared M. Norman[1], Christopher Lennard[2], Sadiq Wanjala[3], Rajendra Maharaj[4], Sheetal P. Silal[1]
[1]Modelling and Simulation Hub, Africa (MASHA), University of Cape Town, Cape Town, South Africa, [2]Climate Systems Analysis Group, University of Cape Town, Cape Town, South Africa, [3]Clinton Health Access Initiative, South Africa Office, Cape Town, South Africa, [4]South African Medical Research Council, Durban, South Africa

6539

A PREDICTIVE MODEL FOR NON-INVASIVE ANEMIA DIAGNOSIS

Jia Ying Jennifer Teo[1], Sophie Wu[2], Kartik Pejavara[3], Dominic Garrity[4], Adam Wax[2], Nirmish Shah[5]
[1]Duke University School of Medicine, Durham, NC, United States, [2]Department of Biomedical Engineering, Duke University, Durham, NC, United States, [3]Department of Computer Science, Duke University, Durham, NC, United States, [4]Global Alliance for Medical Innovation, Boston, MA, United States, [5]Department of Medicine, Duke University Medical Center, Durham, NC, United States

6540

IMPACT OF GOVERNMENT-REGULATED LOCKDOWNS DURING THE COVID-19 PANDEMIC ON ACCESS TO MENTAL HEALTH SERVICES THROUGH A TERTIARY PSYCHIATRIC CARE FACILITY AND THE NATIONAL MENTAL HEALTH CALL HELPLINE IN SRI LANKA

Madhubhashinee Dayabandara[1], **Chaminda Prasad Gigummaduwa Liyanage**[2], Pushpa Ranasinghe[3], Dhammika Wijesinghe[3], Charith Pathirana[3], Suhashini Ratnatunga[1], Shenal Madhushan[1], Yasasvi Dewasirinarayana[1], Kasuni Hasintha[1], Dharani Rajahewa[1], Shakthi Wijesekara[1], Ayodya Amarasinghe[1], Joacim Rocklöv[4], Yesim Tozan[2]
[1]Department of Psychiatry, Faculty of Medicine, University of Colombo, Colombo, Sri Lanka, [2]School of Global Public Health, New York University, New York, NY, United States, [3]National Institute of Mental Health, Angoda, Sri Lanka, [4]Heidelberg Institute of Global Health & the Interdisciplinary Center for Scientific Computing, University of Heidelberg, Heidelberg, Germany

6541

CREATING A DATA LIBRARY USING PUBLICLY AVAILABLE RESEARCH DATA ON NEGLECTED AND EMERGING INFECTIOUS DISEASES

Michael Anthony Vizcaino
CUNY SPH, Manhattan, NY, United States

6542

FEASIBILITY AND ACCEPTABILITY OF MOBILE TECHNOLOGY TO IMPROVE ONE HEALTH OUTBREAK REPORTING IN BWINDI, UGANDA

Julia Lippert[1], Nahabwe Haven[2], Scott Kellermann[2], Latha Rajan[1], Tierra Smiley Evans[3]
[1]Tulane University School of Public Health and Tropical Medicine, New Orleans, LA, United States, [2]Bwindi Community Hospital, Buhoma, Uganda, [3]One Health Institute, UC Davis, Davis, CA, United States

6543

TRANSFERRING HEALTHCARE DIAGNOSTIC PRODUCT TECHNOLOGY TO THE POINT-OF-CARE IN LOW- AND MIDDLE-INCOME COUNTRIES

Sally M. McFall[1], Robert L. Murphy[3], **Chad J. Achenbach**[3], Kara M. Palamountain[2], Mamoudou Maiga[3], Matthew R. Glucksberg[2], Lesley Scott[4], Grant Theron[5], Thomas Franz[6], Eligius Lyamuya[7], Akinniyi Osuntoki[8], Akinwale Coker[9], Oche Agbaji[10], Seydi Moussa[11], Almoustapha Maiga[12]
[4]Biomedical Engineering, [1]Northwestern University, Evanston, IL, United States, [2]Northwestern University, Chicago, IL, United States, [3]University of the Witwatersrand, Johannesburg, South Africa, [4]Stellenbosch University, Cape Town, South Africa, [5]University of Cape Town, Cape Town, South Africa, [6]Muhimbili University, Dar es Salaam, United Republic of Tanzania, [7]University of Lagos, Lagos, Nigeria, [8]University of Ibadan, Ibadan, Nigeria, [9]University of Jos, Jos, Nigeria, [10]Université Cheikh Anta Diop, Dakar, Senegal, [11]University Of Science Of Technical And Technology De Bamako, Bamako, Mali

Global Health - Other

6544

CLOSE ENCOUNTERS OF THE ENVENOMATING KIND: MISSIONARIES, INSECTS, AND SNAKES DURING THE SCRAMBLE FOR AFRICA, 1885 - 1914

David P. Adams[1], Michael Kent[2]
[1]National University of Ireland-Galway, Galway, Ireland, [2]Point University, Savannah, GA, United States

6545

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

Gwen Lemey[1], Ynke Larivière[1], Trésor Zola[2], Solange Milolo[2], Engbu Danoff[2], Emmanuel Esanga[2], Junior Matangila[2], Raffaella Ravinetto[3], Jean-Pierre Van geertruyden[1], Vivi Maketa[2], Patrick Mitashi[2], Pierre Van Damme[1], Hypolite Muhindo Mavoko[2]
[1]University of Antwerp, Antwerp, Belgium, [2]University of Kinshasa, Kinshasa, Democratic Republic of the Congo, [3]Institute of Tropical Medicine, Antwerp, Belgium

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THE SOUTH AND SOUTHEAST ASIAN COMMUNITY BASED TRIALS NETWORK (SEACTN)

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HOW DO SUBSTANDARD AND FALSIFIED ANTIMICROBIALS AFFECT THE EMERGENCE AND SPREAD OF ANTIMICROBIAL RESISTANCE?

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IMPROVING MALARIA COMMODITY ACCOUNTABILITY: - THE CASE OF MALAWI

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THE PLANETARY CHILD HEALTH AND ENTERICS OBSERVATORY (PLAN-EO): AN INTERDISCIPLINARY RESEARCH INITIATIVE AND WEB-BASED DASHBOARD FOR MAPPING ENTERIC INFECTIOUS DISEASES AND THEIR RISK FACTORS AND INTERVENTIONS IN LOW- AND MIDDLE-INCOME COUNTRIES

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ADAPTING TO CLIMATE CHANGE IN SUB-SAHARAN AFRICA, ONE MALARIA INTERVENTION AT A TIME

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MALARIA MANAGEMENT IN AN ERA OF CLIMATE CHANGE

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GLOBAL ARBOVIRUS INITIATIVE: TACKLING MOSQUITO BORNE VIRUSES WITH EPIDEMIC AND PANDEMIC POTENTIAL

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DESIGN AND STANDARDIZATION OF MOLECULAR SYSTEMS BASED ON CRISPR-CAS TECHNOLOGY FOR THE IDENTIFICATION OF GENES ASSOCIATED WITH ANTIBIOTIC RESISTANCE

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USE OF STOCHASTIC BRANCHING PROCESSES TO ESTIMATE THE EMERGENCE OF MPOX IN NORTH CAROLINA

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A FRAMEWORK FOR PATHOGEN SELECTION USING TAQMAN ARRAY CARDS FOR SURVEILLANCE OF ACUTE FEBRILE ILLNESS IN NIGERIA

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EVALUATION OF ENVIRONMENTAL POLIO SURVEILLANCE SYSTEM IN GREATER ACCRA REGION, GHANA, 2021

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ASSESSING REALIZED AND POTENTIAL NICHE OF PATHOGENS OF PUBLIC HEALTH IMPORTANCE TO DESIGN SURVEILLANCE TOOL FOR ACUTE FEBRILE ILLNESS IN NIGERIA

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Caitlin M. Wolfe, Lara Abou Ammar, Mohammed N. Slebei, Nashwan Saoor, Karwan Khuder, Farrah Ali, Tahsin Aziz, Catharina Chipman, Loubna Al Batlouni, Nellie Ghusayni
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SOCIODEMOGRAPHIC, CLINICAL & PROGRESSIVE PROFILE OF CHILDREN FROM 06 TO 59 MONTHS HOSPITALIZED FOR SEVERE ACUTE MALNUTRITION AT THE THE REGIONAL HOSPITAL OF BOUNDIALI.FROM JANUARY TO SEPTEMBER 2022

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COMPARISON OF PLAQUE REDUCTION NEUTRALIZATION TEST (PRNT) AND MULTIPLEX ARBOVIRUS IGG DETECTION TEST FOR DETECTION AND DIFFERENTIATION OF IGG RESPONSE TO ZIKV AND DENV

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ASSESSING KNOWLEDGE ABOUT TICKS AND TICK BORNE DISEASES AMONG INDIANA HEALTHCARE PROVIDERS AND EXTENSION PROFESSIONALS

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Lesley Bell-Sakyi, Jing J. Khoo, Catherine S. Hartley, Alistair C. Darby, **Ben L. Makepeace**
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(ACMCIP Abstract)

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IMPROVING DISTRIBUTION MODELS OF SPARSELY DOCUMENTED DISEASE VECTORS BY INCORPORATING INFORMATION ON RELATED SPECIES VIA JOINT MODELING

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EFFICACY OF A PERSONAL INSECT REPELLENT KIT PERIMETER CONFIGURATION AGAINSTIXODES SCAPULARISFEMALE TICKS IN AN ENCLOSED PEET GRADY-STYLE CHAMBER

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

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IMPACT OF ARBOVIRUS INFECTION ON THE HOST-SEEKING BEHAVIOUR OF *AEDES AEGYPTI* MOSQUITOES

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(ACMCIP Abstract)

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ANOPHELES STEPHENSI - SIGNIFICANCE OF ITS UBIQUITOUS PRESENCE IN URBAN AND RURAL SETTINGS; IMPACT ON VECTOR CONTROL AND MALARIA ELIMINATION IN INDIA

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ENTOMOLOGICAL SURVEILLANCE AND COMMUNITY KNOWLEDGE ON MOSQUITOES AND DENGUE RISK IN THE GALAPAGOS ISLANDS, ECUADOR

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Henry D. Mawejje, Brian K. Leetakubulidde, Maxwell Kilama, Francis Nyangabakye, Moses R. Kamya
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Cecilia Kalthoff, Zephyr Pitre, Tess Seltzer, Maria Benitez-Cortez, Conrad Yee, Elizabeth K.K. Glennon, Alexis Kaushansky
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ANTIBODY RESPONSE TO AEDES SPP. MOSQUITO SALIVARY PROTEINS AS A MARKER FOR EXPOSURE: A SYSTEMATIC REVIEW AND POOLED ANALYSIS

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HUMAN BEHAVIORAL DETERMINANTS OF RISK OF EXPOSURE TO *ANOPHELES* AMONG SEASONAL MIGRANT WORKERS AND RESIDENT POPULATIONS IN LOWLANDS AND THE GENERAL POPULATION IN THE HIGHLANDS, NORTHWEST ETHIOPIA

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CLOSE-KIN MARK-RECAPTURE METHODS TO ESTIMATE DEMOGRAPHIC AND DISPERSAL PARAMETERS OF MOSQUITOES

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ADVANCEMENTS OF ARTIFICIAL INTELLIGENCE (AI) IMAGE RECOGNITION FOR USE IN VECTOR SURVEILLANCE OPERATIONS

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Mosquitoes - Epidemiology and Vector Control

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EVALUATION OF MYRISTICA FRAGRANS ESSENTIAL OIL AS A POTENTIAL BIOPESTICIDE FOR THE CONTROL OF AEDES MOSQUITOES IN JAMAICA

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INTERIM EFFICACY REPORT OF ECO BIOTRAPS IN DHARAVI, MUMBAI, INDIA

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EVALUATION OF THE SYSTEMIC INSECTICIDAL EFFECTS OF IVERMECTIN TREATED CATTLE ON *AEDES AEGYPTI*, VECTOR OF ARBOVIRUSES

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UNLEASHING NATURE'S SECRET WEAPON: TACKLING MOSQUITO MENACE WITH STREPTOMYCES SP. KSF103

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METHODS USED FOR MALARIA AND MOSQUITO CONTROL AT THE HOUSEHOLD LEVEL IN TANZANIA. THE SCHOOL MALARIA AND NUTRITION SURVEY

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IMPACT OF CLIMATE VARIABILITY ON VECTOR-BORNE DISEASES (MALARIA)

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SPATIAL AND TEMPORAL DISTRIBUTION OF *ANOPHELES* SPECIES ACROSS THREE DIFFERENT ECOLOGICAL ZONES IN GHANA

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RELEVANT DENGUE TRANSMISSION RISK IN NON-HOUSEHOLD ENVIRONMENTS IN KENYAN CITIES CAN LEAD US TO RETHINK THE HOUSEHOLD AS THE FOCUS OF VECTOR CONTROL ACTIVITIES

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MEASURING THE LONG-TERM PUBLIC HEALTH IMPACT AFTER CITY-WIDE WMEL DEPLOYMENTS IN YOGYAKARTA

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MODELING THE EFFECTIVENESS OF ATTRACTIVE TARGETED SUGAR BAITS IN REDUCING CLINICAL MALARIA

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INSECTICIDE TREATED RESTING STATIONS REDUCE PARITY RATE OF THE ENZOOTIC MOSQUITO VECTOR OF EEE VIRUS, CULISETA MELANURA

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

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THE SPREAD OF CHIKUNGUNYA VECTORS: A POTENTIAL THREAT TO GLOBAL HEALTH

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HOST PREFERENCES OF *ANOPHELES GAMBIAE* S.L AND THEIR IMPLICATIONS FOR MALARIA TRANSMISSION IN FOUR (4) INDOOR RESIDUAL SPRAYING INTERVENTION DISTRICTS IN GHANA

Kwame Desewu, Nicholas Ato Egyir, Gilbert Dossah, Grace Oppong, Francis Ofori Amankwah, Joseph Mwinikubu Vulgate, Agyei Kumi, Matilda Kaabo, Ignatius Williams, Samuel Asiedu

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OPTIMAL CONTROL OF DENGUE WITH EXISTING AND FORTHCOMING INTERVENTIONS

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CHANGING ASSUMPTIONS ABOUT MOSQUITO HABITAT AVAILABILITY DRIVE VARIATION IN SEASONAL DENGUE DYNAMICS WHEN BEHAVIORAL CONTROL IS PRESENT

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INFLUENCE OF THERMAL AND INSECTICIDE GRADIENTS ON IMMATURE *AEDES AEGYPTI* PERFORMANCE

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FROM THE LAB TO THE FIELD: LONG-DISTANCE TRANSPORT OF STERILE MALE MOSQUITOES

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BACTERIAL COMMUNITIES ASSOCIATED WITH *ANOPHELES GAMBIAE* LARVAL HABITATS IN SOUTHERN GHANA.

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A VOLATILE PYRETHROID SPATIAL REPELLENT (VPSR) USING TRANSFLUTHRIN AS AN INTERVENTION FOR REDUCING OUTDOOR MALARIA TRANSMISSION

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EVIDENCE-BASED DESIGN OF ENHANCED VECTOR SURVEILLANCE FOR LARVAL SOURCE MANAGEMENT ON BIOKO ISLAND, EQUATORIAL GUINEA

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COMBINING A SCHOOL-BASED AND COMMUNITY-BASED EDUCATIONAL INTERVENTION IN URBAN KENYA FOR LARVAL SOURCE REDUCTION

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ADVANCEMENTS TOWARD COMMERCIAL-SCALE PRODUCTION OF YEAST RNAI INSECTICIDES FOR MOSQUITO CONTROL

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SHOULD WE BE SPRAYING 80% OF THE HOUSES? AN OPERATIONAL, CLUSTER RANDOMIZED TRIAL ON BIOKO ISLAND TESTING THE NON-INFERIORITY OF A LOWER COVERAGE

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CHARACTERIZATION OFANOPHELINES WARMS DURING THE DRY SEASON ALONG THE NIGER RIVER, MALI

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FORECASTING WEST NILE VIRUS WITH GRAPH NEURAL NETWORKS: HARNESSING SPATIAL DEPENDENCE INIRREGULARLY SAMPLED GEOSPATIAL DATA

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TARGETING OF VECTOR CONTROL INTERVENTIONS TO MOBILE, MIGRANT, ETHNIC, AND VULNERABLE POPULATIONS IN MALARIA ELIMINATION SETTINGS: A COMPARISON OF APPROACHES IN THE GREATER MEKONG SUBREGION AND MESOAMERICA REGION

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EFFECTIVENESS OF DUAL-ACTIVE INGREDIENT LONG-LASTING INSECTICIDAL NETS (LLINS) ON PRIMARY MALARIA VECTORS: A SECONDARY ANALYSIS OF A THREE-YEAR CLUSTER-RANDOMIZED CONTROLLED TRIAL IN RURAL TANZANIA

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Ectoparasite-Borne Disease - Other

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HOT SPOTS AND BLIND SPOTS - ESTABLISHING A SURVEILLANCE BASELINE FOR TICKS AND TICK-BORNE PATHOGENS OF WEST AFRICA FROM 1901 TO 2022

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SPOTLIGHT REPORT: TICK SURVEILLANCE IN NIGERIA

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SPOTLIGHT REPORT: TICKS AND TICK-BORNE DISEASE THREATS IN TUNISIA

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SUCCESSFUL BARTONELLA HENSELAE INFECTION BY AN INCIDENTAL VECTOR IN IMMUNOCOMPROMISED AND IMMUNOCOMPETENT MOUSE MODELS

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SPOTLIGHT REPORT: HISTORICAL RECORD OF TICK DIVERSITY IN ALGERIA

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SPOTLIGHT REPORT: TICKS AND TICK-BORNE DISEASES OF NIGER

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ECTOPARASITES OF DOGS IN RURAL GUATEMALA COMMUNITIES AND INFECTION WITH ZOONOTIC AGENTS

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ENHANCING EHRLICHIOSIS RISK DETERMINATION THROUGH THE SOUTHEASTERN TICK-BORNE EMERGENT PATHOGEN SURVEILLANCE (STEPS) PROGRAM IN TENNESSEE

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EFFECTIVENESS OF FLURALANER TREATMENT REGIMENS FOR THE CONTROL OF CANINE CHAGAS DISEASE. A MATHEMATICAL MODELING STUDY

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FLEA-BORNE PATHOGENS IN FLEAS FROM NATURALLY INFESTED DOGS AND CATS IN PRIVATE HOMES IN FLORIDA, USA

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MOLECULAR DETECTION OF YERSINIA PESTIS AND BARTONELLA SPP. IN RODENT FLEAS FROM PIURA, PERU

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Viruses - Emerging Viral Diseases

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CHARACTERIZATION OF EPSTEIN BARR VIRUS INFECTION IN TONSILS OF CHILDREN RESIDING IN MALARIA HOLOENDEMIC REGION OF WESTERN KENYA

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(ACMCIP Abstract)

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RECONCILIATION OF ADVERSE PREGNANCY OUTCOME RISKS BETWEEN FOUR ZIKA VIRUS COHORTS IN LATIN AMERICA

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EVALUATING BARRIERS AND FACILITATING FACTORS AROUND COVID-19 VACCINATION IN WESTERN UGANDA: A SURVEY OF COMMUNITY MEMBERS

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DEVELOPMENT OF A SURFACE PROTEIN-BASED MULTIPLEX IMMUNOASSAY FOR MPOX SEROLOGICAL TESTING AND SURVEILLANCE

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A SCOPING LITERATURE REVIEW OF GLOBAL DENGUE AGE-STRATIFIED SEROPREVALENCE: ESTIMATING DENGUE FORCE OF INFECTION IN ENDEMIC COUNTRIES

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DETERMINATION OF REQUIREMENTS TO ENSURE EFFECTIVE INACTIVATION OF POWASSAN VIRUS AS A SURROGATE BIOLOGICAL SELECT AGENTS AND TOXINS (BSAT)

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ASSOCIATION OF FOREST RELATED ACTIVITIES WITH MADARIAGA VIRUS INFECTION IN THE COMMUNITY OF ARUZA IN PANAMA

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DESCRIBING THE IMPLICATIONS OF TEMPERATURE ON THE TRANSMISSION POTENTIAL OF RIFT VALLEY FEVER VIRUS IN CULEX TARSALIS AND *AEDES AEGYPTI* MOSQUITOES

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PERSISTENCE OF VIRAL RNA IN HOSPITALIZED PATIENTS WITH LASSA FEVER IN LIBERIA

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SIGNIFICANT GAPS IN KNOWLEDGE AND ATTITUDES TOWARDS VACCINATION IN A HIGHLY AFFECTED POPULATION BY THE MONKEYPOX EPIDEMIC: CASE OF KUMBA HEALTH DISTRICT, CAMEROON, SEPTEMBER 2022

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EVALUATION OF THE LEVEL OF KNOWLEDGE, ATTITUDES, PRACTICES OF PREVENTIVE MEASURES AGAINST COVID 19 DISEASE AMONG MEDICAL STUDENTS AT THE UNIVERSITY OF HEALTH SCIENCES IN GABON

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SARS COV 2 SEROPREVALENCE AMONG INTERNATIONAL TRAVELERS FROM SELECTED DISTRICTS OF THE COPPERBELT PROVINCE OF ZAMBIA

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(ACMCIP Abstract)

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DEVELOPMENT AND VALIDATION OF A REAL TIME QPCR FOR YELLOW FEVER VIRUS DETECTION

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ENDEMIC VENEZUELAN EQUINE ENCEPHALITIS VIRUS ACTIVITY IN RURAL AND URBAN SETTINGS OF PANAMA

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Robin Nesbitt[1], John Rumunu[2], Vincent Kinya Asilaza[3], Priscillah Gitahi[3], Patrick Nkemenang[3], Melat Haile[4], Jetske Duncker[3], Zelie Antier[3], Etienne Gignoux[1], Manuel Albela[4], Primitive Gakima[4], Joseph F. Wamala[5], Kediende Chong[2], Catia M. Alvarez[6], Isabella Eckerle[6], Monica Rull[4], Iza Ciglenecki[4], **Andrew S. Azman**[7]
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DIAGNOSTIC ACCURACY OF THE ZIKV DETECT™ 2.0 IGM CAPTURE ELISA AND THE ZIKA IGM RAPID TEST PROTOTYPE FROM INBIOS INTERNATIONAL INC

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ANTIBODY DYNAMICS TO MPOX INFECTION AND MVA-BN VACCINATION

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SARS-COV-2 SEROPREVALENCE AND PREECLAMPSIA MARKERS AMONG UNVACCINATED MOZAMBICAN PREGNANT WOMEN WITH FETAL LOSS

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MORTALITY FROM CHRONIC HEPATITIS C IN BRAZIL ANALYSIS OF THE MULTIPLE CAUSES OF DEATH IN THE PERIOD 2000 TO 2019

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University of São Paulo, São Paulo, Brazil

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Moulaye Berthe, Mountaga Diallo, Yacouba Toloba, Mahamadou Diakite
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Diana Asandem[1], Philip S. Segbefia[2], Luttrodt Bentum-Enin[2], Rawdat Baba-Adam[2], Bright Asare[2], Frank Osei[2], Georgina Agyekum[2], Linda E. Amoah[2], Kwadwo A. Kusi[2], Joseph H.K Bonney[3]
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WHO ZIKV INDIVIDUAL PARTICIPANT DATA META-ANALYSIS: PRELIMINARY FINDINGS FROM A CONSORTIUM-WIDE INITIATIVE

Ronaldo Silva, ZIKV IPDMA Consortium
World Health Organization, Geneva, Switzerland

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PERSISTENT, CONSISTENT, AND NEGLECTED: INVESTIGATING THE GEOGRAPHIC CLUSTERING AND PREDICTORS OF LA CROSSE VIRUS DISEASE IN APPALACHIA

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SARSCOV2 INFECTION IN BROWN-HEADED SPIDER MONKEYS (ATELES FUSCICEPS) AT A WILDLIFE RESCUE CENTER ON THE COAST OF ECUADOR SOUTH AMERICA

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THE EFFECT OF PRIOR ZIKA VIRUS INFECTION ON MARKERS OF MALE FERTILITY

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SUPPORT OF SENTINEL SYNDROMIC SURVEILLANCE IN IMPROVING THE DETECTION OF RIFT VALLEY FEVER AND CRIMEAN CONGO HEMORRHAGIC FEVER VIRUSES IN HUMANS IN SENEGAL

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Mamadou Malado Jallow[1], Ndiendé Koba Ndiaye[1], Mamadou Aliou Barry[2], Amary Fall[1], Marie Pedepa Mendy[1], Sara Sy[1], Déborah Goudiaby[1], Mbayame Ndiaye Niang[1], Malick Fall[3], Ndongo Dia[1]
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WEST NILE VIRUS SEROPREVALENCE IN HUMANS LIVING IN THE TAMPA BAY REGION OF FLORIDA

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IDENTIFYING THE VERTEBRATE HOSTS WITH POSSIBLE ASSOCIATION TO JAPANESE ENCEPHALITIS VIRUS DISPERSAL IN NATURE BY BLOOD MEAL SOURCE IDENTIFICATION AND RNA VIROME DETERMINATION IN JAPANESE ENCEPHALITIS VIRUS VECTORS

Astri N. Faizah, Daisuke Kobayashi, Ryo Matsumura, Mamoru Watanabe, Yukiko Higa, Kyoko Sawabe, Haruhiko Isawa
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DENGUE VIRUS SURVEILLANCE IN *AEDES AEGYPTI*

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VIRSCAN SEROLOGICAL PROFILING OF THE PENAN TRIBE, AN INDIGENOUS GROUP IN SARAWAK, MALAYSIA

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SEROPREVALENCE OF ARBOVIRUSES IN SLOTHS FROM A RURAL ZONE WITH FAST URBANIZATION CLOSE TO PANAMA CITY

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WHEN CASE REPORTING BECOMES UNTENABLE: CAN SEWER NETWORKS TELL US WHERE COVID-19 TRANSMISSION OCCURS?

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Viruses - Immunology

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T-CELL RESPONSES AS CORRELATES OF DIFFERENT DISEASE OUTCOMES OF DENGUE VIRUS INFECTION

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METABOLIC SYNDROME CONTRIBUTES TO ENHANCED DISEASE SEVERITY FOLLOWING EMERGING VIRAL INFECTIONS

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ACUTE IMMUNOLOGICAL PROFILE AND PROGNOSTIC BIOMARKERS OF PERSISTENT JOINT PAIN IN THE CHIKUNGUNYA FEVER: A SYSTEMATIC REVIEW

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EBOV-SPECIFIC NEUTRALIZING ANTIBODY PERSISTS AT HIGH LEVELS IN EBOLAVIRUS DISEASE SURVIVORS TWO YEARS AFTER RESOLUTION OF DISEASE IN A SIERRA LEONEAN COHORT

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PREVALENCE OF DENGUE AND CHIKUNGUNYA ANTIBODIES AMONG CHILDREN IN GRENADA, WEST INDIES

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ANTIBODY INDUCED RESPONSE AGAINST SARS-COV-2 OMICRON SUBLINEAGES IN A COHORT VACCINATED WITH CORONAVAC FOLLOWED BY A TWO BOOSTER DOSES PROTOCOL WITH BNT162B2 AND AD26.COV2.S

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ENGINEERING THE SURFACE OF DENGUE VIRUS 2 ENVELOPE PROTEIN TO SELECTIVELY ELICIT DIMER-SPECIFIC ANTIBODIES

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CHARACTERIZING THE IMMUNE RESPONSE TO ZIKA VIRUS USING EPITOPE MAPPING, REPORTER VIRUS PARTICLES, AND ANTI-ZIKV ANTIBODIES

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COMPREHENSIVE MUTAGENESIS OF DENGUE VIRUS ENVELOPE PROTEINS TO MAP ANTIBODY EPITOPES AND IDENTIFY RESIDES ESSENTIAL FOR FUNCTION

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IMMUNOLOGICAL INSIGHTS FROM EPITOPE MAPPING ON THE CHIKUNGUNYA VIRUS ENVELOPE

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COMPARISON OF TRADITIONAL PLAQUE ASSAY TO IMMUNOFOCUS ASSAY FOR QUANTIFICATION OF CLINICAL (WILD-TYPE) YELLOW FEVER VIRUSES

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A PANEL OF WILD-TYPE YELLOW FEVER VIRUSES REVEAL NEW INSIGHTS INTO THE POTENCY AND BREADTH OF 17D-ELICITED NEUTRALIZING ANTIBODIES IN A VACCINATED COHORT

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CHARACTERIZATION OF MBC-DERIVED MABS FROM AN INDIVIDUAL WITH SEQUENTIAL DENGUE AND ZIKA VIRUS INFECTIONS

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TARGETS OF DENGUE CROSS-NEUTRALIZING POLYCLONAL SERA

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DETERMINANTS OF IMMUNIZATION IN POLIO SUPER HIGH-RISK UNION COUNCILS OF PAKISTAN

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Viruses - Transmission Biology

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IDENTIFYING SOURCES OF HEPATITIS E VIRUS TRANSMISSION DURING OUTBREAKS THROUGH MODEL-DRIVEN ESTIMATION

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ALTERNATIVE MODALITIES AMPLIFYING TRANSMISSION OF EASTERN EQUINE ENCEPHALITIS VIRUS IN AVIAN HOSTS, THE FACTS ARE IN THE FECES

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MUTATIONS OF THE FLAVIVIRUS CONSERVED RESIDUES IN THE ENVELOPE PROTEIN DOMAIN I-DOMAIN III LINKER ATTENUATE THE MOUSE NEUROINVASIVE PHENOTYPE OF WEST NILE VIRUS

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INFLUENCE OF BREEDING SITES MICROBIOTA AND NUTRIMENT CONTENT ON *AEDES AEGYPTI* MICROBIOTA AND VECTOR COMPETENCE FOR ARBOVIRUSES

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THE EFFECT OF ENVIRONMENTAL TEMPERATURE ON TRANSMISSION DYNAMICS AND VIRAL GENETICS AMONG CULEX TARSALIS MOSQUITOES INFECTED WITH RIFT VALLEY FEVER VIRUS (RVFV)

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VECTOR COMPETENCE OF *AEDES AEGYPTI* TO DENGUE SEROTYPES TWO AND THREE IN AYAWASO WEST DISTRICT IN GHANA

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CELLULAR MECHANISMS INVOLVED IN THE VIRAL INTERFERENCE OF INFECTION BETWEEN DENGUE AND YELLOW FEVER VIRUSES IN AEDES MOSQUITO CELLS

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AEDES AEGYPTI MOSQUITO BITES ENHANCE INFECTION OF MYELOID CELLS WITH DENGUE VIRUS IN HUMAN SKIN

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VECTOR COMPETENCE OF US BORDER AE. AEGYPTI MOSQUITOES FOR DENGUE VIRUS SEROTYPE 1 ISOLATED FROM A MEXICO BORDER COMMUNITY

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EXPLORING POSSIBILITIES FOR BUNYAMWERA VIRUS MAINTENANCE CYCLE TRANSMISSION

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Viruses - Vaccine Clinical Trials

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EFFICACY AND SAFETY OF AN INACTIVATED WHOLE-VIRION SARS-COV-2 VACCINE (CORONAVAC) IN BRAZILIAN HEALTHCARE PROFESSIONALS: THE PROFISCOV STUDY

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PRIOR VACCINATION ALTERS THE DYNAMICS OF THE EVOLVING T CELL RESPONSE IN HUMANS UNDERGOING CONTROLLED CHALLENGE WITH DENGUE VIRUS 1

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

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DURABLE B AND T CELL IMMUNITY 10 YEARS AFTER DENGUE VACCINATION OF FLAVI-NAIVE PEOPLE

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

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THE IMMUNOGENICITY OF A TETRAVALENT LIVE DENGUE VACCINE (DENGVAXIA) ADMINISTERED TO CHILDREN IN THE PHILIPPINES WITH BASELINE IMMUNITY TO ONE DENGUE VIRUS SEROTYPE

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CHARACTERISING THE IMMUNOGENICITY AND EFFICACY OF SECOND-GENERATION DENGUE VACCINE

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SAFETY AND IMMUNOGENICITY OF A 40 MG ADJUVANTED DOSE OF A CHIKUNGUNYA VIRUS VIRUS-LIKE PARTICLE (CHIKV VLP) VACCINE: RESULTS FROM THREE PHASE 2 CLINICAL TRIALS

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Malaria - Antimalarial Resistance and Chemotherapy

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IN VIVO EFFICACITY OF SULFADOXINE PYRIMETHAMINE IN PREGNANT WOMEN INFECTED WITH *PLASMODIUM FALCIPARUM* IN MALI

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TRANSCRIPTOMIC APPROACH TOWARDS UNDERSTANDING THE MOLECULAR MECHANISMS OF IMIDAZOLOPIPERAZINE (IPZ) IN THE MALARIA PARASITE *PLASMODIUM FALCIPARUM*

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INVESTIGATION OF MARKERS OF ARTEMISININ RESISTANCE AT SELECTED INTERVALS DURING THE 72-HOUR PERIOD AFTER ARTEMISININ BASED COMBINATION THERAPY DOSING IN KISUMU WESTERN KENYA

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INSIGHTS INTO THE EMERGENCE OF THE 431V RESISTANCE MUTATION IN *PLASMODIUM FALCIPARUM*; LINKAGE WITH A NOVEL INTRON MUTATION

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MALARIA PREVALENCE, TRANSMISSION POTENTIAL AND EFFICACY OF ARTEMISININ COMBINATION THERAPY IN THE KENYAN CENTRAL HIGHLANDS - AN EMERGING ZONE PREVIOUSLY CHARACTERIZED AS MALARIA FREE

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THERE IS NO TIME TO WASTE - WE NEED TO UNDERSTAND THE PROPHYLACTIC ACTION OF SULFADOXINE-PYRIMETHAMINE AGAINST MALARIA CLINICAL CASES FOR PREVENTION

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PHENOTYPIC VALIDATION OF MOLECULAR MARKERS ASSOCIATED WITH SEASONAL MALARIA CHEMOPREVENTION AND ONGOING SELECTIVE SWEEPS IN SENEGAL

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DEVELOPMENT AND EVALUATION OF A NOVEL PROTOCOL TO ASSESS THE EFFICACY OF SEASONAL MALARIA CHEMOPREVENTION (SMC) USING SULFADOXINE, PYRIMETHAMINE AND AMODIAQUINE IN AN AREA OF HIGH ANTIMALARIAL DRUG RESISTANCE IN NAMPULA, MOZAMBIQUE.

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EVIDENCE OF CHLOROQUINE SUSCEPTIBLE *PLASMODIUM FALCIPARUM* MALARIA IN AN URBAN MEDIUM TRANSMISSION ZONE IN ZAMBIA

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INSIGHTS INTO THE MODE OF ACTION AND A NOVEL MUTANT PFCRT-MEDIATED MECHANISM OF RESISTANCE TO THE ANTIMALARIAL CLINICAL CANDIDATE ZY-19489

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MOLECULAR SURVEILLANCE OF *PLASMODIUM FALCIPARUM* DRUG RESISTANCE REVEALS PRESENCE OF I431V DHPS MUTATION IN PARASITES HARBORING QUINTUPLE AND QUADRUPLE DHPS MUTATIONS IN SENEGAL

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EVOLUTION OF GENOMIC MARKERS OF *PLASMODIUM FALCIPARUM* RESISTANCE TO ANTIFOLATES AND AMINOQUINOLINES IN UGANDA

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RISK FACTORS OF CHEMOPROPHYLAXIS FAILURE MALARIA AMONG BANGLADESHI UN PEACEKEEPERS IN AFRICA

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SUSCEPTIBILITY OF *PLASMODIUM FALCIPARUM* ISOLATES FROM EASTERN UGANDA TO GANAPLACIDE AND PHOSPHATIDYLINOSITOL 4-KINASE INHIBITORS

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QPCR ANALYSIS OF RING STAGE SURVIVAL ASSAYS FOR SURVEILLANCE OF ARTEMISININ PARTIAL RESISTANCE IN *PLASMODIUM FALCIPARUM*

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DECIPHERING *P. FALCIPARUM* ARTEMISININ RESISTANCE IN BANGLADESH: A GENOTYPIC-PHENOTYPIC EVALUATION OF KELCH13-DEPENDENT AND INDEPENDENT DETERMINANTS

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TRENDS OF *PLASMODIUM FALCIPARUM* MOLECULAR MARKERS OF ASSOCIATED WITH RESISTANCE ARTEMISININS AND REDUCED SUSCEPTIBILITY TO LUMEFANTRINE IN MAINLAND TANZANIA FROM 2016 TO 2021

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DEVELOPMENT OF SELECTIVE *P. FALCIPARUM* PROLYL-TRNA SYNTHETASE INHIBITORS THAT ARE INSENSITIVE TO HALOFUGINONE RESISTANCE

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UNDERSTANDING THE DEVELOPMENT OF DRUG RESISTANCE IN LIVER STAGES OF *PLASMODIUM FALCIPARUM*

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LEVERAGING ON ROUTINE REVIEW MEETINGS IN ANTIMICROBIAL STEWARDSHIP

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Malaria - Diagnosis - Challenges and Innovations

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

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

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PRACTICAL FACILITY-LEVEL APPROACHES TO REDUCE MALARIA TEST POSITIVITY RATES IN OYO STATE, NIGERIA

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THE ROLE OF PSYCHOSOCIAL FACTORS IN PROMPT AND APPROPRIATE CARE SEEKING FOR FEVER IN CHILDREN UNDER 5: FINDINGS FROM THE KENYA MALARIA BEHAVIOR SURVEY

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THE EXPERIENCE OF TESTING AND TREATMENT FOR MALARIA IN THE RETAIL SECTOR: COMPARING THE PROVIDER AND ATTENDANT REPORTED OUTCOMES

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COMPARING MALARIA RAPID DIAGNOSTIC TEST AND PCR FOR DETECTION OF *PLASMODIUM FALCIPARUM* INFECTIONS IN SCHOOL MALARIA PARASITAEMIA SURVEY IN TANZANIA

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COMPARISON OF TWO METHODS FOR DETECTION OF GAMETOCYTES IN BURKINA FASO YOUNG CHILDREN WHO RECEIVED THE MALARIA VACCINE CANDIDATE BK-SE36

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PERFORMANCE EVALUATION OF CONVENTIONAL RDT, HIGHLY SENSITIVE RDT, AND POLYMERASE CHAIN REACTION TO IDENTIFY MALARIA INFECTION AMONG PREGNANT WOMEN ATTENDING FIRST ANTENATAL CARE VISITS IN CHADIZA DISTRICT, ZAMBIA

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REINFORCING ADHERENCE TO NATIONAL GUIDELINES ON MALARIA CASE MANAGEMENT IN PRIVATELY-OWNED HEALTH FACILITIES: A CASE STUDY FROM OYO, NIGERIA

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MULTIPLEXED DDPCR-AMPLICON SEQUENCING TO UNDERSTAND *PLASMODIUM VIVAX* TRANSMISSION IN THE ETHIOPIAN HIGHLANDS

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BRAIN ENDOTHELIAL SECRETORY BIOMARKERS FOR SEVERE AND CEREBRAL MALARIA

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COMPARATIVE ANALYSIS OF PRIMARY HEALTH CARE PROVIDERS' ADHERENCE TO PARASITOLOGICAL DIAGNOSIS OF UNCOMPLICATED MALARIA USING BEHAVIORAL ECONOMICS PROTOTYPES IN AKWA IBOM, NIGERIA

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EVALUATION OF THE STANDARD G6PD RAPID TEST FOR THE DETERMINATION OF THE ENZYMATIC ACTIVITY OF G6PD

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APPLICATION OF MACHINE LEARNING IN A RODENT MODEL FOR RAPID AND ACCURATE PARASITE COUNTS

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SPATIAL HETEROGENEITY OF THE DISTRIBUTION OF PFHRP2/3 GENE DELETION IN ETHIOPIA AND CURRENT ALTERNATIVES TO EXCLUSIVE HRP2-BASED RDTS

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PLASMODIUM FALCIPARUM HISTIDINE-RICH PROTEIN 2 GENE DELETION SURVEILLANCE IN SENEGAL

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DETECTION AND QUANTIFICATION OF *PLASMODIUM VIVAX* DNA: CONCORDANCE BETWEEN PCR RESULTS ON PLASMA AND BLOOD PELLET SAMPLES FROM PATIENTS IN SENEGAL

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INTEGRATED FACILITY-BASED REFRESHER TRAINING AND, SUPPORTIVE SUPERVISION FOR STRENGTHENING HEALTHCARE PROVIDERS' CAPACITY FOR EFFECTIVE MALARIA CASE MANAGEMENT, PRODUCT SUPPLY MANAGEMENT AND SURVEILLANCE IN NIGERIA

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EXPANDING COMMUNITY CASE MANAGEMENT OF MALARIA TO ALL AGES CAN CONTRIBUTE TOWARDS UNIVERSAL ACCESS TO MALARIA DIAGNOSIS AND TREATMENT: RESULTS FROM A CLUSTER RANDOMIZED TRIAL

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DIGITALLY-ENHANCED RAPID MALARIA TESTING USING ARTIFICIAL INTELLIGENCE (AI) TO SUPPORT QUALITY CONTROL WITH COMMUNITY HEALTH WORKERS IN RWANDA

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Malaria - Drug Development and Clinical Trials

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EFFICACY OF ARTEMETHER-LUMEFANTRINE, ARTESUNATE-AMODIAQUINE, AND DIHYDROARTEMISININ-PIPERAQUINE FOR THE TREATMENT OF UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA AMONG CHILDREN IN THE CENTER AND NORTH REGIONS OF CAMEROON, 2021-2022

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THERAPEUTIC EFFICACY OF ARTESUNATE-AMODIAQUINE AND ARTEMETHER-LUMEFANTRINE FOR UNCOMPLICATED FALCIPARUM MALARIA TREATMENT IN FOUR SENTINEL SITES OF CÔTE D'IVOIRE, 2021

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AN *IN VIVO* SCREEN REVEALS NOVEL VULNERABILITIES IN THE MOSQUITO STAGES OF *PLASMODIUM FALCIPARUM*

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THERAPEUTIC EFFICACY OF ARTEMETHER-LUMEFANTRINE AND DIHYDROARTEMISININ-PIPERAQUINE FOR THE TREATMENT OF UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA IN MALI, 2020-2022

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Malaria - Epidemiology

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HIGH PREVALENCE AND RISK OF SUBPATENT *PLASMODIUM FALCIPARUM* INFECTIONS IN REGIONS WITH LOW TRANSMISSION INTENSITIES AND THEIR IMPLICATION FOR MALARIA ELIMINATION IN TANZANIA

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(ACMCIP Abstract)

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INCIDENCE RATES OF MALARIA, MENINGITIS AND MORTALITY IN CHILDREN UNDER 5 YEARS OF AGE IN GHANA AND KENYA PRIOR TO THE ROLL-OUT OF THE MALARIA VACCINE

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USING MORTALITY AUDITS TO IDENTIFY FACTORS INCREASING MALARIA MORTALITY IN KARAMOJA, A HIGH-BURDEN REGION OF UGANDA

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PREVALENCE OF FALCIPARUM AND NON-FALCIPARUM MALARIA IN THE 2014-15 RWANDA DEMOGRAPHIC HEALTH SURVEY

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UNDERSTANDING MALARIA BEHAVIORAL RISK FACTORS IN SEASONAL MIGRANT WORKERS IN SELECTED MID-HIGHLAND AND LOWLAND DISTRICTS OF NORTHWEST AMHARA REGION, ETHIOPIA

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COINFECTION BURDEN AND RISK FACTORS OF MALARIA AND HELMINTH INFECTIONS AMONG PREGNANT WOMEN IN TANZANIA

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NOVEL METHODS TO ESTIMATE THE LIKELIHOOD OF MIXED-SPECIES INFECTIONS AND RELATIVE SPECIES ABUNDANCE IN MALARIA

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MALARIA TRANSMISSION IN GOLD MINING AREAS, A CHALLENGE TO OVERCOME IN THE BRAZILIAN AMAZON REGION

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PREVALENCE OF MALARIA AMONGST CHILDREN UNDER 5 AND ASSOCIATED FACTORS IN SUB-SAHARAN AFRICA: A POOLED ANALYSIS COVERING 33 COUNTRIES, 2000 - 2022

