8:10 p.m. PANEL DISCUSSION

Norman Beatty University of Florida, Gainesville, FL, United States Sarah Hamer Texas A&M University, College Station, TX, United States

Friday, October 20

Registration

Grand Ballroom Foyer - Ballroom Level (East Tower) Friday, October 20, 7 a.m. - 5 p.m. U.S. Central Time Zone

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

Grand Suite 2AB - Ballroom Level (East Tower) Friday, October 20, 7 a.m. - 5 p.m. U.S. Central Time Zone

TropStop -Student/Trainee Lounge

Grand Hall MN – Ballroom Level (East Tower) Friday, October 20, 7 a.m. - 5 p.m. U.S. Central Time Zone

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

Meeting Sign-Up Room

Horner and Ogden - Third Floor (West Tower) Friday, October 20, 7 a.m. - 7 p.m. U.S. Central Time Zone

Prayer Room

Hong Kong - Ballroom Level (West Tower) and Field - Third Floor (West Tower) Friday, October 20, 7 a.m. - 7 p.m. U.S. Central Time Zone

Nursing Mothers Room

Grand Suite 1 and Grand Suite 4 - Ballroom Level (East Tower) Friday, October 20, 7 a.m. - 7 p.m. U.S. Central Time Zone

Burroughs Wellcome Fund-ASTMH Fellowship Committee Meeting

Michigan Boardroom, Concourse Level, East Tower 7 a.m. - 8 a.m. U.S. Central Time Zone

Trainee Membership Committee Meeting

McCormick - Third Floor (West Tower) Friday, October 20, 7 a.m. – 8 a.m.

Sponsored Symposium

Chikungunya Virus: A Growing Preventable Risk to Travelers in a Warming Planet

Grand Hall J - Ballroom Level (East Tower) Friday, October 20, 7 a.m. - 8:45 a.m. United States Central Time Zone Sponsored by Medscape

See page 54 for information. This session does not carry ASTMH CME credit.

Sponsored Symposium

Climate Change and Malaria Elimination: Perspectives from the Ground

Grand Hall K - Ballroom Level (East Tower) Friday, October 20, 7 a.m. - 8:45 a.m. United States Central Time Zone Sponsored by Global Institute for Disease Elimination (GLIDE) See page 54 for information.

This session does not carry ASTMH CME credit.

Sponsored Symposium

Achieving Global Malaria Targets Relies on Quality Health Services: Lessons Learned and Results from PMI's Support for Quality Improvement of Healthcare Services for Malaria

Crystal Ballroom A - Lobby Level (West Tower) Friday, October 20, 7 a.m. - 8:45 a.m. United States Central Time Zone Sponsored by U.S. President's Malaria Initiative (PMI) Impact

Malaria See page 53 for information.

This session does not carry ASTMH CME credit.

Press Room

Randolph 1A - Concourse Level (East Tower) Friday, October 20, 7:45 a.m. - 5 p.m. U.S. Central Time Zone

Plenary Session 59

Plenary Session III: Commemorative Lecture

Grand Ballroom CDEF - Ballroom Level (East Tower) Friday, October 20, 9 a.m. - 9:45 a.m. U.S. Central Time Zone

The Commemorative Lecture is presented by an outstanding senior scientist in tropical medicine.

<u>CHAIR</u> Daniel G. Bausch *FIND, Geneva, Switzerland*

9 a.m. INTRODUCTION

Daniel G. Bausch FIND, Geneva, Switzerland

9:15 a.m. COMMEMORATIVE LECTURE



Oluwakemi Ogundipe, MD, MPH

Pediatric Advisor Médecins Sans Frontières/Doctors without Borders (MSF) Brussels, Belgium

Kemi Ogundipe, MD, MPH is the pediatric advisor for Médecins Sans Frontières/Doctors without Borders (MSF) based in Brussels. In this role she has been supporting their pediatric care programs globally since 2018 by advising MSF projects on the organization and quality of their pediatric care and contributing to MSF guidelines that are used for neonatal and pediatric care worldwide. Previously, Dr. Ogundipe worked extensively in MSF projects, both as a pediatric mobile implementing officer and project doctor. She is from Lagos, Nigeria where she lived until her completion of secondary school. She has also lived in the USA and currently resides in Brussels, Belgium. She is an alumnus of Duke University School of Medicine. She completed her pediatric training at Baylor College of Medicine in a specialized training program focused on global health and pediatric HIV and TB. She holds a master's in public health from the University of North Carolina, Chapel Hill, with a concentration in maternal and child health. She has practiced as a pediatrician in Botswana, Lesotho, South Sudan, Tanzania, Papua New Guinea and Saipan (US Territory). Over the past year, she has traveled to Haiti, Niger, Benin and Nigeria, directly supporting MSF's pediatric care activities and has contributed to the newlyreleased first edition of the MSF international pediatric guidelines. Her interests are in pediatric HIV and TB, neonatal care, malaria, childhood malnutrition, preventive health and healthcare system improvements.

Exhibit Hall Open

Riverside Center - Exhibit Level (East Tower) Friday, October 20, 9:30 a.m. - 10:30 a.m. U.S. Central Time Zone

Coffee Break

Riverside Center - Exhibit Level (East Tower) Friday, October 20, 9:45 a.m. - 10:15 a.m. U.S. Central Time Zone

Poster Session B Set-Up

Riverside Center - Exhibit Level (East Tower) and Grand Hall GHI – Ballroom Level (East Tower) Friday, October 20, 9:45 a.m. - 10:15 a.m.

Poster Session B Viewing

Riverside Center - Exhibit Level (East Tower) and Grand Hall GHI – Ballroom Level (East Tower) Friday, October 20, 10:15 a.m. - Noon

Symposium 60

A Scientist's Cheat Sheet to Understanding Washington, DC

Grand Ballroom A - Ballroom Level (East Tower) Friday, October 20, 10:15 a.m. - Noon

Every day, research, program, funding, and policy decisions are being made at the U.S. federal lev-el. Whether you realize it or not, you are directly or indirectly impacted by these decisions. To many, Washington, DC, and this process can seem utterly chaotic. When examined more closely, that chaos is built into the system and has a surprisingly regular order to its ebb and flow. This session will focus on understanding the policymaking ecosystem in Washington, DC. Topics will include how Congress really works (yes, it can really work), how a bill becomes a law, the White House and federal agency's roles in policymaking, the ever-present power struggles, and most common breakdowns in the process. What are the roles of coalitions and professional societies like ASTMH in speaking up for the science community? In these trying times, do these longstand-ing models work? What is the role of social media in advocacy? What impact does a new owner of a social media platform have on you as a user? How can you use social media to convey the value of your work?

<u>CHAIR</u>

Karen A. Goraleski

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

10:15 a.m. INTRODUCTION

10:20 a.m.

THE IMPORTANCE OF UNDERSTANDING WASHINGTON AND HOW POLICY IS MADE

Karen A. Goraleski

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

10:35 a.m.

HOW DOES WASHINGTON REALLY WORK AND WHAT IS THE US ROLE IN GLOBAL HEALTH RESEARCH FUNDING?

Venable LLP, Washington, DC, United States

10:50 a.m.

A WINDOW INTO ADVOCACY - A LIVED EXPERIENCE Margaret McDonnell

United to Beat Malaria, UN Foundation, Washington, DC, United States

11:05 a.m.

USING SOCIAL MEDIA STRATEGICALLY AND EFFECTIVELY Gideon Hertz Burness, Bethesda, MD, United States

11:20 a.m.

TRANSLATING SCIENCE INTO KEY MESSAGES FOR POLICYMAKERS Daniel G. Bausch FIND, Geneva, Switzerland

Symposium 61

Benefits and Challenges of WHO Chemoprevention Guidelines Giving Increased Autonomy for Decision Making to Countries

Grand Ballroom B - Ballroom Level (East Tower) Friday, October 20, 10:15 a.m. - Noon U.S. Central Time Zone

In June 2022 WHO released updated recommendations for malaria chemoprevention. According to presentations shared by WHO, the updated recommendations reflected a paradigm shift to provide greater flexibility to NMPs to adapt control strategies to suit their settings. This means there is more decision-making happening at the county level when determining the exact modalities to be used for interventions such as perennial malaria chemoprevention (PMC), which is the expanded recommendation replacing the previous intermittent preventive treatment in infants. This shift presents both opportunities and challenges for countries that are early adopters of PMC. For example, countries need to determine how to adapt these more permissive recommendations, often without having the full set of ideal data available. Countries may also grapple with when, where, and how to scale different chemoprevention strategies - balancing decisions around cost, effectiveness, and practicality all while trying to maximize impact at a time when resources for malaria are flat despite the urgent need. This symposium brings together different perspectives and recent experience on adapting chemoprevention guidelines and will bring to light benefits and challenges resulting from the 2022 updated WHO chemoprevention guidelines. The symposia will start with an orientation on WHO's revised chemoprevention recommendations and the process of revision. A speaker from the MoH in Cameroon will share his experiences with the process to adapt and integrate chemoprevention into their sub-nationally tailored plans. Next a speaker from PATH will share how the role of NGOs may be changing as a result of WHO's more flexible guidelines, and a speaker from MMV will share results from forecasting work designed to understand the potential demand for

SP for PMC. Finally, a speaker from Malaria Consortium will share how more flexibility in guidelines is creating the opportunity for the chemoprevention community to share and learn.

<u>CHAIR</u>

Jacques Kouakou Population Services International, Abidjan, Côte D'Ivoire

10:15 a.m. INTRODUCTION

10:20 a.m.

BACKGROUND ON WHO DECISION TO INCREASE COUNTRY ADAPTED CHEMOPREVENTION DESIGNS

Dorothy Fosah Achu WHO AFRO, Brazzaville, Republic of the Congo

10:30 a.m.

OPTIMIZING THE CHEMOPREVENTION MIX (PMC AND SMC) IN CAMEROON

Junior Voundi Voundi National Malaria Control Program, Yaounde, Cameroon

10:40 a.m.

THE EVOLVING ROLE OF NGOS: FROM IMPLEMENTORS TO FACILITATORS? Rova Ratsimandisa

Rova Ratsimandisa PATH, Kinshasa, Democratic Republic of the Congo

10:50 a.m.

PMC FORECAST: ESTIMATE THE POTENTIAL DEMAND FOR PMC SP FOR A NUMBER OF PREDEFINED SCENARIOS

Céline Audibert Medicines for Malaria Venture, Geneva, Switzerland

11 a.m.

OPPORTUNITIES FOR LEARNING THROUGH A COMMUNITY OF PRACTICE: HOW FLEXIBLE AND ADAPTABLE GUIDELINES CREATE OPPORTUNITIES FOR LEARNING AND RAPID IMPROVEMENT IN IMPLEMENTATION

Olusola Oresanya Malaria Consortium, Abuja, Nigeria

Symposium 62

Cash for Climate? The Role of Funders and Upstream Stakeholders in Promoting Environmental Sustainability in Global Health Research

Grand Hall J - Ballroom Level (East Tower) Friday, October 20, 10:15 a.m. - Noon U.S. Central Time Zone

Climate change is here and we are feeling its consequences for water, food security, ecosystems, and human health. However, little attention has been paid to the role academic funders have in shaping sustainable research practices. Funders have a unique opportunity to accelerate the decarbonization of global health. Our collective carbon footprint is significant. Greenhouse gasses are emitted from the energy used to power hospitals, labs, and data centers, from the fuel burned from commuting and air travel, and the carbon in the equipment and consumables we purchase. Institutions across the globe are defining their climate ambitions

for the coming decades, with several committing to net-zero targets before 2050. Funders can stimulate these ambitions by influencing expectations and standards in the working culture of the academic sector. By committing to reduce emissions from their own operations and valuing the efforts of grantee institutions to decarbonize, funders could accelerate the decarbonization of global health. Such efforts would need to take into account the different settings of institutions in high-, and low- and middleincome countries, with funders requiring, incentivizing and supporting grantee institutions in the transition to low-carbon operations in accordance with these contexts. Leadership from funders can help us to rapidly and substantially decarbonize global health. Panelists will discuss sustainability policies and operations in their institutions and what they see as the key next steps in our collective work. Hosted by the Green Task Force, this panel seeks to promote honest dialogue about climate change and our "bottom line" as individual researchers and a collective Society.

<u>CHAIR</u>

Hanna Ehrlich University of California Davis, Davis, CA, United States Michele Barry Stanford University, Palo Alto, CA, United States

10:15 a.m. INTRODUCTION

10:25 a.m.

ADVANCING ENVIRONMENTALLY SUSTAINABLE HEALTH RESEARCH Talia Caplan Wellcome Trust, London, United Kingdom

10:35 a.m.

CLEAN MODERN ENERGY FOR ALL: BENEFITING HEALTH, SOCIETY, ENVIRONMENT, AND CLIMATE IN SUB-SAHARAN AFRICA TO ACHIEVE THE 2030 SUSTAINABLE DEVELOPMENT GOALS James Mwitari

Kenya Medical Research Institute, Nairobi, Kenya

10:45 a.m.

PARTNERSHIPS AROUND CLIMATE CHANGE – LEARNING FROM THE COVID ERA Liam Smeeth

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

10:55 a.m. ASTMH GREEN TASK FORCE

Hanna Ehrlich

University of California Davis, Davis, CA, United States



Malaria - Antimalarial Resistance and Chemotherapy

Grand Ballroom CDEF - Ballroom Level (East Tower) Friday, October 20, 10:15 a.m. - Noon U.S. Central Time Zone

This session does not carry CME credit.

CHAIR

Thuy-Nhien Nguyen Oxford University Clinical Research Unit, Ho Chi Minh City, Vietnam

Carola Salas ASTMH Scientific Program Committee, Lima, Peru

10:15 a.m.

5758

ELUCIDATING THE INTERACTIONS OF PFCRT AND PLASMEPSINS 2/3 IN MODULATING FITNESS AND RESISTANCE IN *PLASMODIUM FALCIPARUM* TO PIPERAQUINE AND OTHER ARTEMISININ PARTNER DRUGS

Davin Hong¹, Satish K. Dhingra², Tomas Yeo², David A. Fidock², Sachel Mok² ¹Nanyang Technological University, Singapore, Singapore, ²Columbia University Irving Medical Center, New York, NY, United States

10:30 a.m.

5759

UNDERSTANDING LEAD DISCOVERY ANTIMALARIAL DRUGS RESISTANCE TRANSLATION FROM LAB TO FIELD PARASITES TOWARD SUSTAINABLE MALARIA ELIMINATION

Fatoumata O. Maiga, Laurent Dembélé, Mohamed Maiga, Ousmaila Diakité, Fanta Sogoré, Sekou Sissoko, Antoine Dara, Abdoulaye A Djimde

Université des Sciences, des Techniques et des Technologies de Bamako (USTTB), Faculté de Pharmacie, Malaria Research and Training Center (MRTC), Point G. PBE : 1805., Bamako, Mali

10:45 a.m.

Switzerland

5760

CONFIRMED ARTEMISININ PARTIAL RESISTANCE AND HIGH EFFICACY OF ARTEMETHER - LUMEFANTRINE AND ARTESUNATE - AMODIAQUINE FOR THE TREATMENT OF UNCOMPLICATED PLASMODIUM FALCIPARUM MALARIA IN NORTH-WESTERN TANZANIA

Deus S. Ishengoma¹, Celine I. Mandara¹, Rashid Madebe¹, Catherine Bakari¹, Misago D. Seth¹, Filbert Francis², Creyton Buguzi¹, Issa Garimo³, Samwel Lazaro⁴, Abdallah Lusasi⁴, Sijenunu Aron⁴, Frank Chacky⁴, Ally Mohamed⁴, Ritha J.A Njau⁵, Jovin Kitau⁶, Jeffrey Bailey⁷, Jonathan Juliano⁸, Marian Warsame⁹, Pascal Ringwald¹⁰ ¹National Institution for Medical Research, Dar es Salaam, United Republic of Tanzania, ²National Institution for Medical Research, Tanga, United Republic of Tanzania, ³National Malaria Control Program, Dodoma, United Republic of Tanzania, ⁴National Malaria Control Program, Dar es Salaam, United Republic of Tanzania, ⁴Mational Malaria Control Program, Dar es Salaam, United Republic of Tanzania, ⁴Mational Salam, United Republic of Tanzania, ⁴Mational Malaria Control Program, Dar es Salaam, United Republic of Tanzania, ⁴Mational Malaria Control Program, Dar es Salaam, United Republic of Tanzania, ⁴Mational Malaria Control Program, Dar es Salaam, United Republic of Tanzania, ⁴Mational Malaria Control Program, Dar es Salaam, United Republic of Tanzania, ⁴Mational Malaria Control Program, Dar es Salaam, United Republic of Tanzania, ⁴Mationel Multer Health Specialist, Dar es Salaam, United Republic of Tanzania, ⁴Molath Organization, Country Office, Dar es Salaam, United Republic of Tanzania, ⁴Department of Pathology and Laboratory Medicine and Center for Computational Biology, Brown University, Providence, USA, RI, United States, ⁸University of North Carolina, Chapel Hill, NC, United States, ⁹Gothenburg University, Gothenburg, Sweden, ¹⁰World Health Organization, Geneva, 11 a.m.

5761

A RAPID DECLINING OF MULTIDRUG RESISTANT KEL1/PLA1 PLASMODIUM FALCIPARUM PARASITE IN VIETNAM DURING 2020-2022, A RESULT OF DRUG POLICY CHANGE

Thuy-Nhien Nguyen¹, Huynh Hong Quang², Tuyen Nguyen¹, Nhat Tran¹, Olivo Miotto³ ¹Oxford University Clinical Research Unit, Ho Chi Minh City, Vietnam, ²Institute of Malariology, Parasitology and Entomology -Quy Nhon, Binh Dinh, Vietnam, ³Mahidol Oxford Research Unit and Oxford University, Bangkok, Thailand

11:15 a.m.

5762

ASSOCIATIONS BETWEEN SULFADOXINE-PYRIMETHAMINE+ AMODIAQUINE CONCENTRATIONS, MALARIA INCIDENCE, AND RESISTANCE MARKERS IN CHILDREN RECEIVING SEASONAL MALARIA CHEMOPREVENTION IN BURKINA FASO

Issaka Zongo¹, Alassane Haro¹, **Michelle E. Roh**², Romaric Oscar Zerbo¹, Liusheng Huang³, Aristide Sawadogo¹, Jennifer Legac⁴, Anyirékun Fabrice Somé¹, Rakiswendé Serge Yerbanga¹, Erika Wallender³, Francesca Aweeka³, Jean-Bosco Ouédraogo⁵, Philip J. Rosenthal⁴

¹Institut de Recherche en Sciences de la Santé, Bobo-Dioulasso, Burkina Faso, ²Department of Epidemiology and Biostatistics, University of California, San Francisco, San Francisco, CA, United States, ³Department of Clinical Pharmacy, University of California, San Francisco, San Francisco, CA, United States, ⁴Department of Medicine, University of California, San Francisco, San Francisco, CA, United States, ⁵Institut des Sciences et Techniques, Bobo-Dioulasso, Burkina Faso

11:30 a.m.

5763

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

Gina Maria Cuomo-Dannenburg¹, Andria Mousa², Sam Gudoi³, Kevin Baker³, Maria Suau Sans³, Chuks Nnaji³, John Baptist Bwanika³, Ivan Alejandro Pulido Tarquino³, Christian Rassi³, Monica A. de Cola¹, Craig Bonnington³, Robert Verity¹, Matthew Cairns², Paul Milligan², Cally Roper², Lucy Okell¹, Patrick G T Walker¹

¹Imperial College London, London, United Kingdom, ²London School of Hygiene & Tropical Medicine, London, United Kingdom, ³Malaria Consortium, London, United Kingdom

11:45 a.m. Lightning Talks

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

6770

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

Coulibaly Oumou

University of Sciences, Technics and Technology of Bamako, Mali, Bamako, Mali

6771

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

Mohamed MAIGA¹, Antoine Dara¹, Devendra Kumar Gupta², Abdoulaye Djimdé¹, Laurent Dembele¹

¹Université des Sciences des Techniques et des Technologies de Bamako (USTTB), Bamako, Mali, ²Novartis Institute for Tropical Diseases, California, CA, United States

MOLECULAR SURVEILLANCE OF *PLASMODIUM FALCIPARUM* DRUG RESISTANCE REVEALS PRESENCE OF 1431 V DHPS MUTATION IN PARASITES HARBORING QUINTUPLE AND QUADRUPLE DHPS MUTATIONS IN SENEGAL

Mouhamad Sy¹, Yaye Die Ndiaye¹, Wesley Wong², Mamadou Alpha Diallo¹, Amy Gaye¹, Tolla Ndiaye¹, Aida Sadikh Badiane¹, Baba Dieye¹, Ibrahima Mbaye Ndiaye¹, Younousse Diedhiou¹, Amadou Moctar Mbaye¹, Aita Sene¹, Djiby Sow¹, Lamine Ndiaye¹, Khadim Diongue¹, Mamane Nassirou Garba¹, Mouhamadou Ndiaye¹, Bronwyn MacInnis³, Dyann F. Wirth¹, Sarah K. Volkman², Daouda Ndiaye¹

¹International Research and Training Center for Applied Genomics and Health Surveillance (CIGASS) at UCAD, Dakar, Senegal, ²Harvard T.H. Chan School of Public Health, Boston, MA, United States, ³Broad Institute of MIT and Harvard, Cambridge, MA, United States

6788

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

Margarida T. Grilos¹, Ines Marreiros¹, Malhar Khushu², Selina Bopp², David Calvo¹, David Cebrián¹, Carmen Cuevas¹, Sara Viera-Morilla¹, Dyann F. Wirth², Maria Jose Lafuente-Monasterio¹, Amanda K. Lukens²

¹GlaxoSmithKline, Tres Cantos, Spain, ²Harvard T.H. Chan School of Public Health, Boston, MA, United States, ³Broad Institute of MIT and Harvard, Cambridge, MA, United States

6784

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

Martin Okitwi¹, Douglas A. Shoue², Lisa A. Checkley², Mackenzie A.C. Sievert², Frida G. Ceja³, Patrick K. Tumwebaze⁴, Jeffrey A. Bailey⁵, Melissa D. Conrad⁶, Philip J. Rosenthal⁷, Michael T. Ferdig², Roland A. Cooper³

¹Infectious Disease Research Collaboration, Kampala, Uganda, ²University of Notre Dame, South Bend, IN, United States, ³Dominican University of California, San Rafael, CA, United States, ⁴Infectious Diseases Research Collaboration, Kampala, Uganda, ⁵Brown University, Providence, RI, United States, ⁶3University of California, San Francisco, CA, United States, ⁷University of California, San Francisco, CA, United States

Symposium 64

Advances in Treatment and Diagnostics for Disease Caused by Pathogenic Free - Living Amoebae

Grand Hall K - Ballroom Level (East Tower) Friday, October 20, 10:15 a.m. - Noon U.S. Central Time Zone

Infections with pathogenic free-living amoebae (FLA) yield higher fatality rates (>90%) than any eukaryotic parasite, yet they remain the least studied of all tropical diseases of humankind. Each of the amoebae are normally free-living and are ubiquitous in warm fresh water and soil. Naegleria fowleri causes Primary Amoebic Meningoencephalitis (PAM), an acute, uniformly fatal central nervous system (CNS) infection that ensues following entry of the amoebae into the nasal cavity. Balamuthia mandrillaris is a chronic infection and causes cutaneous lesions followed by hematogenous spread to the brain that results in Balamuthia Amoebic Encephalitis (BAE). Acanthamoeba keratitis (AK) is the most prevalent of any infection with FLA, yet Acanthamoeba spp. also can cause a chronic deadly CNS infection known as Granulomatous Amoebic Encephalitis (GAE). The purpose of this symposium is to review the significant and impactful new results that demonstrate new treatments and novel biomarkers of infection. Treatment of BAE usually consists of a cocktail of antibiotics and antifungals, but efficacy is poor and unfortunately results in death of most BAE patients. A remarkable case study

will be presented that demonstrates a paradigm shift in treatment regimens for FLA. Nitroxoline, a repurposed drug for urinary tract infections, was identified in an in vitro drug screen and then used to successfully treat a BAE patient. One of the many unknowns about N. fowleri is why some individuals get infected, whereas millions of people are similarly exposed. We will present new data that demonstrate some isolates of N. fowleri are significantly more virulent than others. In addition, we will describe a novel biomarker in plasma or serum that can be used to detect N. fowleri infection 2-3 days before animals exhibit signs of infection. A major impediment to validation of drug targets and elucidation of N. fowleri biology is the lack of genetic tools. Recent advances in genome editing will be described as will a new target for drug discovery for PAM therapeutics. Finally, Acanthamoeba infections are difficult to treat in part because the amoeba encyst in the CNS or cornea and these forms are highly resistant to commonly used drugs and biocides. Recent studies suggest that methods commonly used to assess killing of cysts overestimate efficacy. New methods to discover cysticidal activity will be presented as well as new cysticidal and trophocidal drugs will be profiled.

<u>CHAIR</u>

Dennis E. Kyle University of Georgia, Athens, GA, United States James Morris Clemson University, Clemson, SC, United States

10:15 a.m. INTRODUCTION

10:25 a.m.

CASE STUDY OF NITROXOLINE FOR TREATMENT OF BALAMUTHIA GRANULOMATOUS ENCEPHALITIS

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

10:50 a.m.

VARIATIONS IN VIRULENCE AND DISCOVERY OF EARLY BIOMARKERS FOR PRIMARY AMOEBIC MENINGOENCEPHALITIS

Dennis E. Kyle University of Georgia, Athens, GA, United States

11:15 a.m.

ADVANCES IN DRUG DISCOVERY AND TOOL DEVELOPMENT FOR NAEGLERIA FOWLERI

James Morris Clemson University, Clemson, SC, United States

11:40 a.m.

CYSTICIDAL DRUGS FOR THE TREATMENT OF ACANTHAMOEBA KERATITIS

Christopher A. Rice

Purdue University, West Lafayette, IN, United States

Scientific Session 65

Filariasis - Epidemiology and Control

Grand Hall L - Ballroom Level (East Tower) Friday, October 20, 10:15 a.m. - Noon U.S. Central Time Zone

<u>CHAIR</u>

Kenneth Pfarr Institute of Medical Microbiology, Immunology and Parasitology, University Hospital Bonn, Bonn, Germany

Jesica Herrick University of Illinois at Chicago, Chicago, IL, United States

10:15 a.m.

5764

WUCHERERIA BANCROFTI MICROFILARIAE POSITIVE INDIVIDUALS SHOW AN INCREASED HUMAN IMMUNODEFICIENCY VIRUS INCIDENCE IN A GENERAL POPULATION STUDY IN SOUTHWEST TANZANIA

Jonathan L. Mnkai¹, Manuel Ritter², Lucas Maganga¹, Leonard Maboko³, Willyhelmina Olomi¹, Agola Eric Lelo⁴, Daniel Kariuki^s, Alexander Yaw Debrah⁶, Christof Geldmacher⁷, Michael Hoelscher⁷, Elmar Saathoff⁷, Mkunde Chachage¹, Kenneth Pfarr², Achim Hoerauf², Inge Kroidl⁷

¹National Institute for Medical Research, Mbeya Medical Research Centre (NIMR-MMRC), Mbeya, United Republic of Tanzania, ²Institute for Medical Microbiology, Immunology and Parasitology (IMMIP), University Hospital Bonn (UKB), 53127, Bonn, Germany, ³Tanzania Commission for AIDS, Dar es Salaam, United Republic of Tanzania, ⁴Kenya Medical Research Institute (KEMRI), KNH, Nairobi, Kenya, ⁵College of Health Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Nairobi, Kenya, ⁶Kumasi Centre for Collaborative Research (KCCR), Kwame Nkrumah University of Science and Technology, UPO, PMB, Kumasi, Ghana, ⁷Division of Infectious Diseases and Tropical Medicine, University Hospital of the University of Munich (LMU), 80802, Munich, Germany

10:30 a.m.

5765

DEVELOPING THE NATURAL PRODUCT CORALLOPYRONIN A TO TREAT FILARIASIS, STIS AND STAPHYLOCOCCI

Kenneth Pfarr¹, Andrea Schiefer¹, William Shafer², Jennifer Edwards³, Tim Becker¹, Gabriele Bierbaum¹, Stefan Kehraus⁴, Miriam Grosse⁵, Alexandra Ehrens¹, Tanja Schneider⁴, Katharina Rox⁵, Marc P. Hübner¹, Karl G. Wagner⁴, Thomas Hesterkamp⁶, Marc Stadler⁵, Achim Hoerauf¹

¹University Hospital Bonn, Bonn, Germany, ²Emory Univeristy, Atlanta, GA, United States, ³Nationwide Children's Hospital, Columbus, OH, United States, ⁴University of Bonn, Bonn, Germany, ⁵Helmholtz Centre for Infection Research, Braunschweig, Germany, ⁶German Center for Infection Research, Braunschweig, Germany

10:45 a.m.

5766

ANIMALS AS RESERVOIR OF *BRUGIA MALAYI* IN BELITUNG DISTRICT, INDONESIA, AS A POTENTIAL THREAD FOR THE ELIMINATION OF LYMPHATIC FILARIASIS IN HUMANS

Taniawati Supali¹, I Made Suhermanta², Peter U. Fischer³ ¹University of Indonesia, Jakarta, Indonesia, ²District Health Office, Belitung, Indonesia, ³Washington University School of Medicine, St. Louis, MO, United States

11 a.m.