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SEVERE HAEMOLYSIS DURING PRIMAQUINE RADICAL CURE OF *PLASMODIUM VIVAX* MALARIA: TWO SYSTEMATIC REVIEWS AND INDIVIDUAL PATIENT DATA DESCRIPTIVE ANALYSES

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TRENDS OF MALARIA PREVALENCE AND ASSOCIATED RISK FACTORS AMONG SCHOOL AGE CHILDREN IN MAINLAND TANZANIA: CROSS-SECTIONAL SURVEYS FROM 2015 - 2021

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MOLECULAR SPECIATION OF *PLASMODIUM* FROM THE TWO LARGEST POPULATION CENTERS OF CAMEROON

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REDUCTION OF MALARIA CASE INCIDENCE FOLLOWING THE INTRODUCTION OF CLOTHIANIDIN-BASED INDOOR RESIDUAL SPRAYING IN PREVIOUSLY UNSPRAYED DISTRICTS: AN OBSERVATIONAL ANALYSIS USING HEALTH FACILITY REGISTER DATA FROM COTE D'IVOIRE, 2018-2022

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URBAN AND PERI-URBAN MALARIA: NEW EPIDEMIOLOGICAL LANDSCAPE OF MALARIA TRANSMISSION IN VENEZUELA

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REDUCING MALARIA CAUSED ABSENTEEISM AMONG ORPHANS AND VULNERABLE CHILDREN IN CAMEROON: A CROSS SECTIONAL STUDY AMONG TEACHERS AND CAREGIVERS

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EPIDEMIOLOGICAL CHARACTERISTICS OF MALARIA PARASITES IN SOKOTO STATE, NORTHWEST NIGERIA

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Malaria - Genetics, Genomics and Evolution

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RECURRENT DE NOVO MUTATION CONTRIBUTES TO DRUG RESISTANCE EVOLUTION IN *PLASMODIUM FALCIPARUM*

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MOST ABUNDANT *PLASMODIUM FALCIPARUM* GENE TRANSCRIPTS IN THE BLOOD OF KENYAN CHILDREN WITH ACUTE MALARIA

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GENETIC DIVERSITY OF *PLASMODIUM VIVAX* IN HIGH-RISK MALARIA AREAS IN CORDOBA, COLOMBIA

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GENOME-WIDE SINGLE NUCLEOTIDE POLYMORPHISM (SNP) ANALYSIS OF *PLASMODIUM FALCIPARUM* DRUG RESISTANCE-ASSOCIATED LOCI IN AREAS OF DIFFERENT MALARIA ENDEMICITY IN TANZANIA

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IMPACT OF *PLASMODIUM FALCIPARUM* INFECTION ON DNA METHYLATION OF CIRCULATING IMMUNE CELLS

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MICROSATELLITE CHARACTERIZATION AND ANTIGENIC SEQUENCING OF *PLASMODIUM FALCIPARUM* FIELD ISOLATES FROM KENYA, PERU, AND THAILAND FOR DOWN SELECTION OF A NEW STRAIN FOR USE IN CONTROLLED HUMAN MALARIA INFECTION STUDIES

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GENETIC DIVERSITY OF *PLASMODIUM FALCIPARUM* RETICULOCYTE BINDING HOMOLOGUE-5 (PFRH5) IN REGIONS OF DIFFERENT MALARIA TRANSMISSION IN TANZANIA

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POPULATION GENOMICS OF *PLASMODIUM FALCIPARUM* AND MALARIA CONTROL: IMPLICATIONS IN ABIDJAN (COTE D'IVOIRE)

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ASSESSING TRANSMISSION DYNAMICS AND RELATEDNESS OF *PLASMODIUM FALCIPARUM* ON BIOKO ISLAND, EQUATORIAL GUINEA

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PLASMODIUM FALCIPARUM POPULATION STRUCTURE IN SOUTHWESTERN AFRICA, USING WHOLE GENOME SEQUENCE DATA: INITIAL GENOME-WIDE SEQUENCE DATA FROM ANGOLA

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SEQUENCE POLYMORPHISMS IN THE PFS47 6-CYSTEINE PROTEIN IN *PLASMODIUM FALCIPARUM* ISOLATES FROM ANGOLA, 2019

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DRUG RESISTANCE PROFILE OF *PLASMODIUM FALCIPARUM* IN THE COMMUNITIES OF CONDORCANQUI, AMAZONAS, PERU

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MOLECULAR EPIDEMIOLOGY OF NON-FALCIPARUM *PLASMODIUM* INFESTATIONS IN DIFFERENT AREAS OF THE IVORY COAST

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A MORE EFFECTIVE MULTIPLICITY OF INFECTION: INCORPORATING WITHIN-HOST RELATEDNESS AND GENOTYPING ERROR TO OBTAIN MORE ACCURATE ESTIMATES OF *PLASMODIUM* WITHIN-HOST DIVERSITY AND POPULATION ALLELE FREQUENCIES

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STRUCTURAL AND FUNCTIONAL ANNOTATION OF A UNIQUE HYPOTHETICAL PHOSPHATASE OF *PLASMODIUM VIVAX*

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BUZZWORTHY: NOVEL HIVE SEQUENCING TECHNOLOGY MAKES SINGLE-CELL SEQUENCING POSSIBLE FOR MALARIA FIELD ISOLATES

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(ACMCIP Abstract)

Malaria - Immunology

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ASSESSING THE INTERACTION BETWEEN NATURALLY-ACQUIRED PFCSP-SPECIFIC HUMORAL IMMUNITY AND THE PROTECTIVE EFFICACY OF THE ANTI-MALARIAL MONOCLONAL ANTIBODY CIS43LS

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THE PROTECTIVE ROLE OF MATERNALLY DERIVED ANTIBODIES AGAINST SYMPTOMATIC MALARIA IN THE FIRST YEAR OF LIFE

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DENGUE AND MALARIA IMMUNE CROSSTALK: UNDERSTANDING THE IMPORTANCE OF CO-INFECTIONS IN ENDEMIC REGIONS

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T CELL RESPONSES AGAINST LIVER STAGE *P. FALCIPARUM* ANTIGENS IN UGANDAN CHILDREN EXPOSED TO MALARIA

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OFF-TARGET ANTIBODY RESPONSES INDUCED BY RTS,S/AS02A/1B IN MALARIA-NAÏVE ADULTS ASSOCIATED WITH PROTECTION AGAINST CONTROLLED HUMAN MALARIA INFECTION

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ROLE OF MALARIA AND EPSTEIN-BARR VIRUS IN PEDIATRIC CANCER DEVELOPMENT IN MALAWIAN CHILDREN

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(ACMCIP Abstract)

6886

OPSONIC PHAGOCYTOSIS OF *PLASMODIUM FALCIPARUM* MEROZOITES IS ASSOCIATED WITH PROTECTION FROM CLINICAL MALARIA IN AN AREA OF LOW AND UNSTABLE MALARIA TRANSMISSION

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QUANTIFYING THE EFFECT OF NUMBER OF INFECTIONS ON MALARIA IMMUNITY

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(ACMCIP Abstract)

6888

ITERACTIVE SUBTRACTIVE BIOPANNING OF A *PLASMODIUM FALCIPARUM* SEXUAL STAGE (I-III) PHAGE DISPLAY LIBRARY IDENTIFIES A POTENTIAL TARGET OF ANTI-GAMETOCYTE IMMUNE RESPONSES

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(ACMCIP Abstract)

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CYTOMEGALOVIRUS VECTOR PROLONGS LIVE MALARIA VACCINE IMMUNITY THROUGH INNATE AND ADAPTIVE MECHANISMS

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(ACMCIP Abstract)

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VΔ2+ ΓΔ T CELL CHROMATIN ACCESSIBILITY AND IMMUNE FUNCTION ASSOCIATES WITH PRIOR MALARIA INCIDENCE

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(ACMCIP Abstract)

Malaria - Pathogenesis

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ELEVATED LEVELS OF CEREBROSPINAL FLUID NEURON-SPECIFIC ENOLASE ARE ASSOCIATED WITH LONG-TERM NEUROLOGIC AND COGNITIVE IMPAIRMENT IN CHILDREN WITH CEREBRAL MALARIA

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ELEVATED RENIN PREDICTS MORTALITY IN CHILDREN WITH SEVERE MALARIA

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ASSOCIATION OF XANTHINE OXIDASE LEVELS AND DEVELOPMENT OF SEVERE MALARIAL ANEMIA

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LONGITUDINAL CLONAL PARASITE DYNAMICS FOLLOWING ARTEMETHER-LUMEFANTRINE TREATMENT FOR MALARIA IN HIV-INFECTED AND HIV-UNINFECTED CHILDREN IN UGANDA

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INVESTIGATING MICROBIOME AND TIGHT JUNCTION INTEGRITY IN THE GUT DURING *PLASMODIUM KNOWLESI* INFECTION IN MACAQUES

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(ACMCIP Abstract)

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THE SEVERE MALARIA TRIUMVIRATE: AN INVESTIGATION OF ABO BLOOD GROUP, ROSETTE FORMATION, AND PFEMP1 TYPE

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(ACMCIP Abstract)

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DEDUCING THE EFFECT OF VARIABLE OXYGEN CONCENTRATIONS ON *PLASMODIUM FALCIPARUM* GROWTH

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PREDISPOSING FACTORS RELATED TO THE PVMSP3ALFA GENE AND THE CYTOKINE RESPONSE IN VIVAX MALARIA.

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HOST-DERIVED LIPIDS SHAPE *PLASMODIUM FALCIPARUM* DEVELOPMENT AND PATHOGENICITY: AN INTEGRATIVE MULTI-OMICS ANALYSIS IN MALARIA-INFECTED CHILDREN

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PROFILE OF ENDOTHELIAL BIOMARKERS (ANGIOPOEITIN-1 AND ANGIOPOIETIN- 2) IN PATIENTS WITH UNCOMPLICATED MALARIA IN LAGOS

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Malaria - Prevention

6901

THE ROLE OF PSYCHOSOCIAL FACTORS IN NET USE IN KENYA: FINDINGS FROM THE KENYA MALARIA BEHAVIOR SURVEY

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6902

A FIVE-ARM TRIAL COMPARING ARTESUNATE-AMODIAQUINE AND ARTEMETHER-LUMEFANTRINE-AMODIAQUINE WITH OR WITHOUT SINGLE-DOSE PRIMAQUINE TO REDUCE *P. FALCIPARUM* TRANSMISSION IN MALI

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A QUASI-EXPERIMENTAL STUDY TO ESTIMATE EFFECTIVENESS OF SEASONAL MALARIA CHEMOPREVENTION IN AWEIL SOUTH COUNTY IN NORTHERN BAHR EL GHAZAL, SOUTH SUDAN

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DIGITAL TRANSFORMATION IN HEALTH: GUINEAN EXPERIENCE OF USING A NATIVE ANDROID APPLICATION COUPLED WITH DHIS2 IN THE 2022 NATIONAL ITN DISTRIBUTION CAMPAIGN

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PLASMODIUM FALCIPARUM MALARIA INFECTION AND ANEMIA PREVALENCE IN UNDER FIVE YEAR OLD CHILDREN RECEIVING SEASONAL CHEMOPREVENTION IN A VILLAGE OF TANGHIN WOOBDO BURKINA FASO

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6906

INTERMITTENT PREVENTIVE TREATMENT (IPT) OF MALARIA IN PREGNANCY WITH MEFLOQUINE MAY REDUCE NEVIRAPINE LEVELS AMONG HIV-INFECTED WOMEN

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COMBINING SMC ACTIVITIES WITH CATCH-UP IMMUNIZATION AND COMMUNITY MALARIA CASE MANAGEMENT IN GUINEA

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THE IMPORTANCE OF QUANTIFICATION TO OPTIMIZE RESOURCE MOBILIZATION FOR A CONTINUOUS SUPPLY OF ANTIMALARIAL COMMODITIES IN MADAGASCAR

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PSYCHOSOCIAL FACTORS ASSOCIATED WITH INTENTIONS FOR SEEKING EARLY ANC DURING A FUTURE PREGNANCY: FINDINGS FROM THE KENYA MALARIA BEHAVIOR SURVEY

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IMPACT OF COMMUNITY-BASED PROMOTION OR FOCUSED MALARIA IN PREGNANCY TRAINING FOR HEALTH PROVIDER ON THE COVERAGE OF INTERMITTENT PREVENTIVE TREATMENT IN PREGNANCY IN SAN, MALI

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NEW TREATMENT REGIMEN OF SEASONAL MALARIA CHEMOPREVENTION A PROMISING ALTERNATIVE TO DISRUPT *PLASMODIUM* OF TRANSMISSION IN THE FIELD

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MULTI-LEVEL AND EVIDENCE-BASED ADVOCACY SUPPORTED INCREASED UPTAKE OF INTERMITTENT PREVENTIVE TREATMENT OF MALARIA AMONG PREGNANT WOMEN OF CROSS RIVER STATE, NIGERIA

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COMPARISON OF DIARY-REPORTED BEDNET USE ACTIVITIES AND ACCELEROMETER-BASED BEDNET DATA FROM COTE D'IVOIRE

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ESTIMATING THE IMPACT OF LLIN USE PATTERNS ON *ANOPHELES* MOSQUITO EXPOSURE AMONG SCHOOL-AGED CHILDREN IN UGANDA

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IMPACT EVALUATION OF SEASONAL MALARIA CHEMOPREVENTION THROUGH ANALYSIS OF LARGE, AGGREGATED ROUTINE COVERAGE SURVEYS IN NIGERIA, BURKINA FASO, CHAD, TOGO AND MOZAMBIQUE (2020-2022)

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COVERAGE OF INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN INFANTS AFTER FOUR YEARS OF IMPLEMENTATION IN SIERRA LEONE.

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ARTEMETHER-LUMEFANTRINE AS A CHEMOPROPHYLACTIC TREATMENT OF MALARIA

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USING MODELING TO ASSESS THE OPERATIONAL AND EPIDEMIOLOGICAL FACTORS AFFECTING EFFECTIVENESS OF PRAGMATIC PERENNIAL CHEMOPREVENTION IN OSUN STATE, SOUTHERN NIGERIA

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MODELLING THE PUBLIC HEALTH IMPACT OF PERENNIAL MALARIA CHEMOPREVENTION: CURRENT GUIDELINES AND A PROPOSED AGE-EXPANSION

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HARNESSING COMMUNITY HEALTH WORKERS TO IMPROVE PMC UPTAKE IN CAMEROON: INSIGHTS FROM THE PLUS PROJECT

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ADOPTION OF A PERENNIAL MALARIA CHEMOPREVENTION (PMC) STRATEGY IN BENIN: A CO-DESIGN PROCESS

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DESIGNING COMMUNITY ENGAGEMENT ACTIVITIES USING A HUMAN CENTERED APPROACH TO PROMOTE PMC ADOPTION: THE PLUS PROJECT EXPERIENCE IN BENIN, CAMEROON, COTE D'IVOIRE, AND MOZAMBIQUE

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KNOWLEDGE, ATTITUDES, PRACTICES AND ACCEPTABILITY OF DIGITAL PAYMENT BY OPERATORS OF THE INDOOR SPRAYING CAMPAIGN AGAINST MALARIA IN THE HEALTH DISTRICT OF KOUMPENTOUM (SENEGAL)

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MECHANISMS FOR MANAGEMENT MISSINGNESS OF DATA IN THE HEALTH MANAGEMENT SYSTEM A CASE OF UGANDA MALARIA CONTROL PROGRAM

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MONITORING, MENTORING AND MOTIVATION VISITS TO COMMUNITY HEALTH WORKERS AS A MECHANISM TO SUSTAIN HIGH QUALITY OF CARE IN MALARIA COMMUNITY CASE MANAGEMENT: A CASE OF FOUR HIGH MALARIA BURDEN PROVINCES IN ZAMBIA

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THE POTENTIAL OF SATELLITE-DERIVED BUILDING POLYGONS DATA AS A PROXY TO ON-THE-GROUND HOUSEHOLD MAPPING TO PROVIDE DENOMINATOR FOR PUBLIC HEALTH INTERVENTIONS: A PILOT STUDY IN BATA DISTRICT, EQUATORIAL GUINEA

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GENETIC ANALYSIS OF MALARIA IN PALAWAN, PHILIPPINES REVEALS HIGHLY MONOCLONAL INFECTIONS IN HIGH TRANSMISSION AREA

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A PROGRAM EVALUATION OF COMMUNITY HEALTH WORKER-LED REACTIVE CASE DETECTION AND ITS IMPACT ON MALARIA MORBIDITY AND MORTALITY IN ZAMBIA

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DOCUMENTING THE EVIDENCE OF ROUTINE DATA QUALITY AUDITS ON MALARIA DATA REPORTING ACCURACY IN ZAMBIA, 2015-2021

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LOST TIME, LOST LIVES: INVESTIGATING DETERMINANTS OF DELAYED MALARIA TREATMENT IN SUB-SAHARAN AFRICA'S CHILDREN

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IMPLEMENTING GENOMIC SURVEILLANCE FOR MALARIA IN GHANA: OPPORTUNITIES AND CHALLENGES

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PRIORITIZATION OF *PLASMODIUM FALCIPARUM* ANTIGENS ASSOCIATED WITH REDUCED RISK OF MALARIA DURING PREGNANCY

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EFFICACY OF R21/MATRIX-M™ IS MAINTAINED IN A PHASE IIB TRIAL IN CHILDREN IN BURKINA FASO OVER FOUR MALARIA SEASONS

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STRUCTURE-BASED DESIGN OF A STRAIN-TRANSCENDING SINGLE-COMPONENT AMA1-RON2L MALARIA VACCINE

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EVALUATION OF THE SAFETY AND IMMUNOGENICITY OF A SINGLE- VERSUS TWO-VIAL PRESENTATION OF R21/MATRIX-M™ IN CHILDREN IN MALI

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A SYSTEMATIC REVIEW OF *PLASMODIUM FALCIPARUM* CIRCUMSPOROZOITE PROTEIN BASED VACCINE CANDIDATES: IMPACT OF ANTIGEN, DOSE AND ADJUVANT ON PROTECTIVE EFFICACY AGAINST CONTROLLED HUMAN MALARIA INFECTION CHALLENGE

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GENETIC DIVERSITY & NATURAL SELECTION OF A MALARIA VACCINE CANDIDATE GENE IN THE ETHIOPIAN *PLASMODIUM VIVAX* POPULATION

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(ACMCIP Abstract)

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SAFETY OF THE MALARIA VACCINE CANDIDATE R21/MATRIX-M™WHEN CO-ADMINISTERED WITH EPI VACCINES FOR MEASLES-RUBELLA AND YELLOW FEVER AT 9 MONTHS OF AGE IN MALIAN CHILDREN

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MACHINE LEARNING FOR *PLASMODIUM FALCIPARUM* REVERSE VACCINOLOGY

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BIOPHYSICAL CHARACTERIZATION OF NOVEL HUMAN MONOCLONAL ANTIBODIES TARGETING *PLASMODIUM VIVAX* APICAL MEMBRANE ANTIGEN 1

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COMPARISON OF JUNCTIONAL, MINOR REPEAT, AND MAJOR REPEAT-FOCUSED CIRCUMSPOROZOITE VACCINES USING THE TOBACCO MOSAIC VIRUS EPITOPE DISPLAY PLATFORM

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IMMUNOGENICITY OF A *PLASMODIUM VIVAX* CIRCUMSPOROZOITE PROTEIN NANOPARTICLE VACCINE

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

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BUILDING A NEXT-GENERATION PRIME-AND-TRAP PRE-ERYTHROCYTIC MALARIA VACCINE

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EXPLORING IMMUNITY INDUCED BY *PLASMODIUM FALCIPARUM* CIRCUMSPOROZOITE, PRE-ERYTHROCYTIC VACCINE CANDIDATE, FMP014/ALFQ

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Bacteriology - Enteric Infections

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MATERNAL ENVIRONMENTAL ENTERIC DYSFUNCTION AND MATERNAL MALNUTRITION: EFFECT ON MATERNAL AND INFANT MICROBIOTA AND MOTHER-INFANT TRANSFER OF DYSBIOSIS IN CENTRAL-AFRICA

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ANTIMICROBIAL RESISTANCE IN E. COLI ISOLATED FROM DIARRHEAL STOOLS IN CHILDREN AGED 0-3 YEARS AT THE YIRIMADIO COMMUNITY HEALTH CENTER, MALI

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MRTC, Bamako, Mali

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COMPARATIVE EVALUATION OF ANTIMICROBIAL SUSCEPTIBILITY OF SHIGELLA ISOLATES AMONG CHILDREN <5 YEARS IN RURAL KENYA PRE AND POST ROTAVIRUS VACCINE INTRODUCTION

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PARASITIC AND ANTIBIOTIC-RESISTANT BACTERIAL CONTAMINATION OF RAW SALAD VEGETABLES SOLD IN LOCAL MARKETS OF DHAKA, BANGLADESH

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HOSPITALISATION AND MORTALITY RATES AMONG CHILDREN WITH MODERATE TO SEVERE DIARRHOEA TREATED WITH AZITHROMYCIN OR PLACEBO: A RANDOMISED CONTROLLED TRIAL

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THE ROLE OF VILLAGE DOCTORS IN THE TREATMENT OF PEDIATRIC DIARRHEA AND POTENTIAL FOR ANTIMICROBIAL STEWARDSHIP IN RURAL BANGLADESH: A DESCRIPTIVE ANALYSIS

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SAFETY, IMMUNOGENICITY, AND EFFICACY OF ETVAXÂ VACCINE AGAINST ENTEROTOXIGENIC E. COLI-ASSOCIATED DIARRHEA IN GAMBIAN CHILDREN AGED 6 TO 18 MONTHS

M. Jahangir Hossain[1], Fatou Secka[1], Lady C. Sanyang[1], Taiwo Raifu[1], Emmanuel C. Okoh[1], Olubunmi A. Olubiyi[1], Mbemba Drammeh[1], Emmanuel U. Richard[1], Mama Drammeh[1], Samba Juma Jallow[1], Ousman Secka[1], Anna Roca[1], Nils Nils[2], Ann-Mari Svennerholm[3], Anna Hill[2], Umberto D' Alessandro[1], Thomas F. Wierzba[4]
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A LONGITUDINAL COMMUNITY ASSESSMENT OF PLASMA CITRULLINE IN TWO COHORTS OF BANGLADESHI INFANTS

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ANTIMICROBIAL RESISTANCE TO ANTIBIOTICS AT A COMMUNITY-LEVEL HEALTH FACILITY IN MALI: A NANOPORE SEQUENCING AS A TOOL FOR AMR SURVEILLANCE

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CHOLERA DEATHS DURING OUTBREAKS IN UVIRA, EASTERN DEMOCRATIC REPUBLICOF CONGO, SEPTEMBER 2021-JANUARY 2023

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A PATHWAY TO A MORE DURABLE CHOLERA RAPID DIAGNOSTIC TEST (RDT)

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GENOMIC EPIDEMIOLOGY OF CAMPYLOBACTER SPP. ISOLATED FROM CHILDREN WITH MEDICALLY ATTENDED DIARRHEA IN IQUITOS, PERU

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SEROINCIDENCE OF ENTERIC FEVER IN RURAL AND URBAN POPULATIONS OF SIERRA LEONE

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A SPOTTED RASH HELPS SPOT A RARE PATHOGEN: CAPNOCYTOPHAGA CANIMORSUSENDOCARDITIS WITH GLOMERULONEPHRITIS

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EVALUATION OF VIRULENCE GENE REPERTOIRE AS A MEANS TO ESTABLISH THE ROLE OF ESCHERICHIA COLI ISOLATED POSTMORTEM IN THE CAUSAL PATHWAY TO DEATH

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FACTORS ASSOCIATED WITH IN-HOSPITAL MORTALITY IN ADULT PATIENTS WITH SEPSIS AT TWO RURAL BORDER PROVINCES OF THAILAND

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DETECTING AND TREATING SEPTIC SHOCK IN DIARRHEAL PATIENT WITH POINT OF CARE (POC) LACTATE TESTING: A LIFE-SAVING STRATEGY BEYOND ICU

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GRAM (-) BACTEREMIA IS ASSOCIATED WITH AN INCREASED BURDEN OF CHILDHOOD SEVERE MALARIAL ANEMIA IN A HOLOENDEMIC *PLASMODIUM FALCIPARUM* TRANSMISSION REGION OF WESTERN KENYA

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CHARACTERIZATION OF ACINETOBACTER SPP. ISOLATED FROM BLOOD AND URINE OF PATIENTS IN RURAL GHANA

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LEPTOSPIROSIS AMONG HOSPITALIZED PATIENTS WITH ACUTE FEBRILE ILLNESS IN BANGLADESH

Tanzir Ahmed Shuvo[1], Anik Palit[1], Mohammed Ziaur Rahman[1], Zubair Akhtar[1], Probir Kumar Ghosh[1], Muntasir Alam[1], Md. Mahfuzur Rahman[1], Mahmudur Rahman[2], Pawan Angra[3], Matthew Mikoleit[3], Daniel Martin[3], Fahmida Chowdhury[1]
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NANOPORE SEQUENCING USING THE FULL LENGTH 16S RRNA GENE IS A PROMISING VETERINARY DIAGNOSTIC TOOL FOR THE DETECTION OF BLOOD-BORNE BACTERIAL PATHOGENS

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University of Melbourne, Melbourne, Australia

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ÉCOLOGIE BACTÉRIENNE ET PROFIL DE RÉSISTANCE BACTÉRIENNE AUX ANTIBIOTIQUES DANS LE SERVICE DE MÉDECINE ET D'UROLOGIE DU CHU BSS DE KATI

Hamsatou CISSE[1], Youba Sangaré[1], Abdramane Traoré[1], Nagou Tolo[1], Amadou Kassogué[1], Djeneba Diagne[1], Cheick Oumar Sanogo[1], Boureima Kodio[2], Abdoulaye Traoré[3], Garan Dabo[4], Yacouba Cissoko[3], Ghislain Poda[5], Daouda k Minta[3]
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ANTIMICROBIAL SUSCEPTIBILITY PATTERNS OF GRAM NEGATIVE BACTERIA GRAM POSITIVE BACTERIA AND FUNGI SPECIES ISOLATED FROM BLOOD CULTURE BOTTLES IN YAOUNDE CAMEROON

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NEONATAL PAENIBACILLIOSIS: A NOVEL INFECTION LEADING TO INFECTIOUS HYDROCEPHALUS IN INFANTS

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Cestodes (including taeniasis and cysticercosis, echinococcosis/hydatid disease, and others)

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ASSESSMENT OF THE ANTIGEN DYNAMICS DURING THE CALCIFICATION PROCESS IN NATURALLY INFECTED PIGS

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CONCORDANCE BETWEEN TWO ANTIGEN-DETECTION ENZYME-LINKED IMMUNOSORBENT ASSAYS IN DETECTING URINARY ANTIGENS AND MONITORING ANTIGEN DECAY IN PATIENTS WITH NEUROCYSTICERCOSIS

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PHENOTYPIC DETERMINATION OF REGULATORY T AND B REGULATORY CELLS IN NEUROCYSTICERCOSIS PATIENTS

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CALCIFIED PORCINE NEUROCYSTICERCOSIS: IMMUNOHISTOCHEMISTRY BASED ON MONOCLONAL ANTIBODIES (MABS) FOR RESIDUAL ANTIGENS DETECTION

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RESIDUAL CALCIFICATION IN NEUROCYSTICERCOSIS: NOT ONLY IN PARENCHYMAL CYSTS

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MRI SPECTROSCOPY OF PATIENTS WITH SUBARACHNOID AND PARENCHYMAL NEUROCYSTICERCOSISRACEMOSA AND PARENCHYMAL NEUROCYSTICERCOSIS OF THE NATIONAL INSTITUTE OF NEUROLOGICALSCIENCES, LIMA, 2021-2022

Carolina Guzman[1], Erick Castillo[2], Norvind Gamboa[3], Daniel Bustamante[4], Herbert Saavedra[3], Isidro Gonzales[3], Javier Bustos[4], Hector Garcia[4]
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TRANSCRANIAL DOPPLER ULTRASONOGRAPHY TO DETECT VASCULITIS IN NEUROCYSTICERCOSIS

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CONCORDANCE BETWEEN TWO MONOCLONAL ANTIBODY-BASED (MAB) ENZYME-LINKEDIMMUNOSORBENT ASSAYS (ELISAS) FOR MEASURING CYSTICERCUS ANTIGEN LEVELS INSERA FROM PIGS EXPERIMENTALLY INFECTED WITH TAENIA SOLIUM AND TAENIA HYDATIGENA

Gianfranco Arroyo[1], Luz M. Toribio[1], Sara Garrido[2], Nancy Chile[3], Teresa Lopez[2], Luis Gomez[2], Robert Gilman[4], Javier Bustos[5], Pierre Dorny[6], Seth O'Neal[7], Sukwan Handali[8], Armando Gonzales[2], Hector Garcia[5]
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THE EARLY STAGE OF TAENIA SOLIUM CYSTICERCUS SECRETE TRANSFORMING GROWTH FACTOR-BETA MIMIC PROTEINS

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(ACMCIP Abstract)

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EVALUATION OF AXONAL TRANSPORT DAMAGE IN AN ANIMAL MODEL OF NEUROCYSTICERCOSIS

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(ACMCIP Abstract)

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EVALUATION OF OLIGODENDROCYTE DENSITY AND APOPTOSIS DAMAGE AT DIFFERENT POST-INFECTION TIMES IN A RAT MODEL WITH NEUROCYSTICERCOSIS

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(ACMCIP Abstract)

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GASDERMIN D IMMUNOREACTIVITY IN RAT BRAIN TISSUES WITH NEUROCYSTICERCOSIS

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(ACMCIP Abstract)

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NITRO-OXIDATIVE STRESS AND NEURONAL DAMAGE IN A RAT MODEL FOR NEUROCYSTICERCOSIS PRESENTING EPILEPSY

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Clinical Tropical Medicine

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AN UPDATE ON THE CLINICAL-EPIDEMIOLOGY OF NEGLECTED SEXUALLY TRANSMITTED INFECTIONS IN IMPOVERISHED SOUTHERN USA ADOLESCENT POPULATIONS

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7000

CLINICAL, EPIDEMIOLOGICAL, HISTOPATHOLOGICAL, AND SOCIO-ECONOMIC PANORAMA OF LEPROSY PATIENTS IN A TERTIARY CENTER ACROSS THE NEPAL-INDIA BORDER IN THE POST-ELIMINATION ERA: A CROSS-SECTIONAL STUDY

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7001

SPOT SEPSIS: PREDICTION OF DISEASE SEVERITY IN YOUNG CHILDREN WITH ACUTE FEBRILE ILLNESSES IN RESOURCE LIMITED SETTINGS

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7002

NANOPORE SEQUENCING OR MICROARRAY DETECTION OF PATHOGENS IN BLOOD: SIDE-BY-SIDE COMPARISON

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7003

EVALUATION OF THE IMPACT ON CHILDHOOD MORTALITY OF AZITHROMYCIN PLUS INTERMITTENT PREVENTIVE TREATMENT ADMINISTERED THROUGH THE EXPANDED PROGRAM OF IMMUNIZATION IN SIERRA LEONE

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7004

A RANDOMIZED CLINICAL TRIAL INVESTIGATING THE EFFECT OF BCG REVACCINATION ON THE RESPONSE TO UNRELATED VACCINES IN UGANDAN ADOLESCENTS: THE POPVAC C TRIAL

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7005

DIFFERENTIATION OF ACUTE EXACERBATIONS OF CHRONIC HEPATITIS B AND ACUTE HEPATITIS B IN ANTIHBC IGM POSITIVE PATIENTS AT HOSPITAL FOR TROPICAL DISEASESIN VIETNAM

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7006

ALPHA-GAL ALLERGY SEROPREVALENCE IN RURAL AND MINORITY POPULATIONS, EVIDENCE ALPHA-GAL SYNDROME IS A NEGLECTED DISEASE IN THE SOUTHERN USA

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7007

STOOL CALPROTECTIN AND ASSOCIATED GUT-PATHOGENS IN A COHORT OF PATIENTS WITH GIT DISORDERS WITH AND WITHOUT IMMUNE-MEDIATED INFLAMMATORY INTESTINAL DISEASES IN SAUDI ARABIA

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7008

CLINICAL CHARACTERIZATION AND ANALYSIS OF INFLAMMATION AND COAGULATION OF LASSA FEVER PATIENTS TREATED AT THE IRRUA SPECIALIST TEACHING HOSPITAL IN EDO STATE, NIGERIA IN 2022 AND 2023

Cyril Erameh[1], Osahogie Edeawe[1], Joseph Okeguale[1], Jerome Christian[1], Iboi Matthew[1], Hannah Müller[2], Matin Kohsar[2], Christian Erohubie[1], Benevolence Ohomoime[2], Rita Esumeh[1], Charity Oseghale[1], Aiterebhe Ujiagbe[1], Charlotte Kriebel[2], Ludmila Unrau[2], Anke Thielebein[2], Colette Sih[2], Stephan Günther[2], Michael Ramharter[2], Sylvanus Okogbenin[1], Lisa Oestereich[2], **Till Omansen**[2]

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7009

CHAGAS DISEASE CLINICS IN ENDEMIC LOCALITIES FROM ARGENTINA: RESULTS FROM 2015 TO 2022

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7010

ISOLATED HYPERPARASITEMIA IN IMPORTED SEVERE *PLASMODIUM FALCIPARUM* MALARIA: NO PREDICTOR FOR COMPLICATIONS

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7011

THE BURDEN AND IMPACT OF TORCH INFECTIONS AMONG PERINATAL WOMEN AND THEIR NEONATES IN EL SALVADOR

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7012

HEALTH-RELATED QUALITY OF LIFE (HRQOL) AND FATIGUE IN THE DENGUE CONVALESCENCE PHASE DURING AN OUTBREAK (2019-2020) IN BUCARAMANGA, COLOMBIA.

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7013

FAS-2 ELISA FOR FOLLOW-UP OF SCHOOL-AGE CHILDREN WITH CHRONIC FASCIOLA HEPATICA INFECTION TREATED IN RURAL CUSCO, PERU

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7014

PHYSICIAN KNOWLEDGE OF CHAGAS DISEASE IN NEW ORLEANS

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7015

UNVEILING CONGENITAL SYPHILIS THROUGH MINIMALLY INVASIVE TISSUE SAMPLING: A CASE REPORT FROM CHILD HEALTH AND MORTALITY PREVENTION SURVEILLANCE, BANGLADESH SITE

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7016

RAISING STANDARDS IN DIAGNOSTIC PARASITOLOGY - PERSPECTIVES FROM AN INTERNATIONAL EQA SCHEME

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Helminths – Nematodes – Filariasis (Cellular and Molecular Biology)

7017

PURIFICATION OF EXTRACELLULAR VESICLES PRODUCED BY FILARIAL PARASITES FOR PROTEOMIC DETECTION OF BIOMARKER CANDIDATES IN HUMAN PLASMA

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7018

TOWARDS IMPROVED ONCHOCERCIASIS DIAGNOSTICS: CHARACTERIZATION OF A MAJOR ANTIGEN OF ONCHOCERCA VOLVULUS IDENTIFIED FROM THE PLASMA OF INFECTED INDIVIDUALS

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(ACMCIP Abstract)

7019

THE POLY-LYSINE PEPTIDE AS A BROAD-SPECTRUM ANTIPARASITIC, AND EFFECTIVE AGAINST FILARIAL AND MALARIA PARASITES

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Helminths – Nematodes – Filariasis (Clinical)

7020

ASSOCIATION BETWEEN BLOOD LOA LOA MICROFILARIAL DENSITY AND PROTEINURIA LEVELS: A POPULATION-BASED CROSS-SECTIONAL STUDY IN A RURAL AREA OF THE REPUBLIC OF CONGO

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

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7022

EFFICACY AND FEASIBILITY OF SHORT-STRETCH COMPRESSION GARMENTS ENABLED BY THREE-DIMENSIONAL INFRARED IMAGING FOR STAGE 3 FILARIAL LYMPHEDEMA IN SRI LANKA

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7023

IDENTIFICATION OF NOVEL POTENTIAL BIOMARKERS FOR BANCROFTIAN FILARIASIS

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7024

PLASMA PENTRAXIN 3 AND ANGIOPOIETINS ARE ELEVATED IN LYMPHATIC FILARIASIS LYMPHEDEMA PATIENTS WITH ESSENTIAL HYPERTENSION

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7025

FIELD EVALUATION OF STANDARD Q FILARIASIS ANTIGEN TEST FOR LYMPHATIC FILARIASIS (LF) DURING A PRE-TRANSMISSION ASSESSMENT SURVEY IN SIERRA LEONE, 2022

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7026

EFFECT OF SEASONALITY AND HYGIENE ON THE INCIDENCE OF ACUTE FILARIAL ATTACKS IN PATIENTS WITH LYMPHEDEMA IN MALI

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THE CLINICAL SPECTRUM OF LYMPHATIC FILARIASIS. A CASE OF PROTEIN-LOSING ENTEROPATHY

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Helminths – Nematodes – Filariasis (Other)

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SHIFT IN THE SKIN MICROBIOME AMONG INDIVIDUALS PRESENTING WITH FILARIAL LYMPHEDEMA COMPARED TO NON-FILARIAL HEALTHY INDIVIDUALS IN GHANA

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7029

DETECTION AND DISCRIMINATION OF O. VOLVULUS AND O. OCHENGI FROM BLACKFLY POOL DNA USING A NOVEL POLYMERASE CHAIN REACTION - RESTRICTION FRAGMENT LENGTH POLYMORPHISM (PCR-RFLP) TECHNIQUE

Isaac Owusu-Frimpong, Edward Jenner Tettevi, Queenstar Dedei Quarshie, Naa Adjeley Kuma, Nfayem Imoro, Yusuf Al-Mahroof, Reuben Enchill, Mawutor K. Ahiabu, Mike Yaw Osei-Atweneboana

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7030

ANTIBIOTIC RESISTANCE AND MECA CHARACTERIZATION OF STAPHYLOCOCCUS HOMINIS FROM FILARIAL LYMPHEDEMA PATIENTS IN THE AHANTA WEST DISTRICT, GHANA: A CROSS-SECTIONAL STUDY

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GUIDELINES FOR SELECTION OF FIRST- AND THIRD-LINE COMMUNITIES FOR MONITORING AND EVALUATION DURING ONCHOCERCIASIS ELIMINATION MAPPING

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DEVELOPING A TRAP FOR AFRICAN CHRYSOPS SPECIES TO ACCELERATE ONCHOCERCIASIS ELIMINATION: PROOF OF CONCEPT IN CAMEROON

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7033

COMPARISON OF SPONTANEOUS VS IVERMECTIN-INDUCED CROSS-REACTIVE ANTIGENEMIA IN LOIASIS

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(ACMCIP Abstract)

7034

EFFORT TOWARDS ELIMINATION OF LYMPHATIC FILARIASIS IN CAMEROON: RESULTS OF THE LAST TRANSMISSION ASSESSMENT SURVEY IN 20 HEALTH DISTRICTS OF ADAMAOUA, CENTER AND FAR-NORTH REGION

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IMPLEMENTING THE LYMPHATIC FILARIASIS REPEAT PRE-TRANSMISSION SURVEY IN A CONTEXT OF INSECURITY IN TWO HEALTH DISTRICTS IN BURKINA FASO

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EFFORTS TOWARD ELIMINATION OF LYMPHATIC FILARIASIS IN GUINEA: RESULTS OF TRANSMISSION ASSESSMENT SURVEYS (TAS1) IN 11 HEALTH DISTRICTS

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EXAMINATION OF METABOLITE BIOMARKERS OF LOIASIS REVEALS PROMISING CANDIDATES PREDICTIVE OF MICROFILAREMIA

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(ACMCIP Abstract)

7038

EXAMINING THE OVERLAP IN LYMPHATIC FILARIASIS PREVALENCE AND MALARIA INSECTICIDE-TREATED NET ACCESS AND USE IN AFRICA

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LYMPHATIC FILARIASIS TREATMENT STUDIES: THE CASE FOR AN INDIVIDUAL PARTICIPANT-LEVEL DATA PLATFORM

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Integrated Control Measures for Neglected Tropical Diseases (NTDs)

7040

MOVING TOWARD PERSON CENTERED CARE FOR NTDS INTEGRATION OF MENTAL HEALTH WITHIN CASE MANAGEMENT NTDS IN LIBERIA

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THE IMPACT OF INDEPENDENT MONITORING (COVERAGE SURVEY) AGAINST THE 2019 MASS DRUG ADMINISTRATION DATA: THE USE OF IVERMECTIN AND ALBENDAZOLE IN LIBERIA

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Kinetoplastida and Other Protozoa - Epidemiology (Including Leishmania and Trypanosomes)

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INTEGRATED SEROLOGICAL SURVEILLANCE FOR MULTIPLE INFECTIOUS DISEASES IN VANUATU

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LESSONS LEARNED FROM DEPLOYING ELECTRONIC DATA COLLECTION AS PART OF MASS DRUG ADMINISTRATION CAMPAIGNS IN SOUTH SUDAN

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COMMUNITY ENGAGEMENT TO ACCELERATE ONCHOCERCIASIS ELIMINATION IN CAMEROUN

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NTD AMBASSADORIAL ENGAGEMENTS: STRATEGY FOR HIGH-LEVEL DECISION MAKING AND ADVOCACY TOWARDS RESOURCE MOBILIZATION FOR THE CONTROL AND ELIMINATION OF NTDS IN GHANA

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KNOWLEDGE, ATTITUDE, AND PRACTICE OF MOTHERS TOWARD CHAGAS DISEASE IN LA GUARDIA, SANTA CRUZ DEPARTMENT, BOLIVIA: A CROSS-SECTIONAL STUDY

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PORTABLE SMARTPHONE-BASED MOLECULAR TEST TO SUPPORT THE ELIMINATION PROGRAM OF LEISHMANIA DONOVANI

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REACHING THE LAST MILE IN ONCHOCERCIASIS ELIMINATION IN MALI: RESPONDING TO PRE-STOP FAILURE

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DIGITAL INNOVATION FOR EFFECTIVE MANAGEMENT OF NEGLECTED TROPICAL DISEASE PROGRAMME DATA; LESSONS AND CHALLENGES

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LESSONS LEARNED ON FINGER-INKING AS A MEANS OF COVERAGE VERIFICATION FOR MASS DRUG ADMINISTRATION FOR NEGLECTED TROPICAL DISEASES

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THE JOURNEY OF NTD DATA FROM LOCAL FRAGMENTED DATABASE SYSTEMS INTO STABLE AND SECURE HEALTH MANAGEMENT INFORMATION SYSTEMS

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CHAGAS DISEASE SCREENING OF MATERNAL DONORS IN PUBLICLY BANKED UMBILICAL CORD BLOOD IN NORTH CAROLINA, UNITED STATES 2007-2022

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TSETSE FLIES INFECTED WITH TRYPANOSOMES IN THREE ACTIVE HUMAN AFRICAN TRYPANOSOMIASIS FOCI OF THE REPUBLIC OF CONGO

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SEROPREVALENCE AND RISK FACTORS OF TOXOPLASMA GONDII IN WOMEN OF REPRODUCTIVE AGE (15-44 YEARS) — NIGERIA, 2018

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CLINICAL IMPLICATION OF REGIONAL LEISHMANIA SPECIES DISTRIBUTION IN ECUADOR: A CROSS-SECTIONAL STUDY

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THE ASYMPTOMATIC DOG WITH VISCERAL LEISHMANIASIS: IS THIS THE "REAL BAD DOG"? A SYSTEMATIC REVIEW

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ADDRESSING AFRICAN SLEEPING SICKNESS TRANSMISSION THROUGH STREET THEATRE

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EPIDEMIOLOGY OF SPOTTED FEVER GROUP RICKETTSIA AND CHAGAS DISEASE INFECTION IN A RURAL COMMUNITY IN BOYACÁ, COLOMBIA

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MODELLING SLEEPING SICKNESS AT DIFFERENT SPATIAL SCALES: A HEALTH AREA ANALYSIS

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FROM THE PLAINS TO THE MOUNTAINS: A NEW FRONTIER FOR LEISHMANIASIS IN NORTH INDIA

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EPIDEMIOLOGICAL, SEROLOGICAL, AND ENTOMOLOGICAL ASPECTS OF VISCERAL LEISHMANIASIS (VL) IN SUSPECTED NEW VL FOCI IN BANGLADESH

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MODELING THE RELATIONSHIP BETWEEN PRECIPITATION AND TEMPERATURE ON THE INCIDENCE OF CUTANEOUS LEISHMANIASIS IN NORTHERN MOROCCO

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HAEMOGLOBIN DYNAMICS FOLLOWING TREATMENT OF VISCERAL LEISHMANIASIS: AN INDIVIDUAL PATIENT DATA META-ANALYSIS USING THE INFECTIOUS DISEASES DATA OBSERVATORY DATA PLATFORM

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SYSTEMATIC REVIEW OF CHAGAS DISEASE IN ENDEMIC COUNTRIES, 1980 - 2019.

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FIRST MOLECULAR DOCUMENTATION OF LEISHMANIA MAJOR IN THE PHLEBOTOMINE SAND FLY, AL AHSA, EASTERN REGION, SAUDI ARABIA

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

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THE FIRST EPIDEMIOLOGICAL INVESTIGATION ON CONTACTS WITH MYCOBACTERIUM BOVIS FROM A ZOO IN THE REPUBLIC OF KOREA, JULY 2021-SEPTEMBER 2022

Hye Young Lee, Yunhyung Kwon, Sang-Eun Lee, Jieun Kim
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ASSESSMENT OF THE ZOONOTIC TRANSMISSION POTENTIAL OF ASCARIS IN HUMAN AND PIGS AND ITS IMPLICATIONS FOR ASCARIASIS CONTROL IN MAKENENE IN THE CENTER REGION OF CAMEROON

Merveille Gaëlle Lekeufack Djitia, Estelle Mezajou Mewamba, Pythagore Soubgwi Fogue, Cyrille Nguemnang Kamdem, Arnol Auvaker Zebaze Tiofack, **Gustave Simo**
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ASSESSING TRANSBOUNDARY ZOONOTIC DISEASE THREATS AT POINTS OF ENTRY BETWEEN IRAQ AND JORDAN: A ONE HEALTH APPROACH

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SNAKEBITE PREVALENCE AND RISK FACTORS IN A NOMADIC POPULATION IN KENYA: A COMMUNITY-BASED SURVEY

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USING A ONE HEALTH SYSTEMS ASSESSMENT TOOL TO STRENGTHEN TRANSBOUNDARY ZOONOTIC DISEASE DETECTION, SURVEILLANCE AND RESPONSE BETWEEN LIBYA AND TUNISIA

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TAILORING A ONE HEALTH COURSE FOR AN ESTABLISHED NON-ONE HEALTH GRADUATE PROGRAM IN BRAZIL

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RIFT VALLEY FEVER VIRUS AND GENOME STABILITY IN RAW MILK

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GENOMIC EPIDEMIOLOGY OF CAMPYLOBACTER JEJUNI AND CAMPYLOBACTER COLI ISOLATED FROM INDUSTRIAL AND HOUSEHOLD POULTRY IN IQUITOS, PERU

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FACTORS ASSOCIATED & PREVALENCE OF ABNORMALITIES OF VENTILATORY FUNCTION IN ATTÉCOUBÉ, ABIDJAN, CÔTE D'IVOIRE, JANUARY-FEBRUARY 2022

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LAND USE CHANGE DRIVES BAT ROOSTING ECOLOGY AND HUMAN-BAT FOOD COMPETITION ON CULTIVATED FOOD RESOURCES PROMOTES NIPAH VIRUS SPILLOVER TO HUMANS IN BANGLADESH

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Pneumonia, Respiratory Infections and Tuberculosis

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TUBERCULOSIS MORTALITY: A SCOPING REVIEW

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DISPROPORTIONATE COVID-19 DISEASE SEVERITY AND MORTALITY IN A DIVERSE POPULATION OF HOSPITALIZED PATIENTS

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PREDICTORS OF DISPOSITION STATUS IN HOSPITALIZED COVID-19 PATIENTS IN DIVERSE POPULATIONS: A CURRENT AND FUTURE MODEL

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CROSS SECTIONAL OBSERVATIONAL STUDY ON PERINATAL OUTCOMES AFTER SARS-COVID-2 VACCINATION DURING PREGNANCY IN TERTIARY CARE SETTING IN URBAN PUNE , INDIA

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WEIGHTED FIDELITY OF DELIVERY OF AN INTERVENTION IN THE HEALTH FACILITY: A CASE OF TUBERCULOSIS SCREENING AMONG HIV CLIENTS IN SELECTED HOSPITALS IN GHANA

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SURVEILLANCE OF INFLUENZA LIKE ILLNESS (ILI) AT THE US. MILITARY CAMP LEMONNIER, DJIBOUTI

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SENSITIVITY PROFILE OF FUNGAL PATHOGENS RESPONSIBLE FOR LOWER RESPIRATORY TRACT INFECTIONS IN YAOUNDE

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TUBERCULOSIS IS A GOOD POINT OF ENTRY FOR THE SCREENING OF CARDIOVASCULAR EVENT RISK FACTORS IN A LOW-MIDDLE-INCOME COUNTRY: LESSON LEARNED FROM INTEGRATED HEALTHCARE IN GABON

Bayode Romeo Adegbite
Centre de Recherches Médicales de Lambaréné, lambarene, Gabon

7086

EFFECT OF POST PCV13 ON VACCINE TYPE INVASSIVE PNEUMOCOCCAL DISEASE AMONG CHILDREN IN RURAL GAMBIA

rasheed A. salaudeen[1], Ousman Barjo[2], Momodou Drammeh[2], wutor Baleng Mahama[2], Yekini A. Olatunji[2], isaac osei[2], Mohammad Ilias Hossain[2], Grant A. Mackenzie[2]
[1]Medical Research Council Unit, The Gambia, Basse, URR, Gambia, [2]Medical Research Council Unit, The Gambia, Basse Santa su, Gambia

7087

THE ADDED VALUE OF USING PULSE OXIMETER ROUTINELY INTO THE INTEGRATED MANAGEMENT OF CHILDHOOD ILLNESS GUIDELINES TO BETTER IDENTIFY & MANAGE SEVERE CASES AMONG CHILDREN UNDER-5 YEARS OLD IN WEST AFRICA, JUNE 2021 TO JUNE 2022

Gildas Boris HEDIBLE[1], Desire Neboua[2], Lucie Peters Bokol[1], Gildas Anago[2], Zineb ZAIR[1], Severin Lenaud[3], Honorat Agbeci[1], Abdoul Guaniyi Sawadogo[4], Désiré Kargougou[5], Bertrand Meda[6], Jacques Séraphin Kolié[7], Sandrine Busiere[8], Franck Lamontagne[9], Sarah Louart[10], Valery Ridde[11], Valériane Leroy[1]
[1]CERPOP UMR 1295 INSERM UT3, Toulouse, France, [2]ALIMA, Dakar, Senegal, [3]PACCI, Abidjan, Côte D'Ivoire, [4]Tdh, Ouagadougou, Burkina Faso, [5]ALIMA, Bamako, Mali, [6]SOLTHIS, Niamey, Niger, [7]ALIMA, Conakry, Guinea, [8]Tdh, Dakar, Senegal, [9]SOLTHIS, Paris, France, [10]ALIMA & University of Lille, CLERSE - Centre Lillois d'Études et de Recherches Sociologiques et Économiques, Dakar, Senegal, [11]IRD, Paris, France

7088

FINE-SCALE SPATIOTEMPORAL DYNAMICS OF SARS-COV-2 INTRODUCTION AND SPREAD IN NAIROBI COUNTY, KENYA

Edith Chepkorir[1], John Mwita[2], Solomon Langat[1], Silvanos Mukunzi[1], Limbaso Konongoi[1], Samwel Lifumo[1], Samoel Khamadi[1], George Githinji[2]
[1]Kenya Medical Research Institute (KEMRI), Nairobi, Kenya, [2]Kenya Medical Research Institute (KEMRI)-Wellcome Trust Research Programme, Kilifi, Kenya

7089

SCALING RISK FOR A GLOBAL TUBERCULOSIS PROGRAM IN AN OIL AND GAS COMPANY

Susan Ngunjiri, Malick Diara, **Candace McAlester**, Tammy Pipes
ExxonMobil Corporation, Spring, TX, United States

7090

INVESTIGATION OF SUSPECTED PULMONARY TUBERCULOSIS CASES IN KATIALI IN THE DIANRA HEALTH DISTRICT, CÔTE D'IVOIRE, JUNE 2021

Pegnontaye Moussa Soro[1], Kouadio Felix Koffi[2], Wilnique Pierre[3], Joseph Blaise Otshudiandjeka[1], Issaka Tiembre[4], Vroh Joseph Beni Bi[4]
[1]FETP, Abidjan, Côte D'Ivoire, [2]INHP, Abidjan, Côte D'Ivoire, [3]AFENET, Abidjan, Côte D'Ivoire, [4]UFHB/INHP, Abidjan, Côte D'Ivoire

7091

PRE-CLINICAL VALIDATION STUDIES OF NOVEL POINT-OF-CARE RNA TEST FOR COVID-19 DIAGNOSIS AND UTILITY FOR SARS-COV-2 GENOMIC SURVEILLANCE IN GHANA

Charles Narh[1], Maame E. Acquah[1], Gloria Amegatcher[1], Deborah Tetteh[1], Ethel Debrah[1], Bridget Quist[1], Gideon Twieku[2], Sarmuel Armoo[2], Bill Hopper[3], Lydia Mosi[1], Jack Richards[4]
[1]West African Centre for Cell Biology of Infectious Pathogens (WACBIP), University of Ghana., Accra, Ghana, [2]Water Research Institute, Council for Scientific and Industrial Research, Accra, Ghana, [3]ZiP Diagnostics, Melbourne, Australia, [4]ZiP Diagnostics, Accra, Australia

7092

A CASE OF TUBERCULOSIS PERICARDITIS

Bethlehem Atoma[1], Kinfu Debele[2], Dawi Girma[2], Obse Deressa[3], Anteneh Zewde[1]
[1]University of Minnesota, Minneapolis, MN, United States, [2]Adama Hospital Medical Center, Adama, Ethiopia, [3]St Paul Hospital, Addis Ababa, Ethiopia

Schistosomiasis and Other Trematodes – Epidemiology and Control

7093

SCHISTOTRACK: A COMMUNITY-BASED, PROSPECTIVE COHORT IN RURAL UGANDA TO EXAMINE CAUSES OF PERIPORTAL FIBROSIS ASSOCIATED WITH INTESTINAL SCHISTOSOMIASIS

Goylette F. Chami
Big Data Institute, Nuffield Department of Population Health, University of Oxford, Oxford, United Kingdom

7094

NAVIGATING BARRIERS TO CREATING AWARENESS OF FEMALE GENITAL SCHISTOSOMIASIS IN GHANA-CASE STUDY IN THE CENTRAL REGION OF GHANA

Ruth Esi Fosuah Allotey
Korle Bu Teaching Hospital, Accra, Ghana

7095

THE MEASURING OF TREATMENT COVERAGE AS COMPARED TO ADMINISTRATIVE COVERAGE FOR SCHISTOSOMIASIS WITH PREVENTIVE CHEMOTHERAPY IN BONG, LOFA, AND NIMBA COUNTIES IN 2018 IN LIBERIA

Anthony Kerkula Bettee
Ministry of Health, Monrovia, Liberia

7096

MAPPING THE TRANSMISSION DYNAMICS OF SCHISTOSOMIASIS: INSIGHTS FOR CONTROL AND ELIMINATION STRATEGIES

Obiageli Josephine Nebe[1], **Juliana A. Amanyi Enegela**[2], Jacob Solomon[1], Rita Omohode Urude[1], Rinpan Ishaya[3], Girija Sankar[2], Bosede Eunice Ogundipe[4], Abdurrahman Sadiq Tsimiri[4], Abubakar Abba[4], Joseph Kumbur[5], Bright Ekweremadu[5], Chistopher Ogoshi[3], Moses Aderogba[6], Louise Makau-Barasa[7]
[1]Federal Ministry of Health, Abuja, Nigeria, [2]CBM Christoffel Blindenmission CBM e.V, Cambridge, United Kingdom, [3]Health and Development Support Programme (HANDS), Jos, Nigeria, Jos, Nigeria, [4]Department of Public Health, Federal Capital Territory Administration, Abuja, Abuja, Nigeria, [5]CBM Christoffel Blindenmission CBM e.V, Abuja, Nigeria, [6]The END Fund, Abuja, Nigeria, [7]The END Fund, New York, NY, United States

7097

COMPARATIVE GENOMIC EVOLUTIONARY ANALYSIS OF BIOMPHALARIA SUDANICA, A NEGLECTED INTERMEDIATE HOST VECTOR OF SCHISTOSOMIASIS

Tom Pennance[1], Javier Calvelo[2], Jacob A. Tennessen[3], Stephanie R. Bollmann[4], Michael S. Blouin[4], Johannie M. Spaan[1], George Ogara[5], Fredrick Rawago[5], Kennedy Andiego[5], Boaz Mulonga[5], Meredith Odhiambo[5], Eric S. Loker[6], Andrés Iriarte[2], Maurice Odiere[5], Michelle L. Steinauer[1]
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(ACMCIP Abstract)

7098

RE-ASSESSING THERMAL SENSITIVITY OF SCHISTOSOMIASIS TRANSMISSION RATES IN THE ERA OF CLIMATE CHANGE: EVIDENCE OF A HIGHER THERMAL OPTIMUM THAN PREVIOUSLY PREDICTED

Giulio A. De Leo[1], Ibrahim H. Aslan[1], Andrew J. Chamberlin[1], Kaitlyn Mitchell[1], Alyson L. Singleton[2], Caroline K. Glidden[3], Erin A. Mordecai[4], Roberta Lima Caldeira[5], Miguel AMV Monteiro[6], Vivian Silva[6], Adriano Pinter[7], Roseli Tuan[8], Raquel GS Palasio[9], Eliezer K. N'Goran[10], Nana Rose Diakite'[10], Mamadou Ouattara[10], Fiona Allan[11], Andrew S. Brierley[11], Dave Little[12], Rachel Norman[12], Reed Ozretich[12], Ping Liu[13], Kamazima Lwiza[13], Thiago A. Pereira[14], Susanne H. Sokolow[1], Chelsea C. Wood[15]
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7099

USING WHO SCHISTOSOMIASIS COMMUNITY DATA COLLECTION FORM TO IDENTIFY FACTORS CONTRIBUTING TO HIGH PREVALENCE IN MALI

Mahamadou Traore[1], **Modibo Keita**[2], Fatoumata Koundou Maiga[1], Boubacar Guindo[2], Mama Nielé Doumbia[2], Lamine Diarra[2], Salif Seriba Doumbia[3], Cheick Amadou Tidiane Traore[1], Yacouba Sangaré[1], Alex Karl Brown[2], Benoit Dembele[4], Yaya Ibrahim Coulibaly[3], Anna Phillips[5], Cleo Stern[6], Steven D. Reid[6], Yaobi Zhang[6], Angela Weaver[6]
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7100

SCHISTOSOMA OCCUPATIONAL EXPOSURE RISK IN RICE FIELDS IN THE SENEGAL RIVER BASIN

Emily Selland[1], Alexandra Sack[1], Sidy Bakhoum[1], Meghan Forstchen[1], Nicolas Jouanard[2], Momy Seck[2], Jason Rohr[1]
[1]University of Notre Dame, Notre Dame, IN, United States, [2]Station d'Innovation Aquacole, Saint-Louis, Senegal

7101

BARRIERS TO FEMALE GENITAL SCHISTOSOMIASIS CARE MANAGEMENT IN NIGERIA; COMMUNITY MEMBERS AND HEALTH WORKERS PERSPECTIVES

Omosefe Osinoiki[1], Martins Imhansoloeva[1], Oluwole Akinola[1], Solomon Jacob[2], Richard Selby[3], Obiageli Nebe[2]
[1]Sightsavers, Abuja, Nigeria, [2]Federal Ministry of Health, Abuja, Nigeria, [3]Sightsavers, West Sussex, United Kingdom

7102

A SURFING PARASITE: HOW SCHISTOSOME CERCARIAE COUPLE TO INTERFACIAL BOUNDARIES TO EXTEND DISPERSION AND DISEASE SPREAD

Melanie Hannebelle[1], Ian Ho[1], Alassane Ndiaye[2], Manu Prakash[1]
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Water, Sanitation, Hygiene and Environmental Health

7103

INVESTIGATING THE PRESENCE OF SALMONELLA SPP. IN LOCALLY MADE CHEESE IN MONTERÍA, CORDOBA, COLOMBIA IN 2021

Linda M. Chams[1], Jorge D. Arrieta[2], Carlos J. Castro[1]
[1]Universidad de Córdoba, Monteria, Colombia, [2]Universidad de Córdoba, Barranquilla, Colombia

7104

IMPACT OF THE WASH IN SCHOOLS FOR EVERYONE (WISE) PROGRAMME ON THE HEALTH AND SCHOOL ATTENDANCE OF KINDERGARTENERS IN ADDIS ABABA, ETHIOPIA: A CLUSTER-RANDOMISED CONTROLLED TRIAL

Sarah Bick[1], Charles Opondo[1], Baptiste Leurent[2], Oliver Cumming[1], Alem Ezezew[3], Elizabeth Allen[1], Robert Dreibelbis[1]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]University College London, London, United Kingdom, [3]Holster International Research and Development Consultancy, Addis Ababa, Ethiopia

7105

ASSESSMENT OF KNOWLEDGE ATTITUDES AND PRACTICE KAP OF HAND WASHING HYGIENE AND THE ROLE OF PREVENTION PROJECT OF INFECTION CONTROL, GEZIRA STATE, SUDAN 2022

Dania Akasha[1], Mazin Osman[2]
[1]University of Gezira , Faculty of medicine, Wad medani, Sudan, [2]King Fahad Hospital albaha, Al baha, Saudi Arabia

7106

USE OF ENRICHMENT MNGS METHOD TO IDENTIFY RESPIRATORY PATHOGENS IN WASTEWATER FROM TREATMENT PLANT LOCATION IN SALVADOR, BAHIA, BRAZIL

Luciane Amorim Santos[1], Laise Eduarda Paixão de Moraes[1], Pablo Alessandro Barbosa Viana[2], Pedro Milet Meirelles[3], Tiago Gräf[4], Pablo Ivan Pereira Ramos[1], Manoel Barral-Netto,[1], Ricardo Khouri[1]
[1]Instituto Gonçalo Moniz, Fiocruz, Salvador, Brazil, [2]Instituto de Biologia da Universidade Federal da Bahia, Salvador, Brazil, [3]IInstituto de Biologia da Universidade Federal da Bahia, Salvador, Brazil, [4]Instituto Carlos Chagas, Fiocruz, Curitiba, Brazil

7107

CHOLERA OUTBREAK IN THE MIFI HEALTH DISTRICT OF CAMEROON, A CASE-CONTROL STUDY, JULY 2022

Ncham Evaristus Ngong[1], Flore Estelle Balana Esiene[1], Patricia Mendjime[1], Etoundi Evouna Antoine De Padoue[2], Evouna Armel Mbarga[1]
[1]Cameroon Field Epidemiology Training Program, Yaounde, Cameroon, [2]National Tuberculosis Control Program, Yaounde, Cameroon

7108

CONTROLLED BEFORE-AND-AFTER STUDY OF A MULTI-MODAL HAND HYGIENE INTERVENTION IN HEALTHCARE FACILITIES IN CAMBODIA

Elisabeth Tadiri[1], Leang Supheap[2], Naisim Sum[3], Senghort Ret[3], Channara Thea[3], Bernice Sarpong[4], **Robert Dreibelbis**[1]
[1]LSHTM, London, United Kingdom, [2]NIPH, Phnom Penh, Cambodia, [3]WaterAid Cambodia, Phnom Penh, Cambodia, [4]WaterAid Australia, Melbourne, Australia

7109

FACTORS INFLUENCING HOUSEHOLD WASH PRACTICES

Andrea L. Smith, Alessandra Bazzano, Emily W. Johansson, Udochisom Anaba, Paul L. Hutchinson
Tulane University, New Orleans, LA, United States

7110

BEHAVIORAL DETERMINANTS OF ARSENIC-SAFE WATER USE AMONG GREAT PLAINS INDIAN NATION PRIVATE WELL USERS: RESULTS FROM THE COMMUNITY-LED STRONG HEART WATER STUDY PROGRAM

Kelly Endres[1], Tracy Zacher[2], Francine Richards[2], Lisa Bear Robe[2], David Harvey[3], Lyle G. Best[2], Reno Red Cloud[4], Annabelle Black Bear[5], Steve Ristau[6], Dean Aurand[6], Leslie Skinner[5], Christa Cuny[7], Marie Gross[7], Elizabeth D. Thomas[1], Ana Rule[1], Kellogg Schwab[1], Lawrence H. Moulton[1], Marcia O'Leary[5], Ana Navas-Acien[8], Christine Marie George[1]
[1]Johns Hopkins Bloomberg School of Public Hlth, Maryland, MD, United States, [2]Missouri Breaks Industries Research Inc., Eagle Butte, SD, United States, [3]Indian Health Service, Rockville, MD, United States, [4]Environmental Resource Department, Oglala Sioux Tribe, Rapid City, SD, United States, [5]Missouri Breaks Industries Research, Inc, Eagle Butte, SD, United States, [6]Mid Continent Testing Labs, Inc, Rapid City, SD, United States, [7]Missouri Breaks Industries Research, Inc, Eagle Butte, SD, United States, [8]Columbia University Mailman School of Public Health, New York, NY, United States

7111

MICROPLASTICS EXPOSURE AND THEIR ASSOCIATION WITH DIARRHOEA, GROWTH, AND DEVELOPMENT OF CHILDREN IN MALI

Cheick Sidya Sidibé[1], Youssouf Diarra[1], Modibo Telly[1], Alice Phillips[2], Lee Haverson[2], Uwe Schneidewindt[2], Liam Kelleher[2], Evans a. Asamane[3], Stefan Krause[2], Neil Thomas[2], Iseult Lynch[2], Ousmane Koita[1], Ousmane Toure[1], Semira Manaseki Holland[3]
[1]University of sciences, Techniques and Technologies of Bamako, Bamako, Mali, [2]School of Geography, Earth and Environmental Sciences, University of Birmingham, Birmingham, United Kingdom, [3]Institute of Applied Health Research, University of Birmingham, Birmingham, United Kingdom

7112

BEHAVIORAL AND ENVIRONMENTAL FACTORS ASSOCIATED WITH SELF-REPORTED DIARRHEA AND ENTERIC PATHOGEN DETECTION IN INFANTS DISCOVERED BY COMPARING HOUSEHOLD CLUSTERS WITH DISTINCT LIVING CONDITIONS

Kelly K. Baker[1], Daniel Sewell[1], Jane Mumma[2], Oliver Cumming[3], Robert Dreibelbis[3], Sheillah Simiyu[4]
[1]University of Iowa, Iowa City, IA, United States, [2]Great Lakes University of Kisumu, Kisumu, Kenya, [3]London School of Hygiene & Tropical Medicine, London, United Kingdom, [4]African Population and Health Research Center, Nairobi, Kenya

Clinical Group (ACCTMTH) Past Presidents Meeting

Michigan 1A - Concourse Level (East Tower)
Saturday, October 21, 11:15 a.m. - 12:30 p.m. U.S. Central Time Zone

Symposium 117

LIVE STREAMING

Demystifying NIH Grants for Trainees

Grand Ballroom CDEF - Ballroom Level (East Tower)
Saturday, October 21, 11:15 a.m. - 12:30 p.m. U.S. Central Time Zone

Brief presentation then Q and A with Dr. LeShawndra Price, PhD, Director of the Office of Research Training and Special Programs, NIAID, about trainee opportunities from pre-doc to transition to faculty, including efforts to diversify the pool of NIH-funded scientists through programs like MOSAIC and PACE.

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

11:15 a.m.
INTRODUCTION

11:20 a.m.
NIAID OPPORTUNITIES
LeShawndra N. Price
National Institute of Allergy and Infectious Diseases, Rockville, MD, United States

Meet the Professors Session 118

Meet the Professors Session C – Persistent Fevers

Grand Hall K - Ballroom Level (East Tower)
Saturday, October 21, 11:15 a.m. - 12:30 p.m. U.S. Central Time Zone

Meet the Professors sessions are valuable learning experiences for trainees and practicing clinicians to hear about clinical reasoning from leaders in the field. Persistent fever represents an important clinical syn-drome encountered in tropical medicine. This Meet the Professors session will feature cases from a clinician practicing in India (Dr. Tapadar), and a clinician practicing travel/tropical medicine in the USA (Dr. Gunaratne).

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

11:15 a.m.
PRESENTATION #1
Jaya Chakravarty Tapadar
Institute of Medical Sciences, Banaras Hindu University, Varanasi, India

11:35 a.m.
PRESENTATION #2
Shauna Gunaratne
Columbia University Irving Medical Center, Bronx, NY, United States

Late-Breaker Abstract Session 119

Late-Breakers in Virology

Grand Hall L - Ballroom Level (East Tower)
Saturday, October 21, 11:15 a.m. - 12:30 p.m. U.S. Central Time Zone

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
Noreen A. Hynes
Johns Hopkins School of Medicine, Baltimore, MD, United States

Wei-Kung Wang
John A. Burns School of Medicine, University of Hawaii at Manoa, Honolulu, HI, United States

Poster Session C Viewing

Riverside Center - Exhibit Level (East Tower) and Grand Hall GHI – Ballroom Level (East Tower)
Saturday, October 21, 12:45 p.m. - 3 p.m.

Scientific Session 120

Global Health: Maternal, Newborn and Child Health and Nutrition

Grand Ballroom A - Ballroom Level (East Tower)
Saturday, October 21, 12:45 p.m. - 2:30 p.m. U.S. Central Time Zone

CHAIR
Miguel Reina Ortiz
Boise State University, ID, United States

Mary Iwaret Otiti
Kenya Medical Research Institute- Centre for Global Health Research (KEMRI-CGHR), Kisumu, Kenya

12:45 p.m. 7113

EARLY LIFE DIETARY SUPPLEMENTATION OF PROBIOTICS AND SYNBIOTICS IMPROVES GUT HEALTH AND REDUCES SYSTEMIC INFLAMMATION AMONG INFANTS IN WESTERN KENYA: AN OPEN-LABEL RANDOMIZED CONTROLLED TRIAL

Mary Iwaret Otiti[1], Simon Kariuki[1], Micah J. June[1], Alloys O. K'Oloo[1], David O. Otieno[1], Kephas O. Otieno[1], James Dodd[2], Duolao Wang[2], Lindsay J. Hall[3], Feiko ter Kuile[2], Stephen J. Allen[2]
[1]*Kenya Medical Research Institute- Centre for Global Health Research (KEMRI-CGHR), Kisumu, Kenya,* [2]*Liverpool School of Tropical Medicine, Liverpool, United Kingdom,* [3]*Quadrum Institute of Bioscience, Norwich, United Kingdom*

Saturday October 21

1 p.m. 7114

TARGETING INFLAMMATION IN CHILDHOOD MALNUTRITION: A RANDOMIZED CONTROLLED CLINICAL TRIAL OF ADDITION OF FISH OIL TO THE STANDARD OF CARE NUTRITIONAL INTERVENTION

Mark Muchina[1], Mary Inziani[1], Beatrice Olack[1], Mary Muriu[1], Finnley Osuna[1], Chris L. Melby[2], Margaret Mbuchi[1], Thaddeus Egondi[1], Linet Ouma[1], Rukia Kibaya[1], Adam Chicco[3], Asma Omar[3], Peter C. Melby[4], Phelgona Otieno[1]

[1]Kenya Medical Research Institute, Nairobi, Kenya, [2]Colorado state University, Ft. Collins, CO, United States, [3]Colorado State University, Ft. Collins, CO, United States, [4]University of Texas Medical Branch, Galveston, TX, United States

1:15 p.m. 7115

CHILD STUNTING FROM BIRTH TO AGE TWO: A LONGITUDINAL COHORT STUDY IN AMHARA, ETHIOPIA

Frederick G. B. Goddard[1], **Bezawit M. Hunegnaw**[2], Jonathan Luu[3], Sebastien Haneuse[3], Mesfin Zeleke[4], Yahya Mohammed[4], Chalachew Bekele[4], Delayehu Bekele[5], Grace J. Chan[6]

[1]Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA, United States, [2]Department of Pediatrics and Child Health, St Paul's Hospital Millennium Medical College, Addis Ababa, Ethiopia, [3]Department of Biostatistics, Harvard T.H. Chan School of Public Health, Boston, MA, United States, [4]BIRHAN HDSS, St Paul's Hospital Millennium Medical College, Addis Ababa, Ethiopia, [5]Department of Obstetrics and Gynecology, St Paul's Hospital Millennium Medical College, Addis Ababa, Ethiopia, [6]Division of Medicine Critical Care, Boston Children's Hospital, Harvard Medical School; Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA, United States

1:30 p.m. 7116

MICRONUTRIENT STATUS DURING PREGNANCY IS ASSOCIATED WITH YOUNG CHILD TELOMERE LENGTH

Farheen Jamshed[1], Shahjahan Ali[2], Sophia T. Tan[3], Andrew N. Mertens[4], Jue Lin[5], Zachary Butzin-Dozier[4], Md. Ziaur Rahman[2], Rubhana Raqib[2], Douglas A. Granger[6], Anjan K. Roy[2], Abul K. Shoab[2], Firdaus S. Dhabhar[7], Syeda L. Famida[2], Md. Saheen Hossen[2], Palash Mutsuddi[2], Salma Akther[2], Mahbubur Rahman[2], Juergen Erhardt[8], Idan Shalev[9], John M. Colford Jr.[4], Stephen P. Luby[10], Lia C. H. Fernald[11], Christine P. Stewart[12], Audrie Lin[9]

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

1:45 p.m. 7117

MICRONUTRIENT STATUS DURING PREGNANCY IS ASSOCIATED WITH CHILD IMMUNE STATUS IN RURAL BANGLADESH

Da Kyung Jung[1], Sophia T. Tan[2], Caitlin Hemlock[1], Andrew N. Mertens[1], Christine P. Stewart[3], Md. Ziaur Rahman[4], Shahjahan Ali[4], Rubhana Raqib[4], Jessica A. Grembi[5], Mohammed Rabiul Karim[4], Sunny Shahriar[4], Anjan Kumar Roy[4], Sarah Bakir[1], Abul K. Shoab[4], Syeda L. Famida[4], Md. Saheen Hossen[4], Palash Mutsuddi[6], Salma Akther[4], Mahbubur Rahman[4], Leanne Unicomb[4], Lisa Hester[7], Douglas A. Granger[8], Juergen Erhardt[9], Ruchira Tabassum Naved[4], Md. Mahfuz Al Mamun[4], Kausar Parvin[4], John M. Colford Jr.[1], Lia C. H. Fernald[1], Stephen P. Luby[5], Firdaus S. Dhabhar[10], Audrie Lin[11]

[1]University of California, Berkeley, Berkeley, CA, United States, [2]University of California, San Francisco, San Francisco, CA, United States, [3]University of California, Davis, Davis, CA, United States, [4]International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, [5]Stanford University, Palo Alto, CA, United States, [6]International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, CA, United States, [7]University of Maryland, Baltimore, MD, United States, [8]University of California, Irvine, Irvine, CA, United States, [9]VitMin Lab, Willstätt, Germany, [10]University of Miami, Miami, FL, United States, [11]Pennsylvania State University, University Park, PA, United States

2 p.m. 7119

SEROPREVALENCE FOR NOVEL ORAL POLIOVIRUS VACCINE TYPE 2 (NOPV2) FOLLOWING OUTBREAK RESPONSE IN LIBERIA: FINDINGS, IMPLICATIONS & FUTURE DIRECTIONS

Gloria M. Ross[1], Stephen B. Kennedy[1], Mark WS Kieh[1], Moses BF Massaquoi[1], Hannah Berrian[2], Grace R. Macklin[3], Ondrej Mach[3]

[1]West African Consortium for Clinical Research on Epidemic Pathogens (WAC-CREP), Monrovia, Liberia, [2]UL-PIRE Africa Center, University of Liberia, Monrovia, Liberia, [3]Polio Department, World Health Organization (WHO), Geneva, Switzerland

Scientific Session 121

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Parasite Drug Resistance, Genomics and Biomarkers

Grand Ballroom B - Ballroom Level (East Tower)

Supported with funding from the Burroughs Wellcome Fund

Saturday, October 21, 12:45 p.m. - 2:30 p.m. U.S. Central Time Zone

CHAIR

Selina Bopp
Harvard T.H. Chan School of Public Health, Boston, MA, United States

William J. Sears
NIAID, Bethesda, MD, United States

12:45 p.m. 7120

GENOMIC SURVEILLANCE OF TRICLABENDAZOLE RESISTANCE IN FASCIOLA HEPATICA

Young-Jun Choi[1], Bruce A. Rosa[1], Martha V. Fernandez-Baca[2], Rodrigo A. Ore[2], John Martin[1], Miguel M. Cabada[3], Makedonka Mitreva[1]

[1]Washington University School of Medicine, St. Louis, MO, United States, [2]The Instituto de Medicina Tropical Alexander von Humboldt, Cusco, Peru, [3]University of Texas Medical Branch John Sealy School of Medicine, Galveston, TX, United States

1 p.m. 7121

NATURAL VARIATION IN A PARASITIC FLATWORM ION CHANNEL UNDERPINS DIFFERENTIAL SENSITIVITY OF PARASITES TO PRAZIQUANTEL

Claudia M. Rohr, Daniel J. Sprague, Sang-Kyu Park, Nicholas J. Malcolm, Jonathan S. Marchant
Medical College of Wisconsin, Milwaukee, WI, United States

1:15 p.m. 7122

CHARACTERIZATION OF AN ENDOGENOUS ION CHANNEL ACTIVATED BY PRAZIQUANTEL WITHIN A LIVE, ADULT SCHISTOSOME

Evgeny G. Chulkov, Jonathan S. Marchant
Medical College of Wisconsin, Milwaukee, WI, United States

1:30 p.m. 7123

CHROMOSOME LEVEL ASSEMBLY OF BAYLISASCARIS PROCYONIS GENOME

William Sears[1], Sriveny Dangoudoubiyam[2], Sasisekhar Bennuru[1], Pedro Gazzinelli-Guimaraes[1], Myndi Holbrook[3], Craig Martens[3], Kent Barbian[3], Kimmo Virteneva[3], Shelise Brooks[4], Gerard Bouffard[1], Thomas Nutman[1]
[1]NIAID, Bethesda, MD, United States, [2]Purdue, West Lafayette, IN, United States, [3]NIAID, Hamilton, MT, United States, [4]NISC, Rockville, MD, United States

1:45 p.m. 7124

A UNIVERSAL METABARCODING PIPELINE AND HOST SIGNAL REDUCTION METHOD FOR CHARACTERIZATION OF VERTEBRATE SYMBIONT/PARASITE ASSEMBLAGES

Leah Ann Owens[1], Sagan Friant[2], Bruno Martorelli Di Genova[3], Laura J. Knoll[1], Monica Contreras[4], Oscar Noya[5], Maria G. Dominguez-Bello[6], Tony L. Goldberg[1]
[1]University of Wisconsin-Madison, Madison, WI, United States, [2]The Pennsylvania State University, University Park, PA, United States, [3]The University of Vermont, Burlington, VT, United States, [4]Venezuelan Institute of Scientific Research, Caracas, Bolivarian Republic of Venezuela, [5]Universidad Central de Venezuela, Caracas, Bolivarian Republic of Venezuela, [6]Rutgers University, New Brunswick, NJ, United States

2 p.m. 7125

THE PROGNOSTIC POTENTIAL OF BIOMARKERS ASSOCIATED WITH FILARIAL LYMPHEDEMA DEVELOPMENT

Derrick Adu Mensah[1], Linda Batsa Debrah[1], Vera Serwaa Opoku[1], Jubin Osei-Mensah[2], Charles Gyasi[1], Patricia Jebett Korir[3], Manuel Ritter[4], Tomabu Adjobiney[4], Ute Klarmann-Schulz[3], Achim Hoerauf[3], Alexander Yaw Debrah[5]
[1]Department of Clinical Microbiology, Kwame Nkrumah University of Science and Technology, KUMASI, Ghana, [2]Department of Veterinary Pathobiology, Kwame Nkrumah University of Science and Technology, KUMASI, Ghana, [3]Institute for Medical Microbiology, Immunology and Parasitology, University Hospital Bonn, Germany/German Center for Infection Research (DZIF), partner site Bonn-Cologne, Germany, Bonn, Germany, [4]Institute for Medical Microbiology, Immunology and Parasitology, University Hospital Bonn, Germany, Bonn, Germany, [5]Department of Medical Diagnostics, Kwame Nkrumah University of Science and Technology, KUMASI, Ghana

2:15 p.m. 7126

MULTIANTIGEN PRINT IMMUNOASSAY (MAPIA): TOWARDS A GLOBALLY ACCESSIBLE SEROLOGICAL DIAGNOSIS OF NEUROCYSTICERCOSIS

Luz M. Toribio[1], Carolina Guzman[1], Sassan Noazin[2], Herbert Saavedra[3], Javier Bustos[1], Sukwan Handali[4], Hector H. Garcia[1]
[1]Center for Global Health, Universidad Cayetano Heredia, Lima, Peru, [2]Department of International Health, Bloomberg School of Public Health. Johns Hopkins University, Baltimore, MD, United States, [3]Instituto Nacional de Ciencias Neurologicas, Lima, Peru, [4]Division of Parasitic Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States

ASTMH Annual Business Meeting Session 122

Grand Hall J - Ballroom Level (East Tower)
Saturday, October 21, 12:45 p.m. - 1:45 p.m. U.S. Central Time Zone

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

CHAIR
Kent E. Kester
IAVI, New York, NY, United States

Karen A. Goraleski
American Society of Tropical Medicine and Hygiene, Arlington, VA, United States

Symposium 123 LIVE STREAMING

To Infinity and Beyond: The Tale of Eradication, Why it Matters and the Lessons Learned from Smallpox, Rinderpest, Polio and Guinea Worm

Grand Ballroom CDEF - Ballroom Level (East Tower)
Saturday, October 21, 12:45 p.m. - 2:30 p.m. U.S. Central Time Zone

To date, the World Health Organization (WHO) has declared only two diseases officially eradicated: Smallpox caused by variola virus (VARV) and Rinderpest caused by the rinderpest virus (RPV). Three other diseases are targeted for eradication: polio caused by wild polio virus (WPV), Guinea worm caused by the parasite Dracunculiasis medinensis, and Yaws caused by the bacteria Treponema pallidum pertenue, per World Health Assembly resolutions. The Global Polio Eradication program has successfully eradicated WPV 2 and 3, with efforts to eradicate WPV 1 still underway. The global Guinea worm Eradication program has certified 200 countries free of Guinea worm, with 5 endemic and 1 pre-certification country remaining. Yaws is currently endemic in at least 9 countries. Neglected tropical diseases (NTDs) are a group of 20 diseases that impact more than 1 billion people worldwide, predominantly in tropical and impoverished areas. They cause devastating health, social and economic consequences. Strategies to address the burden of NTDs include control, elimination and eradication measures and are implemented through local, regional and national active and/or passive surveillance systems. Disease eradication is often considered the holy grail for addressing disease, as eradication provides global benefits through improved health outcomes and financial savings in perpetuity. However, tension persists between the investment and prioritization of vertical structures and the desire for integration. Integrating disease control and elimination programs into existing health systems, when feasible may reduce costs, but can sacrifice attention to detail and the speed of progress. Past and ongoing eradication programs have demonstrated that a narrow focus on diseases can accelerate the achievement of global health goals and strengthen health systems. Drawing on the successful campaign to eradicate smallpox and rinderpest, and ongoing efforts to eradicate Polio and Guinea worm disease, this symposium will highlight the approaches taken to eradicate Smallpox and Rinderpest, with discourse describing the contribution of eradication and holistic approaches (e.g., One Health) to disease eradication. Ongoing efforts to eradicate Guinea worm and Polio and lessons learned will be described, including

their contributions to health system strengthening and the reduction of global burden of NTDs. Finally, symposium panelists will discuss country-level perspectives on eradication in insecure settings and contributions to health system strengthening to inform future disease eradication efforts.

CHAIR

Kashef Ijaz
The Carter Center, Atlanta, GA, United States

Sharon L. Roy
Centers for Disease Control and Prevention, Atlanta, GA, United States

12:45 p.m.
INTRODUCTION

12:55 p.m.
DISEASE ERADICATION: FROM MOONSHOT TO REALITY AND THE RESIDUAL BENEFITS FOR HUMANKIND

Donald R. Hopkins
The Carter Center, Atlanta, GA, United States

1:10 p.m.
FROM SMALLPOX TO POLIO: LESSONS LEARNED AND WHY IT MATTERS

Walter Orenstein
Emory University - Emory Vaccine Center, Atlanta, GA, United States

1:25 p.m.
FREEDOM FROM RINDERPEST: HOW TO BUILD A GLOBAL COMMUNITY FOR A GLOBAL GOOD

David M. Morens
National Institute of Allergy and Infectious Diseases (NIAID)/National Institutes of Health, Bethesda, MD, United States

1:40 p.m.
WHAT DISEASE ERADICATION MEANS IN ETHIOPIA

Lia Tadesse
Ministry of Health, Federal Democratic Republic of Ethiopia, Addis Ababa, Ethiopia

1:55 p.m.
MODERATOR, PANEL DISCUSSION

Kashef Ijaz
The Carter Center, Atlanta, GA, United States

Symposium 124

Applications of Novel Functional Genomic Approaches in *Plasmodium falciparum* to Elucidate Antimalarial Action and Genetic Determinants of Drug Resistance and Host Red Blood Cell Invasion

Grand Hall K - Ballroom Level (East Tower)
Saturday, October 21, 12:45 p.m. - 2:30 p.m. U.S. Central Time Zone

This symposium aims to showcase the application of novel and cutting-edge genetic, genomic and proteomic technologies to elucidate the action of antimalarial compounds, identify resistance markers, and understand the mechanisms of host cell invasion in human malaria *Plasmodium falciparum* parasites. The symposium commences with a presentation on thermal profiling proteomics (TPP) techniques to identify drug targets in the asexual stage of *Plasmodium* parasites using drug treatments on intact cells and lysates. The speaker will present their latest results of the TPP approach on defining protein targets to artemisinin and a variety of antimalarial compounds. The second presentation will highlight the use of functional screens on a high-coverage genome library to identify candidate determinants of resistance to antimalarial drugs such as chloroquine and mefloquine. The third speaker will present their latest findings on the identification and validation of new genetic markers of resistance to antimalarial drugs including piperaquine, artemisinin, chloroquine and quinine, as well as to pre-clinical compounds by leveraging *P. falciparum* genetic crosses performed in a humanized mouse model. Our fourth speaker will present data combining genomic epidemiological analyses with *P. falciparum* genetic cross studies to investigate the role of pfaat1 in the evolution and selection of pfcrt alleles and its impact on chloroquine resistance. Our final speaker will demonstrate the application of CRISPR/Cas9-based screens and genetic crosses to study the key determinants in invasion-related processes of asexual blood stage parasites, which can serve as useful targets for drug and vaccine development.

CHAIR

David A. Fidock
Columbia University Irving Medical Center, New York, NY, United States

Sachel Mok
Columbia University Irving Medical Center, New York, NY, United States

12:45 p.m.
INTRODUCTION

12:55 p.m.
DECIPHERING ANTIMALARIAL DRUG MODES OF ACTION BY THERMAL PROFILING PROTEOMICS

Zbynek Bozdech
Nanyang Technological University, Singapore, Singapore

1:15 p.m.
GENOME-WIDE FUNCTIONAL SCREENING OF DRUG RESISTANCE GENES IN *PLASMODIUM FALCIPARUM* USING AN ARTIFICIAL CHROMOSOME SYSTEM

Shiroh Iwanaga
Osaka University, Osaka, Japan

1:35 p.m.
ELUCIDATING THE GENETIC DETERMINANTS OF ANTIMALARIAL DRUG RESISTANCE USING *PLASMODIUM FALCIPARUM* GENETIC CROSSES IN A HUMANIZED MOUSE MODEL

Sachel Mok
Columbia University Irving Medical Center, New York, NY, United States

1:55 p.m.
THE AMINO ACID TRANSPORTER PFAAT1 MODULATES CHLOROQUINE RESISTANCE AND FITNESS IN MALARIA PARASITES

Xue Li
Texas Biomedical Research Institute, San Antonio, TX, United States

2:15 p.m.