5767

SPATIAL ANALYSIS OF THE RELATIONSHIP OF ONCHOCERCA VOLVULUS EXPOSURE BETWEEN HUMANS AND BLACK FLIES IN ETHIOPIA

Caitlin Duffy', Emily Griswold², Fikresilasie Samuel³, Fikre Seife⁴, Sindew Mekasha⁵, Zerihun Tadesse³, Frank O. Richards², Gregory S. Noland², Jenna E. Coalson² 'Emory University, Atlanta, GA, United States, ²The Carter Center, Atlanta, GA, United States, ³The Carter Center, Addis Ababa, Ethiopia, ⁴Federal Ministry of Health, Addis Ababa, Ethiopia, ⁵Ethiopia Public Health Institute, Addis Ababa, Ethiopia

11:15 a.m.

5768

CHALLENGES OF APPLICATION OF THE WHO ONCHOCERCIASIS TECHNICAL ADVISORY SUBGROUP-PROPOSED THRESHOLD FOR INITIATING MASS DRUG ADMINISTRATION AGAINST ONCHOCERCIASIS IN ETHIOPIA

Yewondwossen Bitew¹, Emily Griswold², Aderajew Mohammed¹, Kadu Meribo³, Jenna E. Coalson², Tewodros Seid¹, Tekola Endeshaw¹, Desalegn Jemberie¹, Fikresilasie Samuel¹, Firdaweke Bekele¹, Tadese Asmare¹, Henok Birhanu¹, Adane Yayeh¹, Geremew Haileyesus¹, Anley Haile¹, Sindew Mekasha⁴, Fikre Seife³, Zerihun Tadesse¹, Gregory S. Noland², Frank O. Richards, Jr.²

¹The Carter Center, Addis Ababa, Ethiopia, ²The Carter Center, Atlanta, GA, United States, ³Federal Ministry of Health, Addis Ababa, Ethiopia, ⁴Ethipia Public Health Research Institute, Addis Ababa, Ethiopia

11:30 a.m.

5769

MONITORING IMPACT OF THREE ROUNDS OF MASS DRUG ADMINISTRATION IN EIGHT HIGH-RISK VILLAGES USING A THREE-DRUG REGIMEN ON LYMPHATIC FILARIASIS IN AMERICAN SAMOA

Tara A. Brant¹, Aifili Tufa², Fara Utu², Noelle Tavale², Lynette Suiaunoa-Scanlan³, Ula Pele³, Maopa Lewabeci², Benjamin Sili², Emily A. Dodd¹, Hong Zhou¹, Janet M. Camacho⁴, Emi Chutaro⁴, Kimberly Y. Won¹, Motusa T. Nua²

¹US Centers for Disease Control and Prevention, Atlanta, GA, United States, ²American Samoa Department of Health, Pago Pago, American Samoa, ³Pacific Island Health Officers' Association, Pago Pago, American Samoa, ⁴Pacific Island Health Officers' Association, Honolulu, HI, United States

11:45 a.m.

5770

RATE OF ONCHOCERCA VOLVULUS MICROFILARIAE IN NODULE CARRIERS IN VILLAGES UNDER MASS DRUG ADMINISTRATION IN FUAMAH DISTRICT, LIBERIA

Cooper Sannah¹, Abakar Gankpala², Nicole Fetcho³, Lincoln Gankpala², Aaron T. Momolu², Edward B. Guizie¹, Bindu Taweh¹, Evon Vesselee⁴, Kasor Kollie⁵, Gary J. Weil³, Peter U. Fischer⁶, Patrick N. Kpanyen¹

¹National Public Health Institute of Liberia, Monrovia, Liberia, ²National Public Health Institute of Liberia, Charlesville, Liberia, ³Washington University School of Medicine, Saint Louis, MO, United States, ⁴Family Health, Ministry of Health, Monrovia, Liberia, ^sNTD team, Ministry of Health, Monrovia, Liberia, ^sWashington University School of Medicine, St. Louis, MO, United States

Scientific Session 66

Schistosomiasis I

Plaza Ballroom - Lobby Level (East Tower) Friday, October 20, 10:15 a.m. - Noon U.S. Central Time Zone

<u>CHAIR</u>

Oyime Poise Aula QIMR Berghofer Medical Research Institute, Herston, Australia Aniruddh Sarkar Georgia Institute of Technology, Atlanta, GA, United States

WHOLE-GENOME SCAN OF AFRICAN SNAIL VECTORS IDENTIFIES GENES ASSOCIATED WITH RESISTANCE TO INFECTION BY SCHISTOSOMES

Jacob A. Tennessen¹, Tom Pennance², Johannie Spaan², Tammie McQuistan², George Ogara³, Fredrick Rawago³, Martin Mutuku³, Gerald M. Mkoji³, Eric S. Loker⁴, Maurice Odiere³, Michelle L. Steinauer²

¹Department of Immunology and Infectious Diseases, Harvard T.H. Chan School of Public Health, Boston, MA, United States, ²College of Osteopathic Medicine of the Pacific – Northwest, Western University of Health Sciences, Lebanon, OR, United States, ³Center for Biotechnology Research and Development, Kenya Medical Research Institute (KEMRI), Nairobi, Kenya, ⁴Department of Biology, Center for Evolutionary and Theoretical Immunology, Parasite Division Museum of Southwestern Biology, University of New Mexico, Albuquerque, NM, United States

10:30 a.m.

5772

GENOMIC EPIDEMIOLOGY OF THE CARCINOGENIC LIVER FLUKE OPISTHORCHIS VIVERRINI

Thomas Crellen¹, Opal Pitaksakulrat², Arporn Wangwiwatsin², Peter Odermatt³, Somphou Sayasone⁴, Poppy H.L. Lamberton¹, Matthew Berriman¹, T. D. Hollingsworth⁵, Paiboon Sithithaworn²

¹University of Glasgow, Glasgow, United Kingdom, ²Khon Kaen University, Khon Kaen, Thailand, ³Swiss TPH, Basel, Switzerland, ⁴Lao TPHI, Vientiane, Lao People's Democratic Republic, ⁵University of Oxford, Oxford, United Kingdom

10:45 a.m.

5773

TEST-TREAT-TRACK-TEST-TREAT (5T) APPROACH FOR BREAKING SCHISTOSOMIASIS TRANSMISSION

Lydia Trippler¹, Lyndsay Taylor¹, Mohammed N. Ali², Jan Hattendorf¹, Saleh Juma³, Fatma Kabole⁴, Said M. Ali², Stefanie Knopp¹

¹Swiss Tropical and Public Health Institute, Allschwil, Switzerland, ²Public Health Laboratory - Ivo de Carneri, Wawi, Chake Chake, Pemba, United Republic of Tanzania, ³Neglected Diseases Programme, Zanzibar Ministry of Health, Mkoroshoni, Pemba, United Republic of Tanzania, ⁴Neglected Diseases Program, Zanzibar Ministry of Health, Lumumba, Unguja, United Republic of Tanzania

11 a.m.

5774

CHARACTERIZATION AND PROCESS DEVELOPMENT OF SERINE PROTEASE INHIBITOR: A NEXT GENERATION TRANSMISSION-BLOCKING VETERINARY MRNA VACCINE FOR ASIATIC SCHISTOSOMIASIS

Adebayo J. Molehin¹, Brooke Hall¹, Christine Lee¹, Sean A. Gray², Darrick Carter² ¹Midwestern University, Glendale, AZ, United States, ²PAI Life Sciences Inc, Seattle, WA, United States

11:15 a.m.

5775

SCHISTOSOMA JAPONICUM CHALLENGE INFECTION MODEL IN CARABAOS (PHILIPPINE WATER BUFFALO) FOR THE PLACEBO-CONTROLLED TRIAL OF THE SJ97 AND SJ68 VACCINE CANDIDATES

Mario L. Jiz¹, Daria L. Manalo¹, John Ezra David dela Cruz¹, Joseph Valencia¹, Sarah Li², Jonathan D. Kurtis³, Hannah W. Wu³

¹Research Institute for Tropical Medicine, Muntinlupa City, Philippines, ²Biomedical Research Institute, Rockville, MD, United States, ³Warren Alpert Medical School at Brown University, Providence, RI, United States

11:30 a.m.

5776

TWO KEY ACTINOBACTERIA GENERA BIFIDOBACTERIUM AND COLLINSELLA IN THE HUMAN GUT MICROBIOTA ARE DIFFERENTIALLY ASSOCIATED WITH SCHISTOSOMA MANSONI INFECTION BURDEN

Francis Ankomah Appiah-Twum¹, Jewelna Akorli¹, Lydia Okyere², Hilda Darko¹, Michael Wilson¹

¹Noguchi Memorial Institute For Medical Research, Legon, Accra, Ghana, ²University of Illinois Urbana-Champaign, Chicago, IL, United States

11:45 a.m.



PREVALENCE AND DISTRIBUTION OF FEMALE GENITAL SCHISTOSOMIASIS (FGS) ACROSS THREE ENDEMIC COUNTRIES, TIMELINE, AND AGE GROUPS

Navneet Kaur, **Nilanjan Lodh**

Marquette University, Milwaukee, WI, United States

Symposium 67

Chagas Disease: Best Practices for Clinical Care

Crystal Ballroom A - Lobby Level (West Tower) Friday, October 20, 10:15 a.m. - Noon U.S. Central Time Zone

Chagas disease remains underdiagnosed, particularly in nonendemic countries, and even in countries with high endemicity it is undertreated. Of the estimated 6 million individuals living with Chagas disease, less than 1% have received antiparasitic therapy. This symposium will highlight the best practices for diagnosis and treatment for the typical presentations of Chagas disease, including congenital, pediatric, adult indeterminate chronic phase, and reactivation of Chagas disease in the immunosuppressed host. Cardiac manifestations of Chagas disease will be discussed by a cardiologist, Dr. Rachel Marcus. The symposium will address the clinical aspects of Chagas Disease.

<u>CHAIR</u>

David Hamer

Center for Emerging Infectious Disease Research and Policy, Boston University School of Public Health, Boston, MA, United States

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

10:15 a.m. INTRODUCTION

10:25 a.m.

CONGENITAL AND PEDIATRIC CHAGAS DISEASE: SCREENING, MANIFESTATIONS, AND TREATMENT

Hospital de Niños R. Gutierrez, Buenos Aires, Argentina

10:45 a.m.

REACTIVATION OF CHAGAS DISEASE IN THE IMMUNOSUPPRESSED PATIENT

Maria Aparecida Shikanai-Yasuda Faculdade de Medicina, University of Sao Paulo, Sao Paulo, Brazil

11:05 a.m.

TO TREAT OR NOT TO TREAT IN CHAGAS DISEASE, THAT IS THE QUESTION!

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

11:25 a.m.

CARDIAC MANIFESTATIONS OF CHAGAS DISEASE: THE GREAT IMITATOR

Rachel Marcus LASOCHA, Washington, DC, United States

11:45 a.m.

MODERATOR, PANEL DISCUSSION David H. Hamer Center for Emerging Infectious Disease Research and Policy, Boston University School of Public Health, Boston, MA, United States

Meet the Professors Session 68 Meet the Professors Session B - Dangerous Zebras: Will You Be Ready When A Special Pathogen Comes To Town?

Crystal Ballroom B - Lobby Level (West Tower) Friday, October 20, 10:15 a.m. - Noon 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. While the majority of cases of traveler's diarrhea self-resolves, some patients continue to have persistent symptoms. In this session, we will discuss the diagnosis and management of persistent intestinal symptoms associated with travel to, or residence in, a low- and middle-income country.

<u>CHAIR</u>

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

10:15 a.m.

PRESENTATION #1 Susan McLellan University of Texas Medical Branch, Galveston, TX, United States

10:45 a.m.

PRESENTATION #2

Henry Wu The Emory Clinic, Emory University, Atlanta, GA, United States

Scientific Session 69

Viruses - Virus Vaccine Clinical Trials and Immunity

Regency Ballroom A - Ballroom Level (West Tower) Friday, October 20, 10:15 a.m. - Noon U.S. Central Time Zone

This session does not carry CME credit.

<u>CHAIR</u>

Edwin J. Asturias University of Colorado, Aurora, CO, United States

Alix Miauton

Tropical, travel and vaccination clinic, Center for primary care and public health (Unisanté), Lausanne, Switzerland

10:15 a.m.

5778

EFFICACY AND SAFETY OF BUTANTAN-DV LIVE-ATTENUATED TETRAVALENT DENGUE VACCINE FROM A PHASE 3 CLINICAL TRIAL IN CHILDREN, ADOLESCENTS, AND ADULTS

Mauricio L. Nogueira¹, Monica A.T. Cintra², José A. Moreira², Elizabeth G. Patiño², Patricia Emilia Braga², Patricia S. Carneiro², Lucas B. Alves², Juliana C.V. Tenório², Vanessa Infante², Alejandra Esteves-Jaramillo³, Tulin Shekar³, Jung-Jin Lee³, Julieta Macey³, Sabrina Gozlan Kelner³, Beth-Ann G. Coller³, Fernanda Castro Boulos², Esper G. Kallás⁴

¹Faculdade de Medicina de São José do Rio Preto (FAMERP), São José do Rio Preto, Brazil, ²Instituto Butantan, Sao Paulo, Brazil, ³Merck & Co., Inc., Rahway, NJ, United States, ⁴Instituto Butantan/Hospital das Clinicas da Faculdade de Medicina da USP-SP, Sao Paulo, Brazil

10:30 a.m.

5779

A PHASE 1 OPEN LABEL TRIAL ASSESSMENT OF A DENGUE HUMAN INFECTION MODEL USING A DENGUE VIRUS SEROTYPE 4 LIVE VIRUS CHALLENGE

Joel V. Chua¹, Angie Price¹, Salma Sharaf¹, Youngchae J. Yoo¹, Hernando Gutierrez-Barbosa¹, Kathleen A. Strauss², Sudhaunshu Joshi², Rafael A. De La Barrera³, Heather L. Friberg⁴, Michael A. Koren⁴, Robert Edelman², Kirsten E. Lyke²

¹Institute of Human Virology, University of Maryland School of Medicine, Baltimore, MD, United States, ²Center for Vaccine Development and Global Health, University of Maryland School of Medicine, Baltimore, MD, United States, ³Pilot Bioproduction Facility, Walter Reed Army Institute of Research, Silver Spring, MD, United States, ⁴Viral Diseases Branch, Walter Reed Army Institute of Research, Silver Spring, MD, United States

10:45 a.m.

5780

SAFETY AND IMMUNOGENICITY OF A SYNTHETIC NANOPARTICLE-BASED, T CELL PRIMING PEPTIDE VACCINE AGAINST DENGUE IN HEALTHY ADULTS IN SWITZERLAND: A DOUBLE-BLIND, RANDOMIZED, VEHICLE-CONTROLLED, PHASE 1 STUDY

Alix Miauton¹, Régine Audran², Juliette Besson¹, Hélène Maby-El Hajjami³, Maxime Karlen¹, Loane Warpelin-Decrausaz⁴, Loredana Sene³, Sylvain Schaufelberger⁵, Vincent Faivre⁵, Mohamed Faouzi⁶, Mary-Anne Hartley¹, François Spertini², Blaise Genton¹ ¹Tropical, travel and vaccination clinic, Center for primary care and public health (Unisanté), Lausanne, Switzerland, ²Division of Immunology and Allergy, Centre Hospitalier Universitaire Vaudois (CHUV), Lausanne, Switzerland, ³Clinical Trial Unit, Centre Hospitalier Universitaire Vaudois (CHUV), Lausanne, Switzerland, ⁴Research support unit, Center for primary care and public health (Unisanté), Lausanne, Switzerland, ⁶Information systems and digital transformation, Center for primary care and public health (Unisanté), Lausanne, Switzerland, ⁶Biostatistics unit, Center for primary care and public health (Unisanté), Lausanne, Switzerland

11 a.m.



CHIKUNGUNYA VACCINE VLA1553 INDUCES CROSS-NEUTRALIZATION AGAINST DIFFERENT CHIKV GENOTYPES

Karin Kosulin¹, Trevor L. Brasel², Jeanon Smith², Maricela Torres², Annegret Bitzer¹, Katrin Dubischar¹, Vera Bürger¹, Scott C. Weaver², David WC Beasley², Romana Hochreiter¹

¹Valneva Austria GmbH, Vienna, Austria, ²University of Texas Medical Branch, Galveston, TX, United States

IMMUNOGENICITY OF AN EXTENDED DOSE INTERVAL FOR THE AD26.ZEBOV, MVA-BN-FILO PROPHYLACTIC EBOLA VIRUS VACCINE REGIMEN IN ADULTS AND CHILDREN IN THE DEMOCRATIC REPUBLIC OF THE CONGO

Edward M. Choi¹, Hugo Kavunga-Membo², Kambale Kasonia¹, Daniel Mukadi-Bamuleka², Soumah Aboubacar³, Zephyrin Mossoko², Tansy Edwards¹, Darius Tetsa-Tata¹, Grace Mambula³, Daniela Manno¹, Chelsea McLean⁴, Babajide Keshinro⁴, Auguste Gaddah⁵, Cynthia Robinson⁴, Kerstin Luhn⁴, Nathalie Imbault⁶, Rebecca Grais³, Daniel G. Bausch¹, Deborah Watson-Jones¹, Jean-Jacques Muyembe²

¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²Institut National de Recherche Biomédicale, Kinshasa, Democratic Republic of the Congo, ³Epicentre, Paris, France, ⁴Janssen Vaccines and Prevention B.V., Leiden, Netherlands, ⁵Janssen Research & Development, Beerse, Belgium, ⁶Coalition for Epidemic Preparedness Innovations, Oslo, Norway

11:30 a.m.

5783

DETERMINANTS AND DURABILITY OF ANTIBODY RESPONSE TO RVSV∆G-ZEBOV-GP AND AD26.ZEBOV,MVA-BN-FILO EBOLA VIRUS DISEASE VACCINES: A MODELLING STUDY FROM THE PREVAC RANDOMIZED TRIAL

Simon Valayer¹, Marie Alexandre², Mélanie Prague², Abdoul Habib Beavogui³, Seydou Doumbia⁴, Mark Kieh⁵, Brian Greenwood⁶, Bailah Leigh⁷, Marie Poupelin², Christine Schwimmer⁸, Samba O. Sow⁹, Irina Maljkovic Berry¹⁰, Jens H. Kuhn¹⁰, Daniela Fusco¹¹, Natasha Dubois Cauwelaert¹¹, Deborah Watson-Jones⁶, Rodolphe Thiébaut², Yves Lévy¹², Yazdan Yazdanpanah¹¹, Laura Richert², Edouard Lhomme², PREVAC Study Team¹¹ IAME, Université Sorbonne Paris Nord, Université Sorbonne Paris Cité, and Inserm, Paris, France, ²Bordeaux Population Health Research Centre, Université de Bordeaux, Inserm, and INRIA, Bordeaux, France, 3Centre National de Formation et de Recherche en Santé Rurale (CNFRSR) de Mafèrinyah, Mafèrinyah, Guinea, ⁴University Clinical Research Center, University of Sciences, Technique and Technology of Bamako, Bamako, Mali, [§]Partnership for Research on Ebola Virus in Liberia (PREVAIL), Monrovia, Liberia, 6London School of Hygiene & Tropical Medicine, London, United Kingdom, 7College of Medicine and Allied Health Sciences (COMAHS), Freetown, Sierra Leone, *EUropean CLInical Trials Platform & Development (EUCLID), Université de Bordeaux, Centre Hospitalier Universitaire Bordeaux, and Inserm, Bordeaux, France, °Centre pour le Développement des Vaccins, Ministère de la Santé et du Développement Social du Mali, Bamako, Mali, 10Integrated Research Facility at Fort Detrick, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Frederick, MD, United States, "French Agency for Research on AIDS and Viral Hepatitis (ANRS), Emerging Infectious Diseases, Paris, France, 12Vaccine Research Institute, Université Paris-Est Créteil. Créteil. France

11:45 a.m.

5784

HIGH DIMENSIONAL IMMUNOPHENOTYPING OF ACUTE EBOLA VIRUS INFECTED NONHUMAN PRIMATES

Andrew Platt¹, Sydney R. Stein¹, Scott M. Anthony², Bobbi Barr², Jeffrey R. Strich³, Heather Teague³, Michael Holbrook², Daniel S. Chertow¹

¹National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, ²National Institute of Allergy and Infectious Diseases, Fredrick, MD, United States, ³National Heart, Lung, and Blood Institute, Bethesda, MD, United States

Symposium 70

Holistic Approaches: Integrating the Complexity of Natural Systems into Public Health Research and Decision-Making

Regency Ballroom B - Ballroom Level (West Tower) Friday, October 20, 10:15 a.m. - Noon U.S. Central Time Zone

Healthy natural ecosystems are the foundation for thriving flora, fauna, and human societies. This interconnectedness between human societies and nature underpins many of the global issues that have been explored for decades in tropical medicine. At

the root, our imbalanced relationship with nature has led to the emergence and persistence of environmental disruptions that impair human health, as well as the wellbeing of plants, animals, and our shared ecosystems. Climate change, pollution, resource exploitation, and other actions that alter the health of natural environments increase the risks for wildfires, infectious diseases emergence and spread, noncommunicable diseases, and many other health issues. A number of approaches have contributed toward capturing this interconnectedness between human health and nature (e.g., One Health, Planetary Health, among others), but the challenge remains in understanding and integrating the full complexity of natural systems into public health research and decision-making, without centering or elevating the needs of any specific stakeholder above that of others. Public health decisions and policy actions to address these issues must be based on actionable research outcomes that consider nature and human health together in a holistic way. New opportunities and progress can be identified if the well-being of nature and humans are pursued as an interconnected system. Attendees of this symposium will gain appreciation of the full landscape of the interaction between nature and public health, understand possible pathways of disease emergence, discuss opportunities beyond traditional reductionist scientific approaches that can address research gaps to inform decision-making, and reflect on ways that these approaches can be adapted for local settings around the globe where they work.

<u>CHAIR</u>

Albert I. Ko Yale University School of Public Health, New Haven, CT, United States

10:15 a.m. INTRODUCTION

10:20 a.m.

INTERSECTION OF ECOSYSTEM HEALTH AND HUMAN HEALTH Kathleen Rest

Boston University Institute for Global Sustainability, Boston, MA, United States

10:40 a.m.

ENVIRONMENTAL DRIVERS OF INFECTIOUS DISEASES EMERGENCE Jonathan Sleeman

USGS National Wildlife Health Center, Madison, WI, United States

11 a.m.

HOLISTIC HEALTH THROUGH TRADITIONAL KNOWLEDGE Carlos Salinas

Healing Bridges, Washington, DC, United States

11:20 a.m.

HEALING THE PLANET AND IMPROVING HUMAN HEALTH AND WELL-BEING

Maria P. Kartika Health in Harmony, Portland, OR, United States

Scientific Session 71

Arthropods/Entomology - Other

Regency Ballroom C - Ballroom Level (West Tower) Friday, October 20, 10:15 a.m. - Noon U.S. Central Time Zone

<u>CHAIR</u>

Zinsou Come Koukpo Centre de Recherche Entomologique de Cotonou, Cotonou, Benin Selma Jeronimo Universidade Federal do Rio Grande do Norte, Natal, Brazil

10:15 a.m.

5785

CHARACTERIZING THE ROLE OF TICK SPECIES IN POWASSAN VIRUS FITNESS AND EVOLUTION

Rachel Elizabeth Lange¹, Alan P. Dupuis II², Alexander T. Ciota² ¹University at Albany School of Public Health and Wadsworth Center, Albany, NY, United States, ²Arbovirus Laboratory, Wadsworth Center NYSDOH, Slingerlands, NY, United States

10:30 a.m.

5786

ARE THE BITES OF NON-INFECTED SAND FLIES IMPORTANT FOR THE MAINTENANCE OF CUTANEOUS LEISHMANIASIS ANIMAL RESERVOIRS?

Pedro Cecilio, Maria M. Disotuar, Tiago D. Serafim, Claudio Meneses, Jesus G. Valenzuela, Fabiano Oliveira NIAID, NIH, Rockville, MD, United States

10:45 a.m.

5787

THE HUMAN SKIN MICROBIOTA CHANGES IN RESPONSE TO SCABIES INFESTATION, WITH AN INCREASE IN OPPORTUNISTIC PATHOGENS

Sara Taylor¹, Martha Zakrzewski¹, Charlotte Berniguad², Nuzhat Surve³, Pallavi Surase³, Deepani D. Fernando¹, Francoise Botterel⁴, Troy Darben⁵, Olivier Chosidow⁴, Katja Fischer¹

¹QIMR Berghofer MRI, Brisbane, Australia, ²Dermatology Department, Assistance Publique des Hôpitaux de Paris (AP-HP), Hôpital Henri Mondor, Université Paris-Est, Créteil, France, Paris, France, ³King Edward Memorial Hospital Seth Gordhandas Sunderdas Medical College, Mumbai, India, ⁴Dermatology Department, Assistance Publique des Hôpitaux de Paris (AP-HP), Hôpital Henri Mondor, Université Paris-Est, Créteil, Paris, France, ⁵Robina Skin Specialist Centre, Robina, Australia

11 a.m.

5788

EVALUATION OF THE EFFECT OF LONG LASTING INSECTICIDE IMPREGNATED BED NETS ON PHLEBOTOMUSARGENTIPES EXPOSURE USING SALIVARY BIOMARKERS: AN EARLY ANALYSIS AFTER 6 MONTHS

Sachee Bhanu Piyasiri¹, Sanath Senanayake¹, Nilakshi Samaranayake¹, Eva Iniguez², Shaden Kamhawi², Nadira Karunaweera¹

¹Faculty of Medicine, University of Colombo, Colombo, Sri Lanka, ²National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States

11:15 a.m.

5789

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

Paul O. Mireji¹, Benson Wachira², Richard Echodu³, Imna Malele⁴, Daniel Gamba⁵, Johnson Ouma⁶, Michael Okal⁶, Margaret Ng'ang'a², Eric Masika², Bernadatte Moraa⁷, Ahmed Hassanali⁷

¹Biotechnology Research Institute, Kenya Agricultural and Livestock Research Organization, Kikuyu, Kenya, ²Kenyatta University, Nairobi, Kenya, ³Gulu University, Gulu, Uganda, ⁴Vector and Vector Borne Disease Institute (VVBD), Tanzania Veterinary Laboratory Agency (TVLA), Tanga, United Republic of Tanzania, ⁵Kenya Tsetse and Trypanosomiasis Eradication Council (KENTTEC), Nairobi, Kenya, ⁶Vector Health International (VHI)., Arusha, United Republic of Tanzania, ⁷Kenyatta University, Kikuyu, Kenya

11:30 a.m.

ONCHOCERCIASIS TRANSMISSION IN BENIN: BITING AND PAROUS RATE OF SIMULIUM DAMNOSUM COMPLEX ALONG

5790

THE OUEME, SOTA AND ZOU RIVERS Pelagie M Boko-Collins¹, Zinsou Come Koukpo², Filémon Tokponnon², Razaki Osse², Germain Gil Padonou², Martin Akogbéto²

¹Sightsavers, Cotonou, Benin, ²Centre de Recherche Entomologique de Cotonou, Cotonou, Benin

5791

11:45 a.m.

VERTICALLY INFECTED DOGS AS A RESERVOIR FOR LEISHMANIA INFANTUM IN AN ENDEMIC AREA FOR VISCERAL LEISHMANIASIS

Joanna Gardel Valverde¹, Angelis Falcão¹, Letícia Paula¹, Damila de Melo¹, José Flávio Coutinho¹, Jan Pierre Araújo², Ciro Fagundes², Paulo Ricardo Porfírio do Nascimento¹, Phillip Lawyer³, Jacob Oleson⁴, Mary E. Wilson⁵, Christine A. Petersen⁶, Selma B. Jerônimo¹

¹Federal Unviversity of Rio Grande do Norte, Natal, Brazil, ²Center for Zoonotic Control, Health Secretariat of Natal, Natal, Brazil, ³Monte L. Bean Life Science Museum, Brigham Young University, Salt Lake City, UT, United States, ⁴Department of Biostatistics, University of Iowa, Iowa City, IA, United States, ⁵Departments of Internal Medicine and Microbiology & Immunology, University of Iowa and the VA Medical Center, Iowa City, IA, United States, ⁶Department of Epidemiology, University of Iowa, Iowa City, IA, United States

Symposium 72

Evidence and Lessons Learned from the Malaria Vaccine Implementation Program (2019-2023)

Regency Ballroom D - Ballroom Level (West Tower) Friday, October 20, 10:15 a.m. - Noon U.S. Central Time Zone

The Malaria Vaccine Implementation Program (MVIP), taking place in areas of Ghana, Kenya, and Malawi, will be completed at the end of this year (2023). Since the immunization programs in the three countries began vaccinations with RTS,S/AS01 (RTS,S) in 2019 as part of the MVIP, data have been collected on safety, impact, and feasibility of the four-dose regimen in routine use, and many lessons learned, including about how to increase and sustain uptake and coverage in the midst of a global pandemic. The evidence from 24 months of vaccine implementation informed the October 2021 World Health Organization (WHO) recommendation for the broader use of the vaccine to reduce child illness and deaths from malaria in regions with moderate to high Plasmodium falciparum transmission. This evidence also informed a decision by Gavi, the Vaccine Alliance, to finance a malaria vaccination program to support vaccine rollout. Demand for the vaccine is unprecedented, with at least 28 countries planning to

Friday October 20

introduce the vaccine in the coming years, and more than a dozen countries having applied for support at the first opportunity in January 2023. In this symposium, the speakers will explain why a pilot implementation was recommended in 2015, present the full 46-month analysis of data from the MVIP evaluation, including data on vaccine impact, and share country perspectives on other important learnings from the pilot program, including pros and cons of the experience. The speakers will also share observations from the pilots that could help pave the pathway for future malaria vaccine introductions. Following a welcome and introduction by the symposium chair, John Bawa, the presentations will address the background to the malaria vaccine pilots and their design; present the full 46-month data analysis; provide a country perspective on the lessons learned from the pilots, including implementation challenges and opportunities; share additional scientific lessons learned (beyond safety, feasibility, and impact); and reflect on the pilot program's implications for future malaria vaccine introductions.

<u>CHAIR</u>

John Bawa PATH, Accra, Ghana Eliane Furrer World Health Organization, Geneva, Switzerland

10:15 a.m. INTRODUCTION

10:25 a.m.

WHY A PILOT? KEY BACKGROUND ON THE RTS, S MALARIA VACCINE PILOTS

Eliane Furrer World Health Organization, Geneva, Switzerland

10:35 a.m.

MALARIA VACCINE PILOT EVALUATION: SAFETY, IMPACT, AND FEASIBILITY ANALYSIS OF RTS,S 46 MONTHS POST-INTRODUCTION

Kwaku Poku Asante Kintampo Health Research Centre, Kintampo, Ghana

10:50 a.m.

COUNTRY PERSPECTIVE ON LESSONS LEARNED FROM THE RTS,S MALARIA VACCINE PILOTS

Kwame Amponsa-Achiano Ghana Health Service, Accra, Ghana

11:05 a.m.

BEYOND SAFETY, FEASIBILITY, AND IMPACT: LESSONS LEARNED FROM THE RTS,S MALARIA VACCINE PILOTS Mary J. Hamel

World Health Organization, Geneva, Switzerland

11:20 a.m. KEY TAKEAWAYS FROM THE RTS,S MALARIA VACCINE PILOT EXPERIENCE AND IMPLICATIONS FOR FUTURE MALARIA VACCINE INTRODUCTIONS

John Bawa PATH, Accra, Ghana

Exhibit Hall Open

Riverside Center - Exhibit Level (East Tower)

Friday, October 20, Noon- 1:30 p.m. U.S. Central Time Zone

Poster Session 73

Poster Session B Presentations

Riverside Center - Exhibit Level (East Tower) and Grand Hall GHI – Ballroom Level (East Tower) Friday, October 20, Noon - 1:45 p.m.

Poster Session B Directory

Global Health - Diversity, Inclusion, Decolonization and Human Rights: 5792- 5809 Global Health - Information/Communication/Technologies Solutions in Global Health including Modeling: 5810-5825 Global Health - Other: 5826-5851 Global Health - Security/Emerging Infection Preparedness, Surveillance and Response(s): 5852-5878 Mosquitoes - Biology and Genetics of Insecticide Resistance: 5879-5892 Mosquitoes - Biology, Physiology and Immunity: 5893- 5905 Mosquitoes - Bionomics, Behavior and Surveillance: 5906- 5926 Mosquitoes - Epidemiology and Vector Control: 5927- 5956 Mosquitoes - Molecular Biology, Population Genetics and Genomics: 5957-5972 Viruses - Emerging Viral Diseases: 5973- 5989 Viruses - Epidemiology: 5990- 6006 Viruses - Evolution and Genomic Epidemiology: 6007- 6016 Viruses - Field and ecological studies of viruses, including surveillance and spillover risk and emergence: 6017- 6030 Viruses – Immunology: 6031- 6045 Malaria - Antimalarial Resistance and Chemotherapy: 6046- 6067 Malaria - Diagnosis - Challenges and Innovations: 6068- 6086 Malaria - Drug Development and Clinical Trials: 6087- 6099 Malaria - Elimination: 6100- 6115 Malaria - Epidemiology: 6116- 6139 Malaria - Genetics, Genomics and Evolution: 6140- 6156 Malaria - Immunology: 6157-6167 Malaria - Pathogenesis: 6168- 6178 Malaria - Prevention: 6179- 6204 Malaria - Surveillance and Data Utilization: 6205- 6224 Malaria - Transmission Biology: 6225- 6238 Malaria - Vaccines and Immunotherapeutics: 6239- 6250 Bacteriology - Enteric Infections: 6251-6262 Bacteriology - Trachoma: 6263- 6266 Cestodes (including taeniasis and cysticercosis, echinococcosis/ hydatid disease, and others): 6267- 6275 Helminths - Nematodes - Intestinal Nematodes: 6276-6287 Clinical Tropical Medicine: 6288- 6304 HIV and Tropical Co-Infections: 6305-6316 Integrated Control Measures for Neglected Tropical Diseases (NTDs): 6317-6327 Kinetoplastida and Other Protozoa - Immunology (Including Leishmania and Trypanosomes): 6328- 6337 Kinetoplastida and Other Protozoa - Invasion, Cellular and Molecular Biology (Including Leishmania and Trypanosomes): 6338-6344 Kinetoplastida and Other Protozoa - Treatment, Drug Delivery, Drug Repurposing and Drug Discovery (Including Leishmania and Trypanosomes): 6345- 6352 Kinetoplastida and Other Protozoa - Vaccines (Including Leishmania and Trypanosomes): 6353 One Health: The Interconnection between People, Animals, Plants and Their Shared Environment: 6354- 6365

Pneumonia, Respiratory Infections and Tuberculosis: 6366- 6381 Schistosomiasis and Other Trematodes – Epidemiology and Control: 6382- 6389

Schistosomiasis and Other Trematodes – Immunology, Pathology, Cellular and Molecular Biology: 6390- 6393

Water, Sanitation, Hygiene and Environmental Health: 6394- 6403

Global Health - Diversity, Inclusion, Decolonization and Human Rights

5792

ASSOCIATION OF HIV/AIDS WITH PSYCHIATRIC ILLNESS AMONG TRANSGENDER POPULATION IN A LOW HIV PREVALENCE COUNTRY

Nayem Akhter Abbassi¹, Helal Uddin Ahmed¹, Mohammad Tariqul Alam¹, Mekhala Sarkar¹, Lubaba Shahrin²

¹National Institute of Mental Health, Dhaka, Bangladesh, ²icddr,b, Dhaka, Bangladesh

5793

SYNTHESIS OF FINDINGS FROM THE LITERATURE AND A QUALITATIVE RESEARCH STUDY ON THE IMPACTS OF GENDER, DISABILITY, AND ETHNICITY IN NEGLECTED TROPICAL DISEASES PROGRAMMING

Jennifer K. Arney, Maureen K. Headland, Andrea M. Bertone, Diana Stukel FHI 360, Washington, DC, United States

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NEEDS AND PREFERENCE FOR COMMUNITY HEALTH WORKER SERVICES IN CAMBODIA: A COMMUNITY SURVEY

Panarasri Khonputsa¹, Long Heng Orng¹, Monnaphat Jongdeepaisal¹, Christopher Pell², Siv Sovannaroth³, Massaya Sirimatayanant¹, Richard J. Maude¹

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ARMED CONFLICT REFUGEES' RESILIENCE: TRANSDISCIPLINARY STUDY ON A DIALOG FOR HEALTH PREVENTION IN THE EASTERN DEMOCRATIC REPUBLIC OF CONGO

Christian Ahadi Irenge¹, Freddy Bikioli², Rodrigue Fikiri Bavurhe¹, Benedicte Sakina³, Yves Coppieters⁴

¹Official University of Bukavu, Bukavu, Democratic Republic of the Congo, ²Antwerp University, Antwerp, Belgium, ²Université Libre des Pays des Grands Lacs, Goma, Democratic Republic of the Congo, ⁴School of Public Health, ULB, Bruxelles, Belgium

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LIVING WITH HANSEN'S DISEASE IN MALAYSIA: A TRANSDISCIPLINARY RESEARCH APPROACH

Norana Abdul Rahman¹, Vaikunthan Rajaratnam², Ruth M. H. Peters¹, Karen Morgan³, Mohamed Rusli Abdullah⁴, Marjolein B. M. Zweekhorst¹

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CHARACTERISTICS ASSOCIATED WITH SARS-COV-2 SEROPOSITIVITY IN CAMEROON

Ebako Ndip Takem¹, Clement B. Ndongmo¹, Judith Shang¹, Adama N'Dir¹, Dubliss Nguafack², Gabriel Ekali², Emily K. Dokubo³

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CONCEPTUALIZING AND UNDERSTANDING STIGMA ASSOCIATED WITH CL IN A RURAL COMMUNITY OF SRI LANKA

Hasara Nuwangi¹, Lisa Dikomitis², Kosala G. Weerakoon³, Suneth B. Agampodi¹, Thilini C. Agampodi¹

¹Department of Community Medicine, Faculty of Medicine and Allied Sciences, Rajarata University of Sri Lanka, Anuradhapura, Sri Lanka, ²Kent and Medway Medical School, University of Kent and Canterbury Christ Church University, Canterbury, United Kingdom, ³Department of Parasitology, Faculty of Medicine and Allied Sciences Rajarata University of Sri Lanka, Anuradhapura, Sri Lanka, ⁴International Vaccine Institute, Seoul, Republic of Korea

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INTEGRATING AND ACCESSING EQUITY IN GLOBAL HEALTH PROGRAM DESIGN

Vajra Allan¹, Christelle Gogue², Krya Arnett¹, Brianna Musselman², Peder Digre¹, Bindiya Patel¹ ¹PATH, Seattle, WA, United States, ²PATH, Washington, DC, United States

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INCREASING ADOPTION OF MALARIA PREVENTION AND CONTROL USING MULTIPRONGED SOCIAL BEHAVIOR CHANGE APPROACHES

Aaron Musimenta¹, Felix Manano¹, Dorah Anita Talanta¹, Irene Ochola¹, Angela Kateemu¹, Amy Casella², Aliza Hasham³, Benjamin Binaqwa¹, Natalia Whitley²

¹John Snow Inc, Kampala, Uganda, ²John Snow Inc, Boston, VA, United States, ³John Snow Inc, Dar es Salam, United Republic of Tanzania

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EQUALITY IN AJTMH PUBLICATIONS FROM 1952 TO 2022: WHAT CAN WE LEARN TO MAKE GLOBAL HEALTH RESEARCH PUBLISHING MORE EQUITABLE? A BIBLIOMETRIC ANALYSIS

Nabila Farah Jeehan Youssouf

Botswana Harvard Health Partnership, Gaborone, Botswana

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ESTABLISHING A RELATIONSHIP WITH THE SURVIVORS OF TORTURE CLINIC AND THE UNIVERSITY OF LOUISVILLE SCHOOL OF MEDICINE; AN INNOVATIVE ALLIANCE TO MENTOR AND ASSIST REFUGEES

Zoha Mian

University of Louisville, Louisville, KY, United States

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GROW502: A POP-UP CLINIC TO TACKLE HEALTH DISPARITIES WITHIN THE HOUSELESS POPULATION

Zoha Mian

University of Louisville, Louisville, KY, United States

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NUTRITIONAL STATUS, DIETARY DIVERSITY AND FOOD INSECURITY AMONG WOMEN AND CHILDREN IN PERI-URBAN COMMUNITIES OF KARACHI, PAKISTAN

Nadia Ansari, Mashal Amin, Ayesha Khalid, Amna K. Haider, Junaid Mehmood, Rafey Ali, Mohammad I. Nisar, Fyezah Jehan, Zahra Hoodbhoy The Aga Khan University, Karachi, Pakistan

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A SYSTEMATIC REVIEW & META-ANALYSIS: IMPACT OF THE COVID-19 PANDEMIC ONVIOLENCE AGAINST CHILDREN Tomomi Nakaike

Nagasaki university, ichikikushikino, Japan

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A QUALITATIVE ASSESSMENT OF THE LANDSCAPE AND DYNAMICS OF CAPACITY STRENGTHENING INITIATIVES FOR MALARIA MODELING IN AFRICA

Letitia Onyango, Ghislaine Ouedraogo-Ametchie, Jaline Gerardin Northwestern University, Chicago, IL, United States

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EPIDEMIOLOGICAL PROFILE OF ASYLUM SEEKERS AT THE US-MEXICO BORDER: ASSESSMENT OF DISEASE BURDEN IN A MATAMOROS MIGRANT SETTLEMENT CAMP FROM NOVEMBER 2019 TO MARCH 2021

Allison W. Cheung¹, Christopher W. Reynolds¹, Raymond Rosenbloom², Sarah Draugelis³, Florian F. Schmitzberger⁴

¹University of Michigan Medical School, Ann Arbor, MI, United States, ²Medical School for International Health, Ben Gurion University of the Negev, Beersheba, Israel, ³Team fEMR, Cleveland, OH, United States, ⁴Department of Emergency Medicine, University of Michigan, Ann Arbor, MI, United States

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EXPLORING THE POTENTIAL OF POLICY IMPLEMENTATION STRATEGIES AS HEALTH JUSTICE-MAKING TOOLS: AN ILLUSTRATIVE CASE OF NEGLECTED TROPICAL DISEASES MASTERPLAN IN ZAMBIA

Patricia Maritim, Margarate Munakampe, Joseph M. Zulu University of Zambia, Lusaka, Zambia

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NATIONAL GUIDELINES AND LEGISLATION CONCERNING THE MANAGEMENT OF ZIKA VIRUS INFECTION IN PREGNANT WOMEN DURING THE 2015-2018 EPIDEMIC IN LATIN AMERICA

Sarah Bethencourt¹, **Olivia Pluss**², Adriana Gomez³, Rodrigo Cachay⁴, Carmen Soria⁵, Ivonne Morales⁶, Kerstin Rosenberger⁷, Martin Weber⁸, Celia Alpuche Aranda⁹, Patricia Brasil¹⁰, Paola Mariela Saba Villarroel¹¹, Ernesto Marques¹², Eduardo Gotuzzo⁴, María Consuelo Miranda Montoya³, Adriana Tami¹, Thomas Jaenisch² ¹Universidad de Carabobo, Valencia, Bolivarian Republic of Venezuela, ²Center for *Global Health, Colorado School of Public Health, Aurora, CO, United States, ³Universidad Industrial de Santander, Bucaramanga, Colombia, ⁴Instituto de Medicina Tropical Alexander von Humboldt, Universidad Peruana Cayetano Heredia, Lima, Peru, ⁵Universidad Católica Santiago de Guayaquil, Guayaquil, Ecuador, ⁶Division of Infectious Disease and Tropical Medicine, Center for Infectious Diseases,Heidelberg University Hospital, Heidelberg, Germany, ⁸WHO Regional Office for Europe, Office for quality of care, Athens, Greece, ⁹Centro de Investigación en Enfermedades Infecciosas, Instituto Nacional de Salud* Pública, Cuernavaca, Morelos, Mexico, "Evandro Chagas National Institute of Infectious Diseases, Oswaldo Cruz Foundation, Rio de Janeiro, Brazil, "Unité des Virus Émergents (UVE: Aix-Marseille Univ.-IRD 190-INSERM 1207-IHU Méditerranée Infection), Marseille, France, "Graduate School of Public Health, Department of Infectious Diseases and Microbiology, University of Pittsburgh, Pittsburgh, PA, United States

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

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IMPACT EVALUATION OF SOCIAL MEDIA CAMPAIGN TO IMPROVE ATTITUDES AND BEHAVIORS ON COVID-19 VACCINE IN AFRICA: DIFFERENCE-IN-DIFFERENCE ANALYSIS USING TANZANIA AS A CASE STUDY

Sooyoung Kim¹, Asad Lilani², Kate Campana², Yesim Tozan¹ ¹New York University School of Global Public Health, New York, NY, United States, ²The Access Challenge, New York, NY, United States

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USING MALARIA SURVEILLANCE AT ANTENATAL CARE TO DECODE LOCAL PATTERNS IN SEASONAL TRANSMISSION TRENDS – TANZANIA, 2014-2022

Joseph T. Hicks¹, Frank Chacky², Sijenunu Aaron², Khalifa Munisi², Samweli L. Nhiga², Julie R. Gutman³, Patrick GT Walker¹

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INTEGRATION, EXPLORATION & REUSE OF CLINICAL & EPIDEMIOLOGICAL DATASETS: A CASE STUDY USING MALARIA DATA ON THE CLINEPIDB PLATFORM

Danica Helb¹, Sarah Kelly², **Nupur Kittur**³, Moses Kumenya⁴, David Roos¹, Steph Wever Schulman¹, Weilu Song¹, Sheena Shah Tomko¹

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IMPROVING EFFICIENCY IN DETECTING ANOMALIES IN HEALTH SUPPLY CHAIN DATA USING AN AUTOMATED CONSUMPTION ANOMALY DETECTION TOOL IN ZAMBIA

Darwin Chimenge¹, Stephen Chisha Lemba², Hassan Sinkala³, Tawonga Manda³ ¹USAID Global Health Supply Chain Program-Procurement and Supply Management (GHSC-PSM) project, Washington DC, DC, United States, ²Lusaka District Health Office, Ministry of Health, Lusaka, Zambia, ³USAID Global Health Supply Chain Program- Procurement and Supply Management (GHSC-PSM) project, Washington DC, DC, United States

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Awosiji Olatunde Awotunde, Jin Ru i Cai, Jiaqi Lu, Christian Gabriel El Azar, Sarah Honegger, Ornella Joseph, Alyssa Wicks, Kathleen Hayes, Marya Lieberman University of Notre Dame, Notre Dame, IN, United States

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USING THE DISTRIBUTION OF CLINICAL DATA FROM ROUTINE USE OF AN ELECTRONIC CLINICAL DECISION SUPPORT ALGORITHM TO IDENTIFY CLINICAL SKILL GAPS IN PRIMARY CARE IN RWANDA: A RETROSPECTIVE ANALYSIS

Haykel Karoui¹, Nadia Cattaneo¹, Victor P. Rwandarwacu², Joseph Habakurama², Antoinette M. Safi², Jonathan Niyonzima², Emmanuel Kalisa², Valérie D'Acremont¹, Alexandra V. Kulinkina³

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ELECTRONIC DATA CAPTURE IMPLEMENTATION DOCUMENTING MASS DEWORMING CAMPAIGNS: PILOT ANALYSIS IN THE DOMINICAN REPUBLIC 2019-2021

Nitya Rajeshuni¹, Hyeree Choi², Grey Faulkenberry¹, Bernard Caines³, Ramona Cordero³, Anabel Fernandez¹, Ingrid Japa³, Andrew Steenhoff¹, Anthony Luberti¹, Sansanee Craig¹ ¹Children's Hospital of Philadelphia, Philadelphia, PA, United States, ²George Washington Milken Institute School of Public Health, Washington DC, DC, United States, ³Niños Primeros en Salud, Consuelo, Dominican Republic

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UNDERSTANDING THE 'CONTEXT' IN TROPICAL DISEASE CONTROL COMMUNICATION: A SRI LANKAN EXPERIENCE

Asitha Prabhath Mallawaarachchi¹, Manjula Weerasinghe¹, Thilini Agampodi¹, Chandani Liyanage², Suneth Agampodi³

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MATCHING DATA FOR THE STATE PARTIES SELF-ASSESSMENT ANNUAL REPORTING (SPAR) TOOL FROM 2010 TO 2021

Chengyi Zhao¹, Alexander Linder², Brian Samuelson³, Erin Sorrell⁴

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RECONSIDERING THE INFECTION RISK OF JAPANESE ENCEPHALITIS VIRUS IN AUSTRALIA

Lucinda Harrison¹, David Duncan², Jennifer Flegg¹, David Price¹, James McCaw¹, Nick Golding², Freya Shearer¹

¹University of Melbourne, Parkville, Australia, ²Telethon Kids Institute, Nedlands, Australia

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USING MACHINE LEARNING TO PREDICT SURGICAL OUTCOMES OF PATIENTS WITH HYDROCEPHALUS POST INTERVENTION AT CURE CHILDREN'S HOSPITAL OF UGANDA

Davis Natukwatsa

Cure Hospital Uganda, Mbale, Uganda

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A SYSTEMATIC REVIEW OF THE DATA, METHODS AND ENVIRONMENTAL COVARIATES USED TO MAP AEDES-BORNE ARBOVIRUS RISK

Ah-Young Lim¹, Yalda Jafari², Richard Maude², Jamie M. Caldwell⁹, Michael A. Johansson⁴, Sadie J. Ryan⁵, Erin A. Mordecai⁶, Katy A. M. Gaythorpe⁷, Jan C. Semenza⁸, Jane P. Messina⁹, Henrik Salje¹⁰, Hannah E. Clapham¹¹, Clare P. McCormack⁷, Robert C. Reiner Jr¹², Moritz U. G. Kraemer¹³, Ingrid B. Rabe¹⁴, Diana P. Rojas¹⁴, Oliver J. Brady¹ ¹Department of Infectious Disease Epidemiology, Faculty of Epidemiology and Population Health, London, United Kingdom, ³Mahidol-Oxford Tropical Medicine Research Unit, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand, ³High Meadows Environmental Institute, Princeton University, Princeton, NJ, United States, ⁴Division of Vector-Borne Diseases, Centers for Disease Control and Prevention, San Juan, PR, United States, ⁵Department of Geography, University of Florida, Gainesville, FL, United States, ⁶Department of Biology, Stanford University, Stanford, CA, United States, ⁷Faculty of Medicine, School of Public Health, Imperial College London, London, United Kingdom, ⁸Department of Public Health and Clinical Medicine, Section of Sustainable Health, Umeå University, Umeå, Sweden, ⁹School of Geography and the Environment, University of Xoford, Oxford, United Kingdom, ¹¹Department of Genetics, University of Cambridge, Cambridge, United Kingdom, ¹¹Saw Swee Hock School of Public Health, National University of Singapore, Singapore, Singapore, ¹²University of Washington, Seattle, WA, United States, ¹³Department of Biology, University of Oxford, Oxford, United Kingdom, ¹⁴World Health Organization, Geneva, Switzerland

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ALTERNATIVE EPIDEMIC INDICATORS FOR COVID-19: A MODEL-BASED ASSESSMENT OF COVID-19 MORTALITY ASCERTAINMENT IN THREE CITIES IN LOW-INCOME COUNTRIES

Ruth McCabe¹, Charles Whittaker², Richard J. Sheppard², Nada Abdelmagid³, Aljaile Ahmed⁴, Israa Z. Alabdeen⁵, Nicholas F. Brazeau⁶, Abd Elhameed A. Abd Elhameed⁴, Abdulla S. Bin-Gouth⁷, Arran Hamlet², Rahaf AbuKoura³, Gregory Barnsley², James A. Hay⁸, Mervat Alhaffar³, Emilie K. Besson³, Semira M. Saje⁸, Binyam G. Sisay¹⁰, Seifu H. Gebreyesus⁹, Adane P. Sikamo⁹, Aschalew Worku⁹, Yakob S. Ahmed¹¹, Damen H. Mariam⁹, Mitike M. Sisay⁹, Francesco Checchi³, Maysoon Dahab³, Bilal S. Endris⁹, Azra C. Ghani², Patrick GT Walker², Christl A. Donnelly¹, Oliver J. Watson² ¹University of Oxford, United Kingdom, ²Imperial College London, London, United Kingdom, ³London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁴Sudan COVID-19 Research Group, Khartoum, Sudan, ⁵Sudan Youth Peer Education Network, Khartoum, Sudan, ⁶University of North Carolina, Chapel Hill, NC, United States, ⁷Hadhramout University, Mukalla, Yemen, ⁶Harvard T. H. Chan School of Public Health, Boston, MA, United

States, ^sAddis Ababa University, Addis Ababa, Ethiopia, ¹⁰Deakin University, Melbourne, Australia, ¹¹Ethiopian Federal Ministry of Health, Addis Ababa, Ethiopia

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GLOBAL HEALTH INFRASTRUCTURE DEVELOPMENT IN LOW AND MIDDLE INCOME COUNTRIES, THROUGH MEDICAL EQUIPMENT REMANUFACTURE: POTENTIALS, PROSPECTS AND CHALLENGES IN NIGERIA

Akinwale O. Coker¹, Chibueze G. Achi¹, Winifred I. Ijomah², Olusola K. Idowu¹, Roseben C. Achi¹, Morenike E. Coker¹

¹University of Ibadan, Ibadan, Nigeria, ²University of Strathclyde, Glasgow, Scotland, United Kingdom

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PLOTTING A PATH THROUGH THE *P. VIVAX* TREATMENT DILEMMA: A MODELLING STUDY INTEGRATING INDIVIDUAL-LEVEL OBSERVATIONS FROM PRIMAQUINE TRIALS AND POPULATION-LEVEL TREATMENT EFFECTS

Constanze Ciavarella, Thomas Obadia, Michael T. White Institut Pasteur, Paris, France

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AN EXPLAINABLE MACHINE LEARNING APPROACH IN THE PREDICTION OF MORTALITY AMONG PEDIATRIC PATIENTS HOSPITALIZED WITH ACUTE GASTROENTERITIS IN WESTERN KENYA

Billy Ogwel¹, Vincent Mzazi², Bryan O. Nyawanda¹, Richard Omore¹ ¹KEMRI-CGHR, Kisumu, Kenya, ²University of South Africa, Pretoria, South Africa

Global Health - Other

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TROPICAL TROUBLES: NEURASTHENIA AMONG MISSIONARY EX-PATS IN AFRICA, 1900-1945

David P. Adams¹, Michael Kent²

¹National University of Ireland-Galway, Galway, Ireland, ²Point University, Savannah, GA, United States

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LOCAL PERCEPTIONS OF YELLOW FEVER OUTBREAKS IN UGANDA: A QUALITATIVE STUDY

Lena Huebl¹, Aloysious Nnyombi², Aban Kihumuro³, Denis Lukwago⁴, Eddy Walakira², Ruth Kutalek⁵

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PREVALENCE AND PREDICTORS OF INTENTION TO USE TOBACCO AMONG ADOLESCENTS IN OYO STATE, NIGERIA

Esther Tumininu Oguntola

University of Ibadan, Ibadan, Nigeria

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COMMUNITY PERCEPTIONS OF INCENTIVES FOR MINIMALLY INVASIVE AUTOPSY IN CHILD HEALTH AND MORTALITY PREVENTION SURVEILLANCE (CHAMPS) IN WESTERN KENYA

Kennedy Omondi Ochola¹, Sarah Hawi¹, Peter Otieno¹, Dickens Onyango², Janet Agaya¹, Maryanne Nyanjom¹, Victor Akelo³, Beth Barr⁴

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BLOOD PRESSURE VARIATIONS AND THEIR ASSOCIATION WITH SOCIAL DETERMINANTS AMONG MEN AND WOMEN IN BANGLADESH

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THE URGENT NEED OF MOLECULAR DIAGNOSTICS IN LOW RESOURCE SETTINGS. CASE STUDY: CURE CHILDREN'S HOSPITAL OF UGANDA

Henry Masengere¹, Steven Schiff², Jessica Ericson³, Edith Mbabazi¹, Ronald Mulondo¹, Christine Hehnly⁴

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SPATIOTEMPORAL CHARACTERIZATION OF CONGENITAL MYELOMENINGOCELE IN UGANDA

Ronald Mulondo

cure hospital, mbale, Uganda

IMPACT OF CONFLICT ON THE HEALTH SERVICES: OPPORTUNITIES FOR RESILIENCE IN NORTH SHEWA ZONE, ETHIOPIA

Anum S. Hussaini¹, Clara Pons-Duran¹, Negalign Berhanu Bayou², Abdulhalik Workicho³, Bezawit M. Hunegnaw⁴, Mesfin Hunegnaw³, Tefera Biteye³, Chalachew Bekele³, Sebastien Haneuse⁵, Anne R. Sites¹, Meseret Zelalem⁶, Lisanu Taddesse³, Delayehu Bekele⁷, Grace J. Chan¹

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EVIDENCE GENERATION FOR TOOLS FOR SEVERITY TRIAGE OF FEBRILE PATIENTS IN LOW-RESOURCE SETTINGS: A MIXED-METHODS STUDY

Debashish Das¹, Lava Shrestha², Bipin Adhikari³, Manjita Bajracharya², Jyotshna Sapkota¹, Michael Otieno¹, Berra Erkosar¹, Aakriti Parajuli², Nishika Aryal², Ramesh Kumar Maharjan², Pamela Nabeta¹, Rigveda Kadam¹, Sabine Dittrich¹, Cassandra Kelly-Cirino¹, Marta Fernandez Suarez¹, Kevin K.A. Tetteh¹

¹FIND, Geneva, Switzerland, ²Institute of Medicine, Kathmandu, Nepal, ³Mahidol Oxford Research Unit, Bangkok, Thailand

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COMMUNITY-LEVEL USE OF ANTIBIOTICS IN RURAL BURKINA FASO: A HOUSEHOLD-BASED SURVEY USING THE DRUG BAG METHOD

Adelaide Compaore

Institut de Recherche en Sciences de la Santé/Clinical Research Unit of Nanoro, Burkina Faso, Ouagadougou, Burkina Faso

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IMPACT OF THE COVID-19 PANDEMIC ON THE SURVEILLANCE AND CONTROL OF NEGLECTED TROPICAL DISEASES (NTDS) IN BRAZIL