FORWARD GENETIC SCREENS TO IDENTIFY ESSENTIAL DETERMINANTS OF RED BLOOD CELL INVASION BY MALARIA PARASITES

Manoj Duraisingh
Harvard School of Public Health, Boston, MA, United States

Scientific Session 125

Nematodes

Grand Hall L - Ballroom Level (East Tower)
Saturday, October 21, 12:45 p.m. - 2:30 p.m. U.S. Central Time Zone

CHAIR
Ayman Elbadry
Cairo University Kasr Al-Ainy Faculty of Medicine, Cairo, Egypt

Jill Weatherhead
National School of Tropical Medicine Baylor College of Medicine, Houston, TX, United States

12:45 p.m. 7127

EPIDEMIOLOGY OF HOOKWORM (NECATOR AMERICANUS) IN BEPOSO, GHANA: APPLICATION OF MOLECULAR AND SEROLOGIC METHODS TO DEFINE THE PREVALENCE OF INFECTION

Savanna Randi[1], Irene O. Owusu Donkor[2], Jeffrey Sumboh[2], Dickson Osabutay[2], Rahmat bin Yusuf[2], Francis Appiah-Twum[2], Amanda Lamptey[2], Christina Paraggio[3], Lisa M. Harrison[1], Debbie Humphries[1], Michael D. Wilson[2], Michael Cappello[1]
[1]Yale School of Public Health, New Haven, CT, United States, [2]University of Ghana, Accra, Ghana, [3]Yale School of Medicine, New Haven, CT, United States

1 p.m. 7128

BIOMETRIC DATA CAPTURE DURING SOIL-TRANSMITTED HELMINTHS AND SCHISTOSOMIASIS MASS DRUG ADMINISTRATION IN A LARGE-SCALE GESHIYARO PROJECT

Ewnetu Firdawek Liyew[1], Melkie Chernet Leikun[1], Rosie Maddren[2], Roy Anderson[2]
[1]Ethiopian Public Health Institute, Addis Ababa, Ethiopia, [2]Imperial College, London, London, United Kingdom

1:15 p.m. 7129

RAPID SPREAD OF TRICHURIS TRICHIURA INFECTION FOLLOWING TREATMENT AMONG POPULATION LIVING IN RURAL AREAS OF GABON, CENTRAL AFRICA

Jean Claude Dejon Agobé[1], Christian Chassem Lapue[1], Jean Ronald Edoa[1], Jeannot Fréjus Zinsou[1], Yabo Josiane Honkpéhèdji[1], Romeo Bayodé Adegbitè[1], Stravensky Térence Boussougou-Sambe[1], Tamirat Gebru Woldearegai[2], Benjamin Mordmüller[3], Ayôla Akim Adegnika[1]
[1]Centre de Recherches Médicales de Lambaréné (CERMEL), Lambaréné, Gabon, [2]Institut für Tropenmedizin, Universitätsklinikum Tübingen, Tübingen, Germany, [3]Department of Medical Microbiology, Radboud University Medical Center, Nijmegen, Netherlands

1:30 p.m. 7130

NATURAL AND VACCINE-MEDIATED IMMUNITY TO NIPPOSTRONGYLUS BRASILIENSIS

Neima Briggs, Aurobind Vidyarthi, Joseph Craft
Yale University, New Haven, CT, United States

1:45 p.m. 7131

WASTEWATER-BASED EPIDEMIOLOGY FOR SOIL-TRANSMITTED HELMINTH SURVEILLANCE IN BENIN AND INDIA

Heather K. Amato[1], Edoux JE Siko[2], Malathi Manuel[3], Zayina Zondervenni[3], Michael Harris[1], Christopher LeBoa[4], Parfait Houngbegnon[2], Rohan M. Ramesh[3], Gideon J. Israel[3], Venkateshprabhu Janagaraj[3], Nils Pilotte[5], Steve Williams[6], Adrian JF Luty[7], Moudachirou Ibikounlé[2], Sitara SR Ajjampur[3], Amy J. Pickering[1]
[1]Department of Civil and Environmental Engineering, University of California, Berkeley, CA, United States, [2]Institut de Recherche Clinique du Bénin, Abomey-Calavi, Benin, [3]The Wellcome Trust Research Laboratory, Division of Gastrointestinal Sciences, Christian Medical College, Vellore, India, [4]Division of Environmental Health Sciences, Berkeley School of Public Health, University of California, Berkeley, CA, United States, [5]Department of Biological Sciences, Quinnipiac University, Hamden, CT, United States, [6]Department of Biological Sciences, Smith College, Northampton, MA, United States, [7]Institut de Recherche pour le Développement, Paris, France

2 p.m. 7132

TWENTY-FOUR MONTH LONGITUDINAL STUDY OF HOOKWORM INFECTION IN GHANAIAN SCHOOL CHILDREN

Irene A. Larbi[1], Debbie Humphries[2], Jana Lohrova[2], Molly McLaughlin[3], Luis Maldonado[2], Joseph Otchere[1], Josephine Quagraine[1], Sena Seddoh[1], Hibbah Saeed[1], George Mensah[1], Dickson Osabutey[1], Lisa M. Harrison[2], Hector Samani[1], Michael Cappello[2], Michael D. Wilson[1]
[1]Noguchi Memorial Institute for Medical Research, Accra, Ghana, [2]Yale School of Public Health, New Haven, CT, United States, [3]Yale University, New Haven, CT, United States

2:15 p.m. 7133

STRONGYLOIDES STERCORALIS COINFECTION IS ASSOCIATED WITH ALTERED SYSTEMIC CYTOKINE PROFILES, GREATER DISEASE SEVERITY, HIGHER BACTERIAL BURDENS AND INCREASED FREQUENCIES OF UNFAVORABLE TREATMENT OUTCOMES IN PULMONARY TUBERCULOSIS

Saravanan Munisankar
ICER-NIRT, Chennai, India

Symposium 126

Immune Mechanisms in Parasitic Diseases: Lesson Learned From Controlled Human Infection Models

Plaza Ballroom - Lobby Level (East Tower)
Saturday, October 21, 12:45 p.m. - 2:30 p.m. U.S. Central Time Zone

Neglected tropical diseases caused by protozoan and helminth parasites have a major impact on human health and economic development in many lower-and middle-income countries. Vaccines are widely regarded to be potentially effective tools for disease prevention and control but few vaccines for human NTDs exist. Over the past few years, controlled human infection models (CHIMs) have been developed for a variety of respiratory and enteric diseases of bacterial and viral origin, including cholera, typhoid, streptococcal infections and most recently SARS-CoV-2. The development of CHIMs for parasitic diseases has often required unique solutions to accommodate the complexity of parasite life cycles, but despite these challenges CHIMs have been developed for malaria, schistosomiasis, hookworm and, more recently, cutaneous leishmaniasis and trichuriasis. These parasite CHIMs provide new opportunities for validating existing vaccine candidates. Of equal importance, however, they provide unique opportunities to study the human immune response to parasitic infection in a timed and controlled manner and to

identify correlates of immunity that may fuel future vaccine development programs. The aim of this symposium is to bring together researchers conducting CHIMs of helminth and protozoal infections, to review new data and to compare and contrast methodological approaches to studying immunity during CHIM studies. This symposium will focus on the presentation of data that provides new mechanistic understanding and/or new insights into correlates of immunity, rather than reviewing the use of CHIMs to evaluate vaccines. After a brief Chair's introduction, specific talks will cover malaria, hookworm, cutaneous leishmaniasis, schistosomiasis and trichuriasis. The session will close with a moderated open discussion on future research priorities and how CHIMs might best be used to understand the immunopathogenesis of these important neglected parasitic diseases.

CHAIR

Paul M. Kaye
University of York, York, United Kingdom

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

12:45 p.m.
INTRODUCTION

12:55 p.m.
UNDERSTANDING IMMUNOREGULATION IN MALARIA USING CHIM STUDIES

Christian Engwerda
QIMR Berghofer, Brisbane, Australia

1:15 p.m.
USING A MALARIA CHIM TO IDENTIFY CORRELATES OF PROTECTION

Francis Ndungu
KEMRI, Kilifi, Kenya

1:35 p.m.
MAPPING THE IMMUNE RESPONSE TO SCHISTOSOMIASIS USING A CHIM

Emma L. Houlder
Leiden University Medical Centre, Leiden, Netherlands

1:55 p.m.
USING A CHIM TO STUDY LOCAL IMMUNE RESPONSES IN SAND FLY TRANSMITTED CUTANEOUS LEISHMANIASIS

Paul M. Kaye
University of York, Heslington, York, United Kingdom

2:15 p.m.
USING CHIMS TO UNDERSTAND THE IMMUNOLOGY OF HOOKWORM AND TRICHURIASIS

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

Symposium 127

Update on Malaria Management in Travelers 2023

Crystal Ballroom A - Lobby Level (West Tower)
Saturday, October 21, 12:45 p.m. - 2:30 p.m. U.S. Central Time Zone

The aim of the symposium is to provide updated information to healthcare providers and travel medicine specialists to help them better care for returning travelers who have malaria. A review of best practices and update on management is timely. We have brought together CDC experts from the Malaria Branch to discuss epidemiology and prevalence of travelers' malaria in the U.S. with an emphasis on best practices. Cerebral malaria, a severe complication of malaria, poses management challenges, and our discussant who has a large clinical experience with this presentation will discuss cases of severe malaria. Finally, our session will review the benefits and limitations of primaquine and tafenoquine for prevention and radical cure.

CHAIR

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

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

12:45 p.m.
INTRODUCTION

12:55 p.m.
REVIEW OF MALARIA AMONG TRAVELERS IN THE U.S.: SURVEILLANCE AND TREATMENT. PART I

Kimberly Mace
CDC, Atlanta, GA, United States

1:10 p.m.
REVIEW OF MALARIA AMONG TRAVELERS IN THE U.S.: SURVEILLANCE AND TREATMENT. PART II

Alison Ridpath
CDC, Atlanta, GA, United States

1:25 p.m.
MANAGEMENT OF CEREBRAL MALARIA: CASE BASED DISCUSSION

Terrie E. Taylor
Michigan State University, E. Lansing, MI, United States

2 p.m.
CLINICAL USE OF TAFENOQUINE VERSUS PRIMAQUINE: BEST PRACTICES

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

2:15 p.m.
CLINICAL USE OF TAFENOQUINE VERSUS PRIMAQUINE: BEST PRACTICES

Scott Weisenberg
NYU Langone Hospital, New York City, NY, United States

Scientific Session 128

Clinical Tropical Medicine: CNS Infections and HIV

Crystal Ballroom B - Lobby Level (West Tower)
Saturday, October 21, 12:45 p.m. - 2:30 p.m. U.S. Central Time Zone

CHAIR
John Sanders
Wake Forest University School of Medicine, Winston-Salem, NC, United States

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

12:45 p.m. 7134

ACUTE ENCEPHALITIS SYNDROME IN ADULTS IN EASTERN INDIA: AN AETIOLOGICAL STUDY

Jaya chakravarty Tapadar, Tulika Rai, shubham kashyap, sumit chatterjee, Gopal Nath
Institute of Medical Sciences, Banaras Hindu University, Varanasi, India

1 p.m. 7135

THE DIAGNOSIS OF SUBARACHNOID NEUROCYSTICERCOSIS IS OFTEN DELAYED AND OTHER FINDINGS OF A MULTICENTER RETROSPECTIVE IN THE USA

Janitzio Guzman[1], Jesica Herrick[2], Timothy J. Hatlen[3], Jill Weatherhead[4], Eva H. Clark[4], Jose Serpa[4], Felicia C. Chow[5], Paul Allyn[6], Noah Wald-Dickler[7], Martin Rodriguez[8], Natalie M. Bowman[9], Anna Cervantes-Arslanian[10], Christina Coyle[11], A. Clinton White[12], Senate Amusu[2], Dannae Martin[13], Megan M. Duffey[4], Travis Larsen[7], Elliott Welford[14], Jeffery Jenks[14], Annie N. Cowell[14], Andres F. Henao-Martinez[15], Carlos Franco-Paredes[16], Glenn Mathisen[17], Paola Lichtenberger[18], Rory Bouzigard[19], Laila Castellino[19], Elise M. O'Connell[1]
[1]National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, [2]University of Illinois at Chicago, Chicago, IL, United States, [3]The Lundquist Institute at Harbor-UCLA Medical Center, UCLA, CA, United States, [4]Baylor College of Medicine, Houston, TX, United States, [5]University of California San Francisco Medical Center, San Francisco, CA, United States, [6]David Geffen School of Medicine at UCLA, Los Angeles, CA, United States, [7]Los Angeles County + University of Southern California Medical Center, Los Angeles, CA, United States, [8]UAB Heersink School of Medicine, Birmingham, AL, United States, [9]University of North Carolina School of Medicine, Chapel Hill, NC, United States, [10]Boston University Medical Center, Boston, MA, United States, [11]Albert Einstein College of Medicine, New York, NY, United States, [12]University of Texas Medical Branch, Galveston, TX, United States, [13]The Lundquist Institute at Harbor-UCLA Medical Center, Los Angeles, CA, United States, [14]University of California San Diego Medical Center, San Diego, CA, United States, [15]University of Colorado School of Medicine, Aurora, CO, United States, [16]Colorado State University, Fort Collins, CO, United States, [17]Olive View-UCLA Medical Center, Bethesda, MD, United States, [18]University of Miami Miller School of Medicine, Miami, FL, United States, [19]University of Texas Southwestern Medical Center, Dallas, TX, United States

1:15 p.m. 7136

CO-INFECTION WITH STRONGYLOIDES STERCORALIS IN ADULTS WITH CRYPTOCOCCAL MENINGITIS IN AFRICA

Mary Foley[1], **Joseph Donovan**[2], Kwana Lechiile[3], Ronan Doyle[2], Monika Struebig[2], David B. Meya[4], Henry C. Mwandumba[5], Cecilia Kanyama[6], Graeme Meintjes[7], Tshepo Leeme[3], Chiratidzo E. Ndhlovu[8], Conrad Muzoora[4], David S. Lawrence[2], Thomas S. Harrison[9], Joseph N. Jarvis[2]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]Clinical Research Department, Faculty of Infectious and Tropical Diseases, London School of Hygiene & Tropical Medicine, London, United Kingdom, [3]Botswana Harvard AIDS Institute Partnership, Gaborone, Botswana, [4]Infectious Diseases Institute, College of Health Sciences, Makerere University, Kampala, Uganda, [5]Department of Medicine, Kamuzu University of Health Sciences, Blantyre, Malawi, [6]Lilongwe Medical Relief Trust (University of North Carolina Project), Lilongwe, Malawi, [7]Wellcome Centre for Infectious Diseases Research in Africa, Institute of Infectious Disease and Molecular Medicine, University of Cape Town, Cape Town, South Africa, [8]Internal Medicine Unit, Faculty of Medicine and Health Sciences, University of Zimbabwe, Harare, Zimbabwe, [9]Institute of Infection and Immunity, St George's University London, London, United Kingdom

1:30 p.m. 7137

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

Zoya Haq[1], Farah Qamar[2], Sonia Qureshi[2], Fatima Mir[2], Mohammad Tahir Yousafzai[2], Rabab Batool[2]
[1]Liaquat National Medical College, Karachi, Pakistan, [2]Aga Khan University Hospital, Karachi, Pakistan

1:45 p.m. 7138

TRIM-HIV: TARGETING THE RESTORATION OF INNATE IMMUNITY IN MEN WHO HAVE SEX WITH MEN WITH EARLY INITIATION OF ANTIRETROVIRAL THERAPY IN HIV-1 INFECTION FOR MANAGEMENT IN TROPICAL REGIONS

Matrona Akiso Mbendo, Robert Langa't, daniel Muema, Geoffrey Ombati, Omu Anzala, **Marianne W. Mureithi**
Univeristy of Nairobi, Nairobi, Kenya

2 p.m. 7139

ASSOCIATION OF UROGENITAL SCHISTOSOMIASIS WITH HIV INFECTION IN A LARGE COMMUNITY-BASED COHORT IN ZAMBIA (THE ZIPIME WEKA SCHISTA STUDY)

Kwame Shanaube[1], Rhoda Ndubani[1], Olimpia Lamberti[2], Nkatya Kasese[1], Emily Webb[3], Beatrice Nyondo[1], Maina Cheeba[1], Jennifer Fitzpatrick[1], Helen Kelly[2], Helen Ayles[1], Amaya Bustinduy[2]
[1]Zambart, Lusaka, Zambia, [2]Department of Clinical Research, London School of Hygiene & Tropical Medicine, London, United Kingdom, [3]Department of Infectious Disease Epidemiology, London School of Hygiene & Tropical Medicine, London, United Kingdom

2:15 p.m. 7140

FALLING THROUGH THE CRACKS: APPLYING THE 95-95-95 METRIC TO PROVIDE INSIGHT INTO HIV PROGRAMME GAPS IN HIV-INFECTED INFANT DEATHS INVESTIGATED IN KENYA, SOUTH AFRICA AND MOZAMBIQUE

Beth A. Tippett Barr[1], Zachary Madewell[2], Victor Akelo[3], Dickens Onyango[4], Inacio Mandomando[5], Quique Bassat[6], Shabir Madhi[7], Sana Mahtab[7], Portia Mutevedzi[8], Cynthia Whitney[8], Dianna Blau[2]
[1]Nyanja Health Research Institute, Salima, Malawi, [2]US Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]US Centers for Disease Control and Prevention, Kisumu, Kenya, [4]Kisumu County Department of Health, Kisumu, Kenya, [5]Centro de Investigacao em Saude do Manhica, Maputo, Mozambique, [6]ISGlobal Universitat de Barcelona, Barcelona, Spain, [7]Witwatersrand University, Johannesburg, South Africa, [8]Emory University, Atlanta, GA, United States

Scientific Session 129

Viruses - Viral Pathogenesis and Biology

Regency Ballroom A - Ballroom Level (West Tower)
Saturday, October 21, 12:45 p.m. - 2:30 p.m. U.S. Central Time Zone

CHAIR
Hannah Mueller
Bernhard-Nocht-Institut for Tropical Medicine, Hamburg, Germany

Stacey Scroggs
ARS, USDA, Manhattan, KS, United States

12:45 p.m. **7141**

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

Alina Soto, Lander De Coninck, Celine Van De Wiele, Ann-Sophie Devlies, Ana Lucia Rosales Rosas, Lanjiao Wang, Jelle Matthijnssens, Leen Delang
Rega Institute for Medical Research, KU Leuven, Leuven, Belgium

1 p.m. **7142**

INVESTIGATION OF VIRUS-HOST INTERACTIONS IN SEVERE FEVER WITH THROMBOCYTOPENIA SYNDROME VIRUS INFECTION USING A LIPIDOMICS APPROACH

Hin Chu, Bingpeng Yan, Bingjie Hu, Terrence Tsz-Tai Yuen, **Jasper Fuk-Woo Chan**
The University of Hong Kong, Hong Kong, Hong Kong

1:15 p.m. **7143**

APOLIPOPROTEIN-A1 MIMETIC PEPTIDE 4F BLOCKS FLAVIVIRUS NS1-INDUCED ENDOTHELIAL BARRIER DYSFUNCTION

Pedro H. Carneiro[1], Scott B. Biering[1], Ronaldo Mohana-Borges[2], Eva Harris[1]
[1]Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, [2]Laboratório de Biotecnologia e Bioengenharia Estrutural, Instituto de Biofísica Carlos Chagas Filho, Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil

1:30 p.m. **7144**

DEVELOPING A MODEL OF PERSISTENT POWASSAN DISEASE IN C57BL/6 MICE

Stacey L.P. Scroggs[1], Danielle K. Offerdahl[2], Philip E. Stewart[2], Carl Shaia[2], Amanda J. Griffin[2], Marshall E. Bloom[2]
[1]United States Department of Agriculture, Manhattan, KS, United States, [2]National Institutes of Health, Hamilton, MT, United States

1:45 p.m. **7145**

FACTORS ASSOCIATED WITH LASSA FEVER FATALITY IN LIBERIA, 2016 - 2021: A SECONDARY DATA ANALYSIS

Emmanuel Dwalu[1], Ralph W. Jetoh[1], Bode I. Shobayo[1], Irene P. Pewu[1], Fahn M. Tarweh[1], Julius S M Gilayeneh[1], Himiede W. Wilson-Sesay[2], Godwin E. Akpan[2], Chukwuma D. Umeokonkwo[2], Jane A. MaCauley[1]
[1]National Public Health Institute of Liberia, Monrovia, Liberia, [2]Africa Field Epidemiology Network, Monrovia, Liberia

2 p.m. **7146**

EEG PATHOLOGIES IN LASSA FEVER INDICATING CEREBRAL INVOLVEMENT: RESULTS FROM 53 PROSPECTIVELY FOLLOWED PATIENTS

Hannah Mueller[1], Cyril Erameh[2], Mathias Gelderblom[3], Joseph Okeguale[4], Osas Edeawe[2], Stephan Guenther[5], Sylvanus Okogbenin[4], Michael Ramharter[6], Lisa Oestereich[5], Till Omansen[7]
[1]Department of Tropical Medicine, Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany, [2]Institute of Lassa Fever Research and Control & Department of Medicine, Irrua Specialist Teaching Hospital, Irrua, Nigeria, [3]Department of Neurology, University Medical Center Hamburg-Eppendorf, Hamburg, Germany, [4]Institute of Lassa Fever Research and Control & Department of Obstetrics and Gynaecology, Irrua Specialist Teaching Hospital, Irrua, Nigeria, [5]Department of Virology, Bernhard Nocht Institute for Tropical Medicine and German Center for Infection Research, Hamburg, Germany, [6]Department of Tropical Medicine, Bernhard Nocht Institute for Tropical Medicine & I. Department of Medicine, University Medical Center Hamburg-Eppendorf; German Center for Infection Research, Hamburg, Germany, [7]Department of Virology and Department of Tropical Medicine, Bernhard Nocht Institute for Tropical Medicine & I. Department of Medicine, University Medical Center Hamburg-Eppendorf; German Center for Infection Research, Hamburg, Germany

2:15 p.m. **7147**

POTENTIAL FOR PREEXISTING IMMUNITY TO SARS-COV2 IN EASTERN SIERRA LEONE

Nell G. Bond[1], Emily J. Engel[1], Foday Al-Hasan[2], Ibrahim M. Kanneh[2], Lansana D. Kanneh[2], Mambu Momoh[2], Ibrahim Sumah[2], Sruti Chandra[1], Robert F. Garry[1], James E. Robinson[1], Donald S. Grant[2], Troy D. Moon[3], John S. Schieffelin[1], Robert Samuels[2]
[1]Tulane University SOM, New Orleans, LA, United States, [2]Kenema Government Hospital, Kenema, Sierra Leone, [3]Tulane University School of Public Health, New Orleans, LA, United States

Symposium 130

WASHing Away Guinea Worm: Innovative Water, Sanitation, and Environmental Health Methodologies to Accelerate the Eradication of Guinea Worm

Regency Ballroom B - Ballroom Level (West Tower)
Saturday, October 21, 12:45 p.m. - 2:30 p.m. U.S. Central Time Zone

Guinea worm disease (caused by the helminth parasite Dracunculus medinensis) has become increasingly rare in humans due to more than 35 years of intensive efforts towards its eradication. Recent reported infection of Guinea worm in non-human hosts such as domestic dogs, cats, wildlife, and the implication of aquatic animals as potential paratenic and transport hosts has caused a rethink of the traditional interventions and surveillance infrastructure. As Guinea worm transmission is fundamentally associated with water, the environment, and their interaction with the pathogen, the global Guinea Worm Eradication Program (GWEP), in collaboration with research partners, has embarked on reshaping its scientific research agenda to optimize water, sanitation, and environmental health intervention methodologies. This symposium will discuss innovative WASH-e approaches employed to better understand Guinea worm transmission mechanisms and novel methods for intervention. For instance, we employ state-of-the-art technologies such as geospatial machine learning methods to describe the risk of infection across large populations, identify potential new areas with ecological characteristics capable of sustaining infection, and identify drivers of infection. Also, optical satellite imagery and synthetic aperture radar data are used to detect water bodies under tree canopy, ensuring that vector management interventions are deployed to the most hard-to-reach areas. These methodologies complement traditional surveillance infrastructure, thus vastly improving efforts towards disease eradication. Furthermore, we will also discuss water ecology studies that assess abundance of copepods in bodies of water with varying ecological characteristics. This work will further inform efficient vector management tools (i.e., Abate treatment). Finally, improving the uptake of environmental sanitation behaviors related to aquatic animal waste disposal and management can serve to interrupt emerging Guinea worm transmission pathways involving aquatic paratenic and transport hosts. This symposium will highlight the use of evidence from exploratory research to inform the design of novel aquatic animal waste interventions and address factors influencing their adoption.

CHAIR

David J. Civitello
Emory University, Atlanta, GA, United States

12:45 p.m.
INTRODUCTION

12:50 p.m.
EYES IN THE SKY: ASSESSING THE RISK OF GUINEA WORM IN CHAD USING MACHINE LEARNING AND REMOTE SENSING METHODS
Obiora Eneanya
The Carter Center, Atlanta, GA, United States

1:05 p.m.
THE USE OF OPTICAL SATELLITE IMAGERY AND SYNTHETIC APERTURE RADAR DATA FOR DETECTION OF WATER BODIES
Aragaw Lamesgim
The Carter Center, Atlanta, GA, United States

1:20 p.m.
ECOLOGY OF COPEPODS AND THEIR DYNAMIC RESPONSES TO PREDATORS AND ABATE TREATMENT
Stephanie O. Gutierrez
Emory University, Atlanta, GA, United States

1:35 p.m.
ENVIRONMENTAL SANITATION AS A GUINEA WORM ERADICATION PROGRAM INTERVENTION: FINDINGS FROM EXPLORATORY RESEARCH ON AQUATIC ANIMAL WASTE DISPOSAL & MANAGEMENT IN CHAD
Ariane S. Ngo Bea Hob
Chad Guinea Worm Eradication Program, N'Djamena, Chad

1:50 p.m.
PANEL MODERATOR
Adam J. Weiss
The Carter Center, Atlanta, GA, United States

Symposium 131

The Influence of Arboviruses on the Mosquito's Journey from Host - Seeking to Blood - Feeding

Regency Ballroom C - Ballroom Level (West Tower)
Saturday, October 21, 12:45 p.m. - 2:30 p.m. U.S. Central Time Zone

This symposium explores how mosquito-borne viruses influence the vectorial capacity of the yellow fever mosquito, *Aedes aegypti*. Vectorial capacity can be defined as the efficiency of a vector to transmit a pathogen and it depends on several factors, such as the feeding behavior of mosquitoes, mosquito abundance, mosquito survival, and environmental conditions. One of the key components of vectorial capacity is vector competence, which is defined as the ability of a vector to acquire, maintain and transmit a pathogen. After the mosquito's acquisition of a virus by feeding on an infected human host, relevant aspects of the mosquito's behavior can be directly influenced. Changes can be reflected by, for example, feeding frequency and biting persistence, patterns of activity and movement, and perception of and response to host-derived cues. On another level, mosquito-borne viruses could interact directly with insect-specific viruses or other pathogens present in the microbiome and virome of the mosquito. In addition, indirect effects, such as those modulating the mosquito's immune responses upon infection with a mosquito borne-virus or other processes when obtaining a blood-meal can also be observed. Indeed, there is evidence that both direct and indirect effects of viral infection are frequently enhancing transmission, and thereby increase disease risk in humans. Despite significant research in the last decade, evidence regarding the nature and extent of the effects of mosquito-borne viruses on mosquito behavior and transmission risks remains fragmented and it can be challenging to draw general conclusions across studies that focus on different systems and behaviors that frequently employ different methodologies. Given their relevance in transmission of human pathogens, there is a need for additional research aimed at documenting the effect of arboviruses on their vector behavior, elucidating the mechanisms and understanding the implications for epidemiology and global health. The organized discussion will focus on questioning which knowledge still needs to be generated on the virus-mosquito interface to understand the underlying mechanisms. Moreover, we will discuss how we could utilize these studies to improve control measurements and ultimately prevent mosquito-borne diseases.

CHAIR
Tessa M. Visser
Wageningen University and Research, Wageningen, Netherlands

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

12:45 p.m.
INTRODUCTION

12:55 p.m.
WHO IS IN CONTROL? DO FLAVI- AND ALPHAVIRUSSES MANIPULATE THE HOST-SEEKING BEHAVIOR OF *AEDES AEGYPTI*?
Tessa M. Visser
Wageningen University & Research, Wageningen, Netherlands

1:10 p.m.
TIME-DEPENDENT MODULATION OF LOCOMOTION AND HOST-SEEKING BEHAVIOR IN *AEDES AEGYPTI* BY DENGUE VIRUS
Anaïs K. Tallon
Mississippi State University, Starkville, MS, United States

1:25 p.m.
THE VECTOR COMPETENCE OF *AEDES AEGYPTI* MOSQUITOES FOR DENGUE IS MODULATED BY INSECT-SPECIFIC VIRUSES
Roenick P. Olmo
IBMC, Institute of Molecular and Cell Biology, Strasbourg, France

1:40 p.m.
VIRUS-VECTOR INTERACTIONS: OVERCOMING BARRIERS TO INFECTION
Douglas E. Brackney
The Connecticut Agricultural Experiment Station, New Haven, CT, United States

1:55 p.m.
BLOOD MEALS WITH HEAT-INACTIVATED SERUM REVEAL THAT HUMAN COMPLEMENT PROTEINS MODIFY GENE EXPRESSION AND THE MICROBIOME OF AEDES MOSQUITO VECTORS
Arley F. Calle Tobón
Universidad de Antioquia, Medellín, Colombia

Symposium 132

Effectiveness and Efficacy of Chemoprevention for Children Under Five

Regency Ballroom D - Ballroom Level (West Tower)
Saturday, October 21, 12:45 p.m. - 2:30 p.m. U.S. Central Time Zone

In sub-Saharan Africa, almost 70% of malaria deaths in 2018 occurred in children under five years of age. Most childhood malarial disease and deaths occur during and immediately after the rainy season. Ongoing epidemiological shifts in the high-risk populations raise important technical, risk communication and operational challenges for malaria endemic countries, as traditional control interventions are inadequate. In developing novel approaches to prevent malaria, a major focus has been chemoprevention, the use of malaria drugs to prevent infection and disease during the high transmission season. Chemoprevention strategies work on the basis that a malaria treatment will clear any existing infections and prevent new infections. Since the 1980s, researchers have been investigating the use of medicines to prevent malaria among children living in the Sahel, where transmission is highly seasonal. Leading to Seasonal Malaria Chemoprevention (SMC) originally being recommended by WHO 10 years ago. In June 2022, WHO published consolidated guidelines for malaria, a package of new and updated recommendations across several technical areas, from malaria chemoprevention and mass drug administration to elimination. Encouraging countries to tailor recommendations to local disease settings for maximum impact. Within chemoprevention, interventions include SMC, intermittent preventive treatment in pregnancy (iPTp), perennial malaria chemoprevention (PMC) (formerly intermittent preventive treatment in infants (iPTi)), and intermittent preventive treatment in school children (IPTsc). Speakers will present findings highlighting recent innovations supporting malaria chemoprevention campaigns in different populations, locations and distribution models. Important findings and lessons learned will be presented from studies on implementing chemoprevention to school children in Uganda, a rapid assessment of SMC in a new location in Niassa, Mozambique, chemoprevention efficacy in traditional and new areas compared between Burkina Faso and Mozambique, and PMC in Nigeria. Finally, a moderated discussion on the key similarities and differences between the four studies will be held to advance the science of malaria chemoprevention campaigns.

CHAIR
Kevin Baker
Malaria Consortium, London, United Kingdom

12:45 p.m.
INTRODUCTION

12:50 p.m.
RESULTS FROM A STUDY TO UNDERSTAND MALARIA BURDEN AND TRANSMISSION DYNAMICS IN OLDER CHILDREN AND ADOLESCENTS IN UGANDA, AND TO EVALUATE THE IMPACT OF INNOVATIVE INTERMITTENT PREVENTIVE TREATMENT APPROACHES IN REDUCING MALARIA BURDEN
Jane Achan
Malaria Consortium, Kampala, Uganda

1:10 p.m.
RESULTS FROM A RAPID ASSESSMENT OF THE EFFECTIVENESS OF IMPLEMENTING SEASONAL MALARIA CHEMOPREVENTION IN A NEW LOCATION, NIASSA PROVINCE, IN MOZAMBIQUE
Baltazar Candrinho
Mozambique National Malaria Control Program, Maputo, Mozambique

1:30 p.m.
CHEMOPREVENTION EFFICACY OF SMC – A COMPARISON OF RESULTS FROM TRADITIONAL SAHEL SMC COUNTRIES VERSUS NEW GEOGRAPHIES IN EAST AND SOUTHERN AFRICA
Craig Bonnington
Malaria Consortium, London, United Kingdom

1:50 p.m.
CHEMOPREVENTION OPTIONS FROM SMC NON-ELIGIBLE AREAS – EXPERIENCES FROM NIGERIA
Olusola Oresanya
Malaria Consortium, Abuja, Nigeria

Career Chats: Meet the Editors

Grand Hall MN - Ballroom Level (East Tower)
Saturday, October 21, 2 p.m. - 3 p.m. United States Central Time Zone

This is an opportunity for ASTMH trainees and early career researchers to meet and talk with the editors of the global health-associated journals. Editors will answer questions about the journals, discuss the submission and review processes, and provide attendees with advice on how to in-crease the likelihood of publication and highlight common pitfalls to avoid. The editors will walk you through all stages of the editorial and peer review process, from how editors select referees, to how decisions are made from the set of reports. Trainees will also learn the components of a convincing cover and response letter and putting together a successful appeal.

CHAIR
Bartholomew Ondigo
Egerton University, Nakuru, Kenya

Dibyadyuti Datta, Assistant Professor
Indiana University, Bloomington, IN, United States

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

Justin Yai, Research Fellow and Associate Editor
NIH/NIAID, Bethesda, MD, United States

Alison Jaeb, Managing Editor and Publisher, AJTMH
ASTMH, Arlington, VA, United States

Break

Saturday, October 21, 2:30 p.m. - 3 p.m. U.S. Central Time Zone

Poster Session C Dismantle

Riverside Center - Exhibit Level (East Tower) and Grand Hall GHI – Ballroom Level (East Tower)
Saturday, October 21, 3 p.m. - 5:15 p.m.

Symposium 133

Enhancing Diversity, Equity and Inclusion in the Global Health Workforce by Increasing Participation of Under Represented Minorities (URM)

Grand Ballroom A - Ballroom Level (East Tower)
Saturday, October 21, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

Various high-impact studies conducted by the NIH point to the astonishingly low involvement of US underrepresented minorities (URM; American descendants of slaves (ADOS), Native Americans, Hispanics, Native Hawaiian and Asians) in the global health workforce and the need for radically improving research training, mentoring, and career development to advance health equity. Recent efforts by the NIH to promote diversity and inclusion in the biomedical workforce have achieved modest gains, especially among URM scientists involved in global health research. Interestingly, the URM's include diasporan scientists who originate from the LMICs, and their efforts to reach out and collaborate with LMIC communities to advance health equity as well as the challenges and opportunities they encounter have received little attention. Significant work is needed to harness this untapped capacity and human capital to contribute to the advancement of global health equity in developing countries. This symposium will explore the often-neglected role of the URM's in connecting with the LMIC to enhance diversity, equity, and inclusion in the global health research workforce. It will explore some unique relationships between the URM's based in the global North and those currently living in the LMIC and consider some opportunities for partnerships and capacity building. Perspectives (Challenges and Opportunities) of URM's in the diaspora working in advanced laboratories in the global north with ties to LMIC will be explored and contrasted with those that differ. It is hoped that this dialogue will sensitize and provide a forum for discussing difficult truths regarding differentials in power, and how subtle cultural or perceived cultural differences may affect collaborative research success. An underlying theme of this symposium is that such discussions will permit more meaningful and long-term collaborations as well as provide paths to transform international biomedical science and lead us into a truly post-colonial era.

CHAIR

Jonathan K. Stiles
Morehouse School of Medicine, Atlanta, GA, United States

Linnie M. Golightly
Associate Dean, Diversity, Associate Professor of Medicine in Microbiology and Immunology, Weill Cornell Medical College, New York, NY, United States

3 p.m.
INTRODUCTION

3:10 p.m.
MODERATOR, PANEL DISCUSSION

Renee Alexander
Cornell University, Ithaca, NY, United States

PANELISTS

Linnie M. Golightly
Associate Dean, Diversity, Associate Professor of Medicine in Microbiology and Immunology, Microbiology and Immunology, Weill Cornell Medical College, New York, NY, United States

Frank Richards
The Carter Center, Atlanta, GA, United States

Jonathan K. Stiles
Morehouse School of Medicine, Atlanta, GA, United States

Scientific Session 134

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Parasite Biology – Genetic Approaches

Grand Ballroom B - Ballroom Level (East Tower)

Supported with funding from the Burroughs Wellcome Fund

Saturday, October 21, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

CHAIR

Michael Ferdig
University of Notre Dame, Notre Dame, IN, United States

Camilla V. Pires
University of South Florida, Tampa, FL, United States

3 p.m. **7267**

DYNAMICS AND SIGNALING OF MITOCHONDRIAL MRNA U-INDEL EDITING DURING *T. BRUCEI* DIFFERENTIATION

Joseph T. Smith Jr.[1], Brianna Tylec[1], Arunasalam Naguleswaran[2], Isabel Roditi[2], Laurie K. Read[1]
[1]University at Buffalo, Buffalo, NY, United States, [2]University of Bern, Bern, Switzerland

3:15 p.m. **7148**

FIRST STAGE GENOME-WIDE ASSOCIATION STUDY OF LYMPHATIC FILARIASIS PATHOLOGY IN AN AFRICAN POPULATION

Vera Serwaa Opoku[1], Sandeep Grover[2], Linda Batsa Debrah[3], Carlo Maj[2], Jubin Osei-Mensah[4], Derrick Adu Mensah[1], Achim Hoerauf[5], Alexander Yaw Debrah[6], Johannes Schumacher[2], Kenneth Pfarr[5]
[1]Kumasi Centre for Collaborative Research in Tropical Medicine, Kumasi, Ghana, [2]Centre for Human Genetics, Philipps University of Marburg, Marburg, Germany, [3]Department of Clinical Microbiology, School of Medicine and Dentistry, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, [4]School of Veterinary Medicine, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, [5]Institute of Medical Microbiology, Immunology and Parasitology, Bonn, Germany, [6]Department of Medical Diagnostics, Faculty of Allied Health Sciences, Kwame Nkrumah University of Science and Techonology, Kumasi, Ghana

3:30 p.m. **7149**

GYPB GENE DELETIONS AFFECTS *PLASMODIUM FALCIPARUM* INVASION OF ERYTHROCYTES AND GROWTH OF SIALIC ACID DEPENDENT PARASITES

Dominic SY Amuzu[1], Lucas N. Amenga-Etego[1], Collins M. Moranga[1], Evelyn B. Quansah[1], Henrietta Mensah-Brown[1], Nancy K. Nyakoe[1], Christina Hubbart[2], Kate Rowlands[2], Anna Jeffreys[2], Kirk A. Rockett[3], Dominic P. Kwiatkowski[4], Gordon A. Awandare[1]
[1]West African Centre for Cell Biology of Infectious Pathogens, University of Ghana, Accra, Ghana, [2]Wellcome Centre for Human Genetics, University of Oxford, Oxford, United Kingdom, [3]Wellcome Sanger Institute, Wellcome Genome Campus, Cambridge, United Kingdom, [4]Wellcome Sanger Institute, Wellcome Genome Campus, Oxford, United Kingdom

3:45 p.m. **7150**

OXIDATIVE STRESS AND ANTIMALARIAL RESPONSES OF BLOOD-STAGE *PLASMODIUM FALCIPARUM*

Camilla V. Pires[1], Shulin Xu[1], Min Zhang[1], Chengqi Wang[1], Jenna Oberstaller[1], Thomas Otto[2], julian Rayner[3], Benoit Laleu[4], Jeremy Burrows[4], John Adams[5]
[1]University of South Florida, Tampa, FL, United States, [2]University of Glasgow, Glasgow, United Kingdom, [3]University of Cambridge, Cambridge, United Kingdom, [4]Medicines for Malaria Venture, Geneva, Switzerland, [5]University of South Florida, TAMPA, FL, United States

4 p.m. **7151**

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

Yan Yan[1], Elaine Cheung[1], Duo Peng[2], W. Robert Shaw[3], Esrah Du[1], Alexandra Probst[1], Flaminia Catteruccia[3]
[1]Harvard TH Chan School of Public Health, Boston, MA, United States, [2]The Chan Zuckerberg Biohub, San Francisco, CA, United States, [3]Harvard TH Chan School of Public Health/Howard Hughes Medical Institute, Boston, MA, United States

4:15 p.m. **7152**

GENETICS OF THE INTERACTION BETWEEN *PLASMODIUM FALCIPARUM* AND *ANOPHELES* ALBIMANUS

Prince Chigozirim Ubiaru, Sabyasachi Pradhan, Virginia Howick, Lisa Ranford-Cartwright
University of Glasgow, Glasgow, United Kingdom

4:30 p.m. **7153**

FIRST EVIDENCE OF EXPERIMENTAL GENETIC HYBRIDIZATION BETWEEN CUTANEOUS AND VISCERAL STRAINS OF LEISHMANIA DONOVANI WITHIN ITS NATURAL VECTOR PHLEBOTOMUS ARGENTIPES

Hasna Riyal[1], Andrea Paun[2], Tiago R. Ferreira[2], Nilakshi Samaranayake[1], David Sacks[2], Nadira Karunaweera[1]
[1]Department of Parasitology, Faculty of Medicine, University of Colombo, Colombo 08, Sri Lanka, [2]National Institute of Allergy & Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

Symposium 135

Integrating Malaria Into Public Health Emergency Operations Centers (PHEOCs) to Support Malaria Burden Reduction and Elimination: Lessons Learned from Sub-Saharan Africa and the Greater Mekong Subregion

Grand Hall J - Ballroom Level (East Tower)
Saturday, October 21, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

As countries approach malaria elimination and adopt aggressive strategies to accelerate burden reduction, malaria-specific surveillance systems need to be integrated into comprehensive national public health information systems. In turn, efforts to strengthen and integrate real-time surveillance systems and tools for malaria can bolster capacity for early detection and response of other communicable diseases and public health emergencies and support pandemic preparedness. Public Health Emergency Operations Centers (PHEOCs) represent the ideal platform to integrate disease surveillance systems, serving as epidemic intelligence hubs that receive, analyze, and visualize multiple data streams. In countries with well-established PHEOCs, malaria integration can improve the availability of malaria surveillance data to rapidly identify outbreaks and provide additional capacity to plan, implement, and monitor interventions. For countries with weak global health security capacities, malaria integration can serve as an entry point for outbreak detection, data-driven targeted interventions, multi-sectoral response, and cross-border collaboration to reduce the risk of widespread health emergencies. In sub-Saharan Africa and the Greater Mekong Subregion, PHEOCs are being leveraged to accelerate and sustain malaria burden reduction and elimination efforts in a range of epidemiological settings, from Lao PDR and Vietnam to Senegal, The Gambia, and the Democratic Republic of the Congo. In this symposium, representatives from ministries of health and their partners will share their experiences and findings. Phetsouvanh Rattanaxay from the Lao PDR Ministry of Health will describe establishing a PHEOC for malaria elimination, including the process and challenges associated with making malaria a notifiable disease and integrating its surveillance and response mechanisms at central, provincial, and district levels. Seynabou Ndiaye will describe how a decentralized integration model has supported epidemic preparedness and response and malaria elimination efforts in both high and low transmission settings in Senegal. Abdoulaye Bousso will provide perspectives from Senegal and The Gambia around key enablers and challenges to malaria integration into PHEOCs, focusing on governance and the relative capacities of PHEOCs and endemic disease programs. Marie-Julie Lambert will use examples from multiple countries to showcase how PHEOCs combine data from disease programs, surveillance platforms, or logistical systems to build strong data analysis and modeling infrastructures.