Expedito J. Luna¹, Rosa C. Soares¹, Eliane Ignotti², Maria A. Trindade¹ ¹Universidade de Sao Paulo, São Paulo, Brazil, ²Universidade Estadual do Mato Grosso, Caceres, Brazil

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SYMPTOMOLOGY, OUTCOME AND PATTERN OF RISK FACTORS OF CORONARY ARTERY DISEASE IN TANZANIA CLUSTERING AND STRATIFICATION APPROACH

Neema Kailembo, Peter Kisenge, Tatizo Waane, George Longopa, Khuzeima Khanbhai, Honorata Maucky, Beatrice Ngowi, Tulizo Shemu, Samson Kiware, Pedro Pallangyo

Jakaya Kikwete Cardiac Institute, Dar es salaam, United Republic of Tanzania

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A QUALITATIVE EXPLORATION OF WOMEN PERCEPTIONS AND EXPERIENCES OF ANTENATAL CARE ACCESS IN MOZAMBIQUE

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

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UTILIZATION OF PANTOGRAPH AMONG NURSES AND MIDWIVES IN LABOUR WARD AT EDWARD FRANCIS SMALL TEACHING HOSPITAL

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

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VILLAGE COMMUNITY BANKING: POTENTIAL OF COMMUNITY-BASED FINANCING SYSTEM FOR HOUSE IMPROVEMENTS AND VECTOR CONTROL IN RURAL TANZANIA

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INNOVATIVE FINANCE FOR NEGLECTED TROPICAL DISEASES

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MICROBIOME ANALYSIS OF PREGNANT WOMEN AND CHILDREN FROM AMANHI FECAL COHORT

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UNDERSTANDING HEALTH WORKER AND COMMUNITY ANTIBIOTICS PRESCRIPTION ADHERENCE PRACTICES FOR ACUTE FEBRILE ILLNESS: A NESTED QUALITATIVE STUDY IN THE SHAI-OSUDOKU DISTRICT OF GHANA, AND THE DEVELOPMENT OF A TRAINING AND COMMUNICATION INTERVENTION

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SEVERE ACUTE MALNUTRITION IN CHILDREN UNDER FIVES

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

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EVALUATION OF THE PANBIO COVID-19 RAPID TEST DEVICE (ABBOTT) AT THE VIROLOGY LABORATORY OF THE ARISTIDE LE DANTEC UNIVERSITY HOSPITAL IN SENEGAL

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(ACMCIP Abstract)

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APPLICATION OF THE THREE DELAYS MODEL TO UNDERSTAND HOW THE INTERACTION OF COMMUNITY, FAMILY AND HEALTH SYSTEMS CONTRIBUTE TO CHILD MORTALITY IN CHAMPS-KENYA; MAY 2017 - JUNE 2022

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IMPACT OF MESSAGES ON MATERNAL CONDITION LEADING TO CHILD DEATH AND ON ANC SEEKING PRACTICES AMONG PREGNANT WOMEN IN RURAL BANGLADESH

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A SYSTEMATIC REVIEW OF PREVALENCE AND RISK FACTORS OF TRANSFUSION TRANSMISSIBLE INFECTIONS AMONG BLOOD DONORS, AND BLOOD SAFETY IMPROVEMENTS IN SOUTHERN AFRICA

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THE REMOTE EMERGING DISEASE INTELLIGENCE NETWORK (REDI-NET): PREPARING FOR ZOONOTIC SPILLOVER THREATS

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KNOWLEDGE OF COVID-19 SYMPTOMS, TRANSMISSION, AND PREVENTION: EVIDENCE FROM HEALTH AND DEMOGRAPHIC SURVEILLANCE IN SOUTHERN MOZAMBIQUE, SEPTEMBER 2021-JANUARY 2022

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DEVELOPMENT OF SINGLE DOMAIN ANTIBODY-BASED LUMINEX ASSAY FOR THE DETECTION OF SEVERE ACUTE RESPIRATORY SYNDROME CORONAVIRUS-2 IN CLINICAL SAMPLES

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COVID 19 SELF-TESTING: A PROMISING OPPORTUNITY FOR LOW AND MIDDLE INCOME COUNTRIES, YET A REALITY CHECK OF GLOBAL INEQUALITIES

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ENVIRONMENTAL HYGIENE FOR HOSPITAL INFECTION PREVENTION AND CONTROL MANAGEMENT IN BANGLADESH: EDUCATING HOSPITAL CLEANING STAFF REQUIRES PRIORITY

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ONE HEALTH BIOSECURITY: DEVELOPING RECOMMENDATIONS TO ADDRESS LEGISLATIVE GAPS IN THE DEMOCRATIC REPUBLIC OF THE CONGO

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BURIAL SITE SURVEILLANCE TO MONITOR EXCESS MORTALITY DURING THE COVID-19 PANDEMIC IN KARACHI, PAKISTAN

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AN ETHNOGRAPHIC APPROACH TO UNDERSTAND THE FEASIBILITY OF GRAVEYARD SITE SURVEILLANCE TO ASSESS EXCESS MORTALITY IN A RESOURCE CONSTRAINT SETTING

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THE RELATIONSHIP BETWEEN PRE-EXISTING COMORBIDITIES AND IN-HOSPITAL CARDIOVASCULAR EVENTS AMONG COVID-19 PATIENTS IN BANGLADESH: A PROSPECTIVE COHORT STUDY

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PATTERNS OF DATE PALM SAP HARVESTING AND TRADING PRACTICES AND RISK OF NIPAH VIRUS TRANSMISSION AT COMMUNITIES IN BANGLADESH

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UNDERSTANDING VACCINE HESITANCY IN BOENDE, WESTERN DR CONGO: A MIXED-METHODS STUDY

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PERCEPTIONS ON ACCEPTANCE AND BARRIERS RELATED TO MORTALITY SURVEILLANCE FOR DRY NASAL SWAB PROCEDURE RELATED TO COVID 19 IN PERI URBAN SETTINGS, PAKISTAN

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METAGENOMIC DETECTION OF PATHOGENIC BACTERIA IN TICKS FROM ISIOLO AND KWALE COUNTIES IN KENYA

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ENGAGING ANTHROPOLOGY IN NIPAH OUTBREAK: FACTS BEHIND THE HUMMING

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SURVEILLANCE OF ACUTE FEBRILE ILLNESS IN JORDAN DURING THE TIME OF PANDEMIC OF COVID-19

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IMPLEMENTING A "TEST AND TREAT" STRATEGY FOR COVID-19 IN BOLIVIA AND PARAGUAY: LESSONS AND CHALLENGES

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COVID 19 KNOWLEDGE, ATTITUDES, PRACTICES (KAP) & MENTAL HEALTH BEHAVIORS IN LIBERIA: FINDINGS, IMPLICATIONS & FUTURE DIRECTIONS

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COMMUNITY ENGAGEMENT IN EPIDEMIC MANAGEMENT: AN ANALYSIS OF THE EBOLA VIRUS DISEASE AND COVID19 RESPONSES IN BOENDE, WESTERN DR CONGO

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PERCEPTIONS OF PREVALENCE, IMPACT, AND MANAGEMENT OF POST-ACUTE SEQUELAE OF SARS-COV-2 INFECTION AMONG HEALTHCARE WORKERS IN KWENENG DISTRICT, BOTSWANA

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VERTICAL TRANSFER OF HUMORAL IMMUNITY AGAINST NIPAH VIRUS: A NOVEL EVIDENCE FROM BANGLADESH

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SURVEILLANCE OF OPERATIONALLY RELEVANT VIRAL HEMORRHAGIC FEVER AND RICKETTSIAL VECTOR BORNE INFECTIOUS DISEASE THREATS, INSECTICIDE RESISTANCE, AND ASSESSMENT OF VACCINE EFFICACY TO PREDICTED T CELL EPITOPES AND B CELL ANTIGENS IN AFRICOM

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THE REMOTE EMERGING DISEASE INTELLIGENCE-NETWORK: ENHANCING BIOSURVEILLANCE USING WATER AND SEDIMENT SENTINEL SAMPLES FROM BELIZE, CENTRAL AMERICA

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CAUSE SPECIFIC MORTALITY FROM VERBAL AUTOPSY FOR UNDER FIVES IN WESTERN KENYA 2019 TO 2022

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PUBLIC HEALTH DECISION-MAKING DURING COVID-19 PANDEMIC: A DETERMINANTS FRAMEWORK

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INVESTIGATION & MANAGEMENT OF A STREPTOCOCCUS PNEUMONIAE MENINGITIS EPIDEMIC IN DJADOUBANGO IVORY COAST

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UNDERSTANDING THE USE OFUTEROTONICS BY COMMUNITY HEALTHCARE PROVIDERS DURING HOME DELIVERY IN RURAL BANGLADESH

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ROUTINE CHILDHOOD IMMUNIZATION IN BURKINA FASO: IDENTIFYING AND REACHING ZERO-DOSE AND UNDER-VACCINATED CHILDREN IN A SECURITY CHALLENGED COUNTRY

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Mosquitoes - Biology and Genetics of Insecticide Resistance

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ASSESSING KNOCK DOWN RESISTANCE MUTATIONS IN THE DENGUE VECTOR (AEDES AEGYPTI) IN POSADAS, ARGENTINA

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USING TRANSCRIPTOMIC DATA TO IDENTIFY POTENTIAL MARKERS OF TRANSFLUTHRIN INSENSITIVITY INANOPHELES GAMBIAE SS

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(ACMCIP Abstract)

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IMPACT OF SUGAR DIET ON THE SENSITIVITY OF INSECTICIDES-RESISTANT MOSQUITOES

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EFFECTS OF AGRICULTURAL PESTICIDES ON THE SUSCEPTIBILITY AND FITNESS OF MALARIA VECTORS INRURALSOUTH-EASTERN TANZANIA

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SUSCEPTIBILITY OF ANOPHELES GAMBIAE SENSU LATO TO FOUR CLASSES OF INSECTICIDES AND THE ALLELIC FREQUENCIES OF GENES KDR L1014F AND ACE 1 G119S IN TWO VILLAGES OF THE CIRCLE OF KATI IN MALI

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ASSESSING INSECTICIDE RESISTANCE PROFILE OF ANOPHELES GAMBIAE S.L. FOR STRATEGIC VECTOR CONTROL DECISION MAKING IN GUINEA

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IDENTIFICATION OF INSECTICIDE RESISTANCE MARKERS IN ANOPHELES ARABIENSISAND ANOPHELES GAMBIAE FROM KENYA AND BENIN USING WEIGHTED GENE CORRELATION NETWORK ANALYSIS

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POPULATION GENOMICS OF THE INVASIVE MALARIA VECTOR ANOPHELES STEPHENSI IN ETHIOPIA

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CHARACTERIZATION OF A NEW LABORATORY COLONY OF ANOPHELES FUNESTUS MOSQUITOES ESTABLISHED IN IFAKARA, TANZANIA

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CO-OCCURRENCE OF MULTIPLEKDRMUTATIONS (F1534C, V1016I, V410L) INAEDES AEGYPTIFROM COASTAL AREAS IN GHANA AND ASSESSMENT OF THE ROLE OF MOSQUITO COIL IN CAUSING PYRETHROID RESISTANCE

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TEMPORAL RESISTANCE ESCALATION AND N1575Y MARKED DETECTION IN AN. GAMBIAE S.L POPULATION IN ATATAM, AN EXPERIMENTAL HUT STATION SITE IN SOUTHERN GHANA

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INSECTICIDE SUSCEPTIBILITY OF ANOPHELES ALBIMANUS IN THE TWO MAIN ACTIVE MALARIA FOCI OF HONDURAS

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ENTOMOLOGICAL STUDY OF MALARIA TRANSMISSION PARAMETERS AS A PRELUDE TO A PHASE III CLINICAL TRIAL OF ATTRATIVE TOXIC SUGAR BAIT (ATSB) STATIONS IN THE KOULIKORO REGION, MALI

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PHENOTYPIC INSECTICIDE RESISTANCE STATUS AND MOLECULAR DETECTION OF RESISTANCE MUTATIONS IN ANOPHELES GAMBIAE SENSU LATO IN THE GAMBIA

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Mosquitoes - Biology, Physiology and Immunity

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OVEREXPRESSING IMMUNE SIGNALING PROTEIN VAGO RESTRICTS DENGUE VIRUS INFECTION IN AEDES AEGYPTI MOSQUITOES

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DEFINING THE ROLE OF JUVENILE HORMONE AND ITS RECEPTOR, METHOPRENE-TOLERANT, IN ANOPHELES GAMBIAE REPRODUCTION AND PLASMODIUM TRANSMISSION

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(ACMCIP Abstract)

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COMPOSITIONAL DIVERSITY IN THE EARLY-DEVELOPMENTAL MICROBIOME OF AEDES ALBOPICTUS LEADS TO HETEROGENOUS IMMUNE EXPRESSION OF ADULT MOSQUITOES

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ALTERNATING CURRENT ELECTROPENETROGRAPHY REVEALS IN SITU BEHAVIORAL CHANGES OF AEDES AEGYPTI BITES ASSOCIATED WITH DENGUE VIRUS INFECTION

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TEMPERATURE DEPENDENCE OF ANOPHELES IMMUNE RESPONSE KINETICS AND VECTOR COMPETENCE

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(ACMCIP Abstract)

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DISHEVELLED ACTIVITY DIFFERS IN AEDES AEGYPTI AND CULEX TARSALIS INFECTED WITH RIFT VALLEY FEVER VIRUS

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MAMMALIAN HEMOPEXIN REGULATES OXIDATIVE STATE IN ANOPHELES MOSQUITOS DURING PLASMODIUM INFECTION

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TNF-A SIGNALING MEDIATES MOSQUITO CELLULAR IMMUNITY TO PROMOTE *PLASMODIUM* KILLING

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(ACMCIP Abstract)

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EFFECT OF LOW RELATIVE HUMIDITY OVER MORTALITY AND VIRAL VECTOR COMPETENCE IN AEDES AEGYPTI

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PLAYING SMART: HOW MALE AEDES AEGYPTI MOSQUITOES USE JUVENILE HORMONE TO MAKE FEMALES FITTER FOR REPRODUCTION BY SUPPRESSING THEIR IMMUNITY AND PROMOTING GUT MICROBIOTA EXPANSION

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WHOLE BODY VOLATILOMICS TO COMBAT VECTOR-BORNE DISEASE

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A MICROSCALE PLATFORM FOR IMAGING NEURAL CIRCUITS IN THE AFRICAN MALARIA MOSQUITO

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WARBURG METABOLISM IS CRITICAL FOR ANOPHELES MOSQUITOES ANTI-PLASMODIUM IMMUNE DEFENSE

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(ACMCIP Abstract)

Mosquitoes - Bionomics, Behavior and Surveillance

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SAMPLING EFFICIENCY AND MOLECULAR SCREENING OF YELLOW FEVER VIRUS IN AEDES MOSQUITOES IN NIGER DELTA REGION OF NIGERIA

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SURVEILLANCE OFARTHROPOD-BORNE VIRUSES INBENIN, WEST AFRICA 2020-2021: DETECTION OFDENGUE VIRUS 3 INAEDES AEGYPTI (DIPTERA: CULICIDAE)

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COMMON PREDATORS AND FACTORS INFLUENCING THEIR ABUNDANCES IN ANOPHELES FUNESTUS AQUATIC HABITATS IN RURAL SOUTHERN TANZANIA

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FINE-SCALE SPATIAL AND TEMPORAL DYNAMICS OF ANOPHELES GAMBIAE SWARMS IN SOUTH CENTRAL UGANDA

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ANOPHELES STEPHENSI: THE EMERGING VECTOR OF MALARIA IN THE REPUBLIC OF DJIBOUTI, HORN OF AFRICA

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VIRAL INFECTION PROFILE OF AEDES MOSQUITOES IN SOME FORESTED AREAS IN GHANA

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THE CHANGING ECOLOGY OF LARVAL MALARIA VECTORS IN THE CITY OF ACCRA, GHANA

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"FIGHTING AGAINST MALARIA IS EVERYONE'S CONCERN": A RANDOMISED CONTROL TRIAL ASSESSING THE ROLE OF INCENTIVES FOR ENCOURAGING LOCAL COMMUNITIES TO RECORDING AND UPLOAD MOSQUITO SOUND USING MOZZIWEAR APPLICATION

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MOLECULAR SURVEILLANCE LEADS TO THE FIRST DETECTION OF ANOPHELES STEPHENSI IN KENYA

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(ACMCIP Abstract)

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ARBOVIRUS SURVEILLANCE AND BLOOD-MEAL ANALYSIS OF MOSQUITOES IN JAMAICA

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PHENOTYPIC AND MOLECULAR INSECTICIDE RESISTANCE MONITORING OF *ANOPHELES* FUNESTUS MOSQUITOES TO GUIDE MALARIA CONTROL EFFORTS IN TANZANIA

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DEVELOPMENT, PILOTING, AND EVALUATION OF AN ENTOMOLOGICAL ADAPTIVE SAMPLING FRAMEWORK (EASF) IN MOZAMBIQUE AND GHANA

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INVESTIGATING THE SIBLING SPECIES DIVERSITY AND BREEDING BEHAVIOR OF THE MAJOR MALARIA VECTOR ANOPHELES GAMBIAE SENSU LATO IN SOUTHERN NIGERIA

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MALARIA TRANSMISSION RISK INDICES OF SECONDARY VECTORS FROM COASTAL & FOREST AXES OF NIGERIA

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AE. AEGYPTI AND OTHER MOSQUITO SPECIES COHABITATING IN THE CHEKWOPUTOI CAVE, UGANDA

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ROLE OF MALARIA VECTORS BLOOD-MEAL PREFERENCES ON MALARIA TRANSMISSION RISK IN MASENO AND KOMBEWA, WESTERN KENYA

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BITING PATTERN OF ANOPHELES ARABIENSIS, HUMAN BEHAVIOUR, AND SOCIO-ECONOMIC MALARIA RISK FACTORS IN AN IRRIGATED AGROECOSYSTEM IN WESTERN KENYA

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PREVALENCE OF MICROSPORIDIA MB AMONG ANOPHELES MOSQUITOES MAY BE ASSOCIATED WITH MICRO-ECOLOGICAL FACTORS OF BREEDING NICHES

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THE CHANGING LANDSCAPE OF DENGUE AND CHIKUNGUNYA VECTORS IN KENYA - ATHREAT TO PUBLIC HEALTH.

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THE DISTANCE-DENSITY RELATION TO INFORM LARVAL SOURCE MANAGEMENT: HOW FAR IN SUGAR IRRIGATION SCHEMES DO MALARIA MOSQUITOES BREED

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DETECTION OF INSECT-SPECIFIC VIRUSES IN MOSQUITOES COLLECTED IN URBAN AND FOREST FRAGMENT AREAS OF NORTHWEST OF SAO PAULO STATE, BRAZIL

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Mosquitoes - Epidemiology and Vector Control

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A METHODOLOGICAL FRAMEWORK TO UNDERSTAND THE DRIVERS OF DENGUE FOR DESIGNING OPERATIONALLY EFFICIENT AND SUSTAINABLE VECTOR CONTROL POLICIES IN ENDEMIC SETTINGS; A CASE STUDY FROM KALUTARA DISTRICT, SRI LANKA

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COMMUNITY PERCEPTIONS OF NUMBER OF MOSQUITOES AND MOSQUITO BITES AFTER USE OF WOLBACHIA SUPPRESSION AS A CONTROL METHOD FOR AEDES AEGYPTI MOSQUITOES IN PONCE, PUERTO RICO

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USING HIGH POWER ELECTRIC FIELDS TO REPEL MOSQUITOES Ndey Bassin Jobe, Krijn Paaijmans

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ASSOCIATION OF WATER AVAILABILITY AND AEDES AEGYPTI PUPAE AND ADULTS IN AN URBAN/RURAL MOSAIC IN NICARAGUA

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IMPACT OF STANDARD AND LONG-LASTING IVERMECTIN FORMULATIONS IN CATTLE AND BUFFALO ON WILD ANOPHELES SURVIVAL ON SUMBA ISLAND, INDONESIA

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SPATIAL ANALYSIS OF ENVIRONMENTAL DRIVERS AND MOSQUITO SPECIES ABUNDANCE ON MALARIA PREVALENCE IN KENYA FROM JANUARY 2019 TO JUNE 2021

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STUDY OF THE DIVERSITY OF MACRO INVERTEBRATES ASSOCIATED WITH THE LARVAL HABITATS OF ANOPHELES GAMBIAE COMPLEX IN TWO VILLAGES OF THE KATI DISTRICT MALI

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FEASIBILITY AND COMMUNITY ACCEPTANCE OF INSECTICIDE TREATED EAVE NETS AND INSECTICIDE TREATED WINDOW SCREENS IN TANZANIA

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COMBINING PYRETHROID-PIPERONYL BUTOXIDE (PBO) NETS WITH CLOTHIANIDIN-BASED INDOOR RESIDUAL SPRAYING IMPROVES CONTROL OF PYRETHROID-RESISTANT MALARIA VECTORS: AN EXPERIMENTAL HUT TRIAL IN SOUTHERN BENIN

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LONG-ACTING FORMULATION OF IVERMECTIN FOR EFFECTIVE MALARIA CONTROL: INSIGHTS FROM AN AGE-STRUCTURED MODELLING STUDY

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MOLECULAR TECHNIQUE FOR THE DETECTION OF WOLBACHIA (WANGA-MALI) WITHIN ANOPHELES GAMBIAE SENSU LATO IN MALI

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(ACMCIP Abstract)

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ENDECTOCIDES TO COMPLEMENT THE MALARIA VECTOR CONTROL TOOLKIT: EXPECTED AND UNEXPECTED SIDE-EFFECTS OF IVERMECTIN ON MALARIA VECTORS

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IS THE UK PREPARED FOR A MOSQUITO-BORNE DISEASE EMERGENCE? A PROTOCOL FOR FIELD WORK

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YELLOW FEVER VACCINATION COVERAGE IN ARID AREAS OF KENYA AN ASSESSMENT FOLLOWING OUTBREAK, 2022

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DETECTION OF ANTIBODIES AGAINST SALIVARY PROTEINS OF AE. ALBOPICTUS AND CX. QUINQUEFASCIATUS IN NORTHERN CARDINALS IN LOUISIANA

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ENTOMOLOGICAL SURVEILLANCE STRENGTHENING IN INDIA: MEETING THE CHALLENGES

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EVALUATION OF SPATIAL REPELLENT PRODUCTS AGAINST MALARIA VECTOR SPECIES IN PAPUA NEW GUINEA

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NON-INFERIORITY EVALUATION OF PERMANET® DUAL TO INTERCEPTOR® G2 AND SUPERIORITY TO PERMANET® 3.0 AT THE 'DALA SUNA' EXPERIMENTAL HUTS IN SIAYA, KENYA

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RESIDUAL BIO-EFFICACY OF ATTRACTIVE TARGETED SUGAR BAIT STATIONS TARGETING MALARIA VECTORS DURING SEASONAL DEPLOYMENT IN WESTERN PROVINCE, ZAMBIA

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IMPACT OF VOLATILE PYRETHROID SPATIAL REPELLANT ON THE ABUNDANCE OF OUTDOOR BITING ANOPHELINES IN A LOW MALARIA TRANSMISSION SETTING, SOUTHERN ZAMBIA

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EXPERIMENTAL HUT AND FIELD EVALUATIONS OF THE THERMACELL® BASED METOFLUTHRIN SPATIAL REPELLENT AGAINST PYRETHROID RESISTANT *ANOPHELES* FUNESTUS IN SIAYA, WESTERN KENYA

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APPLICATION OF VECTOR CONTROL OPTIMIZATION MODEL (VCOM) ON EAVE RIBBONS FOR MALARIA VECTOR CONTROL IN KILOMBERO VALLEY, TANZANIA

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COMMUNITY-BASED BIOLARVICIDING FOR MALARIA CONTROL IN TANGA REGION, TANZANIA

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PILOT STUDY OFBACILLUS THURINGIENSIS ISRAELENS IS IN THE CONTROL OF PERSISTENT DRY SEASON BREEDING MALARIA VECTORS IN MALI

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Mosquitoes - Molecular Biology, Population Genetics and Genomics

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CHARACTERIZATION OF THE PUTATIVE ANOPHELES FUNESTUS-CYP18A1 ORTHOLOG IN ANOPHELES GAMBIAE

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TRANSCRIPTOME-WIDE DISCOVERY AND QUANTIFICATION OF LNCRNA EXPRESSION IN VARIOUS CONTEXTS IN THE MALARIA MOSQUITO ANOPHELES GAMBIAE FROM RNA-SEQ DATASETS

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ENDOGENOUS NON-RETROVIRAL RNA VIRUS ELEMENTS IN ANOPHELES DARLINGI

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ANALYSIS OF THE GENETIC VARIATION OF THE FRUITLESS GENE WITHIN THE ANOPHELES GAMBIAE (DIPTERA: CULICIDAE) COMPLEX POPULATIONS IN AFRICA

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(ACMCIP Abstract)

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UNRAVELLING THE GENOMIC AND PHENOTYPIC DIVERGENCE WITHIN SUB-POPULATIONS OF TWO MAJOR MALARIA VECTORS: ANOPHELES GAMBIAE AND ANOPHELES COLUZZII

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IDENTIFICATION OF SEX-SPECIFIC PATTERN OF THE DOUBLESEX GENE IN THE MOSQUITO CULEX PIPIENS

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CHIP-SEQ STUDY IDENTIFIES TARGETS OF THE CLOCK GENE, PAR DOMAIN PROTEIN 1 (PDP1), THAT REGULATE DIAPAUSE IN CULEX PIPIENS

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ASSESSING THE FEASIBILITY OF TWO 'MULTIPLEXED' STRATEGIES IN ANOPHELES STEPHENSI MOSQUITOES

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GEOGRAPHICAL DISTRIBUTION AND GENETIC POPULATION STRUCTURE OF AEDES ALBOPICTUS IN THE DEMOCRATIC REPUBLIC OF THE CONGO

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GENETIC VARIATION AND TRANSCRIPTIONAL ENHANCER ACTIVITY IN THE MALARIA VECTOR, ANOPHELES COLUZZII

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IDENTIFICATION OF H3K27ME2 SITES THAT CAUSE VARIOUS DIAPAUSE PHENOTYPES IN THE MOSQUITO CULEX PIPIENS

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GENETIC AND NEURAL BASIS OF ATTRACTION OF GRAVID AEDES AEGYPTI TO AFRICAN BERMUDA HAY INFUSIONS

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LEVERAGING FIELD DNA SEQUENCING TO MEASURE SPATIOTEMPORAL VARIATION IN MOSQUITO COMMUNITY COMPOSITION AND FEEDING BEHAVIOR IN RURAL MADAGASCAR

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CHARACTERIZATION OF THE VIROME IN AEDES AEGYPTI VECTOR OF CONDORCANQUI PROVINCE, AMAZONAS REGION, THROUGH SHOTGUN METAGENOMIC SEQUENCING

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EXAMINING WEST NILE VIRUS INFECTION OFCULEX TARSALISMIDGUTS AT SINGLE-CELL RESOLUTION

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EVOLUTIONARY HISTORY OF SYLVATIC POPULATIONS OF AN. GAMBIAE AND IMPLICATIONS FOR MALARIA TRANSMISSION Lemonde Bouafou, Josquin Daron, Diego Ayala

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TEMPORAL AND COEVOLUTIONARY ANALYSES REVEAL THE EVENTS DRIVING THE EMERGENCE AND CIRCULATION OF HUMAN MAMASTROVIRUSES

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A COMPARATIVE ANALYSIS OF COMMERCIAL ANTI-DENGUE VIRUS IGG TESTS TO AID DENGUE IMMUNIZATION PROGRAMS

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CHALLENGES TOWARDS CLINICAL ALPHAVIRUS ENCEPHALITIS DIAGNOSTICS IN A DENGUE ENDEMIC COUNTRY

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POST-DISCHARGE DEATHS AMONG SEVERE ACUTE RESPIRATORY INFECTION PATIENTS WITH SARS-COV-2 IN BANGLADESH DURING 2020-2022

Md Ariful Islam, Md Zakiul Hassan, Tanzir Ahmed Shuvo, Md Kaousar Ahmmed, Probir Kumar Ghosh, Syeda Mah-E- Muneer, Mohammed Ziaur Rahman, Fahmida Chowdhury

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RATS' FEEDING BEHAVIOR AT FRUIT TREES IN BANGLADESH AND IMPLICATIONS FOR PATHOGEN SPILLOVER

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PREVALENCE AND PREDICTORS OF PERSISTENT SYMPTOMS POST-ACUTE COVID-19 INFECTION AMONG A COHORT OF FRONTLINE HEALTHCARE WORKERS IN BANGLADESH

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PSYCHIATRIC SEQUELAE AND PSYCHOSOCIAL IMPACT OF LASSA FEVER IN SURVIVORS IN EDO STATE, NIGERIA

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SECONDARY ATTACK RATES AND DETERMINANTS OF SEVERE ACUTE RESPIRATORY SYNDROME CORONAVIRUS 2 (SARS-COV-2) HOUSEHOLD TRANSMISSION IN PAKISTAN: A CASE-ASCERTAINED PROSPECTIVE, LONGITUDINAL STUDY

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COMPARISON OF THE PERFORMANCE OF RNA EXTRACTION KITS USED IN THE DIAGNOSIS OF COVID19 AGAINST THE INHOUSE TRIZOL RNA EXTRACTION METHOD

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CHANGING PATTERN OF DENGUE SEROTYPE IN THE SINDH REGION OF PAKISTAN 2006-2022