CHAIR

Hana K. Bilak
PATH, Geneva, Switzerland

Abdoulaye Bousso
Resolve To Save Lives, New York, NY, United States

3 p.m.
INTRODUCTION

3:10 p.m.
GOVERNMENT PERSPECTIVE ON LEVERAGING THE PHEOC FOR MALARIA ELIMINATION AND INTEGRATING SURVEILLANCE AND RESPONSE MECHANISMS

Phetsouvanh Rattanaxay
Department of Communicable Disease Control (DCDC), Ministry of Health, Lao PDR, Vientiane, Lao People's Democratic Republic

3:35 p.m.

ADVANCED MIXED-COORDINATION UNITS FOR THE DECENTRALIZATION OF DISEASE SURVEILLANCE AND RESPONSE: LESSONS LEARNED FROM A REGIONAL "ONE HEALTH" APPROACH IN SENEGAL

Seynabou Ndiaye
Senegal Ministry of Health and Social Action, Saint-Louis, Senegal

3:50 p.m.

GOVERNANCE CONSIDERATIONS FOR EFFECTIVE COLLABORATIONS BETWEEN VERTICAL DISEASE PROGRAMS AND PUBLIC HEALTH EMERGENCY OPERATIONS CENTERS

Abdoulaye Bousso
Resolve To Save Lives, New York, NY, United States

4:05 p.m.

BUILDING DATA INTEGRATION PLATFORMS FOR MALARIA ELIMINATION: A REPLICABLE APPROACH IN SIX COUNTRIES

Marie-Julie Lambert
Bluesquare, Brussels, Belgium

Scientific Session 136

LIVE STREAMING

Malaria – Surveillance and Data Utilization

Grand Ballroom CDEF - Ballroom Level (East Tower)
Saturday, October 21, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

CHAIR
Jailos Lubinda
Telethon Kids Institute, Malaria Atlas Project, Cockburn City, Australia

Richard Maude
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

3 p.m. 7154

REDUCING MORTALITY DUE TO MALARIA THROUGH IMPROVED HEALTH WORKER PRACTICE, LESSONS FROM A DATA DRIVEN MENTORSHIP PROGRAM IN BUSOGA REGION IN EASTERN UGANDA

Patricia Mukose[1], Chris Mugenyi[1], Edward Mugwanya[1], Susan Nabirye[1], Irene Ayaa[2], Richard Opio Ongom[1], Irene Ochola[1], Angela Kateemu[1], Myers Lugemwa[3], Patrick Bukoma[3], Dorah Anita Talanta[1], Amy Casella[4], Aliza Hasham[5], Benjamin Binagwa[1], Natalia Whitley[4]
[1]John Snow Inc, Kampala, Uganda, [2]MCD Global Health, Kampala, Uganda, [3]Ministry of Health Uganda, Kampala, Uganda, [4]John Snow Inc, Boston, VA, United States, [5]John Snow Inc, Dar es Salam, United Republic of Tanzania

3:15 p.m. 7155

MAPPING THE EPIDEMIOLOGY OF DRUG-RESISTANT *PLASMODIUM FALCIPARUM* STRAINS IN THE GREATER MEKONG SUBREGION THROUGH CROSS-BORDER GENETIC SURVEILLANCE

Tess Danielle Verschuuren[1], Varanya Wasakul[1], Ethan Booth[1], Nguyen Thuy-Nhien[2], Mayfong Mayxay[3], Siv Sovannaroth[4], Keobouphaphone Chindavongsa[5], Viengphone Sengsavath[5], Huynh Hong Quang[6], Sónia Gonçalves[7], Shavanthi Rajatileka[7], Cristina Ariani[7], Richard J. Maude[1], Nicholas P. Day[1], Elizabeth A. Ashley[3], Dominic P. Kwiatkowski[7], Arjen M. Dondorp[1], Olivo Miotto[1]
[1]MORU, Bangkok, Thailand, [2]Oxford University Clinical Research Unit, Ho Chi Minh City, Vietnam, [3]Lao-Oxford-Mahosot Hospital-Wellcome Trust Research Unit, Vientiane, Lao People's Democratic Republic, [4]National Center for Parasitology, Entomology and Malaria Control (CNM), Phnom Penh, Cambodia, [5]Centre for Malariology, Parasitology, and Entomology, Vientiane, Lao People's Democratic Republic, [6]Institute of Malariology, Parasitology and Entomology (IMPE-QN), Quy Nhon, Vietnam, [7]Wellcome Sanger Institute, Hinxton, United Kingdom

3:30 p.m. 7156

LOSING SLEEP OVER DENOMINATORS: A NOVEL METHODOLOGY FOR MALARIA EPIDEMIOLOGICAL SURVEILLANCE USING FACILITY BASED DATA FROM SOUTHERN SENEGAL

Daniel Zachary Hodson[1], Médoune Dioup[2], Mamadou Lamine Diouf[2], Boubacar Kandé[3]
[1]United States Peace Corps Senegal, Dakar, Senegal, [2]National Malaria Control Program, Dakar, Senegal, [3]Médina Yoro Foulah Health District, Médina Yoro Foulah, Senegal

3:45 p.m. 7157

UPDATING THE MALARIA RISK STRATIFICATION IN LAO PDR TO INFORM INTERVENTION TARGETING AND RESOURCE ALLOCATION

Phoutnalong Vilay[1], Julia Dunn[2], **Odai Sichanthongthip**[1], Rita Reyburn[3], Phonephet Butphomvihane[3], Vilaisak Phiphakavong[3], Punam Amratia[4], Mary Hahm[2], Vilayphone Phongchantha[2], Chitsavang Chanthavisouk[3], Boualam Khamlome[1], Keobouphaphone Chindavongsa[1], Matthew Shortus[3]
[1]Centre of Malariology, Parasitology and Entomology, Vientiane, Lao People's Democratic Republic, [2]Clinton Health Access Initiative, Vientiane, Lao People's Democratic Republic, [3]World Health Organization, Vientiane, Lao People's Democratic Republic, [4]Malaria Atlas Project, Perth, Australia

4 p.m. 7158

QUANTIFYING THE VALUE OF ENTOMOLOGICAL SURVEILLANCE FOR PROGRAMMATIC DECISION-MAKING ON MALARIA CONTROL IN SUB-SAHARAN AFRICA

Nora Schmit, Hillary M. Topazian, Matteo Pianella, Giovanni D. Charles, Peter Winskill, Penelope A. Hancock, Ellie Sherrard-Smith, Katharina Hauck, Thomas S. Churcher, Azra C. Ghani
Imperial College London, London, United Kingdom

4:15 p.m. 7159

MAP HBHI GEOSPATIAL FRAMEWORK; LESSONS LEARNT FROM SUPPORTING THE GLOBAL FUND APPLICATIONS

Punam Amratia[1], Samuel Oppong[2], Tasmin Symons[1], Susan Rumisha[1], Beatriz Galatas[3], James Colborn[4], Balthazar Candrinho[5], Celestin Danwang[4], Mark Connell[1], Abdisalan Noor[3], Peter Gething[1]
[1]Malaria Atlas Project, Perth, Australia, [2]PMI Ghana, Accra, Ghana, [3]World Health Organization, Geneva, Switzerland, [4]Clinton Health Access Initiative, Boston, MA, United States, [5]National Malaria Control Program Mozambique, Maputo, Mozambique

4:30 p.m.

Lightning Talks

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

6943

A PROGRAM EVALUATION OF COMMUNITY HEALTH WORKER-LED REACTIVE CASE DETECTION AND ITS IMPACT ON MALARIA MORBIDITY AND MORTALITY IN ZAMBIA

Ellen Ferriss[1], William Sheahan[1], Chris Lungu[2], Kafula Silumbe[2], John M. Miller[2], Hannah Slater[1], Adam Bennett[1]
[1]PATH, Seattle, WA, United States, [2]PATH, Lusaka, Zambia

6214

INTEGRATING ANTENATAL CLINIC-BASED MALARIA SCREENING DATA AND MATHEMATICAL MODELLING TO CAPTURE THE TRAJECTORY OF MALARIA TRANSMISSION IN WESTERN KENYA IN THE CONTEXT OF THE COVID-19 PANDEMIC.

Patrick GT Walker[1], Joseph Hicks[1], Oliver Towett[2], Brian Seda[2], Ryan Wiegand[3], Simon Kariuki[2], Julie Gutman[3], Aaron Samuels[3], Feiko ter Kuile[4]
[1]MRC Centre for Outbreak Analysis & Modelling, Imperial College London, London, United Kingdom, [2]Centre for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya, [3]Division of Parasitic Diseases and Malaria, Centers for Disease Control and Prevention, Atlanta, GA, United States, [4]Department of Clinical Sciences, Liverpool School of Tropical Medicine,, Liverpool, United Kingdom

6938

THE POTENTIAL OF SATELLITE-DERIVED BUILDING POLYGONS DATA AS A PROXY TO ON-THE-GROUND HOUSEHOLD MAPPING TO PROVIDE DENOMINATOR FOR PUBLIC HEALTH INTERVENTIONS: A PILOT STUDY IN BATA DISTRICT, EQUATORIAL GUINEA

Jeremias Nzamio Mba Eyono[1], Restituto Mba Nguema Avue[1], David Galick[1], Victor Mba Micha[1], Julia Yumbe Baka[1], Jose Osa Osa Nfumu[2], Matilde Riloha Rivas[3], Carlos A. Guerra[1], Guillermo A. Garcia[4]
[1]MCD Global Health, Malabo, Equatorial Guinea, [2]Ministry of Health and Social Welfare, Malabo, Equatorial Guinea, [3]Ministry of Health and Social Welfare, National Malaria Control Program, Malabo, Equatorial Guinea, [4]MCD Global Health, Silver Spring, MD, United States

6209

OPTIMAL STRATIFICATION STRATEGIES IN THE SELECTION OF SENTINEL SITES FOR AN INTEGRATED MALARIA SURVEILLANCE IN BENIN

Didier Adjakidje[1], Florian D. Siaken Yabou[1], S. Emeric Chris Gbodo[1], Rock Aikpon[2]
[1]University of Abomey Calavi, Cotonou, Benin, [2]National Malaria Control Program, Ministry of Health, Cotonou, Benin

6941

SUBNATIONAL TAILORING AND TARGETING OF ANTI-MALARIA INTERVENTIONS IN ETHIOPIA

Amir Siraj[1], Gudissa Assefa[2], Hiwot Solomon[2], Asefaw Getachew[3], Gezahegn Tesfaye[3], Achamyelesh Sisay[2], Kebede Etana[2], Ayele Tiyou[2], Mebrahtom Haile[2], Belendia Serda[3], Asnakew Yeshiwondim[3], Dereje Dillu[3], Berhane Tesfay[3], Getachew Abebe[3], Arantxa Roca-Feltrer[4], Adam Bennett [1], Hannah Slater[1]
[1]PATH Malaria Control and Elimination Partnership in Africa (MACEPA), Seattle, WA, United States, [2]Ministry of Health, Addis Ababa, Ethiopia, [3]PATH Malaria Control and Elimination Partnership in Africa (MACEPA), Addis Ababa, Ethiopia, [4]PATH Malaria Control and Elimination Partnership in Africa (MACEPA), Maputo, Mozambique

Scientific Session 137

Integrated Control Measures for Neglected Tropical Diseases II

Grand Hall K - Ballroom Level (East Tower)
Saturday, October 21, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

CHAIR
Darin Evans
U.S. Agency for International Development, Washington, DC, United States

Victoria Turay
Helen Keller International, Freetown, Sierra Leone

3 p.m.

7160

PROGRESS TOWARDS INTERRUPTING TRANSMISSION OF ONCHOCERCIASIS IN ETHIOPIA

Tekola Endeshaw[1], Aderajew Mohammed[1], Abebual Yilak[2], Yewondwossen Bitew[1], Tewodros Seid[1], Geremew Haileyesus[1], Desalegn Jemberie[1], Mohammed Hassen[1], Fikresilasie Samuel[1], Yohannes Eshetu[1], Fanta Nigussie[1], Fetene Mihretu[1], Kadu Meribo[3], Fikre Seife[1], Emily Griswold[4], Anley Haile[1], Jenna E. Coalson[4], Gregory S. Noland[4], Frank O. Richards[4], Zerihun Tadesse[1]
[1]The Carter Center, Addis Ababa, Ethiopia, [2]University of Tübingen, Tübingen, Germany, [3]Federal Ministry of Health, Addis Ababa, Ethiopia, [4]The Carter Center, Atlanta, GA, United States

3:15 p.m.

7161

RESULTS FROM AN ENHANCED TRACHOMA IMPACT SURVEY IN FOUR LOW PREVALENCE DISTRICTS OF MOZAMBIQUE, 2022

Henis Sitoe[1], Felizmina Zita[1], Mawo Fall[2], Tamimo Momade[3], Rebecca Flueckiger[4], Will Oswald[4], Mabula Kasubi[5], Molly Adams[4], Thuy Doan[6], Thomas Lietman[6], Ben Arnold[6], Sarah E. Gwyn[7], Diana Martin[7], Jeremiah M. Ngondi[4]
[1]Ministry of Health, Maputo, Mozambique, [2]RTI International, Maputo, United Kingdom, [3]RTI International, Maputo, Mozambique, [4]RTI International, Washington DC, DC, United States, [5]Muhimbili University of Health and Allied Sciences, Dar es Salaam, United Republic of Tanzania, [6]Proctor Foundation, UCSF, San Francisco, CA, United States, [7]Centers for Disease Control and Prevention, Atlanta, GA, United States

3:30 p.m.

7162

SOIL TRANSMITTED HELMINTH INFECTIONS FOLLOWING FOURTEEN YEARS OF MASS DRUG ADMINISTRATION IN SIERRA LEONE

Ibrahim Kargbo-Labour[1], **Mohamed Bah**[2], Victoria Turay[2], Abdulai Conteh[1], Abdulai Koroma[2], Elisabeth Chop[3], Patricia Houck[3], Anna Phillips[4], Angela Weaver[3], Yaobi Zhang[3]
[1]Neglected Tropical Diseases Program, Ministry of Health and Sanitation, Freetown, Sierra Leone, [2]Helen Keller International, Freetown, Sierra Leone, [3]Helen Keller International, New York, NY, United States, [4]FHI 360, Washington, DC, United States

3:45 p.m.

7163

PROGRESS IN THE ELIMINATION OF THE TRANSMISSION OF SOIL-TRANSMITTED HELMINTHS IN THE WOLAITA ZONE IN SOUTHERN ETHIOPIA. THE GESHIYARO PROJECT MID-TERM PROGRESS EVALUATION

Birhan Abtew
Imperial College London, Addis Abeba, Ethiopia

4 p.m. 7164

METHODS FOR TRACHOMA SURVEYS AMONG MOBILE AND MIGRANT POPULATIONS OF KWEEN AND BULAMBULI DISTRICTS, EASTERN UGANDA

Stephen Begumisa[1], Rapheal Opon[2], Joyce Achan[1], Charles K. Kissa[2], Alfred Mubangizi[2], Sharone L. Backers[1], Stella Agunyo[1], Edwin Mayoki[1], Philip Kwemboi[3], Vincent Natega[4], Clara Burgert[5], Jeremiah M. Ngondi[5]
[1]RTI International, Kampala, Uganda, [2]Ministry of Health, NTD Programme, Kampala, Uganda, [3]Kween District Local Government, Kween, Uganda, [4]Bulambuli District Local Government, Bulambuli, Uganda, [5]RTI International, Washington DC, DC, United States

4:15 p.m. 7165

USE OF INVERSE DISTANCE WEIGHTING INTERPOLATION MODELLING AND GIS-BASED SPATIAL MAPPING TO ESTIMATE THE RISKS OF HOOKWORM AND INTESTINAL SCHISTOSOMIASIS INFECTIONS IN GHANA

Jeffrey G. Sumboh[1], Yvonne Ashong[1], Sedzro K. Mensah[1], Jewelna Akorli[1], Irene O. Donkor[1], Elias A. Bempong[2], Rahmat Yusif[1], Bright Idun[2], Freda Kwarteng[2], Frank T. Aboagye[2], Lisa Harrison[3], Debbie Humphries[4], Mike O. Atweneboana[2], Michael Cappello[3], Michael D. Wilson[1]
[1]Noguchi Memorial Institute for Medical Research, University of Ghana, Accra, Ghana, [2]Council for Scientific and Industrial Research, Accra, Ghana, [3]Yale School of Medicine, New Haven, CT, United States, [4]Yale School of Public Health, New Haven, CT, United States

4:30 p.m. 7166

IMPROVED QUALITY OF NEGLECTED TROPICAL DISEASES MICRO PLANNING IN ROUTINE DEWORMING CAMPAIGNS THROUGH INNOVATIVE SOLUTIONS AND TOOLS IN KENYA

Anna Winters[1], Elizabeth Jere[2], Florence Wakesho[3], Ivy Sempele[4], Irene Chami[4], Wycliff Omondi[3]
[1]Akros, Missoula, MT, United States, [2]Akros, Lusaka, Zambia, [3]Kenya Ministry of Health, Nairobi, Kenya, [4]EndFund, New York, NY, United States

Symposium 138

Drug Development in Filarial Infections: Current Achievements and Challenges

Grand Hall L - Ballroom Level (East Tower)
Saturday, October 21, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

The burden of helminth infections has been substantially reduced through mass drug administration programs, resembling a success story in combating infectious diseases. However, biological, political, and financial challenges are making it unlikely that MDA alone will be sufficient to eliminate helminth infections in the long run. Many factors can hinder the necessary coverage required for program success, such as primarily targeting specific populations (school-aged children) rather than the population as a whole (schistosomiasis, STH) or the suboptimal efficacy of MDA drugs (IVM, onchocerciasis). Alternative treatment options are limited, as less than a handful of drugs are registered for the treatment and control of helminth infections in humans, all of which have limitations. New drugs will be beneficial to make elimination efforts a true success story in the SDG agenda, in addition to increasing coverage of MDA and improving disease and MDA intake mapping. In this symposium, we will share the recent achievements and current challenges in the anthelmintic drug development landscape. The years- to decades-long process for drug development is complex and costly, entrenched with a high degree of uncertainty that a drug will succeed in the next development phase. Successful implementation of a novel intervention strongly depends on the environment. For NTDs, these are resource-poor settings with structural inequalities in access to health services, infrastructure, education, political influence, and weak markets. The dominant strategy to ensure access to medicines for NTDs is drug donation from Western pharmaceutical companies. Such dependence upon profit-driven organizations is precarious, and a more sustainable approach would be beneficial in multiple ways. We want to discuss the challenges and benefits of investing in development of new chemical entities with superior efficacy against NTDs.

CHAIR
Sabine Specht
DNDi, Geneva, Switzerland

3 p.m.
INTRODUCTION

3:10 p.m.
UPDATE ABBV-4083/FLUBENTYLOSIN DEVELOPMENT
Sabine Specht
Drugs for Neglected Disease Intitiative, Geneva, Switzerland

3:35 p.m.
UPDATE EMODEPSIDE
Jennifer Keiser
Swiss Tropical Institute, Basel, Switzerland

3:50 p.m.
UPDATE MOXIDECTIN
Mark Sullivan
Medicines Development for Global Health, Southbank, Australia

4:05 p.m.
MODELLING TO HELP DECISION MAKING
Martin Walker
Royal Veterinary College, North Mymms, United Kingdom

4:20 p.m.
ELIMINATION PROGRAMS ONCHOCERCIASIS: CURRENT PROGRESS AND FUTURE NEEDS
Didier K. Bakajika
WHO / ESPEN, Brazzaville, Republic of the Congo

Symposium 139

Turning the Tide for Women with Schistosomiasis: Advancing the Clinical and Research Agenda

Plaza Ballroom - Lobby Level (East Tower)
Saturday, October 21, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

There are substantial gaps in our understanding of the epidemiology, natural history, and treatment of schistosomiasis in women. The speakers in this symposium will address some of these data gaps by addressing relevant topics related to schistosomiasis in women including new data regarding schistosomiasis in pregnancy, FGS treatment, genital mucosal immune correlates in FGS and the intersection between FGS, HPV and cervical cancer.

CHAIR
Amy Sturt
Stanford University, Palo Alto, CA, United States

Amaya Lopez Bustinduy
London School of Hygiene &Tropical Medicine, London, United Kingdom

3 p.m.
INTRODUCTION

3:10 p.m.
SCHISTOSOMIASIS IN WOMEN - BACKGROUND AND DIAGNOSTIC MODALITIES
Amy Sturt
Stanford University, Palo Alto, CA, United States

3:20 p.m.
OPTIMIZING FEMALE GENITAL SCHISTOSOMIASIS TREATMENT
Peter Derek Christian Leutscher
Regional Hospital North Jutland, Hjorring, Denmark

3:40 p.m.
GENITAL MUCOSAL IMMUNE CORRELATES IN WOMEN WITH SCHISTOSOMIASIS
Jane Maganga
Mwanza Intervention Trials Unit, National Institute for Medical Research (NIMR) Campus, Mwanza, United Republic of Tanzania

4 p.m.
S. HAEMATOBIUM INFECTION IN PREGNANCY
Josiane Honkpehedji
Centre de Recherche Medicales de Lambarene (Cermel), Lambarene, Gabon

4:20 p.m.
GENITAL SCHISTOSOMIASIS, HPV, AND CERVICAL CANCER
Amaya Lopez Bustinduy
London School of Hygiene & Tropical Medicine, London, United Kingdom

4:40 p.m.
PANEL MODERATOR
Jennifer A. Downs
Weill-Cornell Medical College, New York, NY, United States

Scientific Session 140

Malaria - Vaccine Development and Testing

Crystal Ballroom A - Lobby Level (West Tower)
Saturday, October 21, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

CHAIR
Andrea Berry
University of Maryland School of Medicine, Baltimore, MD, United States

Mehreen Datoo
Jenner Institute, University of Oxford, Oxford, United Kingdom

3 p.m. **7167**

NON-HUMAN PRIMATE AOTUS NANCYMAAE MODEL FOR THE EVALUATION OF *PLASMODIUM VIVAX* BLOOD STAGE VACCINES

Julio A. Ventocilla[1], L. Lorena Tapia[1], Freddy E. Villena[1], Diana C. Cedamanos[1], Jessica N. Buchta[1], Melina Florez[1], Hugo O. Valdivia[1], Danielle L. Pannebaker[1], Jürgen Bosch[2], Christopher King[2], Brandon K. Wilder[3]
[1]US Naval Medical Research Unit No 6, Callao, Peru, [2]Case Western Reserve University, Cleveland, OH, United States, [3]Oregon Health & Science University, Portland, OR, United States

3:15 p.m. **7168**

A HUMAN ANTIBODY EPITOPE MAP OF PFS230D1 DERIVED FROM ANALYSIS OF INDIVIDUALS VACCINATED WITH A MALARIA TRANSMISSION-BLOCKING VACCINE

Wai Kwan Tang[1], Camila H. Coelho[1], Kazutoyo Miura[1], Bergeline C. Nguemwo Tentokam[1], Nichole D. Salinas[1], David L. Narum[1], Sara A. Healy[1], Issaka Sagara[2], Long A. Carol[1], Patrick E. Duffy[1], Niraj H. Tolia[1]
[1]National Institutes of Health, Bethesda, MD, United States, [2]University of Sciences, Techniques, and Technology, Bamako, Mali

3:30 p.m. **7169**

TWO NOVEL PFS230 DOMAINS DISCOVERED AS TARGETS FOR MALARIA TRANSMISSION-BLOCKING ANTIBODIES

Matthijs M. Jore[1], Maartje R. Inklaar[1], Roos M. De Jong[1], Ezra T. Bekkering[1], Lisanne Hubregtse[1], Maartje Meijer[1], Hikaru Nagaoka[2], Felix L. Fennemann[3], Karina Teelen[1], Rianne Stoter[1], Marga van de Vegte-Bolmer[1], Geert-Jan van Gemert[1], C. Richter King[4], Nicholas I. Proellochs[1], Teun Bousema[1], Eizo Takashima[2], Takafumi Tsuboi[5]
[1]Department of Medical Microbiology, Radboudumc, Nijmegen, Netherlands, [2]Division of Malaria Research, Proteo-Science Center, Ehime University, Matsuyama, Japan, [3]Department of Tumor Immunology, Radboudumc, Nijmegen, Netherlands, [4]PATH's Center for Vaccine Innovation and Access, Washington DC, DC, United States, [5]Division of Cell-Free Sciences, Proteo-Science Center, Ehime University, Matsuyama, Japan

3:45 p.m. **7170**

NOVEL BLOOD-STAGE VACCINE CANDIDATE RH5.1/AS01$_B$ ELICITS A MIX OF NEUTRALIZING AND NON-NEUTRALIZING PLASMA IGG LINEAGES IN MALARIA-NAÏVE UNITED KINGDOM ADULTS

Jeffrey Marchioni[1], Allison Seeger[1], Jordan R. Barrett[2], Kirsty McHugh[2], Jessica Kain[3], Randall S. MacGill[4], George Georgiou[1], Simon J. Draper[2], Jason J. Lavinder[1], Gregory C. Ippolito[1]
[1]The University of Texas at Austin, Austin, TX, United States, [2]Oxford University, Oxford, United Kingdom, [3]University of Wisconsin, Madison, WI, United States, [4]Center for Vaccine Innovation and Access, PATH, Washington, DC, United States

4 p.m. 7171

PROTECTIVE IMMUNE MECHANISMS INDUCED BY THE RTS,S MALARIA VACCINE IN A PEDIATRIC PHASE IIB CLINICAL TRIAL

Liriye Kurtovic[1], Gaoqian Feng[1], Alessia Hysa[1], Ali Haghiri[2], Katherine O'Flaherty[1], Bruce D. Wines[1], Rebeca Santano[3], Heidi E. Drummer[1], P. Mark Hogarth[1], Jahit Sacarlal[4], Freya J. I. Fowkes[1], Julie A. Simpson[2], Carlota Dobaño[3], James G. Beeson[1]
[1]Burnet Institute, Melbourne, Australia, [2]The University of Melbourne, Melbourne, Australia, [3]ISGlobal, Hospital Clínic Universitat de Barcelona, Barcelona, Spain, [4]Centro de Investigação em Saúde de Manhiça, Maputo, Mozambique

4:15 p.m. 7172

THE FINAL RESULTS OF A FIVE-YEAR, DOUBLE-BLIND, RANDOMISED CONTROLLED PHASE 3 TRIAL OF SEASONAL VACCINATION WITH RTS,S/AS01$_E$ VACCINE WITH OR WITHOUT SEASONAL MALARIA CHEMOPREVENTION IN YOUNG CHILDREN IN BURKINA FASO AND MALI

Alassane Dicko[1], Jean-Bosco Ouedraogo[2], Issaka Zongo[2], Issaka Sagara[1], Matthew Cairns[3], Serge Rakiswende Yerbanga[2], Djibrilla Issiaka[2], Charles Zoungrana[2], Youssoufa Sidibe[1], Amadou Tapily[1], Frederic Nikiema[2], Frederic Sompougdou[2], Koualy Sanogo[1], Mahamadou Kaya[1], Hama Yalcouye[1], Oumar M Dicko[1], Modibo Diarra[1], Kalifa Diarra[1], Ismaila Thera[1], Alassane Haro[2], Abdoul Aziz Sienou[2], Seydou Traore[1], Almahamadou Mahamar[1], Amagana Dolo[1], Irene Kuepfer[3], Paul Snell[3], Jane Grant[3], Jayne Webster[3], Paul Milligan[3], Cynthia Lee[4], Christian Ockenhouse[4], Opokua Ofori-Anyinam[5], Halidou Tinto[2], Abdoulaye Djimde[1], Daniel Chandramohan[3], **Brian Greenwood**[3]
[1]MRTC, Bamako, Mali, [2]INSTech/IRSS, Bobo-Dioulasso, Burkina Faso, [3]LSHTM, London, United Kingdom, [4]PATH, Seattle, WA, United States, [5]GSK, Wavre, Belgium

4:30 p.m. 7173

RESULTS FROM A PHASE III TRIAL EVALUATING THE R21/MATRIX-M MALARIA VACCINE

Alassane Dicko[1], Mainga Hamaluba[2], Ally Olotu[3], Jean Bosco Ouedraogo[4], Halidou Tinto[5], **Mehreen S. Datoo**[6], Emma Beaumont[7], John Bradley[7], Katie J. Ewer[6], Umesh Shaligram[8], Adrian V.S Hill[6], R21/Matrix-M Vaccine Phase III Trial Group[9]
[1]Malaria Research and Training Centre, University of Bamako, Bamako, Mali, [2]Kenya Medical Research Institute-Wellcome Trust Research Programme, Kilifi, Kenya, [3]Ifakara Health Institute, Bagamoyo, United Republic of Tanzania, [4]Institut des Sciences et Techniques, Bobo-Dioulasso, Burkina Faso, [5]Unite de Recherche Clinique de Nanoro, Institut de Recherche en Sciences de la Sante, Nanoro, Burkina Faso, [6]University of Oxford, Oxford, United Kingdom, [7]London School of Hygiene & Tropical Medicine, London, United Kingdom, [8]Serum Institute of India Pvt. Ltd, Pune, India

Symposium 141

Clinical Tropical Medicine Debates: Lassa Fever and Leptospirosis

Crystal Ballroom B - Lobby Level (West Tower)
Saturday, October 21, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

There is more than one approach to many clinical issues in Tropical Medicine, particularly when there is conflicting information or a lack of evidence for best approaches to patient care. This symposium will explore the use of Ribavirin for the treatment of Lassa Fever and chemoprophylaxis for prevention of Leptospirosis in a debate style format. Presenters will articulate a pro or con position around each issue followed by a panel discussion of the merits of each argument.

CHAIR

Kyle Petersen
Uniformed Services University, Bethesda, MD, United States

John W. Sanders
Wake Forest University School of Medicine, Winston-Salem, NC, United States

3 p.m.
INTRODUCTION

3:10 p.m.
RIBAVIRIN FOR TREATMENT OF LASSA FEVER: PRO
Sylvanus Okogbenin
Irrua Specialist Teaching Hospital, Irrua, Nigeria

3:35 p.m.
RIBAVIRIN FOR TREATMENT OF LASSA FEVER: CON
Alex Salam
University of Oxford, Oxford, United Kingdom

3:50 p.m.
CHEMOPROPHYLAXIS FOR PREVENTION OF LEPTOSPIROSIS: PRO
Kyle Petersen
Uniformed Services University, Bethesda, MD, United States

4:05 p.m.
CHEMOPROPHYLAXIS OF LEPTOSPIROSIS: CON
Susan McLellan
University of Texas Medical Branch, Galveston, TX, United States

4:20 p.m.
PANELIST-TROPICAL MEDICINE DEBATES
Lin Chen
Mount Auburn Hospital, Cambridge, MA, United States

Symposium 142

American Committee on Arthropod-Borne and Zoonotic Viruses (ACAV) Symposium II: The Dengue Endgame: Imagining a World with Dengue Control

Regency Ballroom A - Ballroom Level (West Tower)
Saturday, October 21, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

Recent advances in dengue vaccines, antivirals, therapeutics, biologics, and vector control have renewed hope that dengue control may be an achievable goal. However, these technological and medical advances are emerging into a world challenged by climate change, increasing urbanization, expanded regional and international travel, and viral evolution. In light of these challenges and opportunities the objectives of this symposium are to: 1) discuss the current state of dengue around the world, 2) discuss what dengue "control" might look like, and 3) discuss and identify potential routes towards dengue control. This symposium will start with two presentations on the current state of dengue around the world from the perspective of physician scientists from dengue-endemic areas. These talks will highlight lessons learned from decades of research in these areas, as well as new developments in dengue treatment and forecasting. The next presentation will review the current state of dengue vaccines and the implications of recent advances in vaccine technology. The next presentation will address advances in dengue antivirals, therapeutics, and biologics, followed by a presentation on the state of vector control as it pertains to dengue transmission. The symposium will end with a panel discussion.

CHAIR

Saravanan Thangamani
SUNY Upstate Medical University, Syracuse, NY, United States

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

3 p.m.
INTRODUCTION

3:10 p.m.
DENGUE IN THAILAND: LESSONS LEARNED AND PATH TO THE FUTURE

Darunee Buddhari
Kamphaeng Phet-AFRIMS Virology Research Unit, Kamphaeng Phet, Thailand

3:30 p.m.
FORECASTING DENGUE TRANSMISSION AND ADVANCES IN CLINICAL CARE

Sophie Yacoub
Oxford University Clinical Research Unit, Ho Chi Minh city, Vietnam

3:50 p.m.
DENGUE VACCINES: HISTORICAL PERSPECTIVES AND RECENT ADVANCES

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

4:10 p.m.
ADVANCES IN DENGUE ANTIVIRALS AND THERAPEUTICS: IMPLICATIONS FOR DENGUE CONTROL

Timothy Endy
Coalition for Epidemic Preparedness Innovations, Oslo, Norway

4:30 p.m.
ADVANCES IN VECTOR CONTROL - TRIALS AND REAL WORLD EVIDENCE OF IMPACT ON DENGUE INCIDENCE

Cameron Simmons
World Mosquito Program, Mulgrave, Australia

Scientific Session 143

Water, Sanitation, Hygiene and Environmental Health (WaSH-E): Outcomes

Regency Ballroom B - Ballroom Level (West Tower)
Saturday, October 21, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

CHAIR

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

Rehnuma Haque
International Cholera and Diarhhoeal Disease Research Bangladesh, Dhaka, Bangladesh

3 p.m. **7174**

EXAMINING THE EFFECT OF NEIGHBORHOOD LATRINE COVERAGE ON CHILDHOOD DIARRHEAL RISK IN RURAL BANGLADESH

Hannah Van Wyk[1], Andrew F. Brouwer[1], Ayse Ercumen[2], Jesse Contreras[1], Matthew C. Freeman[3], Joseph N. Eisenberg[1]
[1]University of Michigan School of Public Health, Ann Arbor, MI, United States, [2]North Carolina State University Department of Forestry and Environmental Resources, Raleigh, NC, United States, [3]Rollins School of Public Health Emory University, Atlanta, GA, United States

3:15 p.m. **7175**

FIRST-EVER ENVIRONMENTAL SURVEILLANCE AT HUMANITARIAN SETTINGS IN COX'S BAZAR, BANGLADESH: DETECTION OF SARS-COV2 AND ENTERIC PATHOGENS

Md Rezaul Hasan[1], Md Ziaur Rahman[1], Nuhu Amin[1], Rehnuma Haque[1], Md Shariful Islam[2], Afroza Jannat Suchana[1], Mohammed Ziaur Rahman[3], Mohammad Enayet Hossain[3], Mojnu Miah[3], Suraja Raj[4], Pengbo Liu[4], Yuke Wang[4], Marlene Wolfe[4], Stephen Patrick Hilton[4], Chloe Svezia[4], Mahbubur Rahman[5], Ahmed Nawsher Alam[5], Zakir Hossain Habib[5], Aninda Rahman[6], David Otieno[7], Feroz Hayat Khan[7], Mahbubur Rahman[1], Megan B. Diamond[8], Tahmina Shirin[5], Christine L. Moe[4]
[1]Environmental Interventions Unit, Infectious Diseases Division, International Centre for Diarrhoeal Disease Research, Bangladesh (icddr,b), Dhaka 1212, Bangladesh, Dhaka, Bangladesh, [2]School of Public Health, University of Queensland, Brisbane, Australia, Brisbane, Australia, [3]One Health Laboratory, Infectious Diseases Division, International Centre for Diarrhoeal Disease Research, Bangladesh (icddr,b), Dhaka 1212, Bangladesh, Dhaka, Bangladesh, [4]The Center for Global Safe Water, Sanitation, and Hygiene at Emory University, USA, Atlanta, GA, United States, [5]Institute of Epidemiology, Disease Control, and Research (IEDCR), Dhaka, Dhaka, Bangladesh, [6]Communicable Disease Control (CDC) Program, Directorate General of Health Services (DGHS), Dhaka, Bangladesh, Dhaka, Bangladesh, [7]World Health Organization (WHO) Sub-office, Cox's Bazar, Bangladesh, Cox's Bazar, Bangladesh, [8]The Rockefeller Foundation, New York, NY, United States

3:30 p.m. **7176**

ENTERIC PATHOGEN FLOWS AT CITYWIDE SCALES

Drew Capone[1], Vanessa Monteiro[2], Victoria Cumbane[2], Edna Viegas[2], Joe Brown[3]
[1]Indiana University, Bloomington, IN, United States, [2]Centro de Investigação e Treino em Saúde da Polana Caniço, Maputo, Mozambique, [3]University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

3:45 p.m. **7177**

INEQUALITIES IN CHILD DIARRHEA AND EFFECT MODIFICATION OF WATER, SANITATION AND HANDWASHING INTERVENTIONS BY SOCIOECONOMIC POSITION AND MONSOON SEASON IN RURAL BANGLADESH: A SUBGROUP ANALYSIS OF A CLUSTER RANDOMIZED TRIAL

Pearl Anne Ante-Testard[1], Francois Rerolle[1], Anna Nguyen[2], Sania Ashraf[3], Sarker Masud Parvez[3], Abu Mohammed Naser[4], Tarik Benmarhnia[5], Mahbubur Rahman[3], Stephen P. Luby[6], Jade Benjamin-Chung[2], Benjamin F. Arnold[1]
[1]Francis I. Proctor Foundation, Department of Ophthalmology, University of California San Francisco, San Francisco, CA, United States, [2]Department of Epidemiology and Population Health, Stanford University, Stanford, CA, United States, [3]Environmental Interventions Unit, Infectious Diseases Division, International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, [4]Division of Epidemiology, Biostatistics, and Environmental Health, School of Public Health, University of Memphis, Memphis, TN, United States, [5]Scripps Institution of Oceanography, University of California San Diego, San Diego, CA, United States, [6]Division of Infectious Diseases and Geographic Medicine, Stanford University, Stanford, CA, United States

4 p.m. 7178

INTER-RATER AGREEMENT OF FACIAL CLEANLINESS ASSESSMENTS IN RURAL COMMUNITIES OF THE PERUVIAN AMAZON BASIN

Evelyn R. Munayco[1], John M. Nesemann[2], Matthew C. Freeman[3], Maryann G. Delea[3], Jeremy D. Keenan[2], Andres G. Lescano[1]
[1]Emerge, Emerging Diseases and Climate Change Research Unit, School of Public Health and Administration, Universidad Peruana Cayetano Heredia, Lima, Peru, [2]University of California, San Francisco, CA, United States, [3]Emory University, Atlanta, GA, United States

4:15 p.m. 7179

INFLUENCE OF TEMPERATURE AND PRECIPITATION ON THE EFFECTIVENESS OF WATER, SANITATION, AND HANDWASHING INTERVENTIONS ON CHILDHOOD DIARRHEAL DISEASE AND ENTERIC INFECTIONS IN BANGLADESH

Anna T. Nguyen[1], Jessica A. Grembi[1], Marie Riviere[1], Gabriella Barratt Heitmann[1], William D. Hutson[2], Tejas S. Athni[1], Arusha Patil[1], Ayse Ercumen[3], Audrie Lin[4], Yoshika Crider[1], Andrew Mertens[4], Leanne Unicomb[5], Mahbubur Rahman[5], John M. Colford[4], Stephen P. Luby[1], Benjamin F. Arnold[6], Jade Benjamin-Chung[1]
[1]Stanford University, Stanford, CA, United States, [2]Washington University in St. Louis, St. Louis, MO, United States, [3]North Carolina State University, Raleigh, NC, United States, [4]University of California, Berkeley, Berkeley, CA, United States, [5]International Centre for Diarrhoeal Disease Research, Dhaka, Bangladesh, [6]Francis I. Proctor Foundation, University of California, San Francisco, San Francisco, CA, United States

4:30 p.m. 7180

HUMAN FECAL CONTAMINATION OF HOUSEHOLD WATER AND SOIL AND ENTERIC PATHOGENS IN CHILD STOOL

David A. Holcomb[1], Jackie Knee[2], Drew Capone[3], Rassul Nalá[4], Oliver Cumming[2], Jill R. Stewart[1], Joe Brown[1]
[1]University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [2]London School of Hygiene & Tropical Medicine, London, United Kingdom, [3]Indiana University Bloomington, Bloomington, IN, United States, [4]Ministry of Health, Maputo, Mozambique

Scientific Session 144

Mosquitoes-Biology, Physiology and Immunity

Regency Ballroom C - Ballroom Level (West Tower)
Saturday, October 21, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

CHAIR
Jun Li
Florida International University, Miami, FL, United States

Vincent O. Nyasembe
CDC, Atlanta, GA, United States

3 p.m. 7181

TOWARDS ARTIFICIAL INSEMINATION AND *IN VITRO* FERTILIZATION OF THE MALARIA *ANOPHELES*GAMBIAE

Vincent O. Nyasembe, Claire Schregardus, Priscila Bascunan, Mark Q. Benedict, Ellen M. Dotson
Center for Disease Control and Prevention, Atlanta, GA, United States

3:15 p.m. 7182

AEDES AEGYPTI ARGONAUTE 2 CONTROLS ARBOVIRUS-INDUCED MOSQUITO DEATH

Shengzhang Dong, George Dimopoulos
Johns Hopkins University, Baltimore, MD, United States

3:30 p.m. 7183

INFLUENCE OF MOSQUITO IMMUNE CELLS IN ARBOVIRUS DISSEMINATION IN *AEDES AEGYPTI*

David R. Hall[1], Hyeogsun Kwon[2], Rebecca Johnson[3], Zannatul Ferdous[3], S. Viridiana Laredo LaredoTiscareño[4], Bradley J. Blitvich[4], Doug E. Brackney[3], Ryan C. Smith[5]
[1]Interdepartmental Program in Genetics and Genomics, Iowa State University, Ames, IA, United States, [2]Department of Plant Pathology, Entomology and Microbiology, Iowa State University,, Ames, IA, United States, [3]Center for Vector-Borne and Zoonotic Diseases, Department of Environmental Sciences, The Connecticut Agricultural Experiment Station, New Haven, CT, United States, [4]Department of Veterinary Microbiology and Preventative Medicine, Iowa State University, Ames, IA, United States, [5]Department of Plant Pathology, Entomology and Microbiology, Iowa State University, Ames, IA, United States

3:45 p.m. 7184

CHARACTERIZATION OF SENSORY NEURONS IN *ANOPHELES* MOSQUITO APPENDAGES

Joanna Konopka[1], Darya Task[1], Danny Poinapen[2], Christopher Potter[1]
[1]Johns Hopkins University, Baltimore, MD, United States, [2]Western University, London, ON, Canada

4 p.m. 7185

MOSQUITO RESISTANCE TO DENGUE VIRUS REVEALED BY SINGLE-CELL GENE EXPRESSION AND METABOLOMIC PROFILING OF MIDGUT AND FAT BODY

Thomas Vial, Louis Lambrechts, Sarah Merkling
Institut Pasteur, Université Paris Cité, CNRS UMR2000, Insect-Virus Interactions Unit, Paris, France

4:15 p.m. 7186

PLASMODIUM PARASITOPHOROUS VACUOLE MEMBRANE PROTEIN PFS16 PROMOTES MALARIA TRANSMISSION BY SILENCING MOSQUITO IMMUNITY

Julian Ramelow, Yacob Keleta, Guodong Niu, Xiaohong Wang, **Jun Li**
Florida International University, Miami, FL, United States

4:30 p.m. 7187

TEMEPHOS RESISTANCE IS ASSOCIATED WITH REDUCED VECTOR COMPETENCE FOR ZIKA VIRUS IN *AEDES AEGYPTI*

Grant A. Kay, Jennifer S. Lord, Grant L. Hughes, Lisa J. Reimer
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Symposium 145

Surveillance for Malaria Elimination: What Does it Take to be Sure of Zero Infections?

Regency Ballroom D - Ballroom Level (West Tower)
Saturday, October 21, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

Surveillance data is the crucial evidence-base to inform targeting interventions, to measure progress in reducing transmission, and to determine whether malaria elimination has been achieved. Establishing a surveillance system to confirm the presence of infections is relatively straightforward, although structure and data quality do vary. However, as more malaria endemic countries are getting closer to malaria elimination, understanding the implications of transitioning the surveillance system to enable further integration of data sources and options to enable an elimination framework so the system is fit for purpose is paramount. This symposium will bring together experts to share experiences and novel surveillance tools to support decision-making for malaria elimination. First, we will provide an overview of the current expectations of malaria surveillance systems for being ready to apply for malaria elimination certification with a specific focus on the components that countries find most challenging to meet. Next, the specific malaria surveillance needs to confirm elimination of *P. vivax* malaria transmission given the risk of continued relapses from hypnozoite carriers will be discussed. The focus will be on the current approaches being applied in Peru and other *P. vivax* endemic settings, key challenges, and potential solutions for adapting surveillance systems to confirm elimination. Thirdly, results from the novel Freedom From Infection (FFI) tool to assess the sensitivity of the malaria surveillance system and the corresponding likelihood that elimination is supported by all available evidence will be presented. Results based on passive and active surveillance data collected in 6 countries identified specific factors that are associated with a high system sensitivity: for example, the probability of someone being more likely to seek care at a given facility was consistently associated with testing equipment availability (coefficient range: 0.1-11.9). The potential for FFI to be an important programmatic tool to support decision-making will be discussed. Subsequently, we will present examples from countries that are starting to think about incorporating new approaches to verify zero malaria from a surveillance perspective, how routine data quality audits have been adapted to look at zero reporting, how surveillance assessments incorporate elements of zero malaria verification and how community level digital tools are tailored in elimination areas to contribute to robust malaria data analyses in this context. Finally, the session will conclude with a presentation on the opportunities to leverage the multiple malaria diagnostics to maximize the information available to support programmatic decision-making for confirming elimination.

CHAIR

Gillian H. Stresman
University of South Florida, Tampa, FL, United States

Gabriel Carrasco Escobar
Universidad Peruana Cayetano Heredia, Lima, Peru

3 p.m.
INTRODUCTION

3:10 p.m.
COUNTRY EXPERIENCES WITH WHO CERTIFICATION REQUIREMENTS FOR MALARIA ELIMINATION CERTIFICATION
Hong Li
World Health Organization, Geneva, Switzerland

3:25 p.m.
MALARIA SURVEILLANCE FOR ELIMINATION: CONFIRMING *P. VIVAX* ELIMINATION IN PERU
Gabriel Carrasco Escobar
Universidad Peruana Cayetano Heredia, Lima, Peru

3:40 p.m.
FREEDOM FROM INFECTION: A NOVEL TOOL TO ESTIMATE THE SENSITIVITY OF THE MALARIA SURVEILLANCE SYSTEM, INCORPORATING ALL AVAILABLE DATA, AND THE CORRESPONDING CONFIDENCE THAT ELIMINATION IS LIKELY
Gillian Stresman
University of South Florida, Tampa, FL, United States

3:55 p.m.
COUNTRY EFFORTS TO INCORPORATE NEW APPROACHES TO VERIFY ZERO MALARIA FROM A SURVEILLANCE PERSPECTIVE
Arantxa Roca-Feltrer
PATH, Maputo, Mozambique

4:10 p.m.
OPPORTUNITIES TO LEVERAGE MULTIPLE MALARIA DIAGNOSTIC TOOLS TO SUPPORT MALARIA SURVEILLANCE AND PROGRAMMATIC DECISION-MAKING
Chris Drakeley
London School of Hygiene & Tropical Medicine, London, United Kingdom

Ben Kean Fellowship Reception - By Invitation Only

Michigan 1A - Concourse Level (East Tower)
Saturday, October 21, 5 p.m. - 7 p.m. U.S. Central Time Zone

Special Session 146

Clinical Pub Trivia Night

Michigan 1B/1C- Concourse Level (East Tower)
Saturday, October 21, 6:15 p.m. - 8 p.m. U.S. Central Time Zone

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 TropMed. 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.

EMCEE
Jill Weatherhead
Baylor College of Medicine, Houston, TX, United States

Sunday, October 22

Registration

Grand Ballroom Foyer - Ballroom Level (East Tower)
Sunday, October 22, 7 a.m. - 10:30 a.m. U.S. Central Time Zone

Speaker Ready Room

Grand Suite 2AB - Ballroom Level (East Tower)
Sunday, October 22, 7 a.m. - Noon U.S. Central Time Zone

Meeting Sign-Up Room

Horner and Ogden - Third Floor (West Tower)
Sunday, October 22, 7 a.m. - 1 p.m. U.S. Central Time Zone

Nursing Mothers Room

Grand Suite 1 and Grand Suite 4 - Ballroom Level (East Tower)
Sunday, October 22, 7 a.m. - 1 p.m. U.S. Central Time Zone

Prayer Room

Hong Kong - Ballroom Level (West Tower) and Field - Third Floor (West Tower)
Sunday, October 22, 7 a.m. - 1 p.m. U.S. Central Time Zone

Scientific Session 147

Global Health: ICT Innovations for Improved Health Care Service Delivery

Grand Ballroom A - Ballroom Level (East Tower)
Sunday, October 22, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR
Laura Steinhardt
CDC, Atlanta, GA, United States

Rainer Tan
Unisanté, Lausanne, Switzerland

8 a.m. 7188

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

Rainer Tan[1], Lameck B. Luwanda[2], Godfrey Kavishe[3], Alexanda V. Kulinkina[4], Chacha Mangu[3], Sabine Renggli[2], Geofrey Ashery[2], Margreth Joram[2], Ibrahim E. Mtebene[2], Peter Agrea[3], Alan Vonlanthen[1], Vincent Faivre[1], Julien Thabard[1], Humphrey Mhagama[3], Gillian Levine[4], Marie-Annick Le Pogam[1], Kristina Keitel[5], Patrick Taffé[1], Nyanda Ntinginya[3], Honorati Masanja[2], Valérie D'Acremont[1]
[1]Unisanté, Lausanne, Switzerland, [2]Ifakara Health Institute, Dar es Salaam, United Republic of Tanzania, [3]National Institute of Medical Research - Mbeya Medical Research Centre, Mbeya, United Republic of Tanzania, [4]Swiss Tropical and Public Health Institute, Allschwil, Switzerland, [5]University Hospital Bern, Bern, Switzerland

8:15 a.m. 7189

EFFECTIVENESS OF A CLINICAL DECISION SUPPORT ALGORITHM (EPOCT+) IN IMPROVING QUALITY OF CARE FOR SICK CHILDREN IN PRIMARY HEALTH FACILITIES IN TANZANIA (DYNAMIC PROJECT): RESULTS FROM A CLUSTER RANDOMIZED TRIAL

Godfrey A. Kavishe[1], Alexandra V. Kulinkina[2], Sabine Renggli[3], Chacha D. Mangu[1], Lameck Luwanda[3], Peter Agrea[1], Humphrey Mhagama[1], Margaret Joram[3], Ibrahim Mtebene[3], Geofrey I. Ashery[3], Marie-Annick Le Pogam[4], Honorati Masanja[3], Nyanda E. Ntinginya[1], Valérie D'Acremont[4], Rainer Tan[4]
[1]National Institute of Medical Research-Mbeya Medical Research Centre, Mbeya, United Republic of Tanzania, [2]Swiss Tropical and Public Health Institute, Allschwil, Switzerland, [3]Ifakara Health Institute, Dar es Salaam, United Republic of Tanzania, [4]Unisanté, Centre for Primary Care and Public Health, University of Lausanne, Lausanne, Switzerland

8:30 a.m. 7190

MULTIMODAL VITAL SIGN DEVICES FOR RELIABILITY AND FEASIBILITY, USABILITY, AND ACCEPTABILITY IN A LOW-RESOURCE SETTING - A PRELIMINARY ANALYSIS

Lava Shrestha[1], Debashish Das[2], Philip Horgan[2], Jyotshna Sapkota[2], Aurélien Mace[2], Thomas Keller[3], Patrick Kantelhardt[3], Sabita Kandel[1], Lisa Soti[4], Phyu Hnin Hlaing[5], Santa Kumar Das[1], Pradip Gyanwali[1], George Korir[2], Sabine Dittrich[2], Cassandra Kelly-Cirino[2], Marta Fernandez Suarez[2], Sergio Carmona[2], Kevin K.A. Tetteh[2]
[1]Institute of Medicine, Kathmandu, Nepal, [2]FIND, Geneva, Switzerland, [3]ACOMED Statistik, Leipzig, Germany, [4]Department of Public Health, Om Health Campus Pvt. Ltd, Kathmandu, Nepal, [5]Evidence & Impact - Oxford, Oxford, United Kingdom

8:45 a.m. 7191

DEVELOPMENT AND EVALUATION OF A CLINICAL GUIDELINE FOR A PEDIATRIC TELEMEDICINE AND MEDICATION DELIVERY SERVICE: A PROSPECTIVE COHORT STUDY IN HAITI

Molly Klarman[1], Xiaofei Chi[2], Youseline Cajusma[1], Katelyn E. Flaherty[2], Anne Carine Capois[1], Michel Daryl Vladimir Dofiné[1], Lerby Exantus[3], Jason Friesen[4], Valery M. Beau de Rochars[2], Torben K. Becker[2], Chantale Baril[5], Matthew J. Gurka[2], Eric J. Nelson[2]
[1]University of Florida, Gressier, Haiti, [2]University of Florida, Gainesville, FL, United States, [3]Université d'État d'Haiti- Faculté de Médecine et de Pharmacie, Port au Prince, Haiti, [4]Trek Medics International, Charlotte, NC, United States, [5]Université d'État d'Haiti- Faculté de Médecine et de Pharmacie, Port au Prince, Haiti

9 a.m. 7192

IMPACT OF A DIGITAL CLINICAL DECISION SUPPORT ALGORITHM ON ANTIBIOTIC PRESCRIPTION IN RWANDA: PRELIMINARY RESULTS FROM A CLUSTER NON-RANDOMIZED CONTROLLED TRIAL

Alexandra V. Kulinkina[1], Victor Rwandarwacu[2], Joseph Habakurama[2], Angelique Ingabire[2], Ludovico Cobuccio[3], Emmanuel Kalisa[2], Gilbert Rukundo[2], Gillian Levine[1], Martin Norris[1], Rainer Tan[1], Alan Vonlanthen[3], Vincent Faivre[3], Julien Thabard[3], Marie-Annick Le Pogam[3], Valerie D'Acremont[3]
[1]Swiss Tropical and Public Health Institute, Allschwil, Switzerland, [2]Swiss Tropical and Public Health Institute, Kigali, Rwanda, [3]Centre for Primary Care and Public Health, University of Lausanne (Unisanté), Lausanne, Switzerland

9:15 a.m. 7193

ENVIRONMENTAL IMPACT AND MINERAL AND ENERGY REQUIREMENTS OF THE USE OF AN ELECTRONIC CLINICAL DECISION SUPPORT ALGORITHM (CDSA) TO MANAGE SICK CHILDREN IN TANZANIA: A LIFE CYCLE ASSESSMENT

Nina Emery[1], Maxime Karlen[1], Rainer Tan[1], Godfrey Kavishe[2], Peter Agrea[2], Sabine Renggli[3], Alexandra Kulinkina[4], Lameck Luwanda[3], Chacha Mangu[2], Pascale Schwab[5], Xavier Bengoa[6], Valérie D'Acremont[1]

[1]Unisanté, Lausanne, Switzerland, [2]National Institute for Medical Research - Mbeya Medical Research Center, Mbeya, United Republic of Tanzania, [3]Ifakara Health Institute, Ifakara, United Republic of Tanzania, [4]Swiss Tropical and Public Health Institute, Basel, Switzerland, [5]University of Lausanne, Lausanne, Switzerland, [6]AdAstra Sustainability, Choulex, Switzerland

9:30 a.m. 7194

LEVERAGING DIGITAL MOBILE TECHNOLOGY TO INCREASE KNOWLEDGE OF TUBERCULOSIS DISEASE AND BRIDGE THE GAP IN TB CASE FINDING IN NIGERIA: A CASE STUDY OF THE NATIONAL TUBERCULOSIS CALL CENTRE

Olatunde Toluwase[1], Joseph Edor[1], Linda Osaji[1], Cecilia Kafran[1], Jennifer Orkis[2], Ian Tweedie[1], Emeka Okafor[3], Debby Nongo[4], Bolatito Aiyenigba[1], Obioma Akaniro[5], Chukwuma Anyaike[5]

[1]Johns Hopkins Center for Communication Programs - USAID Breakthrough ACTION, Abuja, Nigeria, [2]Johns Hopkins Center for Communication Programs - USAID Breakthrough ACTION, Baltimore, MD, United States, [3]Interra Networks Limited, Abuja, Nigeria, [4]United States Agency for International Development (USAID), Abuja, Nigeria, [5]National Tuberculosis and Buruli Ulcer Control Programme (NTBLCP), Abuja, Nigeria

Scientific Session 148

Malaria - Prevention I

Grand Ballroom B - Ballroom Level (East Tower)

Sunday, October 22, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR

Nelli Westercamp
U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States

Keith Esch
PSI, Washington, DC, United States

8 a.m. 7195

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

Moussa Lingani[1], Serge Henri Zango[1], Innocent Valéa[1], Sékou Samadoulougou[2], Michèle Dramaix[3], Halidou Tinto[1], Philippe Donnen[3], Annie Robert[4]

[1]Institut de Recherche en Sciences de la Santé/Direction Régionale du Centre Ouest (IRSS/DRCO), Nanoro, Burkina Faso, [2]Evaluation Platform on Obesity Prevention, Quebec Heart and Lung Institute Research Center, Quebec City, QC G1V 4G5, Quebec, QC, Canada, [3]École de santé publique, Université Libre de Bruxelles. CP594, route de Lennik 808, 1070 Bruxelles, Bruxelles, Belgium, [4]Epidemiology and Biostatistics Research Division, Institut de recherche expérimentale et clinique, Université catholique de Louvain, Brussels B1.30.13, Clos Chapelle-aux-Champs 30, B-1200 Brussels, Bruxelles, Belgium

8:15 a.m. 7196

THE UGANDA HOUSING MODIFICATION STUDY - A CLUSTER RANDOMIZED TRIAL EVALUATING THE IMPACT OF TWO TYPES OF HOUSING MODIFICATION ON MALARIA BURDEN IN UGANDA

Nelli Westercamp[1], Samuel Gonahasa[2], Agaba Katureebe[2], Catherine Maiteki-Sebuguzi[3], Joaniter I. Nankabirwa[2], Jimmy Opigo[3], Henry Mawejje[2], John E. Gimnig[1], Peter Mutungi[2], Katherine Snyman[4], Walter Ochieng[1], Susan Nayiga[2], Eleanor Hutchinson[4], Seth R. Irish[5], Jenny Carlson[6], Mame Niang[7], Kassahun A. Belay[8], Sarah G. Staedke[4], Moses R. Kamya[2]

[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Infectious Diseases Research Collaboration, Kampala, Uganda, [3]Ministry of Health (MOH/NMCP), Kampala, Uganda, [4]London School of Hygiene & Tropical Medicine, London, United Kingdom, [5]U.S. President's Malaria Initiative, Centers for Disease Control and Prevention, Atlanta, GA, United States, [6]U.S. President's Malaria Initiative, USAID, Washington, DC, United States, [7]U.S. President's Malaria Initiative, Centers for Disease Control and Prevention, Kampala, Uganda, [8]U.S. President's Malaria Initiative, USAID, Kampala, Uganda

8:30 a.m. 7197

INSECTICIDE CHEMICAL CONTENT AND BIOEFFICACY OF INSECTICIDE-TREATED NETS CONTAINING CHLORFENAPYR OR PIPERONYL BUTOX-IDE OVER 24 MONTHS OF FIELD USE IN BURKINA FASO, RWANDA, SIERRA LEONE, AND BURUNDI

Keith Esch[7], *Isabel Swamidoss[2], Jacky Raharinjatovo[3], Raymond Sudoi[4], Carla Mapp[2], Denis Sinzinkayo[5], Pierre Sinar-inzi[6], Mugisha Landrine[6], Aklilu Seyoum[7], Beatus Cyubahiro[8], Emmanuel Hakizimana[8], Aimable Mbituyumuremyi[8], Elias Niyituma[9], Dennis H. Marke[10], Frederick Yamba[10], Stephen Poyer[1]*

[1]PMI VectorLink, Population Services International, Washington, DC, United States, [2]Entomology Branch, Division of Parasitic Diseases and Malaria, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]PMI VectorLink, Population Services International, Antananarivo, Madagas-car, [4]PMI VectorLink, Population Services International, Nairobi, Kenya, [5]PMI VectorLink, Abt Associates, Bujumbura, Burundi, [6]Programme National Intégré de Lutte contre le Paludisme, Bujumbura, Burundi, [7]PMI VectorLink, Abt Associates, Rockville, MD, United States, [8]Malaria and Other Parasitic Diseases Control Division, Rwanda Biomedical Center, Ministry of Health, Kigali, Rwanda, [9]PMI VectorLink, Abt Associates, Kigali, Rwanda, [10]National Malaria Control Programme, Ministry of Health and Sanitation, Freetown, Sierra Leone

8:45 a.m. 7198

THE RIPPLE EFFECT OF QUALITY IMPROVEMENT IN STRENGTHENING UPTAKE OF INTERMITTENT PREVENTIVE TREATMENT FOR THE PREVENTION OF MALARIA IN PREGNANCY: A CASE STUDY OF KAKAMEGA COUNTY, KENYA

Agatha Kutoy Mandu[1], Francesca Nzuve[1], Beth Barasa[1], Faustinah Sakari[2], Linet Ilemenya[2], Ahmeddin Omar[3], Elvis Oyugi[3], Peter Njiru[3]

[1]U.S. President's Malaria Initiative, Impact Malaria Project, Nairobi, Kenya, [2]Ministry of Health, Kakamega County, Kakamega, Kenya, [3]Division of National Malaria Program, Ministry of Health, Nairobi, Kenya

9 a.m. 7199

LLIN EVALUATION IN UGANDA PROJECT (LLINEUP2): IMPACT OF LONG-LASTING INSECTICIDAL NETS (LLINS) TREATED WITH PYRETHROID PLUS PYRIPROXYFEN VS LLINS TREATED WITH PYRETHROID PLUS PIPERONYL BUTOXIDE ON MALARIA INCIDENCE IN UGANDA: A CLUSTER-RANDOMIZED TRIAL

Samuel Gonahasa[1], Martha J. Nassali[1], Jane F. Namuganga[1], Catherine Maiteki-Sebuguzi[2], Jimmy Opigo[2], Daniel Kyabayinze[3], Isaiah Nabende[1], Jaffer Okiring[1], Adrienne Epstein[4], Katherine Snyman[5], Joaniter I. Nankabirwa[1], Moses R. Kamya[6], Grant Dorsey[7], Sarah G. Staedke[4]

[1]Infectious Diseases Research Collaboration, Kampala, Uganda, [2]National Malaria Control Division, Ministry of Health, Kampala, Uganda, [3]Directorate of Public Health, Ministry of Health, Kampala, Uganda, [4]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [5]London School of Hygiene & Tropical Medicine, London, United Kingdom, [6]Makerere University, Kampala, Uganda, [7]University of California San Francisco, San Francisco, CA, United States

9:15 a.m.

7200

REDUCING MALARIA TRANSMISSION IN FOREST-GOING MOBILE AND MIGRANT POPULATIONS IN LAO PDR AND CAMBODIA: A STEPPED-WEDGE CLUSTER-RANDOMISED CONTROLLED TRIAL

Win Han Oo[1], Win Htike[1], Thet Lynn[2], Lun Sovanda[3], Paul A. Agius[4], May Chan Oo[1], Galau Naw Hkawng[1], Kaung Myat Thu[1], Aung Khine Zaw[1], Ei Phyu Htwe[1], Julia Cutts[1], Nick Scott[1], Ellen Kearney[1], Katherine O'Flatherty[1], Wang Bangyuan[5], Boualam Khamlome[6], Phoutnalong Vilay[6], Siv Sovannaroth[7], **Freya JI Fowkes**[1]

[1]Burnet Institute, Melbourne, Australia, [2]Health Poverty Action, Vientiane, Lao People's Democratic Republic, [3]Health Poverty Action, Phnom Penh, Cambodia, [4]Deakin University, Melbourne, Australia, [5]Health Poverty Action, London, United Kingdom, [6]Center of Malariology Parasitology and Entomology, Ministry of Health, Vientiane, Lao People's Democratic Republic, [7]National Center for Parasitology Entomology and Malaria Control, Ministry of Health, Phnom Penh, Cambodia

9:30 a.m.

7201

DO ATTRACTIVE TARGETED SUGAR BAIT (ATSB) STATIONS REDUCE MALARIA BURDEN IN ZAMBIA? FIRST RESULTS FROM A PHASE III COMMUNITY-RANDOMIZED EFFICACY TRIAL OF ATSB IN WESTERN PROVINCE, ZAMBIA

Ruth Ashton[1], Kochelani Saili[2], Chama Chishya[2], Handrinah Banda[2], Annie Arnzen[3], Chanda Chitoshi[2], John Chulu[2], Frank Ndalama[2], Titus Tobolo[2], Josh Yukich[1], Irene Kyomuhangi[1], Erica Orange[3], Kafula Silumbe[4], Busiku Hamainza[5], John Miller[4], Thom Eisele[1], Megan Littrell[6]

[1]Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States, [2]PATH, Kaoma, Zambia, [3]PATH, Seattle, WA, United States, [4]PATH, Lusaka, Zambia, [5]National Malaria Elimination Centre, Lusaka, Zambia, [6]PATH, Washington, DC, United States

Symposium 149

Diseases, Conflict and Health Security: Accessing Conflict-Affected Populations for Disease Eradication and Elimination Through Peace and Health Approaches

Grand Hall J - Ballroom Level (East Tower)

Sunday, October 22, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

The COVID-19 and Ebola pandemics exposed the fragility of many health systems around the world and exposed the need for improved global health security. Global health security is critical for the protection of populations from disease threats. However, without access to conflict-affected populations, improving global health security is not possible, resulting in already vulnerable populations being at greater risk for exposure to disease and death. The growing number and increasingly protracted and complex nature of conflicts has necessitated the development of equally complex solutions, even while resources to tackle these issues are limited. In certain conflicts, humanitarian, economic, and public health challenges may be shared concerns of civilians, governments, and armed actors, thereby allowing for groups that would not normally interact to find common ground. This symposium will focus on the importance of multisectoral collaboration between peace and health in the context of global health security, and how lessons learned can be applied to similar regional contexts. Examples of public health interventions to explore practical approaches, academic methodologies, and policy recommendations to address challenges in conflict-affected populations and strengthen global health security will be presented. In Libya, health systems functions and financing have been negatively impacted by civil unrest. The ability and success of working at the subnational level for a whole-of-country approach to strengthen zoonotic detection and response capacities will be discussed. In Iraq, a multi-year engagement focused on building consensus and formalizing networks and policies for implementation of the International Health Regulations has proven a successful mechanism. In Liberia, while most of the population was still attempting to manage the emotional and psychological consequences of war in the context of post-conflict vulnerability, they were faced with the Ebola Virus Disease outbreak from 2014-2016 and the COVID-19 pandemic in 2020. The prominent psychosocial impacts of these diseases underscored Liberia's need for strengthened mental health services for young people. In Sudan, conflict in Blue Nile state along Sudan's southern border has made it challenging to provide health services to the region. Mediation efforts are currently on-going to discuss ways of providing health services through a cross-border partnership between Sudan and South Sudan. In Mali, results from a 2022 baseline survey conducted before conflict mitigation activities were initiated as part of a "Peace through Health" initiative will be shared along with recommendations on how to monitor and evaluate conflict resolution initiatives that include health components.

CHAIR

Angelia M. Sanders
The Carter Center, Atlanta, GA, United States

8 a.m.
INTRODUCTION

8:05 a.m.
CAN GLOBAL HEALTH SECURITY BE ACHIEVED WITHOUT ACCESS TO CONFLICT-AFFECTED POPULATIONS?

Erin Sorrell
Johns Hopkins: Center for Health Security and Bloomberg School of Public Health, Baltimore, MD, United States

8:20 a.m.
AN INTEGRATED APPROACH TO PEACEBUILDING AND GLOBAL HEALTH: A MODEL IN CENTRAL MALI

Frederic Deycard
The Carter Center, Atlanta, GA, United States

8:35 a.m.
ACCESSING THE "INACCESSIBLE" IN SUDAN

Sara Lavinia Brair
The Carter Center, Khartoum, Sudan

8:50 a.m.
THE ROLE OF MENTAL HEALTH AND PSYCHOSOCIAL SUPPORT IN BOOSTING PANDEMIC PREPAREDNESS AND RESPONSE

Samhita Kumar
The Carter Center, Atlanta, GA, United States

9:05 a.m.

GLOBAL HEALTH SECURITY AND HEALTH SYSTEMS- THE IMPORTANCE OF MULTISECTORAL APPROACHES IN STRENGTHENING NATIONAL HEALTH EMERGENCY PREPAREDNESS CAPACITIES

Stella Chungong
World Health Organization, Geneva, Switzerland

Scientific Session 150

LIVE STREAMING

Malaria - Insights into Malaria Pathogenesis

Grand Ballroom CDEF - Ballroom Level (East Tower)
Sunday, October 22, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR

Miranda Oakley
FDA, Silver Spring, MD, United States

Sukai Ceesay
Max Planck Institute for Infection Biology, Berlin, Germany

8 a.m. 7202

MULTIPLE *PLASMODIUM FALCIPARUM* EARLY TRANSCRIBED MEMBRANE PROTEIN FAMILY MEMBERS ARE DIFFERENTIALLY EXPRESSED IN PEDIATRIC PATIENTS WITH SEVERE MALARIAL ANEMIA

Perez K. Olewe[1], Qiuying Cheng[2], Clinton O. Onyango[3], Samuel B. Anyona[3], Ivy J. Hurwitz[2], Sarah Kituyi[4], Evans Raballah[5], Beauty Kolade[6], Philip D. Seidenberg[7], Kristan A. Schneider[8], Christophe G. Lamber[2], Ananias A. Escalante[9], Collins Ouma[3], Benjamin H. McMahon[10], Douglas J. Perkins[2]
[1]Jaramogi Oginga Odinga University of Science and Technology, Bondo, Kenya, Bondo, Kenya, [2]University of New Mexico, Center for Global Health, Department of Internal Medicine, Albuquerque, NM, United States, [3]Maseno University, Kisumu, Kenya, [4]University of Embu, Embu, Kenya, [5]Masinde Muliro University of Science and Technology, Kakamega, Kenya, [6]Theoretical Biology and Biophysics Group, Theoretical Division, Los Alamos National Laboratory, Los Alamos, NM, USA, Los Alamos, NM, United States, [7]University of New Mexico, Department of Emergency Medicine, Albuquerque, NM, United States, [8]Department of Applied Computer and Biosciences, University of Applied Sciences Mittweida, Technikumplatz, Mittweida, Germany, [9]Biology Department/Institute of Genomics and Evolutionary Medicine (iGEM), Temple University, Philadelphia, PA, USA, Philadelphia, PA, United States, [10]Theoretical Biology and Biophysics Group, Theoretical Division, Los Alamos National Laboratory, Los Alamos, NM, USA., Los Alamos, NM, United States

8:15 a.m. 7203

PROTEOMICS ANALYSIS REVEALS ALTERED HOST PATHWAYS SPECIFIC TO SEVERE MALARIA IN BENINESE CHILDREN.

Jérémy Fraering[1], Virginie Salnot[2], Sem Ezinmegnon[1], Nadine Fievet[1], Jules Alao[3], Katell Peoc'h[4], Florence Migot-Nabias[1], Nicolas Argy[1], Emilie-Fleur Gautier[5], Gwladys Bertin[1], Claire Kamaliddin[6]
[1]IRD - UMR 261 - MERIT, Paris, France, [2]Proteom'IC platform, Paris, France, [3]Service de Pédiatrie Chumel Hospital, Cotonou, Benin, [4]Bichat Hospital - Biochemistry department, Paris, France, [5]Proteom'IC Platform, Paris, France, [6]Cumming School of Medicine - University of Calgary, Calgary, AB, Canada

8:30 a.m. 7204

ROLE OF *P. FALCIPARUM* HEMOZOIN-ASSOCIATED BIOMOLECULES IN THE PATHOGENESIS OF CEREBRAL MALARIA

Kelly A. Crotty, Ana Rodriguez
NYU School of Medicine, New York, NY, United States

8:45 a.m. 7205

EXPRESSION PROFILES OF DBLA DOMAINS OF VAR GENES FROM *PLASMODIUM FALCIPARUM* PARASITES CAUSING CLINICAL MALARIA OR PROMOTING ASYMPTOMATIC INFECTIONS

Sukai Ceesay[1], Martin Kampmann[1], Helle Smedegaard Hansson[2], Rasmus Weisel Jensen[2], Manuela Carrasquilla[1], Safiatou Doumbo[3], Usama Dabbas[1], Hamidou Cisse[3], Didier Doumtabe[3], Aissata Ongoiba[3], Kassoum Kayentao[3], Boubacar Traore[3], Peter D Crompton[4], Thomas Lavstsen[2], Silvia Portugal[1]
[1]Max Planck Institute for Infection Biology, Berlin, Germany, [2]Centre for Medical Parasitology, University of Copenhagen, Copenhagen, Denmark, [3]Mali International Center of Excellence in Research, University of Sciences, Techniques and Technologies of Bamako, Bamako, Mali, [4]Laboratory of Immunogenetics, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States

9 a.m. 7206

ELEVATED URIC ACID PREDICTS MORTALITY AND COGNITIVE IMPAIRMENT IN UGANDAN CHILDREN WITH SEVERE MALARIA

Caitlin A. Bond[1], Dibyadyuti Datta[1], Ruth Namazzi[2], Robert O. Opoka[2], Anthony Batte[2], Kavitha M. Udumula[1], Deepali Balasubramani[1], Ana Rodriguez[3], Tarek M. El-Achkar[1], Chandy C. John[1], Andrea L. Conroy[1]
[1]Indiana University School of Medicine, Indianapolis, IN, United States, [2]Makerere University College of Health Sciences, Kampala, Uganda, [3]New York University School of Medicine, New York, NY, United States

9:15 a.m. 7207

CONSERVED SUBGROUPS OF *PLASMODIUM FALCIPARUM* RIFIN ANTIGENS PREDOMINATE IN CEREBRAL MALARIA CASES FROM MALI AND MALAWI

Jonathan Lawton[1], Albert E. Zhou[1], Drissa Coulibaly[2], Emily M. Stucke[1], Rafal Sobota[1], Savy M. Sebastian[1], Bryan Cummings[1], Ankit Dwivedi[1], Antoine Dara[1], James B. Munro[1], Abdoulaye K. Koné[2], Karim Traoré[2], Bouréima Guindo[2], Bourama Tangara[2], Amadou Niangaly[2], Modibo Daou[2], Issa Diarra[2], Youssouf Tolo[2], Mody Sissoko[2], Matthew B. Laurens[1], Amed Ouattara[1], Bourema Kouriba[2], Ogobara K. Doumbo[2], Shannon Takala-Harrison[1], Christopher V. Plowe[1], Don P. Mathanga[3], Terrie E. Taylor[4], Joana C. Silva[1], Mahamadou A. Thera[2], Karl B. Seydel[4], Mark A. Travassos[1]
[1]University of Maryland School of Medicine, Baltimore, MD, United States, [2]University of Sciences, Techniques and Technologies, Bamako, Mali, [3]Kamuzu University of Health Sciences, Blantyre, Malawi, [4]Michigan State University, East Lansing, MI, United States

9:30 a.m. 7208

STOOL MICROBIOME IN UGANDAN CHILDREN IS ASSOCIATED WITH DIFFERENTIAL MALARIA OUTCOMES

Olivia J. Bednarski
IUSM, Indianapolis, IN, United States

Symposium 151

Overcoming the Challenges of PC-NTD Hotspots

Grand Hall K - Ballroom Level (East Tower)
Sunday, October 22, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

Mass drug administration (MDA) is the main approach for neglected tropical diseases (NTDs) control. In some locations, however, prevalence does not decline as expected, termed "hotspots". The initial question is whether this is due to programmatic issues, such as poor treatment coverage, or underlying epidemiological factors driving the force of infection. Treatment coverage (target population who receive MDA) is a common evaluation metric, but few examine individual compliance

(swallowing of drugs) over multiple rounds of MDA. Systematic non-compliers, who persistently refuse or do not ingest medication over multiple years of MDA, can serve as a continued source of infection. Individual anthelmintic compliance patterns were recorded over five rounds of community-wide MDA targeting soil-transmitted helminths in southern Ethiopia using unique biometric identifiers (fingerprint) to determine if compliance is random or systematic over time. Following at least ten years of effective schistosomiasis (SCH) MDA, impact assessments have been conducted across West Africa. An analysis was conducted to understand which factors were associated with persistent hotspots including baseline prevalence/intensity, MDA coverage (reported and validated), and attitudes toward SCH transmission and treatment. Bayesian geostatistical models were fitted to identify SCH hotspots at fine spatial scales. Elimination of lymphatic filariasis as a public health problem requires a minimum of five effective rounds of MDA, after which a pre-transmission assessment survey (pre-TAS) is conducted. Once a pre-TAS is passed (1% microfilaremia or <2% antigenemia), a TAS is then carried out to determine whether MDA can cease. TAS are conducted another two times with two years between each survey before an elimination is considered. If the pre-TAS threshold is not achieved, these areas are labelled as "hotspots". Here we present analysis of epidemiological and programmatic (MDA coverage) factors associated with failed pre-TAS across five West African countries to identify determinants associated with hotspots compared with districts that met the stop-MDA criterion. In trachoma elimination programs, there is a need to identify areas at high risk of persistent and/or recrudescent active trachoma within and between endemic Evaluation Units (EUs) to ensure countries reach and maintain elimination targets. Geospatial techniques can identify areas of an EU that may still have high trachoma prevalence (hotspot) even if, on average, the EU is below the elimination threshold of <5% trachomatous inflammation—follicular in children aged 1–9 years (TF1–9). This presentation will illustrate geospatial analysis tools to identify persistent trachoma hotspots in Tanzania and Uganda.

CHAIR

Anna E. Phillips
FHI360, Washington, DC, United States

Upendo J. Mwingira
RTI, Washington, DC, United States

8 a.m.
INTRODUCTION

8:10 a.m.
PATTERNS OF INDIVIDUAL COMPLIANCE TO ANTHELMINTIC TREATMENT FOR SOIL- TRANSMITTED HELMINTHS IN SOUTHERN ETHIOPIA OVER MANY ROUNDS OF MASS DRUG ADMINISTRATION

Rosie Maddren
Imperial College, London, United Kingdom

8:35 a.m.
SCHISTOSOMIASIS HOTSPOTS: DEFINING AREAS OF HIGH-RISK THROUGH MICRO-MAPPING IN WEST AFRICA

Anna Elizabeth Phillips
FHI360, Washington, DC, United States

9 a.m.
OVERCOMING HOTSPOTS FOR LYMPHATIC FILARIASIS IN GHANA AND POTENTIAL STRATEGIES FOR STRENGTHENING SURVEILLANCE

Ernest K O. Mensah
FHI 360, Accra, Ghana

9:25 a.m.
TRACHOMA IMPACT & SURVEILLANCE– LESSONS LEARNED FROM SURVEY FAILURES

Clara Burgert
RTI, Washington, DC, United States

Symposium 152

Regulatory Principles for Vaccine Development Against Global Infectious Diseases: U.S. FDA Perspective

Grand Hall L - Ballroom Level (East Tower)
Sunday, October 22, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

The development of safe and effective vaccines for global infectious diseases is of critical public health importance. The United States Food and Drug Administration (U.S. FDA) can license vaccines to protect against infectious diseases or conditions that are not endemic in the U.S., and clinical data obtained outside the U.S. may potentially be used to support an investigational new drug application or application for marketing approval in the U.S. Additionally, the U.S. FDA has incentive programs to encourage development of qualifying products for prevention and treatment of certain tropical diseases. Biomarkers can potentially support vaccine development for these tropical diseases by facilitating the evaluation of vaccines in clinical trials. Irrespective of whether a disease is endemic in the U.S. or not, the regulatory pathways to U.S. licensure for vaccine development to protect against infectious diseases are the same. This Symposium will help participants understand how to navigate regulatory pathways for the development of vaccines. Specifically, speakers will reference key U.S. FDA guidance to help participants learn about the following: 1. Regulatory review processes for vaccines intended for global infectious diseases; 2. Various expedited program designations available to encourage development of qualifying products; 3. The biomarker detection assay qualification process and differences from assay validation; and 4. Regulatory approach to enhancing diversity in clinical trial populations. Participants will have the opportunity to pose questions directly to individuals involved in day-to-day regulatory work in global infectious diseases at the U.S. FDA.

CHAIR

Sheral S. Patel
U.S. Food & Drug Administration, Silver Spring, MD, United States

Heather J. Painter
U.S. Food & Drug Administration, Silver Spring, MD, United States

8 a.m.
INTRODUCTION

8:10 a.m.
REGULATORY REVIEW PROCESS FOR VACCINES INTENDED FOR GLOBAL INFECTIOUS DISEASES
Sudhakar Agnihothram
U.S. Food & Drug Administration, Silver Spring, MD, United States

8:30 a.m.
VARIOUS EXPEDITED PROGRAM DESIGNATIONS AVAILABLE TO ENCOURAGE DEVELOPMENT OF QUALIFYING PRODUCTS
Kirk Prutzman
U.S. Food & Drug Administration, Silver Spring, MD, United States

8:50 a.m.
REGULATORY APPROACHES TO ENHANCING DIVERSITY IN CLINICAL TRIAL POPULATIONS
Ihid Carneiro Leao
U.S. Food & Drug Administration, Silver Spring, MD, United States

9:10 a.m.
BIOMARKER QUALIFICATION PROCESS AND DIFFERENCES FROM ASSAY VALIDATION
Heather J. Painter
U.S. Food & Drug Administration, Silver Spring, MD, United States

Scientific Session 153

Mosquitoes- Molecular Biology, Population Genetics and Genomics

Plaza Ballroom - Lobby Level (East Tower)
Sunday, October 22, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR
Renee Ali
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States
Maria V. Sharakhova
Virginia Tech, Blacksburg, VA, United States

8 a.m. **7209**

PROJECT "HEMOGLOW": THE DEVELOPMENT OF GENETIC TOOLS FOR THE STUDY OF MOSQUITO HEMOCYTES
George-Rafael Samantsidis, **Ryan C. Smith**
Iowa State University, Ames, IA, United States

8:15 a.m. **7210**

SCALED PRODUCTION OF A FEMALE-SPECIFIC LARVICIDAL YEAST DIET TO FACILITATE MASS-REARING OF MALE MOSQUITOES
Teresia Njoroge[1], Corey Brizzee[2], Jack Crawford[2], Keshava Mysore[1], Molly Duman-Scheel[1]
[1]Indiana University School of Medicine, South Bend, IN, United States, [2]DeMeetra AgBio, Lexington, KY, United States

8:30 a.m. **7211**

CHARACTERIZATION OF THE MOSQUITO SPOROZOITE-ASSOCIATED SALIVA PROTEINS, TWO POTENTIAL MALARIA PARASITE TRANSMISSION-BLOCKING TARGETS
Yuemei Dong[1], Emilia C. Cuccurullo[1], Caire Barreto[1], Yu-Min Chuang[2], Erol Fikrig[2], George Dimopolous[1]
[1]Johns Hopkins School of Public Health, Baltimore, MD, United States, [2]Yale University School of Medicine, New Haven, CT, United States

8:45 a.m. **7212**

CHROMOSOMAL INVERSIONS IN *AEDES AEGYPTI* ARE ASSOCIATED WITH GEOGRAPHICAL ORIGIN, BEHAVIOR, AND RESISTANCE TO PATHOGENS
Jiangtao Liang[1], Ilya I. Brusentsov[1], Varvara Lukyanchikova[1], Noah Rose[2], Dmitry A. Karagodin[3], Zhijian Tu[1], Carolyn McBride[4], **Maria V. Sharakhova**[1]
[1]Virginia Tech, Blacksburg, VA, United States, [2]University of California, San Diego, CA, United States, [3]Institute of Cytology and Genetics, Novosibirsk, Russian Federation, [4]Princeton University, Princeton, NJ, United States

9 a.m. **7213**

TARGETING *PLASMODIUM* IN THE MOSQUITO VECTOR: VULNERABILITIES AND OPPORTUNITIES FOR MALARIA CONTROL
George Dimopoulos
Johns Hopkins University, Baltimore, MD, United States

9:15 a.m. **7214**

FUNCTIONAL GENOMIC ANALYSIS OF TRANSCRIPTIONAL ENHANCERS IN THE MALARIA VECTOR *ANOPHELES* COLUZZII
Natalia M. Zmarlak[1], Karin Eiglmeier[1], Inge Holm[1], Kimani Njoya[2], Cameron Anderson[2], Michelle M. Riehle[2], Kenneth D. Vernick[1]
[1]Institut Pasteur, Paris, France, [2]Medical College of Wisconsin, Milwaukee, WI, United States

9:30 a.m. **7215**

PREMONITION BARCODE: USING THE MITOGENOME FOR MOSQUITO SPECIES IDENTIFICATION AND SURVEILLANCE
Renee Ali[1], Christian H. Gauthier[2], Kevin Pritts[3], Bret Nash[3], Jeremy Verde[3], Hengameh Rezaei[3], Miguel A. Saldaña[3], James Pipas[2], Ethan Jackson[4], Mike Reddy[4], Douglas E. Norris[1]
[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]University of Pittsburg, Pittsburg, PA, United States, [3]Harris County Public Health, Houston, TX, United States, [4]Microsoft, Redmon, WA, United States

Scientific Session 154

Malaria - Genomics: Sharpening Tools to Guide Interventions and Uncover Biology

Crystal Ballroom A - Lobby Level (West Tower)
Sunday, October 22, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR
Shannon Takala Harrison
University of Maryland School of Medicine, Baltimore, MD, United States
William Hamilton
Wellcome Sanger Institute, Cambridge, United Kingdom

8 a.m.

7216

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

Kieran Tebben[1], Salif Yirampo[2], Drissa Coulibaly[2], Abdoulaye K. Koné[2], Matthew B. Laurens[1], Emily M. Stucke[1], Ahmadou Dembélé[3], Youssouf Tolo[2], Karim Traoré[2], Amadou Niangaly[2], Andrea A. Berry[1], Bourema Kouriba[2], Christopher V. Plowe[1], Ogobara K. Doumbo[2], Kirsten E. Lyke[1], Shannon Takala-Harrison[1], Mahamadou A. Thera[2], Mark A. Travassos[1], David Serre[1]
[1]University of Maryland, Baltimore, Baltimore, MD, United States, [2]Malaria Research and Training Center (MRTC), Université des Sciences, des Techniques et des Technologies de Bamako, Bamako, Mali, [3]Malaria Research and Training Center (MRTC), Université des Sciences, des Techniques et des Technologies de Bamako, Bamako, Mali, Bamako, Mali

8:15 a.m.

7217

A FOURTH LOCUS IN THE *PLASMODIUM FALCIPARUM* GENOME ASSOCIATED WITH SICKLE HEMOGLOBIN

William L. Hamilton[1], Gavin Band[2], Eleanor Drury[1], Christen Smith[1], Sónia Gonçalves[1], Kirk Rockett[2], Dominic P. Kwiatkowski[1], Lucas N. Amenga-Etego[3]
[1]Wellcome Sanger Institute, Cambridge, United Kingdom, [2]Wellcome Centre for Human Genetics, Oxford, United Kingdom, [3]West African Centre for Cell Biology of Infectious Pathogens (WACCBIP), Accra, Ghana

8:30 a.m.

7218

MALARIA PARASITE RELATEDNESS IS UNDERESTIMATED WHEN USING SPARSE MARKER DATA FROM INBRED POPULATIONS

Somya Mehra[1], Daniel E. Neafsey[2], Aimee R. Taylor[3]
[1]University of Melbourne, Parkville, Australia, [2]Harvard T.H. Chan School of Public Health, Boston, MA, United States, [3]Institut Pasteur, Paris, France

8:45 a.m.

7219

MODELING THE EFFECTIVENESS OF GENOMIC SURVEILLANCE AT DETECTING GENETICALLY DISTINCT MALARIA PARASITES POPULATIONS

Alex Ferris, Jessica Ribado, Albert Lee, Joshua Proctor
Institute for Disease Modeling, Seattle, WA, United States

9 a.m.