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SEVERE MORBIDITY AND MORTALITY FROM RIFT VALLEY FEVER DISEASEBETWEEN NOVEMBER 2017 AND MARCH 2020 AMONG HUMANS IN UGANDA

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KNOWLEDGE, AND PERCEPTIONS OF COVID-19 INFECTION AMONG PEOPLE REPORTING FOR COVID-19 VACCINATION IN HEALTH FACILITIES IN MALAWI

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A SIMULATION-BASED METHOD TO INFORM SEROSURVEY DESIGN TO ESTIMATE DENGUE FORCE OF INFECTION USING EXISTING BLOOD SAMPLES

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LASSA FEVER OUTBREAK IN GHANAIAN COMMUNITIES, FEBRUARY 2023

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CLINICAL EVIDENCE ON DISEASE BURDEN OF THE MOSQUITO-BORNE CHIKUNGUNYA VIRUS (CHIKV) : A SYSTEMATIC LITERATURE REVIEW

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MONKEYPOX VIRUS OUTBREAK IN GHANA

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NEUTRALIZING ANTIBODY TITER AFTER COMPLETE SARS-COV-2 VACCINATION

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LOW SEROPREVALENCE OF EBOLA VIRUS IN HEALTH CARE PROVIDERS IN AN ENDEMIC REGION (TSHUAPA PROVINCE) OF THE DEMOCRATIC REPUBLIC OF THE CONGO

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MOLECULAR CHARACTERIZATION OF SARS-COV-2 IN HEALTHCARE PERSONNEL WITH THIRD GENERATION SEQUENCING IN LIMA, PERU, 2021-2022

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ENTERIC VIRAL PATHOGENS AND CHILD GROWTH: INSIGHTS FROM SOUTH ASIA AND SUB-SAHARAN AFRICA

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PILOT SURVEILLANCE EVALUATION USING LEFTOVER MEASLES/RUBELLA NEGATIVE SURVEILLANCE SPECIMENS TO DETECT ARBOVIRUS INFECTIONS

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ESTIMATING THE INCIDENCE OF DENGUE IN INTERNATIONAL TRAVELERS FROM NON-ENDEMIC COUNTRIES

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ARBOVIRUS DISEASE SURVEILLANCE AMONG FEBRILE PATIENTS IN KILIMANJARO, TANZANIA, 2016-2019

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ACCEPTANCE AND HESITANCY TOWARDS COVID-19 VACCINE AMONG HEALTHCARE WORKERS IN BUKAVU, EASTERN DEMOCRATIC REPUBLIC OF CONGO

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CIRCULATING NON-DENGUE FLAVIVIRUSES IMPACT DENGUE VIRUS DIAGNOSTIC TESTING AND DISEASE RISK IN CAMBODIA

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FORECASTING DENGUE INCIDENCE: REVIEW OF METHODOLOGY AND COVARIATES

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COMPARISON OF REPORTED PRIOR DENGUE INFECTION WITH LABORATORY-CONFIRMATION OF SEROSTATUS AMONG 9 TO 14-YEAR-OLD CHILDREN IN CEBU, PHILIPPINES

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DETECTION OF OTHER HUMAN CORONAVIRUSES (HCOVS) AND CROSS- REACTIVITY AGAINST SARS-COV-2 IN CLINICAL SAMPLES

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PREVENTION AND CONTROL OF VIRAL HEMORRHAGIC FEVER IN LEARNING INSTITUTIONS IN UGANDA

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A COHORT STUDY IN GHANA REVEALS HIGH SEROPREVALENCE OF MONKEYPOX IN GHANA

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FACTORS ASSOCIATED WITH CHIKUNGUNYA INFECTION AMONG PREGNANT WOMEN IN GRENADA, WEST INDIES

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FILOVIRUS VIRUS GLYCOPROTEIN - EPITOPE MAPPING, PSEUDOTYPING, AND INFECTIVITY TARGETING

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TRANSMISSION DYNAMICS OF DENGUE VIRUS IN LARGE AND SMALL POPULATION CENTERS IN NORTHERN ECUADOR USING A PHYLOGENETIC ANALYSIS

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DETECTING AND MONITORING THE RE-EMERGENCE OF DENGUE VIRUSES IN PUERTO RICO WITH GENOMIC SURVEILLANCE

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NEAR-COMPLETE GENOME SEQUENCES OF DENGUE VIRUS 3 ISOLATES ASSOCIATED WITH OUTBREAKS FROM DIFFERENT REGIONS OF KENYA IN 2011 AND 2019

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DEVELOPMENT AND CHARACTERIZATION OF BARCODED POWASSAN VIRUS TO ANALYZE BOTTLENECK EVENTS DURING TICK TRANSMISSION

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GENOMIC SURVEILLANCE OF SARS-COV-2 VARIANTS DURING DIFFERENT WAVES OF COVID-19 IN MALI

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PROFILING OF DENGUE SEROTYPE -2 SPECIFIC MICRORNA EXPRESSION IN THE SERUM SAMPLES OF DENGUE PATIENTS IN SABAH, MALAYSIA

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Viruses - Field and ecological studies of viruses, including surveillance and spillover risk and emergence

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METAGENOMICS ANALYSES REVEALS PRESENCE OF THE MERIDA-LIKE VIRUS IN GEORGIA (COUNTRY)

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CO-INFECTION OF DENGUE AND CHIKUNGUNYA IN BENGALURU CITY, SOUTHERN INDIA - A MOLECULAR SURVEILLANCE APPROACH

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SEROLOGICAL EVIDENCE OF PRIOR EXPOSURE TO EMERGING PATHOGENS IN RURAL LIBERIA, WEST AFRICA Emmanuel Kerkula

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MAYARO VIRUS EXPOSURE IN FREE_RANGING BATS OF ANIMAL_ HUMAN INTERFACE AREAS, MIDWEST BRAZIL

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EVIDENCE OF CORONAVIRUS TRANSMISSION AMONG PTEROPUS MEDIUS IN BANGLADESH, 2019-2021

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DETECTED ARBOVIRUSES IN EASTERN MEDITERRANEAN REGION AND SOUTH EAST ASIAN REGION MOSQUITO POPULATIONS: A SYSTEMATIC REVIEW

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FACTORS RESPONSIBLE FOR POST-DISCHARGE DEATH IN COVID PATIENTS

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ROLE OF TELEHEALTH AND COMMUNITY MOBILIZATION IN MANAGING COVID-19 WITHIN THE CONTEXT OF A DISTRICT HEALTH SYSTEM IN MALAWI

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DISTRIBUTION AND OUTCOMES OF ANIMAL BITES IN THE MBALE REGION OF EASTERN UGANDA

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MOSQUITO ID: NANOPORE SEQUENCING OUT OF A SUITCASE LAB AS AN EARLY WARNING SYSTEM FOR EMERGING INFECTIOUS DISEASES

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SIMIAN ARTERIVIRUSES: A ZOONOTIC THREAT?

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CASE AND WASTEWATER SURVEILLANCE TO MONITOR COVID-19 AND OTHER INFECTIOUS DISEASES IN ATLANTA K-12 SCHOOLS

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DETECTION OF HUMAN CORONAVIRUSES AMONG PATIENTS WITH RESPIRATORY TRACT INFECTIONS IN GHANA

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USE OF LIGHTWEIGHT GPS DATA LOGGERS TO TRACK HORSESHOE BAT MOVEMENT PATTERNS IN EASTERN UGANDA

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Viruses - Immunology

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IGG HYPORESPONSIVENESS AFTER DENGUE VIRUS INFECTION IN KENYAN CHILDREN

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CHIKUNGUNYA VIRUS SPECIFIC T CELLS PREDOMINANTLY RECOGNIZE VIRAL STRUCTURAL PROTEINS

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

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MALARIA-EXPOSED UGANDANS EXHIBIT A DIFFERENTIAL SARS-COV-2-SPECIFIC T CELL RESPONSE

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17DD-BASED YELLOW FEVER INACTIVATED VACCINE IN ASSOCIATION WITH THE NS3 HELICASE DOMAIN INDUCES T LYMPHOCYTE RESPONSES AND SEROCONVERSION TO YELLOW FEVER VIRUS IN A MURINE MODEL

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ANTIBODY-DEPENDENT COMPLEMENT ACTIVATION AND DENV3 DISEASE SEVERITY

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STRUCTURE-GUIDED DENGUE VIRUS TYPE 2 SUBUNIT VACCINE DESIGN TO FOCUS ANTIBODY RESPONSE TO POTENT, NEUTRALIZING EPITOPES ON VIRAL ENVELOPE PROTEIN

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MOLECULAR ANALYSIS OF THE ANTIBODY REPERTOIRE ELICITED AFTER YELLOW FEVER VACCINATION

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CONSERVED MONOCYTE RESPONSES TO ACUTE RNA VIRUS INFECTION

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ANTIBODIES AGAINST THE SARS-COV-2 DELTA VARIANT SHOWED CROSS-REACTIVITY TO INFLUENZA VIRUSES

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ROLE OF THE PLACENTA SPECIFIC CHROMOSOME 19 MICRORNA CLUSTER DURING ZIKA INFECTION

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USE OF A STABILIZED CONFORMATIONAL DENGUE VIRUS SEROTYPE 2 ENVELOPE ANTIGEN TO ISOLATE MEMORY-DERIVED NEUTRALIZING MONOCLONAL ANTIBODIES FROM A CONVALESCENT PATIENT.

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TISSUE-SPECIFIC T-CELL RESPONSES AMONG 44 FATAL COVID-19 CASES

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SEROPREVALENCE OF SARSCOV2 ANTIBODIES IN THE GENERAL POPULATION OF BAMAKO, MALI

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IMPACT OF DENGUE VIRUS STRAIN AND MATURATION STATE ON DETECTION OF NEUTRALIZING ANTIBODIES INDUCED BY NATURAL INFECTION AND VACCINATION

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Malaria - Antimalarial Resistance and Chemotherapy

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MOLECULAR SURVEILLANCE OF SULFADOXINE-PYRIMETHAMINE AND AMODIAQUINE RESISTANCE MARKERS IN KARAMOJA REGION, AN AREA IMPLEMENTING SEASONAL MALARIA CHEMOPREVENTION IN NORTHEASTERN UGANDA

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MOLECULAR MARKERS ASSOCIATED WITH ANTIMALARIAL DRUG RESISTANCE AND DISTRIBUTION OF MSP1 AND MSP2 ALLELIC FAMILIES IN RURAL ENDEMIC SETTINGS, NORTHWESTERN BURKINA FASO

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MOLECULAR MARKERS OF ANTIMALARIAL RESISTANCE, AN EXTENSION OF THERAPEUTIC EFFICACY MONITORING IN BURKINA FASO, 2021

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ASSESSMENT OF *PLASMODIUM FALCIPARUM* CLONALITY AND DRUG RESISTANCE IN AN ARTEMETHER-LUMEFANTRINE DRUG EFFICACY TRIAL IN NORTHWEST ETHIOPIA

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TEMPORAL GENOMIC ANALYSIS OF *PLASMODIUM FALCIPARUM* REVEALS INCREASED PREVALENCE OF PFAP2MU S160N AND PFMDR1 Y184F MUTATIONS ASSOCIATED WITH REDUCED PARASITE CLEARANCE OR SUSCEPTIBILITY TO LUMEFANTRINE IN CHOMA DISTRICT, SOUTHERN PROVINCE, ZAMBIA

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THE IMPACT OF SMC ON *PLASMODIUM FALCIPARUM* RESISTANCE TO SULFADOXINE PYRIMETHAMINE (SP) AND AMODIAQUINE (AQ) OVER A 2 YEAR PERIOD OF SMC IMPLEMENTATION IN NORTHERN MOZAMBIQUE

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ASSESSMENT OF QUANTITATIVE PCR FOR DETERMINATION OF DRUG RESPONSE OF *PLASMODIUM FALCIPARUM* IN THE ABSENCE OF DNA PURIFICATION

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COX UNIVARIATE AND MULTIVARIATE ANALYSIS OF THE DETERMINANTS OF PARASITE RECURRENCE BY DAY 28 AFTER REPETITIVE TREATMENT OF UNCOMPLICATED MALARIA WITH ARTEMETHER-LUMEFANTRINE DURING TWO YEARS IN MALI

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HEALTH SEEKING BEHAVIORS AND BELIEFS SURROUNDING MALARIA IN THREE EAST AND SOUTHERN AFRICAN NEW GEOGRAPHIES PILOTING SEASONAL MALARIA CHEMOPREVENTION: A SECONDARY QUALITATIVE ANALYSIS

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RARE *PLASMODIUM FALCIPARUM* CORONIN GENE MUTATIONS FOLLOWING ACT TREATMENT OF MALARIA IN SOUTH WESTERN NIGERIA

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CHANGES IN SUSCEPTIBILITY OF *PLASMODIUM* FALCIPARUM TO LUMEFANTRINE IN EASTERN AND NORTHERN UGANDA OVER TIME

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EX VIVO SUSCEPTIBILITY OF *PLASMODIUM FALCIPARUM* ISOLATES TO STANDARD ANTIMALARIALS IN BOBO-DIOULASSO, BURKINA FASO

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LACK OF CORRELATION BETWEEN *IN VITRO* POTENCY AND *IN VIVO* EFFICACY OF MADURAMICIN AGAINST *PLASMODIUM* LIVER STAGES

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MALARIA DRUG RESISTANCE MARKERS MOLECULAR SURVEILLANCE USING ANOPHELES MOSQUITOES IN BURKINA FASO

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PFCORONIN MUTATIONS CONFER ARTEMISININ RESISTANCE IN PLASMODIUM FALCIPARUM BY ALTERING ACTIN HOMEOSTASIS: A POTENTIAL NEW PLAYER IN THE ENDOCYTIC AND VESICULAR TRANSPORT PATHWAY

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KELCH 13 AND NON-KELCH 13 MEDIATED ARTEMISININ DRUG RESISTANCE

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SUSCEPTIBILITY OF*PLASMODIUM FALCIPARUM*ISOLATES TO DIHYDROARTEMISININ IN NORTHERN AND EASTERN UGANDA IN 2021 AND 2022

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DECREASED EX VIVO SUSCEPTIBILITY OF *PLASMODIUM VIVAX* TO CHLOROQUINE IN NORTHWEAST COLOMBIA

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THE CONTINUED EXPANSION OF ARTEMISININ PARTIAL RESISTANCE MUTATION KELCH13 561H AND EMERGENCE OF 675V IN RUKARA IN 2021

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

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INCREASED RATE OF ARTEMISININ-BASED COMBINATION TREATMENT FAILURE IN PATIENTS RETURNING FROM SUB-SAHARAN AFRICA WITH *P. FALCIPARUM* MALARIA; THE ROLE OF PFCORONIN GENE MUTATION

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DETECTION OF *PLASMODIUM FALCIPARUM* KELCH 13 GENE MUTATIONS IN CLINICAL SAMPLES FROM FOUR SITES ACROSS KENYA REVEALS INTENSE GENOMIC EVENTS THAT COULD PURIFY RESISTANCE

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Malaria - Diagnosis - Challenges and Innovations

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IDENTIFICATION AND QUANTIFICATION OF *PLASMODIUM* FRAGILE IN AN *IN VITRO* CULTURE SYSTEM AND NON-HUMAN PRIMATE MODEL

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LOW FREQUENCY OF HISTIDINE-RICH PROTEIN 2/3 (HRP2/3) AND FLANKING GENE DELETIONS CORRELATES WITH THE HIGH DIAGNOSTIC PERFORMANCE OF HRP2-BASED MALARIA RAPID DIAGNOSTIC TESTS IN CAMEROON

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PRESENCE OF PFHRP2/3 DELETIONS INCLUDING POLYCLONAL INFECTIONS IN AN INTENSE MALARIA TRANSMISSION AREA OF SIAYA COUNTY, WESTERN KENYA

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PREVALENCE OF PFHRP2 AND PFHRP3 DELETIONS, AND PFKELCH13 MUTATIONS ASSOCIATED WITH PARTIAL RESISTANCE TO ARTEMISININ DERIVATIVES IN SOMALILAND

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ONE-STEP MULTIPLEX DIGITAL PCR FOR THE DETECTION OF PFHRP2 AND PFHRP3 DELETIONS IN POLYCLONAL INFECTIONS

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CHANGES IN MALARIA TEST POSITIVITY RATE FOLLOWING SCALE UP OF LIFE-SAVING MALARIA CONTROL INTERVENTION IN EBONYI STATE, SOUTH EAST NIGERIA

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IMPROVING QUALITY OF MALARIA MICROSCOPY THROUGH ONSITE COACHING AND MENTORSHIP TO HEALTH FACILITIES IN TANZANIA

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

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IMPROVING MALARIA DIAGNOSIS THROUGH QUALITY ASSURANCE IN RWANDA FY 2021-2022

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THE TESTSMART TRIAL: RESULTS FROM A CLUSTER-RANDOMIZED TRIAL OF MALARIA DIAGNOSTIC TESTING AND CONDITIONAL SUBSIDIES TO TARGET ACTS IN THE RETAIL SECTOR IN KENYA AND NIGERIA

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IMPLEMENTATION OF TWO-STEP MALARIA RDT DETECTIONPFHRP2/PLDH COMBINING WITH POINT-OF-CARE TESTS FOR BACTERIAL INFECTIONS IN THE MANAGEMENT OF FEBRILE DISEASES IN CHILDREN UNDER-5 YEARS IN BURKINA FASO

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SEROLOGICAL MARKERS PREDICT *PLASMODIUM VIVAX* RELAPSES IN A RETURNING INDONESIAN SOLDIER COHORT

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THRESHOLD LIMITS OF DETECTION AND QUANTIFICATION OF MALARIA PARASITES IN DRIED BLOOD SPOT: A COMBINED APPROACH OF MID-INFRARED SPECTROSCOPY AND MACHINE LEARNING

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DETECTION OF *PLASMODIUM* MALARIAE AND *PLASMODIUM KNOWLESI*THROUGH IMPROVEMENTS IN MICROSCOPY SERVICES IN CAMBODIA

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LOW PREVALENCE OF *PLASMODIUM FALCIPARUM* HISTIDINE-RICH PROTEIN 2 AND 3 GENE DELETIONS—A MULTIREGIONAL STUDY IN CENTRAL AND WEST AFRICA

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HIGH PREVALENCE OF *PLASMODIUM FALCIPARUM* HRPII-DELETED VARIANTS ASSOCIATED WITH LOW RAPID DIAGNOSTIC EFFICACY 13 YEARS AFTER INTRODUCTION OF MALARIA RDTS IN EASTERN ZIMBABWE

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

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FITNESS COST OF PFHRP2/3 GENE DELETION & K13 R622I MUTATION IN NATURAL INFECTIONS IN ETHIOPIA: TRANSMISSION POTENTIAL OF PARASITES EVALUATED BY DIRECT MEMBRANE FEEDING ASSAYS

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PERCEPTIONS OF FACILITY-BASED AND COMMUNITY HEALTH WORKERS IN KENYA: IMPLICATIONS FOR PROGRAMS BASED ON FINDINGS FROM THE KENYA MALARIA BEHAVIOR SURVEY

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A NOVEL HUMANIZED MURINE MODEL TO ASSESS PRIMAQUINE-INDUCED HEMOLYSIS IN G6PD DEFICIENCY

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PREDICTING OPTIMAL ANTIMALARIAL DRUG COMBINATIONS FROM A STANDARDIZED PLASMODIUM FALCIPARUM HUMANIZED MOUSE MODEL

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MODELLING THE HAEM DETOXIFICATION PATHWAY IN PLASMODIUM FALCIPARUM TO AID IN TARGET DECONVOLUTION AND MECHANISM OF ACTION STUDIES

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THE ACTIVITY OF NOVEL SLOW-ACTION ANTIPLASMODIAL 1,3,4-OXADIAZOLES IS ASSOCIATED WITH A *P. FALCIPARUM* PALMITOYLTRANSFERASE

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A SYSTEMS BIOLOGY APPROACH TO UNDERSTAND THE MECHANISMS OF ACTION OF KALIHINOL, A POTENT NEW ANTIMALARIAL

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EVALUATION OF THE *IN VITRO* GAMETOCYTOCIDAL ACTIVITY OF TAFENOQUINE IN COMBINATIONS WITH METHYLENE BLUE AND OTHER ANTIMALARIAL COMPOUNDSTAFENOQUINE IN COMBINATIONS WITH METHYLENE BLUE AND OTHER ANTIMALARIAL COMPOUNDS

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A FIRST-IN-HUMAN (FIH) SAFETY, TOLERABILITY, AND PHARMACOKINETICS (PK) STUDY OF MMV367, A NEW CANDIDATE ANTI-MALARIAL AGENT FOR ACUTE UNCOMPLICATED MALARIA

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EFFICACY OF PRAZIQUANTEL FOR TREATMENT OF PLASMODIUM FALCIPARUM INFECTION IN ASYMPTOMATIC GABONESE ADULTS

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ETHIOPIAN *PLASMODIUM VIVAX* HYPNOZOITES FORMATION DYNAMICS AND THEIR SUSCEPTIBILITY TO REFERENCE ANTIMALARIAL DRUGS

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VIRTUAL SCREENING OF THE NATURAL COMPOUNDS LIBRARY IDENTIFIES NATURE IDENTICAL SYNTHETIC COMPOUND METHYL GREVILLATE AS A NOVEL PFHDAC1 INHIBITOR WITH STEREOSPECIFIC MULTISTAGE ANTIMALARIAL ACTIVITY AND IN VIVO EFFICACY

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POPULATION PK ANALYSIS OF CHLOROQUINE IN A HUMANIZED MOUSE MODEL OF *P. FALCIPARUM* MALARIA

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OPTIMAL DOSING OF SINGLE LOW DOSE PRIMAQUINE FOR TRANSMISSION BLOCKING OF *P. FALCIPARUM* IN CHILDREN.

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Malaria - Elimination

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ASSESSMENT OF PV BURDEN IN A MALARIA PRE-ELIMINATION CONTEXT AMONG HARD-TO-REACH POPULATIONS: PV SEROLOGY AND PCR AMONG CLANDESTINE GOLD-MINERS IN THE GUIANA SHIELD (2015-2019)

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IMPLEMENTATION OF MALARIA COMMUNITY CASE MANAGEMENT (MCCM) IN TANZANIA: SUCCESSES, CHALLENGES, AND WAY FORWARD

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LESSONS LEARNED FROM MADAGASCAR NATIONAL MALARIA PROGRAM PERFORMANCE REVIEW 2022

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GENERATION OF PLASMODIUM-RESISTANT AN. GAMBIAE

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ENTOMOLOGICAL MONITORING IN ZANZIBAR TO SUPPORT MALARIA ELIMINATION EFFORTS

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USING EVIDENCE-BASED RESEARCH TO IMPROVE TIMELY DETECTION, DIAGNOSIS, AND TREATMENT OF MALARIA IN GUATEMALA'S PUSH FOR ELIMINATION

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CLUSTERING OF ASYMPTOMATIC MALARIA INFECTIONS IN NEIGHBORING HOUSEHOLDS: REACTIVE CASE DETECTION REVIEW AND META-ANALYSIS FROM 2010 - 2022

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(ACMCIP Abstract)

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INTRA-HOST CLONAL DYNAMICS SHAPE CHRONIC PLASMODIUM FALCIPARUM INFECTIONS THROUGH THE DRY SEASON

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HIGH-THROUGHPUT GENOTYPING OF *PLASMODIUM VIVAX* IN THE PERUVIAN AMAZON VIA MOLECULAR INVERSION PROBES

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PLASMODIUM VIVAX SHOWS HIGH GENETIC DIVERSITY AND RAPID LOCAL ADAPTATION IN A REMOTE COMMUNITY FROM THE PERUVIAN AMAZON REGION

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GENOME STRUCTURE OF PFHRP2/3-DELETED PLASMODIUM FALCIPARUM: DELETION BREAK-POINTS AND CONSEQUENCES OF THE DELETION

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A NOVEL PROBABILISTICALLY MODEL BASED ON GENETIC DATA FOR ESTIMATING *PLASMODIUM VIVAX* RELAPSES AFTER RADICAL CURE TREATMENT

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MOLECULAR SURVEILLANCE OF MALARIA PARASITES IN AN INDIGENOUS COMMUNITY IN THE PERUVIAN AMAZON

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COMPARISON OF MOLECULAR SURVEILLANCE METHODS TO ASSESS CHANGES IN THE POPULATION GENETICS OF *PLASMODIUM FALCIPARUM* IN HIGH TRANSMISSION

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DIFFERENTIAL REGULATION OF PFMDR2 AND PFK13 TRANSCRIPTS IN KENYAN CHILDREN WITH SEVERE MALARIAL ANEMIA: POTENTIAL IMPACT ON ARTEMISININ-BASED COMBINATION THERAPY RESPONSES

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SPATIAL CONNECTIVITY, IMPORTATION AND TRANSMISSION FLOW OF *PLASMODIUM FALCIPARUM* IN MOZAMBIQUE USING MICROHAPLOTYPE DATA

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EXPANDING THE GLOBAL WHOLE GENOME SEQUENCE DATASET OF PLASMODIUM FALCIPARUM

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PREVALENCE OF CYP2C8 POLYMORPHISM IN CHILDREN AGED 3 TO 59 MONTHS IN BOBO DIOULASSO, BURKINA FASO

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INFERRING FORCE OF INFECTION FROM MOLECULAR-BASED ESTIMATES OF MULTIPLICITY OF INFECTION IN FALCIPARUM MALARIA WITH AN APPLICATION TO INTERVENTION IN NORTHERN GHANA

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POPULATION DYNAMICS AND GENOTYPIC VARIATION OF *PLASMODIUM VIVAX* IN A LOW-ENDEMICITY AREA OF SOUTH AMERICA BETWEEN 2012 AND 2020

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GENETIC CONNECTIVITY AND TRANSMISSION METRICS OF *PLASMODIUM FALCIPARUM* IN ZAMBEZI REGION, NORTHERN NAMIBIA

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BENCHMARKING IDENTITY-BY-DESCENT CALLERS FOR PLASMODIUM FALCIPARUM

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THE RISK OF VACCINE GENOTYPE REPLACEMENT FOR *PLASMODIUM FALCIPARUM*

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Malaria - Immunology

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INFLAMMATORY MARKERS ASSOCIATED WITH IN-HOSPITAL MORTALITY IN CHILDREN WITH SEVERE MALARIA

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LA TROMBOCITOPENIA GRAVE SE ASOCIA CON AUTOANTICUERPOS CONTRA LA FOSFATIDILSERINA EN LA INFECCIÓN POR *PLASMODIUM VIVAX*

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MULTI-STAGE HUMORAL IMMUNITYTO *P. FALCIPARUM* MALARIA IN A LONGITUDINAL COHORT OF CHILDREN

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ASSOCIATION OF NOVEL IGG3 ALLOTYPE WITH MALARIA IN CHILDREN FROM SEPIK REGION OF PAPUA NEW GUINEA

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A CONSERVED EPITOPE IN VAR2CSA IS TARGETED BY CROSS-REACTIVE ANTIBODIES ORIGINATING FROM *PLASMODIUM VIVAX* DUFFY BINDING PROTEIN

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THE PRESENCE OF DUFFY BINDING PROTEIN II PEPTIDES-SPECIFIC CD4+ T CELL RESPONSES IN *PLASMODIUM VIVAX* PATIENTS

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DYNAMICS OF NEUTROPHILS ACTIVITIES ACCORDING TO MALARIA INFECTION STATUS

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BRAIN SEQUESTERED M1-LIKE MACROPHAGES EXPRESS ABUNDANT LEVELS OF CD163 DURING EXPERIMENTAL CEREBRAL MALARIA IN MICE

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(ACMCIP Abstract)

IMPACT OF *PLASMODIUM FALCIPARUM* MALARIA ON SARS-COV-2 ANTIBODY RESPONSES IN KENYA AND BURKINA FASO (MALCOV)

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LOCAL GUT MICROBIOTA TOLEROGENIC HOMEOSTASIS NEGATIVELY IMPACTS ANTI-*PLASMODIUM* SYSTEMIC IMMUNITY

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(ACMCIP Abstract)

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ROLE OF IGE RESPONSE AGAINST MALARIA INFECTION IN CHILDREN UNDER FIVE YEAR OLD, LIVING IN MALARIA ENDEMIC RURAL AREA OF BURKINA FASO

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Malaria - Pathogenesis

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COMPARATIVE ANALYSIS OF *PLASMODIUM FALCIPARUM* TRANSCRIPTOME PROFILES REVEALS UPREGULATION OF HEAT SHOCK PROTEINS AND KINASES IN PEDIATRIC SEVERE MALARIAL ANEMIA

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PERIPHERAL BLOOD TRANSCRIPTOME PREDICTS ALTERED UBIQUITINATION PROCESS IN KENYAN CHILDREN WITH SEVERE MALARIAL ANEMIA

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DIFFERENTIAL ANTIBODY RESPONSES TO DUAL-BINDING PFEMP1 ANTIGENS IN MALIAN CHILDREN WITH SEVERE MALARIA USING A CUSTOM PROTEIN MICROARRAY

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ASSOCIATION BETWEEN THE GUT MICROBIOME AND MALARIA INCIDENCE IN INFANTS LIVING IN MALAWI

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DEFINING THE *PLASMODIUM* PIPECOLIC ACID PATHWAY AND ROLE IN CEREBRAL MALARIA