7220

MEASURING CHANGES IN *PLASMODIUM FALCIPARUM* POPULATION SIZE AND STRUCTURE IN RESPONSE TO SEQUENTIAL MALARIA CONTROL INTERVENTIONS

Kathryn E. Tiedje[1], Qi Zhan[2], Shazia Ruybal-Pésantez[1], Gerry Tonkin-Hill[1], Qixin He[2], Mun Hua Tan[1], Dionne C. Argyropoulos[1], Samantha L. Deed[1], Anita Ghansah[3], Abraham R. Oduro[4], Kwadwo A. Koram[3], Mercedes Pascual[2], **Karen P. Day**[1]
[1]The University of Melbourne, Melbourne, Australia, [2]The University of Chicago, Chicago, IL, United States, [3]Noguchi Memorial Institute for Medical Research, Legon, Ghana, [4]Navrongo Health Research Centre, Ghana Health Service, Navrongo, Ghana

9:15 a.m.

7221

UNRAVELLING *PLASMODIUM FALCIPARUM* GENETIC DIVERSITY USING TARGETED AMPLICON DEEP SEQUENCING TO GUIDE ELIMINATION INTERVENTIONS IN SOUTH AFRICA

Hazel Beverly Gwarinda[1], Andres Aranda-Diaz[2], Bryan Greenhouse[2], Jaishree Raman[1]
[1]National Institute for Communicable Diseases, Johannesburg, South Africa, [2]University of California San Francisco, San Francisco, CA, United States

9:30 a.m.

Lightning Talks

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

5438

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

Ying-An Angie Chen[1], Francois Rerolle[2], Eric Vickers[3], Emily Dantzer[2], Bouasy Hongvanthong[4], Andrew Lover[5], Hsiao-Han Chang[1], Adam Bennett[6], Bryan Greenhouse[3]
[1]Institute of Bioinformatics and Structural Biology, College of Life Sciences and Medicine, National Tsing Hua University, Hsinchu, Taiwan, [2]Malaria Elimination Initiative, The Global Health Group, University of California, San Francisco, San Francisco, CA, United States, [3]EPPIcenter Research Program, Division of HIV, Infectious Diseases and Global Medicine, Department of Medicine, University of California, San Francisco, San Francisco, CA, United States, [4]Center for Malariology, Parasitology and Entomology, Ministry of Health, Vientiane, Lao People's Democratic Republic, [5]Department of Biostatistics and Epidemiology, School of Public Health and Health Sciences, University of Massachusetts Amherst, Amherst, MA, United States, [6]PATH, Seatle, WA, United States

5448

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

Erick Figueroa-Ildefonso[1], Hugo Valdivia[2], Eline Kattenberg[3], Christopher Delgado-Ratto[4], Anna Rosanas-Urgell[3], Dionicia Gamboa[5]
[1]Laboratorio de Malaria: Parasitos y Vectores, Facultad de Ciencias y Filosofia, Universidad Peruana Cayetano Heredia, Lima, Peru, [2]U.S. Naval Medical Research Unit No. 6 (NAMRU-6), Lima, Peru, [3]Department of Biomedical Sciences, Institute of Tropical Medicine Antwerp, Antwerp, Belgium, [4]Global Health Institute, University of Antwerp, Antwerp, Belgium, [5]Laboratorio de Malaria: Parasitos y Vectores, Facultad de Ciencias y Filosofia, Universidad Peruana Cayetano Heredia and Instituto de Medicina Tropical "Alexander von Humboldt, Universidad Peruana Cayetano Heredia, Lima, Peru, Lima, Peru

6864

RECURRENT DE NOVO MUTATION CONTRIBUTES TO DRUG RESISTANCE EVOLUTION IN *PLASMODIUM FALCIPARUM*

Angela M. Early[1], Horace Cox[2], Reza Niles-Robin[2], Stéphane Pelleau[3], Célia Florimond[3], Margaret A. Laws[4], Benoît de Thoisy[3], Lise Musset[3], Daniel E. Neafsey[4]
[1]Broad Institute of MIT and Harvard, Cambridge, MA, United States, [2]Ministry of Health, Georgetown, Guyana, [3]Institut Pasteur de la Guyane, Cayenne, French Guiana, [4]Harvard T.H. Chan School of Public Health, Boston, MA, United States

6155

BENCHMARKING IDENTITY-BY-DESCENT CALLERS FOR *PLASMODIUM FALCIPARUM*

Bing Guo[1], Michele Spring[2], Mariusz Wojnarski[2], Brian A. Vesely[2], Joana Carneiro Da Silva[1], Norman C. Waters[2], Shannon Takala-Harrison[3], Timothy D. O'Connor[1]
[1]Institute for Genome Sciences, University of Maryland School of Medicine, Baltimore, MD, United States, [2]Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, [3]Center for Vaccine Development and Global Health, University of Maryland School of Medicine, Baltimore, MD, United States

6879

BUZZWORTHY: NOVEL HIVE SEQUENCING TECHNOLOGY MAKES SINGLE-CELL SEQUENCING POSSIBLE FOR MALARIA FIELD ISOLATES

Erin Sauve, Pieter Guetens, Pieter Monsieurs, Johanna Helena Kattenberg, Anna Rosanas-Urgell
Institute of Tropical Medicine Antwerp, Antwerp, Belgium

Symposium 155

Countering the Wicked Problem of Bad Quality Medicines

Crystal Ballroom B - Lobby Level (West Tower)
Sunday, October 22, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

This symposium brings together researchers who study the recalcitrant problem of bad quality medicines. The quality of medicines and medical products is a key determinant of clinical care outcomes, yet in 2017, the World Health Organization estimated [WHO 2017] that about one in ten pharmaceuticals sold in low- and middle-income countries failed to meet quality standards. These problems impact every therapeutic category of pharmaceuticals and extend to medical products such as vaccines and rapid diagnostic tests. Regulatory agencies, medical practitioners, donors, and principled manufacturers share a common interest in detecting bad quality products and removing them from markets in LMICs. Six years and a global pandemic later, how many bad quality products are still present in LMIC markets, what is their impact on health, and how can they be discovered and removed? Because the problem of bad quality medicines is concentrated in LMICs and global enforcement activities are relatively weak, regulatory agencies in LMICs are the front line organizations responsible for exposing and controlling bad quality medical products, and LMIC researchers play vital roles in testing medicines and medical products. A series of talks will introduce methods for modeling the impacts of substandard and falsified medicines, recent data about the prevalence of poor quality antimicrobials and chemotherapy products, and new tools for facilitating medicine quality surveys and testing the quality of vaccines. Field screening technologies are an important part of the post-market surveillance strategy in many LMICs. Regulatory agency respondents in 9 out of 10 countries surveyed by Roth et al. [Roth 2018] agreed with the cost-saving arguments for field screening of pharmaceuticals. However, most of the respondents misunderstood the capabilities of current chemical and spectroscopic screening technologies. These technologies are developing rapidly and have great potential as weapons against SFPs, but there are still many evidence gaps and it is difficult for regulators to compare the effectiveness, usability, and costs of different technologies. The Chairs will sponsor a booth at the Exhibit Hall for participants to try out a variety of field screening instruments, such as portable spectrophotometers, that are used to detect low-quality pharmaceuticals in field settings. This booth is not sponsored or supported by instrument manufacturers.

CHAIR

Marya Lieberman
University of Notre Dame, Notre Dame, IN, United States

Paul Newton
Medicine Quality Research Group, Centre for Tropical Medicine & Global Health, University of Oxford, UK, Oxford, United Kingdom

8 a.m.
INTRODUCTION

8:10 a.m.
MODELING THE ECONOMIC AND CLINICAL IMPACT OF SUBSTANDARD AND FALSIFIED DRUGS
Sachiko Ozawa
University of North Carolina Eshelman School of Pharmacy, Chapel Hill, NC, United States

8:30 a.m.
AN APP (EPIONE) FOR FACILITATING MEDICINE QUALITY SURVEYS
Céline Caillet
University of Oxford-MORU Tropical Health Network/Infectious Diseases Data Observatory, Vientiane, Lao People's Democratic Republic

8:50 a.m.
ABACUS2-MQ SURVEY OF THE QUALITY OF ANTIBIOTICS IN FOUR COUNTRIES
Noudy Sengxeu
University of Limoges, Limoges, France

9:10 a.m.
QUALITY OF CHEMOTHERAPY DRUGS IN ETHIOPIA
Ayenew Ashenef
Addis Ababa University–Department of Pharmaceutical Chemistry and Pharmacognosy, Addis Ababa, Ethiopia

9:30 a.m.
EVALUATION OF DEVICES FOR DETECTING SUBSTANDARD AND FALSIFIED VACCINES IN SUPPLY CHAINS
Paul Newton
Mahosot Hospital, Vientiane, Lao People's Democratic Republic

Symposium 156

Challenges and Solutions to Meet Sporadic Outbreaks of Deadly Pathogens in Resource - Limited Settings

Regency Ballroom A - Ballroom Level (West Tower)
Sunday, October 22, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

This session does not carry CME credit.

Deadly pathogens, such as Ebola viruses, leading to devastating outbreaks with high mortality, have a serious impact on the affected communities and further weaken health care systems in resource-limited settings. In case of Ebola virus disease (EVD), the next outbreak location and timing remains uncertain. It is therefore crucial to prepare the regulatory environment of at risk countries and ensure epidemic preparedness. Within EBOVAC3 the regulatory preparedness of Guinea, Sierra Leone and the Democratic Republic of the Congo (DRC) were assessed. As well as the community's understanding, expectations, acceptance of various vaccine strategies and community impressions and preparedness for the next outbreak. In the context of epidemic preparedness, the importance of prophylactic vaccination in at risk populations is highly crucial in periods when there is no outbreak. One vaccine trial within the EBOVAC3 consortium therefore combined epidemic preparedness with the assessment of vaccine durability through the vaccination of healthcare providers and

frontliners (an at risk population) in an Ebola endemic region within the DRC. This was achieved by administering booster doses one or two years after initial vaccination and assessing the anamnestic response as a surrogate response to an actual virus infection. While vaccinating at risk populations is crucial, identifying the vaccine response in the most vulnerable populations (e.g. infants) is equally important. Therefore, a second trial in Guinea and In Sierra Leone assessed the safety and immunogenicity in this population. Finally, in order to be prepared for the next outbreak, it is important to assess the durability of the administered vaccines. Therefore, the third trial in Sierra Leone within EBOVAC3 looked into the long-term durability of the vaccine regimen in children, adolescents and adults. The vaccine responses collected during past and current EBOVAC projects, have been combined into within-host models to further assess their durability and potential. How this information was combined into these models and how it can be used to help guide vaccine development will be explained. For EVD, a prophylactic vaccine (regimen) could play a crucial role in epidemic preparedness. Therefore, the final speaker will present the development path of the Janssen vaccine up to licensure and WHO prequalification, just before the symposium will be broadened again through an expert panel discussion that will address questions on challenges, solutions and lessons learned and how to meet sporadic outbreaks of deadly pathogens in resource-limited settings.

CHAIR

Jean-Pierre Van geertruyden
University of Antwerp, Antwerp, Belgium

8 a.m.
INTRODUCTION

8:05 a.m.
REGULATORY PREPAREDNESS FOR THE NEXT OUTBREAK IN LMICS AND THE COMMUNITY'S UNDERSTANDING, EXPECTATIONS AND ACCEPTANCE
Shelley Lees
London School of Hygiene & Tropical Medicine, London, United Kingdom

8:20 a.m.
EPIDEMIC PREPAREDNESS THROUGH THE ASSESSMENT OF VACCINE DURABILITY IN AN ENDEMIC REGION AND AN AT RISK POPULATION (E.G. HEALTH CARE PROVIDERS AND FRONTLINERS) IN THE DRC
Hypolite Mavoko-Muhindo
University of Kinshasa, Kinshasa, Democratic Republic of the Congo

8:35 a.m.
VACCINE RESPONSE IN THE MOST VULNERABLE POPULATIONS (E.G. INFANTS) IN SIERRA LEONE AND GUINEA AND ITS DURABILITY IN CHILDREN, ADOLESCENTS AND ADULTS IN SIERRA LEONE
Bailah M.A. Leigh
College of Medicine & Allied Health Sciences, Freetown, Sierra Leone

8:50 a.m.
THE USE OF MATHEMATICAL MODELLING FOR VACCINE DEVELOPMENT: THE EXAMPLE OF EBOLA
Edouard Lhomme
ISPED - University of Bordeaux, Bordeaux, France

9:05 a.m.
DEVELOPMENT PATH OF THE JANSSEN VACCINE UP TO LICENSURE AND WHO PREQUALIFICATION
Cynthia B. Robinson
Janssen Vaccines & Prevention, B. V., Leiden, Netherlands

9:20 a.m.
PANELIST
Gerald Voss
CEPI, Oslo, Norway

9:35 a.m.
MODERATOR, PANEL DISCUSSION
Jean-Pierre Van geertruyden
University of Antwerp, Antwerp, Belgium

Symposium 157

Hot Topics in Clinical Mycobacteriology: New Strategies for Old Foes

Regency Ballroom B - Ballroom Level (West Tower)
Sunday, October 22, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

Mycobacterial infections are ubiquitous globally but are a challenging group of infections to diagnose and treat. In addition to the most famous Mycobacterium tuberculosis (MTB) other mycobacterial infections such as M. ulcerans (Buruli ulcer), M. leprae (lepromatosis), and the non-tuberculous mycobacteria (NTM) infections continue to cause a great deal of morbidity worldwide, particularly in tropical and subtropical regions. Significant challenges remain in the diagnosis of these infections in part due to their unique biology. Further, there remain gaps in knowledge about basic things like how M. leprae and M. ulcerans are transmitted to humans. As NTDs, leprosy and Buruli ulcer also suffer from lack of research funding and resources for control programs. Even for MTB, research in pediatric populations lags far behind that in adult populations despite high mortality and morbidity among children and adolescents with TB. However, despite these challenges, there have been exciting developments in the area of mycobacterial research, some that have already impacted the care of these infectious diseases, like new treatment regimens for NTM and advances in diagnosing MTB in non-respiratory specimens. Other advances, such as new tools for leprosy diagnosis, are on the horizon and hold promise to make significant impacts on both individuals and public health. If you are a clinician that treats infectious diseases, you won't want to miss this session!

CHAIR

Pranay Sinha
Boston University, Boston, MA, United States

Jessica K. Fairley
Emory University School of Medicine, Atlanta, GA, United States

8 a.m.
INTRODUCTION
Pranay Sinha
Boston Medical Center, Boston, MA, United States

8:15 a.m.
ADVANCES IN NON-RESPIRATORY DIAGNOSTICS FOR TUBERCULOSIS
Tania Thomas
University of Virginia, Charlottesville, VA, United States

8:35 a.m.
UPDATES IN THE DIAGNOSIS AND TREATMENT OF BURULI ULCER
Richard Odame Phillips
Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

8:55 a.m.
FRONTIERS IN LEPROSY RESEARCH: THE QUEST FOR NEW DIAGNOSTIC TOOLS FOR LATENT AND CLINICAL INFECTION
Jessica K. Fairley
Emory University School of Medicine, Atlanta, GA, United States

9:15 a.m.
IMPROVING TREATMENT FOR NON-TUBERCULOUS MYCOBACTERIAL LUNG DISEASE
Scott K. Heysell
University of Virginia, Charlottesvilla, VA, United States

Scientific Session 158

Mosquitoes- Epidemiology and Vector Control I

Regency Ballroom C - Ballroom Level (West Tower)
Sunday, October 22, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR
Katherine L. Anders
Monash University, Melbourne, Australia

Alexander Dolnick Meyer
University of Notre Dame, Notre Dame, IN, United States

8 a.m. 7222

RISK AND SIZE OF AEDES-BORNE DISEASE OUTBREAKS ARE POORLY PREDICTED BY CLIMATE-BASED SUITABILITY INDICES
Alexander Dolnick Meyer[1], Sandra Mendoza Guerrero[2], Natalie E. Dean[3], Kathryn B. Anderson[4], Steven T. Stoddard[2], T. Alex Perkins[1]
[1]University of Notre Dame, Notre Dame, IN, United States, [2]Emergent BioSolutions, Gaithersburg, MD, United States, [3]Emory University, Atlanta, GA, United States, [4]SUNY Upstate Medical University, Syracuse, NY, United States

8:15 a.m. 7223

REDUCED DENGUE INCIDENCE FOLLOWING LARGE-SCALE RELEASES AND ESTABLISHMENT OF WMEL WOLBACHIA IN *AEDES AEGYPTI* MOSQUITOES IN THREE COLOMBIAN CITIES
Ivan D. Velez[1], Maria Patricia Arbelaez[1], Simon C. Kutcher[2], Alexander Uribe[1], Luis Martinez[1], Jai A. Denton[2], Cameron P. Simmons[2], **Katherine L. Anders**[2], Peter A. Ryan[2], Scott L. O'Neill[2]
[1]World Mosquito Program, Universidad de Antioquia, Medellin, Colombia, [2]World Mosquito Program, Monash University, Melbourne, Australia

8:30 a.m. 7224

THE IMPACT OF INTEGRATED VECTOR MANAGEMENT ON THE INCIDENCE OF DENGUE IN URBAN MALAYSIA: THE IDEM CLUSTER-RANDOMIZED CONTROLLED TRIAL
Nurulhusna Ab Hamid[1], **Neal Alexander**[2], Tim Mölmann[3], Carole s Langlois-Jacque[4], Farah Diana Ariffin[1], Mad-Hélénie Elsensohn[4], Frederic Schmitt[5], Jason H. Richardson[6], Frederic Baur[7], Maxime Leduc[5], Norazman Bin Mohd Rosli[8], Nazni Wasi Ahmed[1], Muriel Rabilloud[4], Mitra Saadatian-Elahi[4]
[1]Medical Entomology Unit, Institute for Medical Research, WHO Collaborating Centre, Institute for Medical Research, Ministry of Health Malaysia, Kuala Lumpur, Malaysia, [2]MRC Tropical Epidemiology Group, Department of Infectious Disease Epidemiology, London School of Hygiene & Tropical Medicine,, United Kingdom, United Kingdom, [3]In2Care, Wageningen, Netherlands, [4]Hospices Civils de Lyon, Lyon, France, [5]Environmental Science France - Envu, Lyon, France, [6]Innovative Vector Control Consortium (IVCC), Liverpool, United Kingdom, [7]Bayer, Lyon, France, [8]Vector Borne Disease Sector, Disease Control Division, Ministry of Health Malaysia, Kuala Lumpur, Malaysia

8:45 a.m. 7225

ASSESSING AUTO-DISSEMINATION STATIONS AS A CONTROL TOOL FOR *AEDES AEGYPTI* IN THE RIO GRANDE VALLEY, TEXAS, USA
Nicole Scavo[1], Jose Juarez[1], Nadia Fernandez-Santos[1], Ester Carbajal[1], Luis Chaves[2], Berlin Londono-Renteria[3], Alyssa Branca[4], John Borden[5], Mike Banfield[4], Gabriel Hamer[1]
[1]Texas A&M University, College Station, TX, United States, [2]Indiana University Bloomington, Bloomington, IN, United States, [3]Tulane University, New Orleans, LA, United States, [4]Banfield Bio, Woodinville, WA, United States, [5]JHB Consulting, Burnaby, BC, Canada

9 a.m. 7226

POOLING THE POOLS: REDUCING COSTS OF MOLECULAR ARBOVIRAL SURVEILLANCE WITHOUT LOSS OF SENSITIVITY IN DENGUE ENDEMIC AREAS
Joanelis Medina, Grayson Brown, Marla García, Julianne Miranda
Puerto Rico Vector Control Unit, San Juan, Puerto Rico

9:15 a.m. 7227

USE OF MACHINE LEARNING TO IDENTIFY NOVEL MOSQUITO AND TICK REPELLENTS
Marnix Vlot[1], Jennifer N. Wei[2], Martijn Vos[1], Rob Henderson[1], Benjamin Sanchez-Lengeling[2], Luuk Berning[1], Jessica Konijnenburg[1], Brian K. Lee[2], Wesley W. Qian[2], Richard C. Gerkin[2], Alexander B. Wiltschko[2], Koen Dechering[1]
[1]TropIQ Health Sciences, NIJMEGEN, Netherlands, [2]Google Research, Brain Team, Cambridge, MA, United States

9:30 a.m. 7228

CHROMOBACTERIUM SPECIES PANAMA (CSP_P) PELLET FORMULATIONS: A NOVEL BIO-LARVICIDE FOR MOSQUITO VECTOR CONTROL
Vandana Vandana, George Dimopoulos
John Hopkins University, Baltimore, MD, United States

Symposium 159

Emerging Data on How Best to Use Primaquine and Tafenoquine for the Radical Cure of *P. vivax*

Regency Ballroom D - Ballroom Level (West Tower)
Sunday, October 22, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

Plasmodium vivax causes more than 4 million cases of malaria annually and represents an increasing proportion of malaria in many countries co-endemic with *P. falciparum*. Unlike *P. falciparum*,

radical cure of *P. vivax,* requires treatment of both the blood stage, which causes acute symptoms, and the dormant liver stage (hypnozoites), which reactivate and cause relapses weeks to months later. Relapsing vivax malaria results in a cumulative risk of anemia and is associated with direct and indirect morbidity and the potential for further transmission. For the last 60-70 years, *P. vivax* radical cure has generally included chloroquine (for the blood stage) and primaquine (for the liver stage). Primaquine has historically been given over 14 days, however, poor adherence and reduced effectiveness with this regimen have led to shorter courses being considered. Tafenoquine, is a primaquine analogue, which can be given as a single dose. Primaquine and tafenoquine are both 8-aminoquinolines and can cause severe hemolysis in patients with glucose-6-phosphate dehydrogenase (G6PD) deficiency. However, malaria also causes hemolysis and it is difficult to disentangle the hemolytic risk attributable to 8-aminoquinolines compared with malaria alone. Furthermore, the potential longer term hematological benefits of radical cure in preventing relapses remains unknown. Single - dose tafenoquine was registered by the US FDA and the Australian TGA in 2018 and has subsequently been registered in several endemic countries with further registrations pending. As this new tool emerges, it is fundamental to understand how best to roll it out in different health system contexts. This symposium will quantify the hematological risk-benefit trade-off of 8-aminoquinoline use, examine the use of methemoglobin to predict 8-aminoquinoline treatment efficacy and subsequent risk of relapse and release results of *in vitro* and *in vivo* work with primaquine and tafenoquine to better understand the results of a clinical trial where the efficacy of both primaquine and tafenoquine given together with dihydroartemisinin-piperaquine was sub-optimal. The final presentation of this symposium will be focused on the results of a real-world study carried out in Brazil (the Tafenoquine Roll-out STudy: TRuST) to assess the operational feasibility of providing appropriate *P. vivax* radical cure with either standard primaquine dosage or single dose tafenoquine after G6PD testing with a point-of-care quantitative G6PD test. The presentation will show the feasibility of implementing those new tools in different levels of health facilities.

CHAIR

Robert J. Commons
Menzies School of Health Research, Darwin, Australia

Stephan Duparc
Medicines for Malaria Venture, Geneva, Switzerland

8 a.m.
INTRODUCTION

8:10 a.m.
TRADE-OFF BETWEEN SHORT TERM HEMOLYTIC RISK AND LONG-TERM BENEFIT OF 8-AMINOQUINOLINE TREATMENT
Megha Rajasekhar
The University of Melbourne, Carlton, Australia

8:25 a.m.
IS THERE A WAY TO INDIVIDUALIZE *P. VIVAX* RADICAL CURE REGIMENS? METHEMOGLOBIN AS A MARKER OF ANTIRELAPSE EFFICACY
Ihsan Fadilah
Oxford University Clinical Research Unit Indonesia, Jakarta, Indonesia

8:40 a.m.
HOW *IN VITRO* AND *IN VIVO* VIVAX MALARIA MODELS CAN HELP US UNDERSTAND THE OUTCOME OF PAST CLINICAL STUDIES WITH TAFENOQUINE AND DESIGN THE NEXT SET OF STUDIES
Brice Campo
Medicines for Malaria Venture, Geneva, Switzerland

8:55 a.m.
THE TAFENOQUINE ROLL-OUT STUDY (TRUST): REAL-WORLD EVIDENCE ON FEASIBILITY OF PROVIDING APPROPRIATE *P. VIVAX* RADICAL CURE WITH TAFENOQUINE OR PRIMAQUINE AFTER G6PD TESTING IN THE BRAZILIAN AMAZON – FINAL RESULTS FROM A STUDY OF OVER 6000 PATIENTS
Marcus VG Lacerda
Fundação de Medicina Tropical Dr. Heitor Vieira Dourado, Manaus, Brazil

9:10 a.m.
MODERATOR, PANEL DISCUSSION
Robert J Commons
Menzies School of Health Research, Darwin, Australia

Coffee Break

Grand Ballroom Foyer - Ballroom Level (East Tower)
Sunday, October 22, 9:45 a.m. - 10:15 a.m. U.S. Central Time Zone

Plenary Session 160

LIVE STREAMING

Plenary Session V: Waging Peace, Fighting Disease, and Building Hope: A Tribute to President and Mrs. Carter

Grand Ballroom CDEF - Ballroom Level (East)
Sunday, October 22, 10:15 a.m. - 11:15 a.m. United States Central Time Zone

This session does not carry CME credit.

This session will be a tribute to President and Mrs. Carter and their work and contributions to Global Health and Development. Through this session you will learn more about the impact of the dedication, advocacy, and diplomacy that the Carters have undertaken as they have waged peace, fought disease, and built hope. In addition, you will learn more about both as people, from friends, family, and colleagues. We hope you will leave inspired and ready for action to support the health and well-being of all people around the world.

The session will open with comments from Kashef Ijaz of The Carter Center. This will be followed by a panel discussion on the life and works of President and Mrs. Carter facilitated by Julie Jacobson with Don Hopkins, Sarah Carter, Frank Richards, and two video tributes from Bill Foege and Tedros Ghebreyesus.

CHAIR

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

Kashef Ijaz
The Carter Center, Atlanta, GA, United States

10:15 a.m.
OPENING REMARKS

Kashef Ijaz
The Carter Center, Atlanta, GA, United States

10:25 a.m.
PANELISTS

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

Don Hopkins
The Carter Center, Atlanta, GA, United States

Sarah Carter
Science Policy Consulting LLC, Arlington, VA, United States

Frank Richards
The Carter Center, Atlanta, GA, United States

11:05 a.m.
VIDEO TRIBUTE

Tedros Adhanom Ghebreyesus
World Health Organization, Geneva, Switzerland

11:10 a.m.
VIDEO TRIBUTE

Bill Foege
Emory University, Atlanta, GA, United States

Break

Sunday, October 22, 11:15 a.m. - 11:30 a.m. U.S. Central Time Zone

Scientific Session 161

Global Health: Malaria and Neglected Tropical Diseases

Grand Ballroom A - Ballroom Level (East Tower)
Sunday, October 22, 11:30 a.m. - 1:15 p.m. U.S. Central Time Zone

CHAIR
Richard Reithinger
RTI International, Washington, DC, United States

Joelle Rosser
Stanford University, Stanford, CA, United States

11:30 a.m.
PRESENTATION BY BURROUGHS WELLCOME FUND-ASTMH FELLOWSHIP RECIPIENT

7229

DRONES AND DENGUE: PILOTING THE USE OF UNMANNED AERIAL VEHICLES TO MAP TRASH DISTRIBUTION AND DENGUE VIRUS RISK IN RURAL AND URBAN KENYA

Joelle I. Rosser[1], Juliet T. Bramante[2], Andrew Chamberlin[1], Paul Sillah[3], Bryson Ndenga[4], Donal Bisanzio[5], Giulio DeLeo[1], Francis Mutuku[3], A. Desiree LaBeaud[1]
[1]Stanford University, Stanford, CA, United States, [2]University of Washington, Seattle, WA, United States, [3]Technical University of Mombasa, Mombasa, Kenya, [4]Kenya Medical Research Institute, Nairobi, Kenya, [5]RTI International, Washington, DC, United States

11:45 p.m.

7230

DENGUE, CHIKUNGUNYA, AND MALARIA IN KENYA; CO-EXPOSURE AND CO-INFECTION STATUS

Amna Tariq[1], Donal Bisanzio[2], Francis Mutuku[3], Bryson Ndenga[4], A. Desiree LaBeaud[1]
[1]Department of Pediatrics, Division of Infectious Diseases, Stanford University, Palo Alto, CA, United States, [2]RTI international, Washington, DC, United States, [3]Department of Environment and Health Sciences, Technical University of Mombasa, Mombasa, Kenya, [4]Centre for Global Health Research, Medical Research Institute, Kisumu, Kenya

Noon

7231

INCREASING MALARIA CASES IN THAILAND'S WESTERN BORDER PROVINCES

Prayuth Sudathip[1], Sathapana Naowarat[2], Suravadee Kitchakarn[1], Deyer Gopinath[3], Rungrawee Tipmontree[1], Chantana Padungtod[1], Niparueradee Pinyajeerapat[4], David Sintasath[4], Jui A. Shah[2]
[1]Division of Vector Borne Diseases, Department of Disease Control, Ministry of Public Health, Nonthaburi, Thailand, [2]Inform Asia: USAID's Health Research Program, RTI International, Bangkok, Thailand, [3]World Health Organization, Nonthaburi, Thailand, [4]U.S. President's Malaria Initiative, United States Agency for International Development (USAID), Regional Development Mission for Asia, Bangkok, Thailand

12:15 p.m.

7232

TRANSLATING CONTINUOUSLY COLLECTED ANTENATAL CARE MALARIA PREVALENCE INTO TRENDS OF COMMUNITY TRANSMISSION AND CLINICAL INCIDENCE — BURKINA FASO, MOZAMBIQUE, AND NIGERIA, 2020-2022

Joseph T. Hicks[1], Anna Munsey[2], Alexandra Hill[1], Dele Babarinde[3], Baltazar Candrinho[4], Siaka Debe[5], Peder Digre[6], Adama Gansane[5], Christelle Gogue[7], Chabu Kangale[8], Hannah Koenker[9], Julia Mwesigwa[10], John Miller[8], Okefu Oyale Okoko[11], Ali Onoja[3], Travis Porter[6], Eleanore Sternberg[9], Perpetua Uhomoibhi[11], Molly Robertson[12], Joseph Wagman[7], Richard G. FitzJohn[1], Julie R. Gutman[2], Patrick GT Walker[1]
[1]Imperial College London, London, United Kingdom, [2]Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]Ibolda Health International, Abuja, Nigeria, [4]4National Malaria Control Program, Ministry of Health, Maputo, Mozambique, [5]Centre National de Recherche et Formation sur le Paludisme, Ouagadougou, Burkina Faso, [6]PATH, Seattle, WA, United States, [7]PATH, Washington, DC, United States, [8]PATH, Lusaka, Zambia, [9]Tropical Health LLP, Baltimore, MD, United States, [10]PATH, Kampala, Uganda, [11]National Malaria Elimination Programme, Abuja, Nigeria, [12]The Global Fund to Fight AIDS, Tuberculosis and Malaria, Geneva, Switzerland

12:30 p.m.

7233

ASSESSING HISTORY OF ACCEPTABILITY AND COVERAGE WITH MASS DRUG ADMINISTRATION (MDA) FOR LYMPHATIC FILARIASIS TO INFORM RE-START OF MDA 6 YEARS POST-ELIMINATION

Alison Krentel[1], Cut Novianti Rachmi[2], Hafizah Jusril[2], Gusta Trisna Pratama[2], Zahra Izza Arifa[2], Esther N. Tambunan[2], Wiji Wahyuningsih[2], Azka Aulia Fitri[2], Suci Trisnasari[2], Peter U. Fischer[3], Taniawati Supali[4], Iwan Ariawan[5]
[1]University of Ottawa, Ottawa, ON, Canada, [2]Reconstra, Jakarta, Indonesia, [3]Washington University at St. Louis, St. Louis, MO, United States, [4]Universitas Indonesia, Jakarta, Indonesia, [5]Reconstra Utama Integra, Jakarta, Indonesia

12:45 p.m.

7234

BUILDING THE CAPACITY OF COMMUNITY INFLUENCERS TO INCREASE THE EQUITY AND IMPACT OF UGANDA'S TRACHOMA RESPONSE

Hilda Kyarisiima[1], Alfred Mubangizi[1], Emmanuel Ssegawa[2], Palma Marwas[2], Claire Karlsson[2], Andrew Kyambadde[3]
[1]Uganda Ministry of Health, Kampala, Uganda, [2]WI-HER, Vienna, VA, United States, [3]RTI International, Washington, DC, United States

1 p.m. 7235

CITIZENS CAN HELP TO MAP PUTATIVE TRANSMISSION SITES FOR SNAIL-BORNE DISEASES

Noelia del Carmen Valderrama Bhraunxs[1], Julius Tumusiime[2], Grace Kagoro Rugunda[2], Daisy Namirembe[2], Ronald Twongyirwe[2], Christian Albrecht[3], Casim Umba Tolo[2], Liesbet Jacobs[4], Tine Huyse[5]
[1]KU Leuven, Leuven, Belgium, [2]Mbarara University of Science and Technology, Mbarara, Uganda, [3]Justus Liebig University Giessen, Giessen, Germany, [4]Institute for Biodiversity and Ecosystem Dynamics - University of Amsterdam, Amsterdam, Netherlands, [5]Royal Museum for Central Africa, Tervuren, Belgium

Scientific Session 162

Malaria - Prevention II

Grand Ballroom B - Ballroom Level (East Tower)
Sunday, October 22, 11:30 a.m. - 1:15 p.m. U.S. Central Time Zone

CHAIR
Ivan Alejandro Pulido Tarquino
Malaria Consortium, Maputo, Mozambique

Thom Eisele
Tulane University, New Orleans, LA, United States

11:30 a.m. 7236

PATTERNS OF HEALTH SEEKING BEHAVIOUR AND TREATMENT PRACTICES FOR FEBRILE CHILDREN FOLLOWING THE INTRODUCTION OF RTS,S/AS01 MALARIA VACCINE IN GHANA

Thomas Kwasi Gyan[1], Paul Welaga[2], Edwin Afari[3], Kwaku Poku Asante[1]
[1]Kintampo Health Research Centre, Ghana Health Service, Kintampo, Ghana, [2]C. K. Tedam University of Technology and Applied Science, Navrongo, Ghana, [3]School of Public Health, University of Ghana, Accra, Ghana, Accra, Ghana

11:45 a.m. 7237

OPERATIONAL PERFORMANCE AND ACCEPTABILITY OF A PROGRAMMATIC MASS DRUG ADMINISTRATION CAMPAIGN FOR MALARIA IN SOUTHERN MOZAMBIQUE: A CROSS-SECTIONAL SURVEY

Maria Tusell[1], Laura Fuente-Soro[1], Jacopo Vecchio[1], Amancio Nhangave[2], Khalid Bapu[3], Christina Riley[4], Mercia Dimene[5], Samira Sibindy[5], Baltazar Candrinho[5], Pedro Aide[3], Caterina Guinovart[1]
[1]Barcelona Institute for Global Health, Barcelona, Spain, [2]Gaza Provincial Directorate of Health, Xai-Xai, Mozambique, [3]Manhiça Health Research Centre, Manhiça, Mozambique, [4]Akros, Lusaka, Zambia, [5]National Malaria Control Program, Ministry of Health, Maputo, Mozambique

Noon 7238

WILL A LACK OF FABRIC DURABILITY BE THEIR DOWNFALL? IMPACT OF TEXTILE DURABILITY ON THE EFFICACY OF NEXT-GENERATION LONG-LASTING INSECTICIDAL NETS AGAINST MALARIA PREVALENCE AND INCIDENCE: A SECONDARY ANALYSIS FROM A CLUSTER-RANDOMIZED TRIAL IN TANZANIA

Eliud A. Lukole[1], Jackie Cook[2], Manisha A. Kulkarni[3], Jacklin F. Mosha[1], Elizabeth Mallya[4], Tatu Aziz[1], Nancy S. Matowo[2], Alphaxard Manjurano[1], Jacklin Martin[4], Franklin W. Mosha[4], Mark Rowland[2], Immo Kleinschmidt[2], Natacha Protopopoff[2]
[1]National Institute for Medical Research (NIMR), Mwanza, United Republic of Tanzania, [2]London School of Hygiene & Tropical Medicine, London, United Kingdom, [3]University of Ottawa, Ottawa, ON, Canada, [4]Kilimanjaro Christian Medical University College, Moshi, United Republic of Tanzania

12:15 p.m. 7239

TRENDS IN ANTENATAL CARE VISITS AND INTERMITTENT PRESUMPTIVE TREATMENT IN PREGNANCY IN SUB-SAHARAN AFRICA. IMPLI-CATIONS OF WHO POLICY

Bolanle Olapeju
Uniformed Services University of the Health Sciences, Bethesda, MD, United States

12:30 p.m. 7240

SEASONAL MALARIA CHEMOPREVENTION EFFECTIVENESS IN NORTHERN MOZAMBIQUE, RESULTS FROM A CLUSTER RANDOMISED CONTROL TRIAL

Ivan Alejandro Pulido Tarquino[1], Kevin Baker[2], Sonia Maria Enosse[1], Chuks Nnaji[2], Albertino Zunza[1], Mercia Sitoe[1], Baltazar Candrinho[3], Maria Rodrigues[1], Sol Richardson[4]
[1]Malaria Consortium, Maputo, Mozambique, [2]Malaria Consortium, London, United Kingdom, [3]National Malaria Control Programme, Maputo, Mozambique, [4]Vanke School of Public Health, Tsinghua University, Beijing, China

12:45 p.m. 7241

ADAPTING THE MASS ACTION AGAINST MALARIA APPROACH FOR MALARIA PREVENTION AND MANAGEMENT AT THE HOUSEHOLD LEVEL: IMPLEMENTATION LESSONS FROM FIVE HIGH BURDEN REGIONS IN UGANDA

Disan Ndaula Sempa[1], Irene Ochola[1], Dorah Anita Talanta[1], Edward Mugwanya[1], Amanda Nagadya[1], Rebecca Babirye[2], Ambrose Okite[3], Aaron Musimenta[1], Amy Casella[4], Aliza Hasham[5], Benjamin Binagwa[1], Natalia Whitley[4]
[1]John Snow Inc, Kampala, Uganda, [2]Program for Accessible Health Communication and Education, Kampala, Uganda, [3]Another Option LLC, Kampala, Uganda, [4]John Snow Inc, Boston, VA, United States, [5]John Snow Inc, Dar es Salam, United Republic of Tanzania

1 p.m. 7242

EVALUATION OF NEW, INSECTICIDE-TREATED NET PRODUCTS, META-ANALYSIS OF OBSERVATIONAL STUDIES, AND ECONOMIC EVALUATIONS FROM FIVE SUB-SAHARAN AFRICAN SETTINGS

Joshua Yukich[1], Riley E. Santiago[1], Maya Schane[1], Peder Digre[2], Okefu Oyale Okoko[3], Perpetua Uhomoibhi[3], Emmanuel Obi[4], Christelle Gogue[5], Marcy Erskine[6], Giovanni Dusabe[6], Zainab Baba Mai Ali[6], Idrissa Cisse[7], David Masiko[8], Jimmy Opigo[9], Medard Rukaari[9], Olivier Lemba Palata[10], Albert Tuyishime[11], Ines Juleca Antonio[12], Guira Matilibou[13], Joseph Wagman[5], Molly Robertson[14], Christen Fornadel[15]
[1]Center for Applied Malaria Research and Evaluation, Department of Tropical Medicine, Tulane University School of Public Health and Tropical Medicine, New Orleans, LA, United States, [2]PATH, Seattle, WA, United States, [3]National Malaria Elimination Programme, Federal Ministry of Health, Abuja, Nigeria, [4]Tropical Health LLP, Lagos, Nigeria, [5]PATH, Washington, DC, United States, [6]International Federation of the Red Cross and Red Crescent, Geneva, Switzerland, [7]Programme National de Lutte Contre le Paludisme, Bamako, Mali, [8]Butali Consulting and Advisory Services Ltd, Kampala, Uganda, [9]National Malaria Control Division, Ministry of Health, Kampala, Uganda, [10]Population Services International, Bamako, Mali, [11]Rwanda Biomedical Centre, Kigali, Rwanda, [12]Programa Nacional de Controle da Malária, Maputo, Mozambique, [13]Programme d'Appui au Développement Sanitaire du Burkina Faso, Ouagadougou, Burkina Faso, [14]The Global Fund to Fight AIDS, Tuberculosis and Malaria, Geneva, Switzerland, [15]IVCC, Liverpool, United Kingdom

Symposium 163

Making Surveillance as an Intervention Work - Innovations to Improve Data Collection and Utilization

Grand Hall J - Ballroom Level (East Tower)
Sunday, October 22, 11:30 a.m. - 1:15 p.m. U.S. Central Time Zone

While the World Health Organization has long recognized the need for strong surveillance systems, highlighting these as a key component of malaria control in both the Global Technical Strategy for Malaria and the High Burden High Impact approach, malaria case surveillance remains suboptimal in most endemic areas. While 34 countries in sub-Saharan Africa (SSA) utilize the District Health Information Software 2 (DHIS2) system to collect routine data, facility level data is collected on paper and aggregated monthly. The process of tallying cases across multiple pages to generate the summary is error prone. To save time, facilities may report only certain indicators, and data are often reported late, making it less utilitarian for response. Novel systems are needed. While routine digital data collection is a goal in many SSA countries, it may not be immediately attainable due to poor infrastructure (network connectivity, electricity, etc.). Alternative systems that can operate offline are needed. Additionally, efforts are needed to simplify and automate tallying and reporting to minimize the reporting burden. This symposium will present innovations being implemented in all levels of the health system in Siaya County, Western Kenya, to improve surveillance and data utilization. An overview of scannable paper registers being used in health facilities and communities will focus on implementation challenges and successes, strategies for monitoring data quality, and opportunities for routine data use. In addition, recognizing that the private sector plays a critical role in treating nearly 30% of patients, capturing private facility data not typically reflected in DHIS2 can provide a more robust overview of true malaria burden throughout the health system. Maisha Meds has developed an innovative pharmaceutical management tool to capture private facility diagnosis and treatment data, while simultaneously serving as a point-of-sale stock management system for the pharmacies, incentivizing the provider to use the system. This platform, which has been adapted to have offline availability, is currently in use in >1600 facilities in six SSA countries, supporting over 6 million patient encounters yearly. The final talk will discuss the use of spatially indexed routine data collected at the health facility to gain a more nuanced understanding of community malaria dynamics. This work will assess how reflective antenatal care malaria burden is to the wider population burden, the ability to isolate drivers of observed patterns in care-seeking behavior, and the capacity to assess effectiveness of intervention strategies using the data. The session will conclude with a panel discussion on how these innovations can be translated to additional settings.