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MALARIA - INTESTINAL PARASITES COINFECTION AMONG CHILDREN IN A LYMPHATIC FILARIASIS ENDEMIC REGION OF GHANA

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UNRAVELLING VAR COMPLEXITY: RELATIONSHIP BETWEEN DBLA TYPES AND VAR GENES IN *PLASMODIUM FALCIPARUM*

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TRANSCRIPTOME ANALYSIS OF BLOOD-STAGE *PLASMODIUM FALCIPARUM* REVEALS UP-REGULATED PFHSP70 AND HISTONE TRANSCRIPTS IN SEVERE MALARIAL ANEMIA

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SINGLE CELL SEQUENCING OF BRAIN SEQUESTERED CD8⁺ T CELLS DURING EXPERIMENTAL CEREBRAL MALARIA

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(ACMCIP Abstract)

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IMPORTANCE OF INSULIN-LIKE GROWTH FACTOR : IGF-1 IN PLASMODIUM VIVAX MALARIA

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NON-FALCIPARUM SPECIES INFECTIONS AND MALARIA SEVERITY: PRELIMINARY FINDINGS IN HIGH TRANSMISSION SETTINGS IN SENEGAL

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Malaria - Prevention

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ACCEPTABILITY OF TECHNOLOGICAL INNOVATION IN MALARIA VECTOR CONTROL IN MALI: THE CASE OF ATTRACTIVE TARGETED SUGAR BAIT IN THE HEALTH DISTRICT OF KATI MALI

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EFFECT OF SEASONAL MALARIA CHEMOPREVENTION ON ASEXUAL *PLASMODIUM FALCIPARUM* INFECTION IN CHILDREN AGED 5 TO 14 YEARS IN DANGASSA, MALI

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FACTORS AFFECTING PREGNANT WOMEN'S ADHERENCE TO INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN THE NANORO HEALTH DISTRICT

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LARGER FAMILIES ARE LESS LIKELY TO ACHIEVE UNIVERSAL LONG-LASTING INSECTICIDAL NETS COVERAGE IN ETHIOPIA

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CAREGIVER KNOWLEDGE AND CONFIDENCE IN SMC EFFECTIVENESS IN NIGERIA

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UTILIZATION OF LONG-LASTING INSECTICIDAL NETS AT HOUSEHOLD AND INDIVIDUAL LEVELS IN SIDAMA REGION, SOUTHERN ETHIOPIA

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IMPACT OF SCALING UP SEASONAL MALARIA CHEMOPREVENTION ON COVERAGE AND QUALITY OF IMPLEMENTATION IN KARAMOJA REGION, UGANDA

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STAKEHOLDER PERSPECTIVES ON INCORPORATING A NEW VECTOR CONTROL TOOL INTO THE KENYA NATIONAL MALARIA VECTOR CONTROL POLICY

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PREDICTING MALARIA INFECTION AND ANEMIA IN PREGNANCY AT FIRST ANTENATAL CARE ATTENDANCE

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

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FREE-LISTING OF MOSQUITO CONTROL STRATEGIES IN BUSIA COUNTY, WESTERN KENYA

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FEASIBILITY AND ACCEPTABILITY OF GROUP ANTENATAL CARE FOR MATERNAL HEALTH CARE PROVIDERS AND SUPERVISORS IN RURAL HEALTH CENTERS IN BENIN

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INFLUENCE OF SEASONAL MALARIA CHEMOPREVENTION ON THE PREVALENCE OF MALARIA INFECTION, *PLASMODIUM FALCIPARUM* GENETIC DIVERSITY AND RESISTANCE PROFILE IN CHILDREN LIVING IN RURAL AREAS OF BURKINA FASO

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ASSESSING THE IMPACT OF GROUP ANC ON IPTP UPTAKE IN ATLANTIQUE DEPARTMENT, BENIN: A CLUSTER RANDOMIZED CONTROLLED TRIAL

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COMPARING THE DURABILITY OF SYNERGIST LONG-LASTING INSECTICIDAL NETS PERMANET®3.0 AND CONVENTIONAL NETS YORKOOL© IN SOUTHEAST BENIN REPUBLIC AFTER NATIONAL MASS CAMPAIGN IN 2020

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PMC INTEGRATION INTO MOZAMBIQUE'S ROUTINE HEALTH SYSTEM: A PLUS PROJECT CASE STUDY

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EXPLORING NET USAGE, PREFERENCES, AND REPAIR HABITS: A QUALITATIVE STUDY ON MALARIA PREVENTION STRATEGIES IN KONONGO, GHANA

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EMPOWERING COMMUNITY LEADERS TO INFLUENCE ACTIONS AGAINST MALARIA AT HOUSEHOLD LEVEL.LESSONS FROM MOYO DISTRICT, WEST NILE REGION, UGANDA

Felix Manano¹, Allan Matovu², Alex Ojaku³, Robert Abiriga¹, Irene Ochola¹, Dorah Anita Talanta¹, Ambrose Okite⁴, Amy Casella⁵, Aliza Hasham⁶, Benjamin Binagwa¹, Natalia Whitley⁵

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"AFTER A LONG DAY OF PLAY, I GET TIRED AND FORGET TO UNFURL MY BEDNET": EXPLORING BARRIERS AND FACILITATORS OF BEDNET USE IN EASTERN UGANDA

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PREDICTORS OF ACCESS TO SEASONAL MALARIA CHEMOPREVENTION MEDICINES OUTSIDE HOUSEHOLD VISITS IN NIGERIA IN 2021

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THE ROLE OF COMMUNITY DRUG DISTRIBUTORS IN THE QUALITY OF SMC DELIVERY IN NIGERIA

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COMMUNITY PERCEPTIONS ON FEASIBILITY AND ACCEPTABILITY OF SEASONAL MALARIA CHEMOPREVENTION IN AWEIL SOUTH COUNTY NORTHERN BAHR EL GHAZAL STATE SOUTH SUDAN

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ASSESSING THE IMPACT OF EXTENDING SEASONAL MALARIA CHEMOPREVENTION TO FIVE CYCLES: FINDINGS FROM AN ANALYSIS OF ROUTINE DATA OF 19 DISTRICTS IN BURKINA FASO (2015-2021)

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QUANTIFYING THE ADDED BENEFIT TOWARD MALARIA ELIMINATION BY COMMUNITY CASE MANAGEMENT IN THE DOMINICAN REPUBLIC

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OPTIMAL STRATIFICATION STRATEGIES IN THE SELECTION OF SENTINEL SITES FOR AN INTEGRATED MALARIA SURVEILLANCE IN BENIN

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IMPROVING MALARIA EPIDEMIC SURVEILLANCE THROUGH ACTIVE ENGAGEMENT OF DISTRICT LEADERS. LESSONS FROM BUSOGA REGION IN EASTERN UGANDA

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PLASMODIUM FALCIPARUM MALARIA MOLECULAR INDICATORS IN SOUTH WEST BURKINA FASO: COMPARISON OF ACTIVE AND PASSIVE CASE DETECTION

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THE YELLOW FEVER OUTBREAK SHEDS LIGHT ON THE MISSED THREAT OF MALARIA IN ISIOLO COUNTY, KENYA 2022

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PIONEERING ELECTRONIC FORMS AND REPORTING IN SEASONAL MALARIA CHEMOPREVENTION IMPLEMENTATION AMID INSECURITY IN ZAMFARA STATE

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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.

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TRACKING PROGRESS OF PROPORTIONAL USAGE ANTIMALARIALS FOR TREATMENT OF *P. FALCIPARUM* INFECTIONS IN CHILDREN, TWO DECADES OF ACT POLICY IMPLEMENTATION

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SPATIAL AND TEMPORAL VARIATION OF MALARIA CLINICAL INCIDENCE IN CHILDREN UNDER 10 YEARS OF AGE IN KOULIKORO, MALI

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THE VALUE OF END-USE VERIFICATION SURVEYS ON THE AVAILABILITY OF ANTIMALARIAL COMMODITIES IN MADAGASCAR, 2022

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ENGAGING HEALTH FACILITY TEAMS TO IMPROVE MALARIA DATA QUALITY, USE, AND SERVICE DELIVERY IN AKWA IBOM STATE

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MALARIA MOLECULAR SURVEILLANCE IDENTIFIES CLONAL PARASITE POPULATION STRUCTURE IN DIOURBEL SENEGAL THAT REVEALS TRANSMISSION PATTERNS TO INFORM OPERATIONAL ACTIVITIES

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IMPROVING MALARIA SURVEILLANCE DATA: INSIGHTS FROM SOUTHERN ANGOLA

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DEFINING PCR-DETECTED PARASITEMIA THRESHOLDS FOR CLINICAL MALARIA FROM ACTIVE AND PASSIVE CASE DETECTION

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INTEGRATED AND INNOVATIVE DECENTRALIZED MALARIA RESURGENCE RESPONSES IN THE SOUTH EAST OF MADAGASCAR

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USING DATA INTEGRATION AND VISUALIZATION TO STRENGTHEN THE MALARIA SURVEILLANCE SYSTEM IN THE DEMOCRATIC REPUBLIC OF THE CONGO

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MODEL-BASED ESTIMATES OF LONG-TERM AND SEASONAL MIGRANTS IN NORTHWESTERN DISTRICTS OF ETHIOPIA

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Malaria - Transmission Biology

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A SECOND BLOOD MEAL ELEVATES THE *PLASMODIUM VIVAX* SPOROZOITE LOAD IN *ANOPHELES* DIRUS SALIVARY GLANDS

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CLONAL TRANSMISSIBILITY AND FACTORS INFLUENCING HUMAN-TO-MOSQUITO TRANSMISSION OF ASYMPTOMATIC *PLASMODIUM FALCIPARUM* INFECTIONS OVER THE COURSE OF ARTEMISININ-BASED COMBINATION THERAPIES IN MALI

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(ACMCIP Abstract)

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

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STUDY OF AN IMPORTANT GENE FOR SEXUAL REPRODUCTION OF *P. BERGHEI* AS A POTENTIAL TARGET FOR BLOCKING MALARIA TRANSMISSION

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EVALUATION OF THE ACTIVITY OF ESSENTIAL OILS OF HYPTIS SPICIGERA LAM. AND OCIMUM AMERICANUM L. IN THE MALARIA TRANSMISSION BLOCKING

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MALARIA VECTOR NUTRITION PREDICTS RATE OF PLASMODIUM FALCIPARUM DEVELOPMENT AND INFECTIVITY

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PLASMODIUM FEMALE GAMETE SURFACE HSP90 IS A KEY DETERMINANT FOR MOSQUITO INFECTION

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(ACMCIP Abstract)

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INVASION OF RED BLOOD CELLS BY PLASMODIUM MALARIAE: UNRAVELING INTRA-ERYTHROCYTE DEVELOPMENT AND MOLECULAR MECHANISMS

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(ACMCIP Abstract)

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THE ROLE OF THE *PLASMODIUM FALCIPARUM* ACETYL-COA SYNTHETASE IN GAMETOCYTOGENESIS AND TRANSMISSION

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(ACMCIP Abstract)

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MOUSE ERYTHROCYTE BASIGIN INTERACTS WITH PLASMODIUM YOELII ERYTHROCYTE BINDING LIKE PROTEIN

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TRANSMISSIBILITY OF PRIMARY AND RECURRENT *P. VIVAX* INFECTIONS AND THE ROLE OF TRANSMISSION MODULATING IMMUNITY IN ETHIOPIA

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A TWO PATCH MODEL FOR MUTASA AND NYANGA DISTRICTS IN MANICALAND PROVINCE ZIMBABWE INCORPORATING CLIMATIC CONDITIONS

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DESCRIPTION OF *PLASMODIUM FALCIPARUM* TRANSMISSION ASSOCIATED HAPLOTYPES

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DYNEIN HEAVY CHAINS IN *PLASMODIUM FALCIPARUM* DURING GAMETOCYTES DEVELOPMENT

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LOSS OF FUNCTION OF THE *PLASMODIUM FALCIPARUM* PROLINE TRANSPORTER MFR4 MEDIATES HALOFUGINONE RESISTANCE BUT RESULTS IN OOCYST DEVELOPMENTAL DYSFUNCTION.

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(ACMCIP Abstract)

Malaria - Vaccines and Immunotherapeutics

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A SINGLE FULL-LENGTH VAR2CSA ECTODOMAIN ELICITS HETEROLOGOUS FUNCTIONAL ANTIBODIES IN AOTUS NANCYMAAE

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INITIAL EVALUATION OF THE PVS230D1-EPA CONJUGATE VACCINE CANDIDATE

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SYSTEMS SEROLOGY OF PFSPZ VACCINE REVEALS IMPORTANCE OF NON-PFCSP ANTIBODY IMMUNITY IN LONG-LASTING PROTECTION

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(ACMCIP Abstract)

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CHARACTERIZATION OF KENYAN PLASMODIUM FALCIPARUM FIELD ISOLATES FOR USE IN CONTROLLED HUMAN MALARIA INFECTION

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CROSS-SECTIONAL ASSESSMENT OF FACTORS DRIVING PARTIAL VERSUS FULL UPTAKE OF RTS,SAS01 MALARIA VACCINE AMONG CHILDREN IN RARIEDA SUB-COUNTY, WESTERN KENYA, 2021 TO 2022

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FEASIBILITY EVALUATION OF RTS,S/AS01 MALARIA VACCINE PILOT INTRODUCTION IN WESTERN KENYA: COVERAGE SURVEY RESULTS 30 MONTHS POST-INTRODUCTION

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THE ADDITIVE VALUE OF RTS, S,AS01 MALARIA VACCINE IN REDUCING MALARIA INFECTION AMONG UNDER FIVE CHILDREN IN MALAWI

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RTS,S MALARIA VACCINE COMBINED WITH PYRETHROID-PIPERONYL BUTOXIDE-LONG-LASTING INSECTICIDAL NETS (PBO-LLIN) PROVIDES ADDED PROTECTION AGAINST *PLASMODIUM FALCIPARUM* INFECTION COMPARED WITH PBO-LLIN ALONE

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IMPACT OF RTS, S/AS01E VACCINATION ON *PLASMODIUM* SPECIES COMPOSITION IN INDIVIDUALS ENROLLED FOR AT BASELINE AND DURING THE SUBSEQUENT FOLLOW-UP PERIOD IN MALARIA ENDEMIC REGIONS OF WESTERN KENYA IN KISUMU COUNTY

Maurine Atieno Mwalo, Gladys C. Chemwor, Benjamin O. Opot, Raphael O. Okoth, Jackline A. Juma, Agnes C. Cheruiyot, Edwin W. Mwakio, Farid A. Salim, Risper N. Maisiba, Denis W. Juma, Hoseah Akala, Timothy Egbo USAMRD-K, KISUMU, Kenya

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EFFICACY OF THE RTS,S/AS01E MALARIA VACCINE ADMINISTERED ACCORDING TO DOSAGE REGIMEN UNDER CONDITIONS OF NATURAL EXPOSURE IN AFRICAN CHILDREN AGED 5-17 MONTHS: INSIGHTS FROM EXTENDED GENOTYPING-BASED ENDPOINT RESULTS AND MALARIA INFECTION STATUS AT FIRST VACCINATION FROM A PHASE 2B RANDOMIZED CONTROLLED TRIAL

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THE EFFECT OF RTS,S, AND SMC ALONE OR COMBINED ON ANTIMALARIAL ANTIBODY RESPONSES

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ESTABLISHING RTS,S/AS01 AS A BENCHMARK COMPARATOR FOR NEXT-GENERATION MALARIA VACCINES IN THE TGPB-PFCSP MOUSE CHALLENGE MODEL

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Bacteriology - Enteric Infections

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GENETIC PHYLOGENY OF DIARRHEAGENIC ESCHERICHIA COLI ISOLATED IN CHILDREN BELOW FIVE YEARS LIVING IN CLOSE CONTACT WITH FOOD ANIMALS, KISUMU COUNTY

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CHANGES IN GROWTH OBSERVED IN DIFFERENT ANTHROPOMETRIC INDICES AT 90-DAY POST-DISCHARGE FOLLOW-UP AMONG CHILDREN AGED 2-23 MONTHS REQUIRING READMISSION COMPARED TO THOSE WHO DID NOT REQUIRE READMISSION

Md Farhad Kabir, Irin Parvin, MST Mahmuda Ackhter, Abu Sadat Mohammad Sayeem Bin Shahid, Tahmina Alam, Rina Das, Sharmin Khanam, Jannat Sultana, Sajeda Nasrin, Rumana Sharmin, Mehnaz Kamal, Md. Tanveer Faruk, Tahmeed Ahmed, Mohammod Jobayer Chisti

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CLINICAL, SOCIO-ECONOMIC AND PATHOGENIC FACTORS OF WASTED AND OVERWEIGHT/OBESE UNDER-FIVE CHILDREN WITH DIARRHOEA: EXPERIENCE FROM AN URBAN HOSPITAL IN BANGLADESH

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SOCIODEMOGRAPHIC AND CLINICAL DETERMINANTS OF DIARRHEA AFFECTED CHILDREN TREATED WITH ANTIBIOTICS EMPIRICALLY PRIOR COMING TO HEALTH CARE FACILITIES IN DEVELOPING COUNTRIES LIKE BANGLADESH

Mst Mahmuda Ackhter, Abu Sadat Mohammad Sayeem Bin Shahid, Irin Parvin, Tahmina Alam, Md Farhad Kabir, Mohammod Jobayer Chisti *icddr.b. Dhaka. Bangladesh*

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DIARRHEA IN A MILITARY SETTING: EPIDEMIOLOGY, ETIOLOGIES AND IMPACT OF THE DISEASE IN MILITARY PERSONNEL DEPLOYED AT CAMP LEMONNIER, DJIBOUTI

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ASSOCIATION BETWEEN ENTEROPATHOGENS, THE GUT MICROBIOTA AND BIOMARKERS OF ENVIRONMENTAL ENTERIC DYSFUNCTION IN RURAL MALAWIAN CHILDREN

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HYPERGLYCEMIA IN DIARRHEAL CHILDREN; CAN WE PREDICT CLINICAL STATUS?

Fardaus Ara Begum, Sharika Nuzhat, Abu Sayem Mirza MD Hasibur Rahman, MD Ahshanul Haque, MD Farhad Kabir, Paul Daru, Azharul Islam Khan, Sayera Banu, Tahmeed Ahmed, Mohammod Jobayer Chisti

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EPIDEMIOLOGICAL AND LABORATORY INVESTIGATION TO IDENTIFY SOURCES OF A COMMUNITY OUTBREAK OF CHOLERA

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CHARACTERISTICS OF 2-23 MONTHS OLD CHILDREN WITH PROLONGED DIARRHEA COMPARED TO THOSE WITH ACUTE DIARRHEA AND THEIR IMPACT DURING POST-DISCHARGE FOLLOW-UP AT DAY 90

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CLINICAL AND ENVIRONMENTAL EPIDEMIOLOGY OF VIBRIO CHOLERAE IN EASTERN DEMOCRATIC REPUBLIC OF THE CONGO, 2020-2022 (PICHA7 PROGRAM)

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ACUTE FEBRILE ILLNESS IN PAKISTAN: ASSESSING CO-INFECTION OF MALARIA AND TYPHOID FEVER IN TERTIARY CARE FACILITIES IN KARACHI

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SIGNATURE OF EUKARYOTIC AND PROKARYOTIC GUT-MICROBIOME AMONG PATIENTS WITH GUT DISORDERS, SAUDI ARABIA

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(ACMCIP Abstract)

Bacteriology - Trachoma

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USE OF BIOMARKERS TO MONITOR TRACHOMA PREVALENCE AFTER IMPLEMENTATION OF MORE FREQUENT THAN ANNUAL MDA IN MAASAI COMMUNITIES IN NORTHERN TANZANIA

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QUALITY OF TRACHOMATOUS TRICHIASIS (TT) SURGERY IN 25 DISTRICTS OF SNNP AND SWE REGIONS: SUMMARY FINDINGS OF 31 SURGICAL AUDITS IN 2022

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UTILIZING MOLECULAR DIAGNOSTICS TO SUPPORT THE TRACHOMA CONTROL PROGRAM IN NAURU

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NEARING ELIMINATION OF TRACHOMA AS A PUBLIC HEALTH PROBLEM IN AUSTRALIA

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OLDER AGE IN SUBARACHNOID NEUROCYSTICERCOSIS REFLECTS A LONG PRE-PATENT PERIOD

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SEROPREVALENCE AND RISK FACTORS FOR NEUROCYSTICERCOSIS IN MEXICAN-AMERICANS IN STARR COUNTY, TEXAS

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THE POTENTIAL MECHANISTIC PATHWAYS LEADING FROM PARASITE INFECTION TO CHILDHOOD STUNTING

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PROTEOMIC AND IMMUNOINFORMATIC APPROACH TO IDENTIFY IMMUNE REACTIVE PROTEINS OF TAENIA SOLIUM CYSTICERCI FOR A POTENTIAL MULTIEPITOPE VACCINE CANDIDATE

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NEUROCYSTICERCOSIS, NEUROLOGICAL DISEASE AND HIV IN THE EASTERN CAPE PROVINCE OF SOUTH AFRICA

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CONSISTENT MEASUREMENT OF PARASITE-SPECIFIC ANTIGEN LEVELS IN SERA OF PATIENTS WITH NEUROCYSTICERCOSIS USING TWO DIFFERENT MONOCLONAL ANTIBODY (MAB)-BASED ENZYME-LINKED IMMUNOSORBENT ASSAYS

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MULTIPLEX BEAD ASSAY (MBA) FOR THE ASSESSMENT OF ANTIBODY RESPONSES DURING CYSTICERCOSIS IN EXPERIMENTAL INFECTED PIGS

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LATERAL FLOW TEST FOR NEUROCYSTICERCOSIS -PRELIMINARY EVALUATION

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LATE POST-TREATMENT INFLAMMATORY RESPONSE AND RESIDUAL CALCIFICATION IN NEUROCYSTICERCOSIS

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(ACMCIP Abstract)

Helminths – Nematodes – Intestinal Nematodes

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INFLUENCE OF EUKARYOTIC ENTERIC PATHOGENS ON THE GUT FUNGAL COMMUNITY IN MALIAN CHILDREN

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HELMINTH INFECTION DRIVES REDUCED SERUM COMPLEMENT AND COMPLEMENT REGULATORY PROTEIN ACTIVATION IN INDIVIDUALS WITH COINCIDENT TYPE 2 DIABETES

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DESCRIPTIVE AND PREDICTIVE ANALYSIS OF SOIL-TRANSMITTED HELMINTHIASIS IN SCHOOLCHILDREN OF TIERRALTA, CORDOBA, COLOMBIA

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TRICHURIS TRICHIURA INFECTION ASSOCIATED WITH AN INCREASED RISK OF *PLASMODIUM FALCIPARUM* INFECTION AMONG POPULATION LIVING IN BATA DISTRICT, EQUATORIAL GUINEA

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INTESTINAL PARASITIC INFECTIONS AND ASSOCIATED RISK FACTORS, KNOWLEDGE, ATTITUDE AND PRACTICES IN CALABAR, CROSS-RIVERS STATE, NIGERIA

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MOLECULAR CHARACTERIZATION OF A NOVEL GHANA STRAIN OF NECATOR AMERICANUS HOOKWORMS

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ASSOCIATED SOCIOECONOMIC AND DEMOGRAPHIC FACTORS WITH SOIL-TRANSMITTED HELMINTHIASIS IN FIVE PROVINCES IN GABON

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DEVELOPMENT AND EFFICACY OF VARIOUS PAN-HOOKWORM VACCINE TARGETS

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INTESTINAL PARASITE INFECTION AND RISK OF CONCOMITANT CERVICO-VAGINAL INFECTIONS IN THE PERUVIAN AMAZON

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SUCCESSFUL TREATMENT OF CUTANEOUS LEISHMANIASIS WITH INTRAMUSCULAR INJECTION OF SODIUM STIBOGLUCONATE IN AN 18 MONTH OLD CHILD

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A NOVEL TREATMENT FOR SCABIES

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THE IMPACTS OF COVID-19 ON THE RESURGENCE OF LASSA FEVER IN NIGERIA

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TIMELY RETURN OF TEST RESULTS FOR MEASLES AND YELLOW FEVER: A SURVEY OF CARE PROVIDERS IN GHANA

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CEREBROSPINAL FLUID CHLORIDE IN THE DIAGNOSIS OF TUBERCULAR MENINGITIS- A PROSPECTIVE STUDY FROM JODHPUR, INDIA

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A CASE OF MPOX REINFECTION

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IMPACT OF DIFFERENTIAL AND SYSTEMATIC DIAGNOSIS OF DENGUE, CHIKUNGUNYA AND MALARIA ON PATIENT MANAGEMENT AND ANTIBIOTIC USE IN BURKINA FASO AND IVORY COAST

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INTESTINAL IMMUNOHISTOCHEMISTRY AND HISTOLOGY RELATIONSHIPS WITH FECAL ENTERIC PATHOGENS IN A PEDIATRIC POSTMORTEM STUDY

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TRAVEL HEALTH NEEDS OF CHILDREN IN US MILITARY FAMILIES STATIONED ABROAD

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VALIDATION OF AN NS1 AND IGM RAPID TEST IN THE EARLY DIAGNOSIS OF DENGUE IN A PRIMARY HEALTH CARE CENTRE IN BUCARAMANGA, COLOMBIA DURING THE YEARS 2018-2020

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THE EFFECTS OF L-CARNITINE SUPPLEMENTATION ON RATE OF WEIGHT GAIN & BIOMARKERS OF ENVIRONMENTAL ENTERIC DYSFUNCTION IN SEVERELY MALNOURISHED CHILDREN: A DOUBLE-BLINDED RANDOMIZED CLINICAL TRIAL

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BRAINSTEM ENCEPHALITIS AND EXTRAPYRAMIDAL SYNDROME AFTER ZIKA VIRUS INFECTION IN SALVADOR, BRAZIL

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MOLECULAR SURVEILLANCE AND EPIDEMIOLOGY OF LEPTOSPIROSIS AND SCRUB TYPHUS FROM PATIENTS WITH FEVER OF UNKNOWN ORIGIN IN URBAN BANGALORE, INDIA

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DIAGNOSING A WOMAN PRESENTING WITH FOCAL WEAKNESS AND FACIAL PALSY IN MONROVIA, LIBERIA WITH PROGRESSIVE MULTIFOCAL LEUKOENCEPHALOPATHY: A CASE REPORT

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TB CASE NOTIFICATIONS, TB/HIV CO-MORBIDITIES AND TREATMENT OUTCOMES IN AMHARA REGION, ETHIOPIA: A RETROSPECTIVE LONGITUDINAL PROGRAM BASED STUDY Solomon Sisay

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EPIDEMIOLOGY OF CO-INFECTIONS IN PREGNANT WOMEN LIVING WITH HUMAN IMMUNODEFICIENCY VIRUS 1 IN RURAL GABON: A CROSS SECTIONAL STUDY

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DRUG RESISTANCE MUTATIONS DETECTED IN HIV-1 PROTEASE GENES ISOLATED FROM HIV-1 INFECTED PERSONS FROM EASTERN REGION OF GHANA

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ENHANCING TIMELINESS OF REPORTING FOR TRACHOMA MASS DRUG ADMINISTRATION (MDA) THROUGH ELECTRONIC DATA CAPTURE (EDC): A PILOT STUDY IN TWO DISTRICTS OF UGANDA

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FROM PRIORITY TO PRACTICE: MAKING APPLICATION OF DIGITAL PLATFORMS FOR IMPROVING TRACHOMA MDA PERFORMANCE A REALITY TOWARDS ADDRESSING END GAME CHALLENGES IN LONGIDO TANZANIA

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THE IMPACT OF TEN ROUNDS OF TWICE-PER-YEAR TREATMENT WITH IVERMECTIN ON ONCHOCERCIASIS TRANSMISSION IN HYPERENDEMIC AREAS OF JIMMA AND ILLUBABOR ZONES, SOUTHWEST ETHIOPIA

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ELIMINATING ONCHOCERCIASIS IN LOIASIS ENDEMIC AREAS: ADDED VALUE OF THE SLASH AND CLEAR STRATEGIES

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STRENGTHENING OF THE LOCAL HEALTH CAPACITY FOR THE IMPLEMENTATION OF THE FRAMEWORK FOR ELIMINATION OF MOTHER-TO- CHILD TRANSMISSION (EMTCT) OF HIV, SYPHILIS, CHAGAS DISEASE AND HEPATITIS B IN PAMPA DEL INDIO, CHACO (ARGENTINA)

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MONITORING TRACHOMA MASS ADMINISTRATION (MDA) USING AN ELECTRONIC SUPERVISOR COVERAGE TOOL (SCT)

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

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THE ROLE OF MICROBIOTA AND CO-LOCALIZATION IN THE DISSEMINATION OF VECTOR TRANSMITTED PATHOGENS

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(ACMCIP Abstract)

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INFECTION OF MONOCYTES WITH LEISHMANIA INFANTUM CAUSES DIFFERENCES IN EXTRACELLULAR VESICLE MIRNA PROFILES

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(ACMCIP Abstract)

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PEOPLE WITH DIFFERENT CLINICAL PRESENTATIONS OF L. DONOVANI INFECTION HAVE DIFFERENT MICRO-RNA PROFILES IN CIRCULATING PLASMA

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(ACMCIP Abstract)

PREVALENCE OF CUTANEOUS LEISHMANIASIS IN ENDEMIC COMMUNITIES OF THE VOLTA REGION, GHANA

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(ACMCIP Abstract)

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EXPRESSION OF ENDOPLASMIC RETICULUM STRESS RESPONSE MARKERS IN CUTANEOUS LEISHMANIASIS

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IMPACT OF DECLINING DISEASE TRANSMISSION ON MAINTENANCE OF IMMUNOLOGICAL MEMORY IN SUBJECTS WITH PAST HISTORY OF VISCERAL LEISHMANIASIS

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MULTIMODAL THERAPEUTIC TREATMENT FOR CHRONIC CHAGAS DISEASE

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INTESTINAL MICROBIOTA MEDIATE PROTECTION AGAINST GIARDIA INFECTION INDEPENDENT OF HOST ADAPTIVE IMMUNITY

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COMPARISON OF DERMAL AND SYSTEMIC IMMUNE RESPONSES IN PROGRESSIVE STAGES OF CANINE LEISHMANIOSIS

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(ACMCIP Abstract)

EVALUATION OF BLT2 RECEPTO IMMUNOREACTIVITY IN CARDIAC TISSUE FROM RATS INFECTED WITH TRYPANOSOMA CRUZI AT DIFFERENT POST-INFECTION STAGES

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

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PEPTIDE SELECTION VIA PHAGE DISPLAY TO INHIBIT LEISHMANIA-MACROPHAGE INTERACTIONS

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IN VITRO INTERACTION OF MACROPHAGE U937 WITH LEISHMANIA (VIANNIA) ISOLATES INFECTED WITH LEISHMANIA VIRUS IN PANAMA, CENTRAL AMERICA

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DETECTION OF LEISHMANIAVIRUS IN ISOLATES OF LEISHMANIA VIANNIA IN PANAMA, CENTRAL AMERICA

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CELL-BASED CARDIOMYOPATHY MODELS FOR CHAGAS DISEASE BIOMARKER DISCOVERY

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GENETIC TAXONOMIC ANALYSIS OF CHILOMASTIX GENUS

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MOLECULAR STUDY OF THE NUCLEOLAR METHYLTRANSFERASE FIBRILLARIN OF THE HUMAN PATHOGEN LEISHMANIA MAJOR

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ESTABLISHMENT OF AN IN VITRO CULTURE MODEL OF TOXOPLASMA GONDII BRADYZOITE CYSTS

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

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DRUG REPURPOSING AND SCREENING OF LIBRARIES OF CHEMICAL COMPOUNDS TO IDENTIFY NEW ANTI-PARASITIC AGENTS

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DEEP LEARNING APPROACH SUCCESSFULLY IDENTIFIES FDA APPROVED MOLECULES TO PRESENT ANTI-LEISHMANIA EFFECT AT THE PROMASTIGOTE STAGE

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IN VITRO ANTITRYPANOSOMAL, ANTIOXIDANT AND CYTOTOXICITY ACTIVITIES, LC-MS ANALYSIS AND MOLECULAR DOCKING ANALYSIS OF BIOACTIVE COMPOUNDS FROM ANOPYXIS KLAINEANA AGAINST TRYPANOSOMA BRUCEI'S UDP-GALACTOSE 4`-EPIMERASE (TBGALE)

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HIGH LEVEL OF 'NEVER TREATMENT' IN MASS DRUG ADMINISTRATION AGAINST NEGLECTED TROPICAL DISEASES IN KENYA, NIGERIA, DEMOCRATIC REPUBLIC OF CONGO AND CAMEROON

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OPHTHALMOLOGICAL COMPLICATIONS IN VISCERAL LEISHMANIASIS AND POST KALA-AZAR DERMAL LEISHMANIASIS

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HOST, PARASITE AND DRUG DETERMINANTS OF TREATMENT OUTCOMES IN VISCERAL LEISHMANIASIS: AN INDIVIDUAL PATIENT DATA META-ANALYSIS USING THE INFECTIOUS DISEASES DATA OBSERVATORY DATA PLATFORM

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SAROCLADIUM STRICTUM SECONDARY METABOLITES BLOCK P. FALCIPARUM TRANSMISSION TO MOSQUITOES

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

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VACCINE-LINKED CHEMOTHERAPY AS A NOVEL STRATEGY FOR CHAGAS DISEASE

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

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SURVEILLANCE OF ENTERIC VIRUSES AND SARS-COV-2 IN SELECTED LEAFY VEGETABLES AND FARMERS IN THE OFORIKROM DISTRICT, KUMASI, GHANA

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HOUSING STRUCTURES AND VISCERAL LEISHMANIASIS TRANSMISSION IN BARINGO COUNTY, KENYA

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A PREDICTIVE MODEL ACCOUNTING FOR DEFORESTATION ACROSS TEMPORAL AND SPATIAL SCALES IDENTIFYING ANNUAL SHIFTS IN THE ODDS OF EBOLAVIRUS ZOONOTIC SPILLOVER

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INTEGRATING ECOLOGY AND EPIDEMIOLOGY TO EMPOWER ONE HEALTH: A STUDY OF RIFT VALLEY FEVER

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EVIDENCE AND GAP MAP FOR MULTI-SECTOR AND ONE HEALTH RESEARCH IN ZOONOTIC NEGLECTED TROPICAL DISEASES

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PREVALENCE, DISTRIBUTION AND DIVERSITY OF BARTONELLA IN SMALL MAMMAL AND BAT COMMUNITIES ACROSS CAMBODIA

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EPIDEMIOLOGY OF ANIMAL BITES AND POST-EXPOSURE PROPHYLAXIS (PEP) OF RABIES IN RUPANDEHI, NEPAL

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DETECTION AND MOLECULAR CHARACTERIZATION OF MULTIRESISTANT ENTEROBACTERIACEAE CARRIED BY HOUSEFLIES IN THE CITY OF BOBO-DIOULASSO, BURKINA FASO

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HIGH PREVALENCE OF TETRACYCLINE RESISTANT ESCHERICHIA COLI ISOLATES IN AMERICAN CROCODILE CROCODYLUS ACUTUS LIKE BIOINDICATOR IN CAÑAS GUANACASTE COSTA RICA

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WHOLE GENOME SEQUENCING TO ELUCIDATE THE ZOONOTIC TRANSMISSION OF STRONGYLOIDES STERCORALIS AND ANCYLOSTOMA CEYLANICUM BETWEEN DOGS AND SCHOOL AGED CHILDREN LIVING IN THE SAME COMMUNITIES

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DETECTION OF BRUCELLA IN HUMANS AT TEKNAF, COX'S BAZAR IN BANGLADESH

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MAPPING HOUSEHOLD-SCALE LIVESTOCK HUSBANDRY IN LOW- AND MIDDLE-INCOME COUNTRIES BY ANIMAL TAXON: A BAYESIAN PREDICTION MODEL OF A KEY INFECTIOUS DISEASES RISK FACTOR

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Pneumonia, Respiratory Infections and Tuberculosis

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ISONIAZID URINE COLORIMETRY FOR EVALUATION OF TUBERCULOSIS PHARMACOKINETICS IN ADULTS AND CHILDREN

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

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FEASIBILITY OF CASH TRANSFERS TO FACILITATE TUBERCULOSIS SCREENING AMONG HOUSEHOLD CONTACTS OF TUBERCULOSIS PATIENTS IN TANZANIA

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THE EFFECT OF THE COVID-19 PANDEMIC ON HEALTHCARE SEEKING IN AN INFORMAL URBAN SETTLEMENT IN NAIROBI AND A RURAL SETTING IN WESTERN KENYA, JANUARY 2016 TO AUGUST 2022

George O. Agogo¹, Patrick Munywoki¹, Allan Audi², Joshua Auko², George Aol², Clifford Oduor², Samuel Kiplangat², Alice Ouma², Terry Komo², Peninah Munyua¹, Godfrey Bioogo²

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HEPATITIS B AND INFLUENZA VACCINE COVERAGE AMONG HEALTHCARE WORKERS IN SELECTED HEALTH FACILITIES IN BANGLADESH

Ahamed Khairul Basher¹, Sazzad Hossain Khan¹, Md Abdullah Al Jubayer Biswas¹, Mahmudur Rahman², Fahmida Chowdhury¹, Md Zakiul Hassan³

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ASSOCIATION OF ALTERED BASELINE HEMATOLOGICAL PARAMETERS WITH ADVERSE TUBERCULOSIS TREATMENT OUTCOMES

Arul Nancy Pandiarajan

National Institute for Research in Tuberculosis- International Center for Excellence in Research, Chennai, India

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SARS-COV-2 OMICRON VARIANT DETECTION WITH BINAXNOW, PANBIO, AND ID NOW RAPID TESTS

Mark Charles Anderson¹, Austin Hodges¹, Ana Olivo¹, Vera Holzmayer¹, Yitz Goldstein², Julie Hirschhorn³, Dariusz Pytel³, Matthew Faron⁴, Luis Gonzalez⁵, Stephen Kovacs⁶, Rich Roth⁷, Mary Rodgers¹, Gavin Cloherty¹

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ANALYTICAL PERFORMANCE OF 17 COMMERCIALLY AVAILABLE POINT-OF-CARE TESTS FOR CRP TO SUPPORT PATIENT MANAGEMENT AT LOWER LEVELS OF THE HEALTH SYSTEM

Serafina Calarco¹, B. Leticia Fernandez-Carballo¹, Thomas Keller², Stephan Weber², Meike Jakobi³, Patrick Marsall⁴, Nicole Schneiderhan-Marra⁴, Sabine Dittrich¹ ¹Foundation for innovative New Diagnostic (FIND), geneva, Switzerland, ²ACOMED statistik, Leipzig, Germany, ³ Natural and Medical Sciences Institute at the University of Tübingen (NMI), Reutlingen, Germany, ⁴Natural and Medical Sciences Institute at the University of Tübingen (NMI), Reutlingen, Germany

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EVALUATION OF TUBERCULOSIS TREATMENT OUTCOME AND THEIR PREDICTORS IN PUBLIC AND PRIVATE HEALTH INSTITUTIONS, SOUTHEAST, NIGERIA; AN IMPLICATION FOR POLICY IMPLEMENTATION, CLIENT CENTERED EDUCATION AND TREATMENT FOLLOW-UP

Nelson C. Eze

Federal Ministry of Health, Abuja, Nigeria

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ISONIAZID MONORESISTANT TUBERCULOSIS (HR-TB) IN ODISHA, INDIA, DURING 2019

Sidhartha Giri, Sujeet Kumar, Sunil Swick Rout, Sarita Kar, Sanghamitra Pati ICMR Regional Medical Research Centre Bhubaneswar, Bhubaneswar, India

INFLUENZA, RSV, AND SARS-COV2 SURVEILLANCE IN MACHA, ZAMBIA IN 2022

Mutinta Hamahuwa¹, Pamela Sinywimaanzi¹, Mathias Muleka¹, Passwell Munachoonga¹, Hellen Matakala¹, Stephanie M. Kenyon², Katherine Z.J. Fenstermacher², Richard E. Rothman³, Andrew Pekosz⁴, Mwaka Monze⁵, Philip E. Thuma¹, Edgar Simulundu¹, Catherine G. Sutcliffe⁶

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IMPORTANCE OF SEROLOGY DIAGNOSTICS FOR CHRONIC PULMONARY ASPERGILLOSIS IN POSSIBLE TUBERCULOSIS PATIENTS IN COTE D'IVOIRE

David Koffi¹, Borel Thierry N'dri-Kouadio¹, Francis Kouadjo¹, Andre Offianan Toure¹, Mireille Dosso¹, David W. Denning²

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6378

SEX DIFFERENCES IN PLASMA CYTOKINE PROFILES BETWEEN TUBERCULOSIS PATIENTS BEFORE AND DURING TREATMENT

Elizabeth Ntapara¹, Lwitiho Sudi¹, Issa Sabi¹, Julieth Lalashowi¹, Jacklina Mhidze¹, Nyanda Ntinginya¹, Michael Hoelscher², Abhishek Bakuli², Andrea Rachow², Christof Geldmacher², Mkunde Chachage³

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BURDEN OF TUBERCULOSIS AMONG CHILDREN UNDER FIVE HOSPITALIZED IN THE RESPIRATORY UNIT OF THE LARGEST DIARRHEAL DISEASE HOSPITAL IN BANGLADESH: A PROSPECTIVE CROSS-SECTIONAL STUDY

Tahmina Alam, Mohammod Jobayer Chisti, Lubaba Shahrin, Monira Sharmin, Abu Sadat Mohammod Sayeem, Tahmeed Ahmed

Interntaional centre for diarrheal disease and research, Bangladesh, Dhaka, Bangladesh

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HYPOXAEMIA PREVALENCE, MANAGEMENT AND OUTCOME AMONG CHILDREN PRESENTING TO LOW-LEVEL HEALTH FACILITIES IN TANZANIA AND RWANDA

Alix Miauton¹, Alexandra V. Kulinkina², Rainer Tan¹, Chacha Mangu³, Victor P. Rwandarwacu⁴, Ludovico Cobuccio¹, Lameck Luwanda⁵, Godfrey Kavishe³, Sabine Renggli⁵, Geofrey I. Ashery⁵, Magreth Joram⁵, Ibrahim E. Mtebene⁵, Peter Agrea³, Humphrey Mhagama³, Joseph Habakurama⁴, Emmanuel Kalisa⁴, Angelique Ingabire⁴, Cassien Havugimana⁴, Gilbert Rukundo⁴, Honorati Masanja⁵, Nyanda E. Ntinginya³, Valérie D'Acremont¹

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THE EFFECT OF SOAP USE CONDITIONS ON SCHISTOSOME CERCARIAE IN WATER

Jiaodi Zhang¹, Ana K. Pitol², Laura Braun³, Michael R. Templeton¹ ¹Imperial College London, London, United Kingdom, ²Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ³London School of Hygiene & Tropical Medicine, London, United Kingdom

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COST-EFFICIENT SURVEY DESIGNS FOR MONITORING AND EVALUATION OF SOIL-TRANSMITTED HELMINTHS CONTROL PROGRAMS

Adama Kazienga¹, Bruno Levecke¹, Sake J de Vlas², Luc E. Coffeng² ¹Ghent University, Gent, Belgium, ²Erasmus MC, University Medical Center, Rotterdam, Netherlands

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ASSOCIATION OF FEMALE UROGENITAL SCHISTOSOMIASIS WITH HIGH-RISK HUMAN PAPILLOMAVIRUS AMONG WOMEN IN ZAMBIA: BASELINE RESULTS OF A LONGITUDINAL COHORT STUDY (THE ZIPIME WEKA SCHISTA STUDY)

Olimpia Lamberti¹, Helen Kelly¹, Rhoda Ndubani², Nkatya Kasese², Emily Webb³, Beatrice Nyondo², Barry Kosloff², Jennifer Fitzpatrick², Bonnie Webster⁴, Maina Cheeba², Helen Ayles², Kwame Shanaube², Amaya Bustinduy¹

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INVESTIGATING THE GENETIC DIVERSITY OF THE SCHISTOSOMA MANSONI TRANSIENT RECEPTOR POTENTIAL MELASTATIN (SMTRPM_{P20}) CHANNEL IN RESPONSE TO PRAZIQUANTEL TREATMENT IN NATURAL UGANDAN S. MANSONI POPULATIONS

Shannan Summers¹, Fiona Allan², Tapan Bhattacharyya¹, Michael Miles¹, Bonnie Webster², Amaya Bustinduy¹

¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²Natural History Museum, London, United Kingdom

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LIVESTOCK CATTLE AS PREDICTOR OF TRANSMISSION OF SCHISTOSOMIASIS IN NIGERIA

Oyetunde Timothy Oyeyemi, **Oluyemi Adewole Okunlola** University of Medical Sciences, Ondo, Nigeria

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HUMAN SCHISTOSOMIASIS RISK AND SNAIL ABUNDANCE HAVE A UNIMODAL RELATIONSHIP IN THE NATURAL ENVIRONMENT

Sidy Bakhoum¹, Christopher J. E. Haggerty², Cheikh Tidiane Ba³, Jason R. Rohr⁴ ¹Department of Animal Biology, University Cheikh Anta Diop, Dakar, Senegal, ²University of South Florida, Florida, FL, United States, ¹Department of Animal Biology, University Cheikh Anta Diop, Dakar, Senegal, Dakar, Senegal, ⁴Department of Biological Sciences, Eck Institute of Global Health, Environmental Change Initiative, University of Notre Dame, Indiana, IN, United States

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RISK FACTORS AND PREVALENCE OF SCHISTOSOMIASIS AND INTESTINAL PARASITES INFECTIONS IN VILLAGES IMPACTED BY AGRICULTURAL ACTIVITIES IN THE NORTH AND SOUTH OF GABON

Ndong NJ Mari

Faculty of Medicine, Department of Parasitology, Owendo, Gabon

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COMBINING GENOMICS DATA WITH SOCIAL AND ENVIRONMENTAL CONNECTIVITY MEASURES TO IDENTIFY PATHWAYS OF SCHISTOSOMA JAPONICUM IMPORT IN RURAL CHINA

Elise Grover¹, Katerina Kechris¹, Zachary Nikolakis², Yannick Francioli², Hannah Guss², Hamish Pike³, Todd Castoe², David Pollock³, Yang Liu⁴, Elizabeth Carlton¹ ¹University of Colorado School of Public Health, Aurora, CO, United States, ²University of Texas at Arlington, Arlington, TX, United States, ³University of Colorado Anschutz, Aurora, CO, United States, ⁴Sichuan Center for Disease Control and Prevention, Chengdu, China

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

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Lucia S. Di Maggio, Kerstin Fischer, Devyn Yates, Kurt C. Curtis, Bruce A. Rosa, John C. Martin, Petra Erdmann-Gilmore, Robert S.W Sprung, Makedonka Mitreva, Reid R. Townsend, Gary J. Weil, Peter U. Fischer

Washington University in Saint Louis, saint louis, MO, United States

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EFFECT OF INTENSIVE TREATMENT FOR SCHISTOSOMIASIS ON VACCINE SPECIFIC RESPONSES AMONG UGANDAN ISLAND ADOLESCENTS: THE POPVAC A TRIAL

Gyaviira Nkurunungi¹, Ludoviko Zirimenya¹, Jacent Nassuuna¹, Agnes Natukunda¹, Emily L. Webb², Alison M. Elliott¹

¹MRC/UVRI & LSHTM Uganda Research Unit, Entebbe, Uganda, ²London School of Hygiene & Tropical Medicine, London, United Kingdom

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TRANSFORMING GROWTH BETA LEVELS IN INDIVIDUAL WITH SCHISTOSOMIASIS IN FEDERAL CAPITAL TERRITORY, NIGERIA

Wellington A. Oyibo¹, Olubunmi Tosin Okurame¹, Uche Thecla Igbasi² ¹Centre for Transdisciplinary Research in Malaria and Neglected Tropical Diseases, College of Medicine of the University of Lagos, Nigeria, Lagos, Nigeria, ²Centre for Infectious Diseases Research, Microbiology Department, Nigeria Institute of Medical Research, 6 Edmond Crescent, Yaba- Lagos, Nigeria, Lagos, Nigeria

Water, Sanitation, Hygiene and Environmental Health

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MEASURING WATER QUANTITY USED FOR PERSONAL AND DOMESTIC HYGIENE IN A LOW-INCOME URBAN COMMUNITY IN BANGLADESH

Rebeca Sultana¹, Nazmun Nahar², Stephen P. Luby³, Sayeda Tasnuva Swarna¹, Emily S. Gurley⁴, Charlotte Crim Tamason⁵, Shifat Khan¹, Nadia Ali Rimi¹, Humayun Kabir¹, Md. Khaled Saifullah¹, Sushil Ranjan Howlader⁶, Peter Kjær Mackie Jensen⁵ ¹icddr,b, Dhaka, Bangladesh, ²Department of Gastroenterology, Hepatology and Infectious Diseases, University Hospital Düsseldorf, Medical Faculty of Heinrich Heine University Düsseldorf, Düsseldorf, Germany, ³Infectious Diseases and Geographic Medicine, Stanford University, Stanford, CA, United States, ⁴Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD, United States, ⁶Copenhagen Center for Disaster Research, Global Health Section, Department of Public Health, University of Copenhagen, Copenhagen, Denmark, ⁴Institute of Health Economics, University of Dhaka, Dhaka, Bangladesh

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SUPPORTIVE SUPERVISION IS ASSOCIATED WITH AVAILABILITY OF WORLD HEALTH ORGANIZATION INFECTION PREVENTION AND CONTROL CORE COMPONENTS IN HEALTH FACILITIES IN SOUTHWESTERN UGANDA

Cozie Gwaikolo¹, Bongomin Bodo², Doreen Nabawanuka², Michael Mukiibi², Emmanuel Seremba³, Paul Muyinda³, Andrew Bakainaga², Yonas T. Woldenmariam², Christopher C. Moore⁴, Richard Ssekitoleko⁵

¹University of California San Francisco, San Francisco, CA, United States, ²World Health Organization, Kampala, Uganda, ³College of Health Sciences, Makerere University, Kampala, Uganda, ⁴Division of Infectious Diseases and International Health, university of Virginia, Charlottesville, VA, United States, ³World Health Organization, kampala, Uganda

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A SEMI-AUTOMATED SCOPING REVIEW OF MICROPLASTIC CONTAMINATION IN FOOD AND WATER BANGLADESH PERSPECTIVE

Tania Jahir¹, Jaynal Abedin², Farha Sharmin³, John Newell⁴ ¹College of Medicine, Nursing, and Health Sciences, University of Galway, Galway,

Ireland, ²Center for Data Research and Analytics (CfDRA), Galway, Ireland, ³Spreeha Bangladesh Foundation, Dhaka, Bangladesh, ⁴School of Mathematical and Statistical Sciences, Galway, Ireland

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TOILET FUNCTIONALITY AND CLEANLINESS STATUS IN HEALTHCARE FACILITIES (HCF) IN DHAKA, BANGLADESH

Nuhu Amin, Juliet Willetts, Tim Foster University of Technology Sydney, Sydney, Australia

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ASSESSING FAECAL CONTAMINATION IN SOILS OF INFORMAL SETTLEMENTS- A COMPARATIVE STUDY OF TRADITIONAL SOIL TESTING AND INNOVATIVE BOOTSOCK TECHNIQUE

Lamiya Nerose Bata, Rebekah M. Henry, David T. McCarthy Monash University, Clayton, Australia

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PREVALENCE OF PATHOGENIC MDR ESCHERICHIA COLI IN FAECAL SLUDGE TREATMENT PLANTS AND ADJACENT HOUSEHOLD DRINKING WATER OF ROHINGYA CAMPS, BANGLADESH

Zahid Hayat Mahmud¹, Mohammed Tanveer Hussain¹, Md. Sakib Hossain¹, Mohammad Atique UI Alam¹, Amanta Rahman¹, Ashrin Haque¹, Faisal Chowdhury Galib¹, Md. Hajbiur Rahman¹, Md. Rafiqul Islam¹, Mahbubul H. Siddiqee², Md. Shafiqul Islam¹ *'International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, 2BRAC University, Dhaka, Bangladesh*

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ASSESSING THE IMPLEMENTATION OF WASH INTERVENTIONS IN A COASTAL DISTRICT WITH HIGH DIARRHOEA BURDEN, GHANA, 2022

Delia Akosua Benewah Bandoh¹, Ernest Kenu¹, Edwin Andrew Afari¹, Kwadwo Duah Dwomoh¹, Dzidzo Yirenya-Tawiah², Mawuli Dzodzomenyo¹

¹University of Ghana School of Public Health, Accra, Ghana, ²Institute of Environmental Studies, University of Ghana, Accra, Ghana

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DETECTION OF SARS-COV-2 AND ENTERIC PATHOGENS IN MEGACITY DHAKA WASTEWATER; FINDINGS FROM AN ENVIRONMENTAL SURVEILLANCE PLATFORM

Mahbubur Rahman¹, Md Rezaul Hasan¹, Md Ziaur Rahman¹, Mohammed Ziaur Rahman², Md Nuhu Amin¹, Rehnuma Haque Sarah¹, Md Shariful Islam³, Afroza Jannat Suchana¹, Mohammad Enayet Hossain², Monju Mia², Suraja Raj⁴, Pengbo Liu⁴, Yuke Wang⁴, Marlene Wolfe⁴, Stephen Patrick Hilton⁴, Chloe Svezia⁴, Mahbubur Rahman⁵, Ahmed Nawsher Alam⁵, Zakir Hossain Habib⁵, Aninda Rahman⁶, Alamgir Hossain⁷, Megan B. Diamond⁸, Tahmina Shirin⁵, Christine L. Moe⁴

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FINDINGS OF ENVIRONMENTAL SURVEILLANCE FOR SARS-COV-2 AND ENTERIC PATHOGENS TRIGGER FUTURE PATH: LEARNING FROM A MEGACITY AND HUMANITARIAN SETTINGS IN BANGLADESH

Md Ziaur Rahman¹, Zakir Hossain Habib², Rezaul Hasan¹, Nuhu Amin¹, Rehnuma Haque¹, Md Shariful Islam³, Afroza Jannat Suchana¹, Mohammed Ziaur Rahman⁴, Mohammad Enayet Hossain⁴, Mojnu Miah⁴, Suraja Raj⁵, Pengbo Liu⁵, Yuke Wang⁵, Marlene Wolfe⁵, Stephen Patrick Hilton⁵, Chloe Svezia⁵, Mahbubur Rahman², Ahmed Nawsher Alam², Aninda Rahman⁶, Alamgir Hossain⁷, Mahbubur Rahman¹, Megan B. Diamond⁸, Tahmina Shirin², Christine L Moe⁵

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HOUSEHOLD COPING STRATEGIES DUE TO WATER INTERMITTENCY: A MIXED-METHODS STUDY IN NORTHWESTERN ECUADOR

Andrea Sosa-Moreno¹, Gwenyth O. Lee², Karen Levy², Josefina Coloma⁴, Joseph N.S Eisenberg¹

¹University of Michigan, Ann Arbor, MI, United States, ²Rutgers Global Health Institute, New Brunswick, NJ, United States, ³University of Washington, Seattle, WA, United States, ⁴University of California-Berkeley, Berkeley, CA, United States

CTropMed Exam Committee Meeting

Wright, Third Floor, West Tower Friday, October 20, 12:15 p.m. - 1:30 p.m. U.S. Central Time Zone

Late-Breaker Abstract Session 74

Late-Breakers in Clinical and Applied Sciences

Grand Hall J - Ballroom Level (East Tower) Friday, October 20, 12:15 p.m. - 1:30 p.m. U.S. Central Time Zone

This session does not carry CME credit.

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

<u>CHAIR</u>

Miguel Cabada University of Texas Medical Branch, Galveston, TX, United States Sharon Tennant University of Maryland School of Medicine, Baltimore, MD, United States

Late-Breaker Abstract Session 75

Late-Breakers in Malaria

Grand Ballroom CDEF - Ballroom Level (East Tower) Friday, October 20, 12:15 p.m. - 1:30 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.

<u>CHAIR</u>

Giselle Lima-Cooper Indiana University, Indianapolis, IN, United States Mahamadou Diakite MRTC-USTTB, Bamako, Mali

Poster Session B Viewing

Riverside Center - Exhibit Level (East Tower) and Grand Hall GHI – Ballroom Level (East Tower) Friday, October 20, 1:45 p.m. – 4 p.m. United States Central Time Zone

Symposium 76

ASTMH Committee on Global Health (ACGH) Symposium I: Effectively Communicating Sensitive Issues in Global Health: Lessons from the Field

Grand Ballroom A - Ballroom Level (East Tower) Friday, October 20, 1:45 p.m. - 3:30 p.m. U.S. Central Time Zone

Over the past few years, communication has become an integral part of successful global health campaigns. Political perspectives have become key parts of the discussion around sensitive global health topics such as climate change and vaccine mandates, to the point that traditional methods of presenting and using results, evidence to guide public health decision making are no longer sufficient. Communicating key public health messages to the general public requires different skill sets than presenting to scientific audiences, and recent events like the COVID-19 pandemic have shown that these are skills many professionals in global health are lacking. In this symposium we will discuss methods for effectively communicating results and evidence to the public, governments, and health-care professionals by highlighting three topics that can be considered sensitive: pandemic preparedness, gene-drive technology, climate change; as well as discussions around best practices for communicating general global health themes.

<u>CHAIR</u>

James Colborn Clinton Health Access Initiative, Evergreen, CO, United States Yazoume Ye ICF International, Calverton, MD, United States

1:45 p.m. INTRODUCTION

APHRC, Nairobi, Kenya

1:55 p.m.

((**(O**)))

COMMUNICATING THE SCIENCE OF PANDEMIC PREPAREDNESS Catherine Kyobutungi

2 p.m.

RÉGULATING THE DEVELOPMENT AND TESTING OF GENETICALLY MODIFIED MOSQUITOES FOR MALARIA CONTROL AND ELIMINATION IN AFRICA

Richard Mukabana African Institute for Development Policy, Nairobi, Kenya

2:05 p.m.

SCIENCE COMMUNICATION AND ENGAGEMENT TO EFFECTIVELY TRANSLATE THE INTERSECTION BETWEEN CLIMATE CHANGE AND TROPICAL MEDICINE

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

2:10 p.m.