CHAIR
Julie R. Gutman
Centers for Disease Control and Prevention, Atlanta, GA, United States

11:30 a.m.
INTRODUCTION

11:35 a.m.
USING SCANFORM, A NOVEL SYSTEM HARNESSING OPTICAL CHARACTER RECOGNITION TO COLLECT HIGH QUALITY DATA FROM HEALTH FACILITIES IN WESTERN KENYA
Victoria Seffren
Centers for Disease Control and Prevention, Atlanta, GA, United States

11:50 a.m.
IMPLEMENTING HIGH QUALITY DATA REPORTING IN THE COMMUNITY USING SCANFORM: LESSONS FROM THE FIELD
Kizito Obiet
KEMRI/CGHR, Kisumu, Kenya

12:05 p.m.
WHAT IS THE CONTRIBUTION OF COMMUNITY HEALTH WORKERS TO MALARIA CASE SURVEILLANCE?
Wycliffe Odongo
Centers for Disease Control and Prevention, Atlanta, GA, United States

12:20 p.m.
THE ROLE OF PRIVATE FACILITIES IN MALARIA CASE MANAGEMENT AND USE OF INVENTORY MANAGEMENT TOOLS TO IMPROVE QUALITY OF CASE MANAGEMENT AND REPORTING
Veronica Njeri
Maisha Meds, Kisumu, Kenya

12:35 p.m.
MODELLING OF ROUTINE SURVEILLANCE DATA DERIVED FROM OUTPATIENT AND ANTENATAL CLINICS TO INFORM DECISION MAKING
Daniel McDermott
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Symposium 164

LIVE STREAMING

Building Malaria Modelling Capacity: Training a New Generation of Mathematical Modellers in Sub-Saharan Africa

Grand Ballroom CDEF - Ballroom Level (East Tower)
Sunday, October 22, 11:30 a.m. - 1:15 p.m. U.S. Central Time Zone

National Malaria Control Programs (NMCPs) across sub-Saharan Africa are showing a growing interest in using evidence generated with the help of mathematical modelling to shape their National Strategic Plans and to support resource mobilization efforts, as well as to routinely evaluate the impact of interventions implemented by the program. For modelling to have a sustainable positive impact, it must be embedded in a multidisciplinary, participatory process, with local scientists and Ministries of Health staff leading this process. Ensuring the skills exist at a local level enables the development of locally relevant models to accelerate disease control and elimination, led by in-country researchers working closely with local decision-makers. Developing this malaria modelling capacity itself requires local leadership and

customized training tailored to local needs, culture, and existing capacity. This symposium takes the opportunity to present five African awardees of the Bill & Melinda Gates Foundation 2022 Grand Challenges Award in Building Malaria Modelling Capacity in Sub-Saharan Africa. These awardees, all based in Africa, have designed individual capacity building programs adapted to national and regional settings. Despite differences in foci and methodology, all five programs seek to develop a critical mass of African malaria modellers to meet the need for tailored quantitative malaria decision support in a sustainable way. The five malaria modelling capacity building programs include a West African Anglo-Franco-Lusophone partnership, a modelling fellowship program for field epidemiologists in Nigeria, a multi-country consortium to implement transdisciplinary training based in Rwanda, a nexus of training and career development of malaria modellers in Southern Africa, and an African consortium in mathematical modelling for effective vector control on the continent. Along with presenting the structure of the programs, each speaker will focus on the role of context, culture, and indigenous knowledge in establishing a highly efficient pathway from training to impact on the continent. The symposium will be moderated by Dr Jennifer Gardy from the Bill & Melinda Gates Foundation.

CHAIR

Sheetal P. Silal
Modelling and Simulation Hub, Africa, University of Cape Town, Cape Town, South Africa

11:30 a.m.
INTRODUCTION

11:35 a.m.
WEST AFRICA MATHEMATICAL MODELING CAPACITY DEVELOPMENT (WAMCAD): ANGLOPHONE- FRANCOPHONE-LUSOPHONE PARTNERSHIP

Yaw Asare Afrane
University of Ghana, Accra, Ghana

11:50 a.m.
NIGERIA MATHEMATICAL MODELLING FELLOWSHIP (MMF)

Chijioke Kaduru
Mathematical Modelling Working Group (Nigeria) Secretariat, Corona Management Systems, Abuja, Nigeria

12:05 p.m.
BUILDING THE NEXT GENERATION OF MALARIA MODELERS IN AFRICA FOR SUSTAINABLE PUBLIC HEALTH POLICIES (MAMODAFRICA)

Wilfred Ndifon
African Institute for Mathematical Sciences - Next Einstein Initiative (AIMS NEI), Kigali, Rwanda

12:20 p.m.
MALARIA MODELLING AND ANALYTICS: LEADERS IN AFRICA (MMALA) – A NEXUS OF TRAINING IN SOUTHERN AFRICA

Sheetal P. Silal
Modelling and Simulation Hub, Africa (MASHA), University of Cape Town, Cape Town, South Africa

12:35 p.m.
ACOMVEC: AN AFRICAN CONSORTIUM IN MODELLING FOR EFFECTIVE VECTOR CONTROL

Charles S. Wondji
Centre of Research in Infectious Diseases (CRID) and Liverpool School of Tropical Medicine (LSTM, UK), Yaounde, Cameroon

12:50 p.m.
MODERATOR, PANEL DISCUSSION

Jennifer Gardy
Bill & Melinda Gates Foundation, Seattle, WA, United States

Symposium 165

Vector Control and Surveillance: The Role of Entomology in Onchocerciasis and Its Implication for Verification of Lymphatic Filariasis Elimination

Grand Hall K - Ballroom Level (East Tower)
Sunday, October 22, 11:30 a.m. - 1:15 p.m. U.S. Central Time Zone

Vector borne diseases require a causative pathogen, a human host, and a vector. Human filarial nematodes share a complex life cycle involving a definitive human host and an intermediate insect vector. Adult worms mate and reproduce in humans producing early stage larvae known as microfilariae (MF). When the vectors take a blood meal from an infected human, the MF are ingested. Once inside the vector, the MF develop into infective larvae which are passed on to another person through the same channel. Public health interventions targeting these diseases often attempt to break at least one stage in this cycle as a means of reducing or interrupting transmission. Of the eight filarial infections affecting humans, onchocerciasis and lymphatic filariasis cause significant morbidity and are targeted by WHO as part of the 2030 NTD Roadmap. Both diseases using mass treatment with medicines which target the MF within the human host. Similarly, interventions rely heavily on antigen tests to assess exposure in a population at-risk in order to measure success. Vector control is to reduce the number of MF taken up by the vectors (black flies for onchocerciasis or mosquitoes for LF) and restrict the number of infective larvae produced that infect (or expose) humans. The 2030 NTD Roadmap targets onchocerciasis for interruption of transmission, defined as zero incidence of infection, and elimination as a public health problem for LF, defined as, "achieving measurable targets set by WHO…where continued actions are required to maintain the targets or advance to interruption of transmission". In both cases, the interventions primarily target the pathogen in the human host. The major difference in the monitoring and evaluation (M&E) and surveillance of the two diseases is that the interventions for onchocerciasis have included entomological monitoring and vector control as part of the process toward achieving the roadmap goals. Understanding how, when and where to use vector control and surveillance, and the importance of the entomological criteria for the verification of elimination is a critical step towards achieving the roadmap targets.

CHAIR

Upendo Mwingira
RTI International, Washington, DC, United States

Darin Evans
USAID, Washington, DC, United States

11:30 a.m.
INTRODUCTION

11:40 a.m.
VECTOR CONTROL AND SURVEILLANCE OF ONCHOCERCIASIS IN UGANDA: WHY THERE AND NOT EVERYWHERE?

David Oguttu
Ministry of Health, Uganda, Kampala, Uganda

11:55 a.m.
RECRUDESCENCE OF ONCHOCERCIASIS IN METEMA SUB FOCUS, ETHIOPIA: WHY VECTOR MONITORING WAS CRITICAL

Kadu Meribo
Ministry of Health, Ethiopia, Addis Ababa, Ethiopia

12:10 p.m.
MODELING INTERVENTIONS FOR INTERRUPTION OF TRANSMISSION: ONCHO VS LF

Edwin Micheal
University of South Florida, Tampa, FL, United States

12:30 p.m.
XENOMONITORING FOR LF: PRACTICAL EXPERIENCE

Sammy Njenga
KEMRI, Nairobi, Kenya

12:45 p.m.
OVERCOMING END GAME CHALLENGES: WHEN IS VECTOR CONTROL APPROPRIATE FOR ONCHO AND LF AND HOW DO COUNTRIES IMPLEMENT THOSE EFFORTS

Moses N. Katabarwa
RTI International, Atlanta, GA, United States

1 p.m.
MODERATOR, PANEL DISCUSSION

Upendo Mwingira
RTI International, Washington, DC, United States

Symposium 166

Cryptosporidiosis: New Science to Combat a Leading Cause of Early Childhood Diarrhea

Grand Hall L - Ballroom Level (East Tower)
Sunday, October 22, 11:30 a.m. - 1:15 p.m. U.S. Central Time Zone

This session does not carry CME credit.

The apicomplexan parasite Cryptosporidium is a leading cause of diarrheal diseases with a particularly grave impact on young children. Cryptosporidiosis has a profound yet poorly understood relationship with malnutrition, both as a cause and consequence. Recently, fueled by the appreciation of its public health impact, and a series of technical breakthroughs, research on this pathogen has made significant advances. This symposium will bring together experts along the full spectrum of research on this important disease: studies in children on pathogenesis and immunity, fundamental laboratory studies using novel genetic tools and organoid and animal models, and translational studies towards the development of urgently needed drugs and vaccines.

CHAIR

Boris Striepen
University of Pennsylvania, Philadelphia, PA, United States

Carol Gilchrist
University of Virginia, Charlottesville, VA, United States

11:30 a.m.
INTRODUCTION

11:40 a.m.
PEDIATRIC CRYPTOSPORIDIOSIS, DIARRHEA, ENTEROPATHY AND MALNUTRITION

Paul Kelly
Barts & The London School of Medicine, London, UK and University of Zambia School of Medicine, Lusaka, Zambia., Lusaka, Zambia

Noon
INFLUENCE OF GUT MICROBIAL METABOLITES ON CRYPTOSPORIDIUM GROWTH

David Sibley
Washington University, St. Louis, MO, United States

12:20 p.m.
DEVELOPING MODE OF ACTION TOOLS TO AID CRYPTOSPORIDIOSIS DRUG DISCOVERY

Mattie Pawlowic
Wellcome Centre for Anti-Infectives Research, University of Dundee, Dundee, United Kingdom

12:40 p.m.
NATURAL IMMUNITY TO CRYPTOSPORIDIUM IN YOUNG CHILDREN

Carol A. Gilchrist
University of Virginia HSC, Charlottesville, VA, United States

1 p.m.
RATIONAL DESIGN OF GI TARGETED CPPI4K INHIBITOR TO TREAT PEDIATRIC ENTERIC CRYPTOSPORIDIOSIS

Ujjini H. Manjunatha
Global Health at Novartis Institutes for BioMedical Research, Inc., Emeryville, CA, United States

Symposium 167

Development, Implementation and Evaluation of IMCI-Based Clinical Decision Support Algorithms with Pulse Oximetry to Improve the Assessment and Management of Sick Children in India, Kenya, Senegal and Tanzania

Plaza Ballroom - Lobby Level (East Tower)
Sunday, October 22, 11:30 a.m. - 1:15 p.m. U.S. Central Time Zone

Healthcare providers in low and middle-income countries (LMICs) face many challenges in managing sick children in primary care. With an estimated 5 million children under 5 years of age dying each year from preventable causes, strategies to improve

the detection and management of children with severe illness, whilst supporting the rational use of resources, are critical. The Integrated Management of Childhood Illness (IMCI) guidelines provide a simple, structured approach to consultations with sick children for healthcare providers in resource-constrained settings. However, many studies have demonstrated poor identification and management of severely ill children due to both non-adherence by health workers and intrinsic problems of guidelines based on clinical signs alone. Clinical decision support algorithms (CDSAs) can improve adherence to evidence-based practice by guiding healthcare providers through consultations and providing patient-specific recommendations on assessment, diagnosis, treatment and counseling. By providing step-by-step support, they also offer the possibility of integrating relevant child health guidelines beyond IMCI, particularly to support the appropriate management of non-malarial fever. Combined with pulse oximetry to detect hypoxaemia, a strong predictor of mortality, CDSAs have the potential to improve the identification and management of children with severe illness, and support diagnostic and antimicrobial stewardship. Evidence on impact, and implementation approaches to facilitate uptake in different contexts, is needed to inform decision-making about scale-up. This symposium will present new evidence from the large-scale multi-method research conducted in India, Kenya, Senegal, and Tanzania as part of the Tools for Integrated Management of Childhood Illness (TIMCI) project. The session will 1) describe the approach to clinical decision support algorithm development, reflecting the similarities and differences in content based on national guidelines, priorities and epidemiology, and present insights on clinical presentations, and acceptability of diagnosis and treatment recommendations from CDSA consultation data; 2) present key learnings on CDSA and pulse oximetry implementation from pilots studies used to refine clinical algorithm content and implementation approach; and 3) highlight acceptability, feasibility and impact of CDSA and pulse oximetry implementation findings from pragmatic cluster randomized controlled trials, quasi-experimental studies and mixed-method sub-studies carried out in 4 countries.

CHAIR
Michael A. Ruffo
PATH, Geneva, Switzerland

11:30 a.m.
INTRODUCTION

11:35 a.m.
ADAPTING CLINICAL DECISION SUPPORT ALGORITHMS TO ALIGN WITH NATIONAL GUIDELINES AND PRIORITIES: LEARNINGS FROM INDIA, KENYA, SENEGAL, AND TANZANIA
Fenella Beynon
Swiss Tropical & Public Health Institute, Allschwil, Switzerland

11:55 a.m.
ALIGNING GUIDELINE-BASED CDSA WITH THE REALITIES OF PRIMARY CARE PROVISION: LEARNINGS FROM PILOT TO IMPLEMENTATION IN SENEGAL
Papa Moctar Faye
University Cheikh Anta Diop, Dakar, Senegal

12:15 p.m.
IMPLEMENTATION OF CDSA AND PULSE OXIMETRY: LEARNINGS FROM THE KENYA EXPERIENCE
Andolo Miheso
PATH, Nairobi, Kenya

12:35 p.m.
ACCEPTABILITY, FEASIBILITY AND IMPACT OF CDSA AND PULSE OXIMETRY IMPLEMENTATION: FINDINGS FROM THE PRAGMATIC CLUSTER RANDOMIZED CONTROLLED TRIAL IN TANZANIA
Grace Mhalu
Ifakara Health Institute, Dar es Salaam, United Republic of Tanzania

12:55 p.m.
HEALTH SYSTEM CONTEXT FOR USABILITY AND ACCEPTABILITY OF CDSA AND PULSE OXIMETRY: LEARNINGS FROM THE INDIA PILOT
Shally Awasthi
King George's Medical University, Lucknow, India

Symposium 168

Innovations in Diagnostics Supporting Improved Pneumonia Case Management in Children under Five Years

Crystal Ballroom A - Lobby Level (West Tower)
Sunday, October 22, 11:30 a.m. - 1:15 p.m. U.S. Central Time Zone

Pneumonia remains the leading infectious killer of children under five years in the world and therefore improving case management of pneumonia is a key component in achieving Sustainable Development Goal (SDG) 3.2, requiring all countries to reduce their Child Mortality Rates to, "at least 25 deaths per 1,000 live births" by 2030. Success in achieving Universal Health Coverage for children will also depend on whether countries provide quality services and care for children with pneumonia. Access to accurate, usable and affordable diagnostics for effective management of pneumonia in resource poor settings continues to be a major barrier to improved pneumonia control. Every Breath Counts (EBC), the world's first public-private partnership to support national governments to end preventable child pneumonia deaths by 2030, recognizes the need for innovative diagnostics to improve pneumonia case management in children under five in primary health care settings. In this symposium, the EBC research group will present primary research from five partners, highlighting recent innovation and potential for improved pneumonia diagnostic aids and potential opportunities to scale. Firstly, cutting-edge formative results showing the potential for artificial Intelligence to support automated respiratory rate counting using a mobile phone. Secondly, results from a large-scale evaluation of multimodal pneumonia diagnostic aids in four countries – Kenya, Senegal, Melawi, and India. Thirdly, we will also examine trial results from Bangladesh showing the utility of digital auscultation for pneumonia diagnosis in children under five. Fourthly, Save the Children will present recent results from Kenya on the potential support to pneumonia diagnosis, a decision support technology can provide. Finally, results from a large-scale trial in the US will be

discussed, evaluating cough sound technology as a pneumonia diagnosis tool. The session will conclude with a moderated discussion which will tie together the presentations and facilitate a structured interaction between the presenters and the audience.

CHAIR

Kevin Baker
Malaria Consortium, London, United Kingdom

Helen Storey
PATH, Seattle, WA, United States

11:30 a.m.
INTRODUCTION

11:40 a.m.
RESULTS FROM THE AIRR STUDY – SHOWING HOW ARTIFICIAL INTELLIGENCE CAN SUPPORT AUTOMATED RESPIRATORY RATE COUNTING ON MOBILE PHONES

Carina King
Karolinska Institute, Stockholm, Sweden

Noon
ADVANCING MULTIMODAL PULSE OXIMETRY: LEARNINGS FROM TIMCI INITIATIVE, INCLUDING SMARTPHONE-BASED TOOLS AND DATA REPOSITORY

Helen Storey
PATH, Seattle, WA, United States

12:20 p.m.
RESULTS FROM A TRIAL FOCUSED ON THE COMMUNITY USE OF DIGITAL AUSCULTATION TO IMPROVE DIAGNOSIS OF CHILDHOOD PNEUMONIA IN SYLHET, BANGLADESH

Salahuddin Ahmed
Projahnmo Research Foundation, Dhaka, Bangladesh

12:40 p.m.
RESULTS FROM A STUDY IN KENYA USING DECISION SUPPORT TECHNOLOGY FOR IMPROVING AND ENSURING HEALTH CARE PROVIDERS' COMPLIANCE/ADHERENCE TO IMCI GUIDELINE FOR ASSESSING, DIAGNOSING, AND MANAGING UNDER FIVE SICK CHILDREN

Rashed Shah
Save the Children US, Washington, DC, United States

1 p.m.
RESULTS FROM SMART COUGH TRIAL EVALUATING THE UTILITY OF COUGH SOUNDS AS A DIAGNOSTIC TOOL FOR PNEUMONIA

Peter Moschovis
Massachusetts General Hospital, Boston, United States

Scientific Session 169

Clinical Tropical Medicine: Neglected Diseases and Fevers

Crystal Ballroom B - Lobby Level (West Tower)
Sunday, October 22, 11:30 a.m. - 1:15 p.m. U.S. Central Time Zone

CHAIR

Elizabeth Gulleen
Fred Hutchinson Cancer Research Center, Seattle, WA, United States

Wendemagegn E. Yeshanh
Bahir Dar University, Bahir Dar, Ethiopia

11:30 a.m. 7243

PODOCONIOSIS; CLINICAL SPECTRUM AND MICROSCOPIC PRESENTATIONS

Wendemagegn Enbiale Yeshanh[1], Almut Enbiale Boer Auer[2], Bereket Amare[1], Kristien Verdonck[3], Gail Davey[4], Johan Griensven[3], Henry de Vries[5]
[1]Bahir Dar University, Bahir Dar, Ethiopia, [2]Dermatologikum, Hamburg, Germany, [3]Institute of tropical Medicine, Antwerp, Belgium, [4]Brighton and Sussex Medical School, Falmer, Brighton, United Kingdom, [5]University of Amsterdam, Department of Dermatology, Amsterdam, Netherlands

11:45 a.m. 7244

THROMBOSIS AND ORGAN DYSFUNCTION IN SNAKEBITE ENVENOMING: TIME TO REDEFINE VENOM INDUCED CONSUMPTION COAGULOPATHY?

Maya Gopalakrishnan, Akhilesh Kumar, Pamkaj Sukhadiya, Divya Tanwar, Poonam Elhence, Mahendra K. Garg
All India Institute of Medical Sciences, Jodhpur, Jodhpur, India

Noon 7245

THE RELEVANCE OF REPORTING LEPROSY RELATED DISABILITY AT THE COMPLETION OF MULTI DRUG THERAPY: A 5-YEAR RETROSPECTIVE ANALYSIS OF DISABILITY IN PERSONS AFFECTED BY LEPROSY AT ALERT HOSPITAL ETHIOPIA

Bereket A. Tegene[1], Thomas A. Atnafu[2], Saba M. Lambert[1], Stephen L. Walker[1]
[1]London School of Hygeine and Tropical Medicine, London, United Kingdom, [2]All Africa Leprosy TB Rehabilitation Training Center, Addis Ababa, Ethiopia

12:15 p.m. 7246

PATHOGENESIS OF ACUTE KIDNEY INJURY IN LASSA FEVER

Matin Kohsar[1], Osas Edeawe[2], Christian Erohubie[3], Benno Kreuels[1], Sylvanus Okogbenin[2], Stephan Günther[4], Michael Ramharter[1], Lisa Österreich[4], Till Frederick Omansen[1], Cyril Erameh[2]
[1]Department of Tropical Medicine, Bernhard Nocht Institute for Tropical Medicine & I. Dep. of Medicine, University Medical Center Hamburg-Eppendorf, Hamburg, Germany, [2]Institute for Lassa Fever Research and Control, Irrua Specialist Teaching Hospital, Irrua, Nigeria, [3]Department of Medicine, Irrua Specialist Teaching Hospital, Irrua, Nigeria, [4]Department of Virology, Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany

12:30 p.m. 7247

TRYING TO UNMASK THE HIDDEN CAUSES OF IMPORTED FEVER WITH NEW GENOME SEQUENCING: A MULTICENTER PROSPECTIVE COHORT STUDY

Daniel Camprubí Ferrer[1], Leire Balerdi-Sarasole[1], Alex Tomazatos[2], Ludovico Cobuccio[3], Steven Van Den Broucke[4], Blaise Genton[3], Emmanuel Bottieau[4], Natalia Rodriguez-Valero[1], Alex Almuedo-Riera[1], Valerie d'Acremont[3], Javier Gandasegui[1], Carme Subirà[1], Angeline Cruz[1], Daniel Cadar[2], Jose Muñoz[1]
[1]ISGlobal / Hospital Clínic Barcelona, Barcelona, Spain, [2]Bernhard-Nocht-Institut für Tropenmedizin, Hamburg, Germany, [3]Center for Primary Care and Public Health, University of Lausanne, Lausanne, Switzerland, [4]Institute of Tropical Medicine, Antwerp, Belgium

12:45 p.m. 7248

MALSCORE: AN INNOVATIVE TOOL TO PREDICT MALARIA IN PATIENTS WITH IMPORTED FEVER TO START EARLY TREATMENT.

Leire Balerdi-Sarasola[1], Pedro Fleitas[1], Ludovico Cobuccio[2], Steven Van Den Broucke[3], Blaise Genton[2], Emmanuel Bottieau[3], Valérie d'Acremont[2], Natalia Rodriguez-Valero[1], Alex Almuedo-Riera[1], Carme Subirà[1], Montserrat Roldan[1], Claudio Parolo[1], Jose Muñoz[1], Daniel Camprubí-Ferrer[1]
[1]ISGlobal, Hospital Clínic - Universitat de Barcelona, Barcelona, Spain, [2]Swiss Tropical and Public Health Institute, Basel, Switzerland, [3]Department of Clinical Sciences, Institute of Tropical Medicine, Antwerp, Belgium

1 p.m. 7249

DIAGNOSTIC TOOLS AND ALGORITHMS AT THE POINT OF CARE TO SAFELY REDUCE ANTIBIOTIC PRESCRIPTIONS FOR ACUTE FEBRILE ILLNESS MANAGEMENT

Juvenal Nkeramahame[1], Ana Belen-Ibarz[1], Philip Horgan[1], Anjana Tomar[2], Sarabjit Singh Chadha[2], Kamini Walia[3], James Kapisi[4], Halidou Tinto[5], Francois Kiemde[5], Shanta Dutta[6], Ashish Pathak[7], Neelam Taneja[8], Gajanan Phutke[9], Olita Shilpakar[10], Heidi Hopkins[11], Basnyat Buddha[10], Piero Olliaro[12], Sabine Dittrich[13], Cecilia Ferreyra[1]
[1]FIND, Geneva, Switzerland, [2]FIND, New Delhi, India, [3]Indian Council Of Medical Research, New Delhi, India, [4]Infectious Diseases Research Collaboration, Kampala, Uganda, [5]Clinical Research Unit Of Nanoro, Nanoro, Burkina Faso, [6]ICMR-National Institute Of Cholera And Enteric Diseases, West Bengal, India, [7]RD Gardi Medical College, Madhya Pradesh, India, [8]Postgraduate Institute Of Medical Education And Research, Punjab, India, [9]Jan Swasthya Sahyog, Chhattisgarh, India, [10]Oxford University Clinical Research Unit-Nepal, Kathmandu, Nepal, [11]London School Of Hygiene & Tropical Medicine, London, United Kingdom, [12]Pandemic Sciences Institute, Nuffield Department Of Medicine, University Of Oxford, Oxford, United Kingdom, [13]Deggendorf Institute Of Technology, Deggendorf, Germany

Symposium 170

Preparing for the Next Zika Outbreak: Lessons Learned from Large Birth Cohorts Regarding Developmental Abnormalities and Adverse Pregnancy Outcomes

Regency Ballroom A - Ballroom Level (West Tower)
Sunday, October 22, 11:30 a.m. - 1:15 p.m. U.S. Central Time Zone

When Zika virus (ZIKV) caused outbreaks in the Western Pacific and the Americas from 2013-2017, a causal link was established to thousands of cases of microcephaly and other developmental abnormalities in fetuses/infants when mothers acquired infection during pregnancy. Large birth cohorts and prospective surveillance studies were quickly initiated to quantify the risk and analyze the range of adverse clinical phenotypes associated with ZIKV infection, for example by the NIH, the US CDC, the European Commission, the French National Research Institute INSERM, and by Brazilian institutions (eg. FIOCRUZ; Microcephaly Epidemiology Research Group - MERG). This resulted in the description of the 'Congenital Zika Syndrome' (CZS), but questions regarding the discrepant frequency of adverse outcomes (eg. between regions and over time) as well as regarding the mix of clinical phenotypes remain. In addition, it became clear that only through long term follow up of ZIKV-exposed children after birth the full picture of abnormalities and disease burden could be assessed. Since the outbreak quickly dropped, the number of confirmed cases collected in each of the cohorts turned out to be limited. In response to this, the WHO has initiated an Individual Patient Data Meta-Analysis, inviting ZIKV studies to share and harmonize their data towards a common goal. However, when the COVID-19 pandemic hit, the work on the harmonization of the ZIKV cohorts was often delayed by logistic bottlenecks like barriers in shipping of samples or conducting diagnostic laboratory work outside of prioritized COVID-19 research. In this symposium, we will convene the larger ZIKV birth cohort studies and evaluate the current state of play regarding risk and relative frequency of adverse pregnancy outcomes at birth and developmental abnormalities after birth associated to ZIKV infection *in utero*. In the light of the fact that vaccines and monoclonal antibodies are under development, we want to consolidate the knowledge gained by natural history cohorts and map out concrete steps for the remaining gaps. The key question is if we are ready for potential re-emergence and if we have been able to use the existing data to the full extent, establishing solid evidence regarding the association between maternal ZIKV infection during pregnancy and each of the adverse outcomes.

CHAIR
Thomas Jaenisch
Colorado School of Public Health, Aurora, CO, United States
Edwin J. Asturias
Childrens Hospital Colorado, Aurora, CO, United States

11:30 a.m.
INTRODUCTION

11:40 a.m.
RESULTS FROM THE ZIKALLIANCE MULTICENTRIC BIRTH COHORTS - LESSONS LEARNED FOR FREQUENCY OF ADVERSE PREGNANCY OUTCOMES RELATED TO ZIKV
Kirsten Fong
Heidelberg University Hospital, Heidelberg, Germany

Noon
THE NIH ZIKA IN INFANTS AND PREGNANCY (ZIP) STUDY - FREQUENCY AND RISK FACTORS FOR CONGENITAL ABNORMALITIES AFTER ZIKV INFECTION DURING PREGNANCY
Walla Dempsey
National Institutes of Health, Bethesda, MD, United States

12:15 p.m.
RESULTS FROM THE CDC PROSPECTIVE SURVEILLANCE STUDIES
Nicki Roth
Centers for Diesease Control and Prevention, Atlanta, GA, United States

12:30 p.m.
RESULTS FROM THE BRAZILIAN ZIKA COHORTS - FREQUENCY OF ADVERSE PREGNANCY OUTCOMES AND MIX OF CLINICAL PHENOTYPES
Ricardo Ximenes
Federal University of Pernambuco, Recife, Brazil

12:50 p.m.

CHALLENGES REGARDING FOLLOW-UP OF DEVELOPMENTAL MILESTONES AND COGNITIVE OUTCOMES IN CHILDREN IN LMICS?

Edwin Asturias
Colorado School of Public Health, Aurora, CO, United States

Scientific Session 171

Malaria - Immunology: Covering the Spectrum of Naturally-Acquired and Vaccine-Induced Immune Responses

Regency Ballroom B - Ballroom Level (West Tower)
Sunday, October 22, 11:30 a.m. - 1:15 p.m. U.S. Central Time Zone

CHAIR

Katherine Dobbs
Case Western Reserve University, Cleveland, OH, United States

Felistas Namirimu Nankya
Infectious Diseases Research Collaboration, Kampala, Uganda

11:30 a.m. 7250

IDENTIFICATION OF TARGETS OF PROTECTIVE ANTIBODY RESPONSES AGAINST *PLASMODIUM VIVAX* MALARIA USING A MULTIFUNCTIONAL ANTIBODY PROFILING APPROACH

D. Herbert Opi[1], Rhea Longley[2], Linda Reiling[1], Kael Schoffer[2], Yanie Tayipto[2], Ali Haghiri[3], Jessica Brewster[2], Damien Drew[1], Gaoqian Feng[1], Bruce Wines[1], Danielle Stanisic[4], Mathias Harbers[5], Takafumi Tsuboi[6], Eizo Takashima[6], P. Mark Hogarth[1], Benson Kinoboro[7], Leanne Robinson[1], Julie Simpson[3], Ivo Mueller[2], James G. Beeson[1]
[1]Burnet Institute, Melbourne, Australia, [2]Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia, [3]University of Melbourne, Melbourne, Australia, [4]Griffith University, Gold Coast, Australia, [5]Cell Freee Sciences Co Ltd, Yokohama, Japan, [6]Ehime University, Matsuyama, Japan, [7]Papua New Guinea Institute of Medical Research, Goroka, Papua New Guinea

11:45 a.m. 7251

ANTIBODY AND CELLULAR RESPONSES TO *IN UTERO* MALARIA EXPOSURE IN INFANTS

Felistas Namirimu Nankya[1], Florian Bach[2], Kathleen Press[2], Odorizzi Pamela[3], Kenneth Musinguzi[1], Kate Naluwu[1], Isaac Ssewanyana[1], Abel Kakuru[1], Moses Kamya[1], Grant Dorsey[4], Feeney Margaret[4], Prasanna Jagannathan[2]
[1]Infectious Diseases Research Collaboration, Kampala, Uganda, [2]Stanford University, Stanford, CA, United States, [3]Gilead Sciences, Californis, CA, United States, [4]University of California San Francisco, San Francisco, CA, United States

Noon 7252

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

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

12:15 p.m. 7253

INDUCTION OF LIVER-RESIDENT MEMORY CD8$^+$ T CELLS AND PROTECTION AGAINST MALARIA AT EXOERYTHROCYTIC STAGE BY MRNA-CONTAINING LIPID NANOPARTICLES

Sayuri Nakamae[1], Satoshi Miyagawa[1], Koki Ogawa[2], Jiun-Yu Jian[1], Mayumi Taniguchi[1], Takeshi Annoura[3], Katsuyuki Yui[1], Kenji Hirayama[4], Shigeru Kawakami[5], Shusaku Mizukami[1]
[1]Institute of Tropical Medicine, Nagasaki university, Nagasaki, Japan, [2]Graduate School of Biomedical Sciences, Nagasaki University, Nagasaki, Japan, [3]National Institute of Infectious Diseases, Tokyo, Japan, [4]School of Tropical Medicine and Global Health, Nagasaki university, Nagasaki, Japan, [5]Graduate School of Biomedical Sciences, Nagasaki university, Nagasaki, Japan

12:30 p.m. 7254

ONCE YOU'VE HAD MALARIA YOU'LL NEVER FORGET (OR WILL YOU?): THE MEMORY B CELL AND PLASMA CELL RESPONSE TO *PLASMODIUM* REINFECTION

Elizabeth M. Fusco, Nathan W. Schmidt
Indiana University School of Medicine, Indianapolis, IN, United States

12:45 p.m. 7255

NEUTRALIZING AND INTERFERING HUMAN ANTIBODIES DEFINE THE STRUCTURAL AND MECHANISTIC BASIS FOR ANTIGENIC DIVERSION

Palak N. Patel, Thayne H. Dickey, Christine S. Hopp, Ababacar Diouf, Wai Kwan Tang, Carole A. Long, Kazutoyo Miura, Peter D. Crompton, Niraj H. Tolia
National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

1 p.m. 7256

STRUCTURE GUIDED MIMICRY OF AN ESSENTIAL *P. FALCIPARUM* RECEPTOR-LIGAND COMPLEX ENHANCES CROSS NEUTRALIZING ANTIBODIES

Sean Yanik[1], Varsha Venkatesh[1], Bianca Loveless[2], Deepti Sarkar[1], Kazutoyo Miura[3], Carole Long[3], Martin Boulanger[2], Prakash Srinivasan[1]
[1]Johns Hopkins, Baltimore, MD, United States, [2]University of Victoria, Saanich, BC, Canada, [3]NIAID, Rockville, MD, United States

Scientific Session 172

Mosquitoes- Epidemiology and Vector Control II

Regency Ballroom C - Ballroom Level (West Tower)
Sunday, October 22, 11:30 a.m. - 1:15 p.m. U.S. Central Time Zone

CHAIR

Zinsou Come Koukpo
Centre de Recherche Entomologique de Cotonou, Cotonou, Benin

Kristan Schneider
University of Applied Sciences Mittweida, Mittweida, Germany

11:30 a.m. 7257

VERTICAL AND HORIZONTAL TRANSMISSION OF MICROSPORIDIA MB IN *ANOPHELES* ARABIENSIS: EFFECT ON LIFE HISTORY TRAITS

Syeda Tullu Bukhari, Tracy Maina, Aclaine Shisia, Godfred Yaw Boanyah, Jeremy K. Herren
International Center of Insect Physiology and Ecology, Nairobi, Kenya

11:45 a.m. 7258

CHARACTERIZING ANTIBODY RESPONSES TO MOSQUITO SALIVARY ANTIGENS OF THE SOUTHEAST ASIAN MALARIA VECTORS WITH A HUMAN CHALLENGE MODEL OF CONTROLLED EXPOSURE

Victor Chaumeau[1], Ellen Kearney[2], Paul A. Agius[3], Sunisa Sawasdichai[1], Katherine O'Flaherty[2], Praphan Wasisakun[1], Daniela Da Silva Goncalves[2], Laaongsri Niwetphongprai[1], Thaw Htwe Min[1], James Beeson[2], Julie A. Simpson[4], François Nosten[1], Freya Fowkes[2]
[1]Shoklo Malaria Research Unit, Mae Ramat, Thailand, [2]Burnet Institute, Melbourne, Australia, [3]Deakin University, Melbourne, Australia, [4]University of Melbourne, Melbourne, Australia

Noon 7259

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

Ellen A. Kearney[1], Paul A. Agius[2], Punam Amratia[3], Su Yun Kang[3], Katherine O'Flaherty[1], Win Han Oo[4], Julia C. Cutts[1], Daniela Da Silva Goncalves[1], Kefyalew A. Alene[3], Aung Thi[5], Htin Kyaw Thu[4], Myat Mon Thein[4], Nyi Nyi Zaw[4], Wai Yan Min Htay[4], Aung Paing Soe[4], Naanki Pasricha[1], Brendan Crabb[1], James Beeson[1], Victor Chaumeau[6], Julie A. Simpson[7], Peter Gething[3], Ewan Cameron[3], Freya JI Fowkes[1]
[1]Burnet Institute, Melbourne, Australia, [2]Biostatistics Unit, Faculty of Health, Deakin University, Melbourne, Australia, [3]Malaria Atlas Project, Telethon Kids Institute, Perth, Australia, [4]Burnet Institute, Yangon, Myanmar, [5]Department of Public Health, Myanmar Ministry of Health and Sports, Yangon, Myanmar, [6]Shoklo Malaria Research Unit, Mahidol University, Mae Sot, Thailand, [7]Centre for Epidemiology and Biostatistics, The University of Melbourne, Melbourne, Australia

12:15 p.m. 7260

WIDE AND SUSTAINED LONG-TERM TARGET EFFICACY OF AN INJECTABLE LONG-ACTING IVERMECTIN FORMULATION AGAINST*PLASMODIUM*VECTORS IN THE FIGHT AGAINST MALARIA

Cheick O. Ouedraogo[1], Lamidi Zela[2], Angélique Porciani[3], Dieudonné D. Soma[4], Sié H. Pooda[5], Fabrice A. Somé[1], Joel Tarning[6], Kevin Kobylinski[6], Malik A. Bandaogo[7], Ali Ouari[8], Thibaut Deramoudt[9], André B. Sagna[10], Sophie Le Lamer-Déchamps[11], Christophe Roberge[11], Cédric Pennetier[12], Nicolas Moiroux[3], Guiguigbaza-Kossignan Dayo[13], Roch K. Dabiré[1], Karine Mouline[3]
[1]Institut de Recherche en Sciences de la Santé - IRSS-DRO, Bobo Dioulasso, Burkina Faso, [2]Centre International de Recherche Développement pour l'Elevage en zones Sub-humides - CIRDES, Bobo Dioulasso, Burkina Faso, [3]Institut de Recherche pour le Developpement - IRD, Montpellier, France, [4]Université Nazi Boni, Bobo Dioulasso, Burkina Faso, [5]Université de Dédougou, Dédougou, Burkina Faso, [6]Mahidol Oxford Tropical Medicine Research Unit, Mahidol, Thailand, [7]Centre de Recheche Développement pour l'élevage en zones Sub-humides - CIRDES, Bobo Dioulasso, Burkina Faso, [8]Instut de Recherche en Sciences de la Santé - IRSS-DRO, Bobo Dioulasso, Burkina Faso, [9]MedinCell, Jacou, France, [10]Institut de Recherche pour le Developpement - IRD, Bobo-Dioulasso, Burkina Faso, [11]MedInCell, Jacou, France, [12]Institut de Recherche pour le Developpement - IRD, Bobo Dioulasso, Burkina Faso, [13]Centre International de Recherche Elevage en zones Sub-humides - CIRDES, Bobo Dioulasso, Burkina Faso

12:30 p.m. 7261

INFLUENCE OF ANOPHELINE BITING PREFERENCES ON THE *PLASMODIUM FALCIPARUM* HUMAN INFECTIOUS RESERVOIR IN WESTERN KENYA

Christine Markwalter[1], Zena Lapp[1], Lucy Abel[2], Emmah Kimachas[2], Evans Omondi[1], Betsy Freedman[1], Tabitha Chepkwony[2], Mark Amunga[2], Judith N. Mangeni[3], Steve Taylor[1], Andrew A. Obala[4], Wendy P. O'Meara[1]
[1]Duke University, Durham, NC, United States, [2]Academic Model Providing Access to Healthcare (AMPATH), Eldoret, Kenya, [3]School of Public Health, Moi University, Eldoret, Kenya, [4]School of Medicine, Moi University, Eldoret, Kenya

12:45 p.m. 7262

ASSESSING THE STATISTICAL POWER OF A SEMI-FIELD EXPERIMENT: TESTING SINGLE AND COMBINED INTERVENTIONS AGAINST MALARIA VECTORAN. ARABIENSIS

Andrea M. Kipingu[1], Dickson W. Lwatoejera[2], Samson S. Kiware[2], Mafalda Viana[1], Paul C.D. Johnson[1]
[1]University of Glasgow, Glasgow, United Kingdom, [2]Ifakara Health Institute, Dar Es Salaam, United Republic of Tanzania

1 p.m. 7263

SEMI-FIELD EVALUATIONS OF THE IMPACT OF NOVEL BITE PREVENTION INTERVENTIONS ON *ANOPHELES* MINIMUS LANDING AND KEY LIFE HISTORY TRAITS IN THAILAND

Elodie Vajda[1], Amanda Ross[2], Manop Saeung[3], Arissara Pongsiri[4], David McIver[5], Allison Tatarsky[5], Nakul Chitnis[2], Jeffrey Hii[5], Jason Richardson[6], Michael Macdonald[6], Sarah J. Moore[7], Neil F. Lobo[8], Theeraphap Chareonviriyaphap[3], Alongkot Ponlawat[4]
[1]University of Califonia, San Francisco/University of Basel/Swiss Tropical and Public Health Institute, San Francisco, CA, United States, [2]University of Basel/Swiss Tropical and Public Health Institute, Basel, Switzerland, [3]Kasetsart University, Bangkok, Thailand, [4]Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, [5]University of Califonia, San Francisco, San Francisco, CA, United States, [6]Innovative Vector Control Consortium, Liverpool, United Kingdom, [7]Ifakara Health Institute, Bagamoyo, United Republic of Tanzania, [8]University of Notre Dame/University of Califonia, San Francisco, Notre Dame, IN, United States

Symposium 173

Plasmepsin Inhibitors: Novel Mechanisms Leading to an Antimalarial Development Candidate

Regency Ballroom D - Ballroom Level (West Tower)
Sunday, October 22, 11:30 a.m. - 1:15 p.m. U.S. Central Time Zone

This session does not carry CME credit.

Phenotypic screens of an aspartyl protease inhibitor library identified potent plasmepsin X (an aspartic protease) hits. Potency, pharmacokinetics and pharmacodynamics properties were optimized by a medicinal chemistry program that yielded clinical candidate MK-7602, a potent dual plasmepsin IX (an aspartic protease related to plasmepsin X but having distinct protein substrates) and X inhibitor with robust *in vivo* efficacy against liver, blood, and transmission stages of the malaria parasite life cycle. This compound has an excellent resistance profile with a very high barrier to the selection of resistance by *P. falciparum* and has advanced into a first in human phase 1 clinical trial. Speakers will convey the biological advantages of targeting highly conserved plasmepsin enzymes that culminate in the discovery

of antimalarial drug candidate MK-7602. More specifically, data will be presented on: 1) the essential highly conserved molecular targets plasmepsin IX and X; 2) drug resistance in malaria and data describing the high barrier for the development of resistance in *P. falciparum* for dual targeting plasmepsin inhibitors; 3) data demonstrating robust long-lasting immunity in mice for liver-stage plasmepsin treated animals (ChemoVaccination), and how this sporozoite derived immunity could confer long lasting immunity against malaria clinically; 4) the breadth of spectrum of dual targeting plasmepsin inhibitors including activity against *P. falciparum*, P. vivax and P. knowlesi; 5) a detailed understanding of the in vivo pharmacokinetic and pharmacodynamic properties of plasmepsin inhibition, and; 6) how these parameters culminate in the discovery of and early clinical data for MK-7602.

CHAIR

Alan F. Cowman
The Walter and Eliza Hall Institute of Medical Research, Parkville, Australia

David Olsen
Merck and Co Inc, West Point, PA, United States

11:30 a.m.
INTRODUCTION

11:40 a.m.
DEVELOPMENT OF PLASMEPSIN IX/X DUAL INHIBITORS - BIOLOGY AND MECHANISM OF ACTION

Alan F. Cowman
WEHI, Parkville, Australia

Noon
DUAL PLASMEPSIN INHIBITORS: 3 STAGE MALARIA INHIBITORY POTENCY AND ROBUST *P. FALCIPARUM* RESISTANCE PROFILE

Paola Favuzza
The Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia

12:20 p.m.
CHALLENGES OF *P. VIVAX* MALARIA TREATMENT: PLASMEPSIN INHIBITOR PROFILING

Agnes Orbanova
Malaria Research Unit, Institut Pasteur du Cambodge, Phnom Penh, Cambodia

12:40 p.m.
SAFETY, TOLERABILITY, AND PHARMACOKINETICS OF THE ANTIMALARIAL MK-7602 IN HEALTHY PARTICIPANTS

Susan E. Stanley
Merck and Co Inc, Boston, MA, United States

1 p.m.
CHEMOVACCINATION: LIVER STAGE PLASMEPSIN INHIBITOR PHARMACOLOGY LEADING TO LONG LASTING IMMUNITY TO REINFECTION

Justin A. Boddey
The Walter and Eliza Hall Institute of Medical Research, Parkville, Australia

ASTMH 2023 Annual Meeting Adjourns

Sunday, October 22, 1:15 p.m. U.S. Central Time Zone

See you next year at the 2024 Annual Meeting

October 23-27, 2024 (Wednesday through Sunday)
New Orleans Ernest N. Morial Convention Center
New Orleans, Louisiana, United States

Presenter Index I:
Plenary, Symposium and Meet the Professors Sessions (Speakers and Session Chairs)

The number(s) following each individual's name indicates the session number.

See page 390 for the list of abstract authors of abstracts presented during Scientific Sessions and Poster Sessions.

Presenter Index I:
Plenary, Symposium and Meet the Professors Sessions (Speakers and Session Chairs)

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Presenter Index II:
Abstract Authors (Scientific Sessions and Poster Sessions)

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