LESSONS IN COMMUNICATING PUBLIC HEALTH FROM A CAREER WORKING IN THE MINISTRY OF HEALTH

Devanand Moonasar WHO, Johannesburg, South Africa

2:15 p.m. ACGH ANNUAL BUSINESS MEETING

James Colborn Clinton Health Access Initiative, Inc., Evergreen, CO, United States

2:45 p.m. NETWORKING RECEPTION

Symposium 77

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) Symposium I: Molecular Mechanisms of Transitions Between Acute and Chronic Parasitic Infections

Grand Ballroom B - Ballroom Level (East Tower) Friday, October 20, 1:45 p.m. - 3:30 p.m. U.S. Central Time Zone

This session does not carry CME credit.

Many parasites of human and veterinary importance cycle between acute and chronic stages. Acute stages typically involve rapid growth and parasite expansion after the initial infection with the parasite. This stage can either be mild and asymptomatic or can cause morbidity and mortality of the host. During the acute stages, the immune system is triggered and mounts an effective immune response limiting the number of parasites. The initial type of immune response can determine if an infection is cleared or becomes chronic, or if there is potential tissue damage to the host.

The chronic stages enable parasites to persist within their host. Often, parasites can evade the host's defenses by modulating the host immune system or forming dormant stages such as cysts. While parasites are in the acute stages, they are difficult to treat with drugs as most metabolic pathways are inactive and cyst walls are thick and cannot easily be penetrated by a compound. Chronic infections can be asymptomatic (Toxoplasma, *Plasmodium*) or highly lethal if untreated (visceral Leishmaniasis). Patients with immune suppression either due to another infection such as HIV or through the administration of drug therapy for organ transplants or leukemia, are more likely to have reactivation of the chronic disease to the acute phase.

This symposium will address the biological factors that are determining the differentiation from one stage to another in a diverse set of parasites. We will first hear about work being done to fill gaps in the life cycle of Trichomonas vaginalis, with a particular focus on the cyst stage. This important work sheds light on a previously unknown chronic stage of the T. vaginalis parasite that has only recently been identified. And while we have known for some time that Toxoplasma gondii has a chronic phase, the signals that promote the differentiation into chronic stages have not been well understood. Here, we will learn about chronicity in the parasite T. gondii, and how a positive feedback loop controls the differentiation of these parasites into chronic stages. Shifting away from the parasite biology toward the host response, we will next delve into the host-side with a talk on immunoregulation

and tissue homeostasis in the context of both acute and chronic Chagas disease (infection with Trypanosoma cruzi). Finally, we will end with a discussion of what can be done about these chronic stages from a treatment perspective, as we hear a talk about dormancy in *Plasmodium vivax*, and strategies that can be used to successfully eliminate these dormant stages from the body.

<u>CHAIR</u>

Regina Cordy Wake Forest University, Winston Salem, NC, United States

Sebastian Lourido

Massachusetts Institute of Technology Whitehead Institute for Biomedical Research, Cambridge, MA, United States

1:45 p.m. INTRODUCTION

1:55 p.m.

FILLING THE GAPS IN THE LIFE CYCLE OF TRICHOMONAS VAGINALIS: CHARACTERIZATION OF CYSTS Utpal Tatu

Indian Institute of Science, Bangalore, India

2:15 p.m.

A POSITIVE FEEDBACK LOOP CONTROLS TOXOPLASMA CHRONIC DIFFERENTIATION

Sebastian Lourido

Massachusetts Institute of Technology Whitehead Institute for Biomedical Research, Cambridge, MA, United States

2:35 p.m.

IMMÚNOREGULATION OF CELLULAR IMMUNITY AND TISSUE HOMEOSTASIS DURING ACUTE AND CHRONIC CHAGAS DISEASE

Eva Virginia Acosta Rodriguez National University of Cordoba, Argentina, Cordoba, Argentina

2:55 p.m.

PLASMODIUM DORMANCY: KILLING MECHANISMS AND DRUGGABLE TARGETS

Erika Flannery Novartis Institutes for BioMedical Research, Emeryville, CA, United States

3:15 p.m. NETWORKING RECEPTION

Symposium 78

Community Engagement and Involvement in Control and Prevention of Cutaneous Leishmaniasis: The ECLIPSE Experience

Grand Hall J - Ballroom Level (East Tower) Friday, October 20, 1:45 p.m. - 3:30 p.m. U.S. Central Time Zone

The control and prevention of neglected tropical diseases (NTDs) have conventionally focused on the utilization of biomedical interventions. However, with the growing emphasis on equity in healthcare and the adoption of a decolonized perspective in global health, community engagement and involvement (CEI) has emerged as a crucial component in global health research. Despite the widespread recognition of the importance of CEI, its

actual implementation within healthcare programs and research projects is often hindered by a lack of understanding and expertise. The ECLIPSE program is a five-year global health initiative aimed at improving the patient journey for those affected by cutaneous leishmaniasis (CL) and reducing stigma in underserved communities in Brazil, Ethiopia, and Sri Lanka. The program is a multidisciplinary collaboration involving over 60 researchers, including anthropologists, parasitologists, clinicians, psychologists, disease specialists, and public health researchers, and brings together expertise in leishmaniasis and social sciences from an international, cross-cultural perspective. The ECLIPSE team employs a combination of qualitative and quantitative methods, informed by ethnographic and anthropological theories, to gain a comprehensive understanding of the experiences, views, and perspectives of affected individuals, their communities, and healthcare professionals. These insights are now informing bespoke interventions, including the development of community education campaigns to increase disease awareness and reduce stigma, as well as training packages for healthcare professionals. The ECLIPSE research process, including design, implementation, and evaluation, is co-developed in each country using a unique CEI approach. Comparison of approaches adopted in three different countries shows that while a common model could be feasible to initiate CEI work, context-specific ongoing iterative adaptations are required during the whole project life cycle to enable the impact of the interventions to be sustainable. While traditional research methodologies such as clinical trials may provide the best evidence for biomedical interventions, broader public health interventions that aim to effect context-specific behavior change often necessitate ongoing adaptation of both the research process and interventions in line with broader societal and political changes in countries and communities. The lessons learned from the ECLIPSE program on the successful adaptation of novel methodologies based on the CEI approach, during the COVID-19 pandemic in three different country-specific crisis situations, will provide valuable insights into the utilization of CEI in global health research.

<u>CHAIR</u>

Suneth Agampodi Rajarata University of Sri Lanka, Saliyapura, Sri Lanka

Helen P. Price Keele University, Newcastle-under-Lyme, United Kingdom

1:45 p.m. INTRODUCTION

1:55 p.m. INTRODUCTION TO THE ECLIPSE PROGRAM AND A DECOLONIZED APPROACH TO COMMUNITY ENGAGEMENT AND INVOLVEMENT (CEI)

Helen P. Price Keele University, Newcastle-under-Lyme, United Kingdom

2:15 p.m.

THE ECLIPSE CEI APPROACH IN BRAZIL: EMPOWERING COMMUNITIES DURING A PANDEMIC

Paulo R. Machado Federal University of Bahia, Salvador, Brazil

2:35 p.m.

THE ECLIPSE CEI APPROACH IN TIGRAY, ETHIOPIA DURING CONFLICT Shewaye Belay Tessema

Mekelle University, Mekelle, Ethiopia

2:55 p.m.

THE ECLIPSE CEI APPROACH IN SRI LANKA: COMBINING ARTS AND HEALTH TO RAISE AWARENESS OF CUTANEOUS LEISHMANIASIS

Suneth Agampodi Rajarata University of Sri Lanka, Saliyapura, Sri Lanka



Scientific Session 79

Viruses - Epidemiology and Transmission Biology

Grand Ballroom CDEF - Ballroom Level (East Tower) Friday, October 20, 1:45 p.m. - 3:30 p.m. U.S. Central Time Zone

<u>CHAIR</u>

Matthew Aliota University of Minnesota, St. Paul, MN, United States Rachel Fay State University of New York Albany, Albany, NY, United States

1:45 p.m.

DENGUE SEROEPIDEMIOLOGY RELATED TO DEFORESTATION RATES IN RURAL VILLAGES OF THE PERUVIAN AMAZON COMMUNITIES

6404

Edson J. Ascencio¹, Luca Nelli², Isabel Byrne², Monica Hill², Elin Dumont², Lynn Gringnard², Kevin Tetteh², Lindsey Wu², Alejandro Llanos-Cuentas³, Chris Drakeley², Gillian Stresman², Gabriel Carrasco-Escobar¹

¹Institute of Tropical Medicine 'Alexander von Humboldt', Universidad Peruana Cayetano Heredia, Lima, Peru, ²London School of Hygiene & Tropical Medicine, London, United Kingdom, ³Institute of Tropical Medicine Alexander von Humboldt, Universidad Peruana Cayetano Heredia, Lima, Peru

2 p.m.

6405

SPATIOTEMPORAL MODELLING TO INVESTIGATE THE IMPACT OF CLIMATE AND EXTREME WEATHER EVENTS ON ARBOVIRUS TRANSMISSION IN BRAZIL

Victoria M. Cox¹, Wes Hinsley¹, Megan O'Driscoll², Felipe Campos de Melo Iani³, Nuno R. Faria⁴, Samir Bhatt⁵, Ilaria Dorigatti¹

¹MRC Centre for Global Infectious Disease Analysis, School of Public Health, Imperial College London, London, United Kingdom, ³Department of Genetics, University of Cambridge, Cambridge, United Kingdom, ³Laboratório de Genética Celular e Molecular, Universidade Federal de Minas Gerais; Laboratório Central de Saúde Pública, Fundação Ezequiel Dias, Belo Horizonte, Brazil, ⁴MRC Centre for Global Infectious Disease Analysis, School of Public Health, Imperial College London, London, United Kingdom; Department of Biology, University of Oxford, Oxford, United Kingdom; Institute of Tropical Medicine, University of São Paulo, São Paulo, Brazil, ⁴MRC Centre for Global Infectious Disease Analysis, School of Public Health, Imperial College London, London, United Kingdom; Section of Epidemiology, Department of Public Health, University of Copenhagen, Copenhagen, Denmark

2:15 p.m.

6406

PRIOR ZIKA VIRUS INFECTION INCREASES RISK OF SUBSEQUENT SYMPTOMATIC INFECTION BY DENGUE VIRUS SEROTYPES 2 AND 4 BUT NOT SEROTYPES 1 AND 3

Jose Victor Zambrana¹, Chloe M. Hasund², Rosemary A. Aogo², Sonia Arguello³, Cesar Narvaez³, Karla Gonzalez³, Damaris Collado³, Tatiana Miranda³, Guillermina Kuan⁴, Angel Balmaseda⁵, Leah Katzelnick², Eva Harris⁶

¹Department of Epidemiology, School of Public Health, University of Michigan, Ann Arbor, MI, United States, ²Viral Epidemiology and Immunity Unit, Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, ³Sustainable Sciences Institute, Managua, Nicaragua, ⁴Centro de Salud Sócrates Flores Vivas, Ministerio de Salud, Managua, Nicaragua, ^sLaboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua, Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States

2:30 p.m.

6407

INVESTIGATING THE POTENTIAL OF DENGUE AND ZIKA VIRUS TO ESTABLISH A SYLVATIC TRANSMISSION CYCLE IN THE **NEOTROPICS THROUGH A MODELING LENS**

Hélène Cecilia¹, Benjamin M. Althouse², Sasha R. Azar³, Shannan L. Rossi³, Nikos Vasilakis³, Kathryn A, Hanley¹

¹New Mexico State University, Las Cruces, NM, United States, ²University of Washington, Seattle, WA, United States, 3University of Texas Medical Branch, Galveston, TX, United States

2:45 p.m.

6408

INVESTIGATING THE VECTOR COMPETENCE OF A SCOPE OF MOSQUITO SPECIES IN THE TRANSMISSION OF GETAH VIRUS

Faustus A. Azerigyik¹, Astri Nur Faizah², Daisuke Kobayashi², Michael Amoa-Bosompem³, Ryo Matsumura², Izumi Kai², Toshinori Sasaki², Yukiko Higa², Haruhiko Isawa², Shiroh Iwanaga⁴, Tomoko Ishino¹

¹Tokyo Medical and Dental University, Bunkyo-ku, Japan, ²National Institute of Infectious Diseases, Shiniuku-ku, Japan. 3University of Tennessee., Knoxville., TN, United States, 4Research Institute for Microbial Diseases, Osaka University., Suita, Osaka., Japan

3 p.m.

6409

EXPOSURE TO WEST NILE VIRUS AND STRAIN-SPECIFIC DIFFERENCES SHAPE TRANSMISSION BYCX. PIPIENSUNDER **CLIMATE CHANGE**

Rachel Fay¹, Mauricio Cruz-Loya², Elyse Banker³, Jessica Stout³, Anne Payne³, Erin Mordecai², Alexander Ciota³

School of Public Health, State University of New York Albany, Albany, NY, United States, ²Biology Department, Stanford University, Stanford, CA, United States, ³Arbovirus Laboratory, Wadsworth Center, New York State Department of Health, Slingerlands, NY, United States

3:15 p.m.

6410

IDENTIFICATION OF ZIKA VIRUS GENES INVOLVED IN MOSQUITO TRANSMISSIBILITY

Shiho Torii¹, Alicia Lecuyer¹, Caroline Manet¹, Matthieu Prot¹, Cheikh T. Diagne², Oumar Faye², Ousmane Faye², Amadou A. Sall², Etienne Simon-Lorière¹, Xavier Montagutelli¹, Louis Lambrechts¹

¹Institut Pasteur, Paris, France, ²Institut Pasteur de Dakar, Dakar, Senegal

Scientific Session 80

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

Grand Hall K - Ballroom Level (East Tower) Friday, October 20, 1:45 p.m. - 3:30 p.m. U.S. Central Time Zone

CHAIR

Frederick S. Buckner University of Washington, Seattle, WA, United States Alyse Wheelock Boston University Medical Center, Boston, MA, United States

1:45 p.m.

CRYPTOSPORIDIUM PARVUM: THIOREDOXIN REDUCTASE ACTS AS THE PRIMARY REGULATOR OF GLUTATHIONE AND THIOREDOXIN REDOX PATHWAYS AND IS A TARGET FOR DRUG DISCOVERY FOR CRYPTOSPORIDIOSIS

6411

Jala Bogard¹, Federica Gabriele², Matteo Ardini², Marta Palerma², Xian-Ming Chen¹, Francesco Angelucci², David Williams¹ ¹Rush University Medical Center, Chicago, IL, United States, ²University of L'Aquila, L'Aquila,

Italy

6412

2 p.m.

PROGRESS IN DEVELOPING METHIONYL-TRNA SYNTHETASE INHIBITORS FOR CHAGAS DISEASE

Frederick S. Buckner, Zhongsheng Zhang, Aisha Mushtaq, John R. Gillespie, Zackary M. Herbst, Sayaka Shibata, Erkang Fan University of Washington, Seattle, WA, United States

2:15 p.m.

METABOLOMIC ANALYSIS REVEALS A NOVEL IMMUNOMODULATORY ROLE OF LYSOPHOSPHATIDYLCHOLINES IN IMMUNIZATION WITH A **GENETICALLY MODIFIED LIVE ATTENUATED PARASITIC VACCINE**

6413

Parna Bhattacharva¹, Jinchun Sun², Nazli Azodi¹, Hannah Markle¹, Sreenivas Gannavaram¹, Richard Beger², Hira Nakhasi¹

¹FDA, Silver Spring, MD, United States, ²FDA, Jefferson, AR, United States

2:30 p.m.

6414

NEW TRYPANOSOME GENOMES DEMONSTRATE THE CO-EVOLUTIONARY RELATIONSHIP BETWEEN ENERGY SOURCE AND SURVIVAL STRATEGY

Ross Stuart Low¹, Kevin Tyler², Neil Hall¹

¹The Earlham Institute, Norwich, United Kingdom, ²University of East Anglia, School of Medicine, Norwich, United Kingdom

6415

2:45 p.m.

FACING ADVERSITY: CHAGAS DISEASE TREATMENT TOLERABILITY AND ADVERSE EVENTS AT AN ACADEMIC SAFETY-NET HOSPITAL IN NEW ENGLAND

Alvse Wheelock¹, Katherine Reifler¹, Alejandra Salazar², Samantha Hall³, Natasha Hochberg², Davidson H. Hamer³, Daniel Bourque¹

Boston University Medical Center, Boston, MA, United States, Boston Medical Center, Boston, MA, United States, 3Boston University, Boston, MA, United States

3 p.m.

6416

INTRA-SPECIES GENETIC CLASSIFICATION OF ENTEROMONAS SP. DETECTED FROM HUMAN AND ANIMAL HOSTS IN INDONESIA

Siti Arifah Lacante¹, Chuanhao Jiang¹, Tetsushi Mizuno¹, Din Syafruddin², Masaharu Tokoro¹

¹Kanazawa University, Kanazawa, Japan, ²Universitas Hasanuddin, Makassar, Indonesia

3:15 p.m.

6417

CHEMICAL AND GENETIC INVESTIGATIONS ON LEISHMANIA DEXD/H-BOX PROTEINS AS POTENTIAL DRUG TARGETS AGAINST LEISHMANIASIS

Yosser zina Abdelkrim É. Guediche¹, Emna Harigua¹, Imen Bassoumi-Jamoussi¹, Molka Mokdadi¹, Mourad Barhoumi¹, Josette Banroques², Lucien Crobu³, Yvon Sterckers³, Khadija Essafi-Benkhadir¹, Michael Nilges⁴, Arnaud Blondel⁴, N. Kyle Tanner², Ikram Guizani¹

¹Institut Pasteur de Tunis, Tunis, Tunisia, ²Institut De biologie Physico-chimique, Paris, France, ³C.H.U. de Montpellier, Montpellier, France, ⁴Institut Pasteur de Paris, Paris, France

Scientific Session 81

Filariasis - Clinical, Immunology, and Diagnosis

Grand Hall L - Ballroom Level (East Tower) Friday, October 20, 1:45 p.m. - 3:30 p.m. U.S. Central Time Zone

<u>CHAIR</u>

Rachel Pietrow NIH, Bethesda, MD, United States

Benoit Dembele Helen Keller International, Regional Office for Africa, Dakar, Senegal

1:45 p.m.

6418

EFFICACY OF MOXIDECTIN VS. IVERMECTIN COMBINATION TREATMENTS FOR BANCROFTIAN FILARIASIS IN COTE D'IVOIRE: PRELIMINARY 24 MONTH RESULTS

Benjamin G. Koudou¹, Philip J. Budge², Allassane F. Ouattara¹, Pascal T. Gabo³, Peter U. Fischer², Christopher L. King⁴, Gary J. Weil², Catherine M. Bjerum⁴ ¹Centre Suisse de Recherche Scientifique, Abidjan, Côte D'Ivoire, ²Washington University, St. Louis, MO, United States, ³Hôpital Générale d'Agboville, Agboville, Côte D'Ivoire, ⁴Case Western Reserve University, Cleveland, OH, United States

2 p.m.

6419

EFFICACY AND SAFETY OF ALBENDAZOLE 400 AND 800 MG ON HYPERMICROFILAREMIC LOIASIS : PRELIMINARY RESULTS OF A PHASE IIB, RANDOMIZED, SINGLE-BLIND CLINICAL TRIAL IN NORTHERN GABON

Noé Patrick M'Bondoukwé, Luccheri Ndong Akomezogho, Jacques Mari Ndong Ngomo, Bridy Chesly Moutombi Ditombi, Roger Hadry Sibi Matotou, Meredith Flore Ada Mengome, Denise Patricia Mawili Mboumba, Marielle Karine Bouyou-Akotet Université des Sciences de la Santé du Gabon, Owendo, Gabon

2:15 p.m.

6420

DEVELOPMENT OF AN ELISA TO DETECT ANTIBODY TO ONCHOCERCA VOLVULUS INFECTION USING A MAMMALIAN EXPRESSED RECOMBINANT ANTIGEN 0V16

Sylvia Ossai, Eric S. Elder, Won Y. Kimberly, William E. Secor, Sukwan Handali Centers for disease control and Prevention, Atlanta, GA, United States

2:30 p.m.

6421

LABORATORY EVALUATION OF ONCHOCERCIASIS RAPID DIAGNOSTIC TESTS (RDTS)

Eric S. Elder¹, Marco Biamonte², Lily Sullins², Pete Augostini¹, William E. Secor¹, Kimberly Y. Won¹

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Drugs and Diagnostics for Tropical Diseases, San Diego, CA, United States

2:45 p.m.

WB 5, A NOVEL BIOMARKER FOR MONITORING EFFICACY AND SUCCESS OF MASS DRUG ADMINISTRATION PROGRAMS FOR WUCHERERIA BANCROFTI ELIMINATION

6422

Rachel E. Pietrow, Thomas B. Nutman, Sasisekhar Bennuru National Institutes of Health, Bethesda, MD, United States

3 p.m.

PROTEIN INVENTORY OF ONCHOCERCA VOLVULUS NEOPLASMS IDENTIFIED BY DEEP VISUAL PROTEOMICS

Kerstin Fischer¹, Lucia S. Di Maggio¹, Bruce A. Rosa¹, Makedonka Mitreva¹, Jessica K. Lukowski¹, Minsoo Son¹, Byoung-Kyu Cho¹, Young Ah Goo¹, Nicholas Opoku², Gary J. Weil¹, Peter U. Fischer¹

6423

¹Washington University School of Medicine, St. Louis, MO, United States, ²University of Health and Allied Sciences, Ho, Ghana

3:15 p.m.

6424

ASSOCIATION BETWEEN ALTERED COGNITION AND LOAISIS: FIRST EVIDENCE FROM A CROSS-SECTIONAL STUDY IN A RURAL AREA OF THE REPUBLIC OF CONGO

Thomas Checkouri¹, Francois Missamou², Sebastien D. S. Pion³, Paul Bikita², Marlhand C. Hemilembolo², Michel Boussinesq³, Cédric B. Chesnais³, **Jérémy T. Campillo**³ ¹AP-HP, Paris, France, ²PNLO, Brazzaville, Republic of the Congo, ³Institut de Recherche pour le Développement, Montpellier, France

Scientific Session 82

Schistosomiasis II

Plaza Ballroom - Lobby Level (East Tower) Friday, October 20, 1:45 p.m. - 3:30 p.m. U.S. Central Time Zone

CHAIR

Charles B. Delahunt Global Health Labs, Seattle, WA, United States Adebayo Molehin Midwestern University, Glendale, AZ, United States

1:45 p.m.

6425

DEVELOPING NOVEL FLATWORM ION CHANNEL LIGANDS TO TREAT NEGLECTED TROPICAL DISEASES

Daniel J. Sprague¹, Sang-Kyu Park¹, Claudia M. Rohr¹, Simone Häberlein², Jonathan S. Marchant¹

¹Medical College of Wisconsin, Milwaukee, WI, United States, ²Institute of Parasitology, Justus Liebig University Giessen, Giessen, Germany 2 p.m.

6426

NOVEL INHIBITORS OF THIOREDOXIN GLUTATHIONE REDUCTASE WITH SCHISTOSOMICIDAL ACTIVITY

Samuel Y. Aboagye¹, Valentina Z. Petukhova², Matteo Ardini³, Rachel P. Lullo¹, Margaret Byrne¹, Lucy M. Martin¹, Gregory Effantin⁴, Wai-Li Ling⁴, Gregory RJ Thatcher⁵, Francesco Angelucci³, Pavel A. Petukhov⁶, David Williams¹

¹Rush University Medical Center, Chicago, IL, United States, ²University of Illinois at Chicago, Chicago, IL, United States, ³University of L'Aquila, L'Aquila, Italy, ⁴University of Grenoble Alpes, Grenoble, France, ⁵University of Arizona, Tucson, AZ, United States, ⁶University of Illinois at Chicago, Chicago, IL, United States

2:15 p.m.

6427

HIGH SENSITIVITY BUT LOW SPECIFICITY OF FEMALE GENITAL SCHISTOSOMIASIS SYMPTOMS AND RISK FACTORS DIAGNOSTIC TOOL ON GENITAL LESIONS ASSOCIATED WITH FEMALE GENITAL SCHISTOSOMIASIS IN ADOLESCENT GIRLS AND WOMEN IN MASWA DISTRICT, TANZANIA

Gladys Mbwanji, Humphrey Mazigo

Catholic University of Health and Allied Sciences, Mwanza, United Republic of Tanzania

2:30 p.m.

6428

OPTIMISATION OF THE DNA DIPSTICK AS A RAPID EXTRACTION METHOD FOR S. JAPONICUM IN INFECTED MICE SAMPLES AND SPIKED HUMAN CLINICAL SAMPLES

Oyime Poise Aula¹, Donald P. McManus¹, Malcolm K. Jones², Hong You¹, Pengfei Cai¹, Mary Duke¹, Catherine A. Gordon¹

¹QIMR Berghofer Medical Research Institute, Herston, Australia, ²University of Queensland, Gatton, Australia

2:45 p.m.

6429

ACCEPTABILITY OF GENITAL SELF-SAMPLING FOR THE DIAGNOSIS OF FEMALE GENITAL SCHISTOSOMIASIS IN HARD-TO-REACH COMMUNITIES

Emmanuel Timmy Donkoh¹, Edward T. Dassah², Samuel Fosu Gyasi¹, Oksana Debrah³, Dodzi Amelor⁴, Richard Asmah⁵, Ahmed Ramseyer⁶, Kwame O. Boadu⁷, Emma Donkoh⁸, Angelina Kantam¹, Lois Kyeretwie¹, Esther Owusu Yawson¹, Nathanael Agyapong-Apraku¹, Josephine Opoku-Agyemang¹

¹University of Energy and Natural Resources, Sunyani, Ghana, ²Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, ³University of Cape Coast, Cape Coast, Ghana, ⁴Ghana Health Service, Accra, Ghana, ⁵University of Health and Allied Sciences, Ho, Ghana, ⁶Ghana Health Service, Yeji, Ghana, ⁷Ghana Health Service, Kumasi, Ghana, ⁸Ghana Health Service, Tain, Ghana

3 p.m.

6430

EXPANDING FEMALE GENITAL SCHISTOSOMIASIS (FGS) LEARNING AND APPLICATION THROUGH AN ONLINE TRAINING FOR MIXED CADRES OF HEALTH CARE WORKERS IN FRANCOPHONE AFRICA

Martha N. Mberu¹, Kelly Yotebieng¹, Isis Umbelino-Walker², Anastasia Pantelias², Julie Jacobson²

¹The END Fund, New York, NY, United States, ²Bridges to Development, Vashon, WA, United States

3:15 p.m.



THE STATUS OF SCHISTOSOMIASIS AFTER A DECADE OF MASS DRUG ADMINISTRATION IN SIERRA LEONE

Ibrahim Kargbo-Labour¹, **Mohamed S. Bah**², Victoria Turay², Abdulai Conteh¹, Abdulai Koroma¹, Elisabeth Chop³, Patricia Houck³, Anna Phillips⁴, Angela Weaver³, Steven D. Reid³

¹Neglected Tropical Diseases Program, Ministry of Health and Sanitation, Freetown, Sierra Leone, ²Helen Keller International, Freetown, Sierra Leone, ³Helen Keller International, New York, NY, United States, ⁴FHI 360, Washington, DC, United States

Symposium 83

Reimagining the Continuum of Care for Severe Malaria Patients

Crystal Ballroom A - Lobby Level (West Tower) Friday, October 20, 1:45 p.m. - 3:30 p.m. United States Central Time Zone

The diagnosis and management of severe malaria remains a challenge. It is important and deserves more attention. In 2021, an estimated 619,000 malaria related deaths occurred, mostly in children in sub-Saharan Africa. The standard treatment pathway for patients in remote areas, consisting of pre-referral intervention with artesunate rectal capsules, fol-lowed by appropriate severe malaria treatment with injectable artesunate at a referral health facility, and completed with a full ACT course, may not always be achievable. There has been a lively debate about the interpretation of data about the deployment of rectal artesunate as a pre-referral intervention. Updated guidance to countries is being developed and expected to be released by mid-2023, pending WHO review process. Translating current guidelines into practice is proving challenging in remote settings. The full treatment para-digm is not always feasible when access to primary healthcare facilities is limited due to factors such as lack of transport, availability of services, and cost. This symposium will provide an opportunity to learn about practical approaches and new ways to reimagine severe malaria case management in the continuum of care for severe malaria patients.

CHAIR Hans Rietveld

Medicines for Malaria Venture, Geneva, Switzerland Christine Manyando Tropical Diseases Research Center, Ndola, Zambia

1:45 p.m. INTRODUCTION

1:55 p.m.

UPDATED GUIDANCE FOR THE RESPONSIBLE DEPLOYMENT OF RECTAL ARTESUNATE AS A PRE-REFERRAL INTERVENTION FOR SEVERE MALARIA

Olugbenga Mokuolu Management Sciences for Health, Arlington, VA, United States

2:15 p.m.

AN ALTERNATIVE PATHWAY FOR SEVERE MALARIA PATIENTS IN REMOTE AREAS "WHERE THERE IS NO DOCTOR" – REFLECTIONS FROM DRC AND ZAMBIA

Christine Manyando Tropical Diseases Research Center, Ndola, Zambia

2:35 p.m.

NEW TARGET PRODUCT PROFILE FOR ANTIMALARIALS TO ADDRESS THE NEEDS OF PATIENTS WITH SEVERE MALARIA Jane Achan

Malaria Consortium, Kampala, Uganda

2:55 p.m.

COUNTRY PERSPECTIVES ON THE NEW WHO RECOMMENDATION FOR POST-DISCHARGE MALARIA CHEMOPREVENTION IN PATIENTS WITH SEVERE ANEMIA Titus Kwambai

Centre for Disease Control Kenya Malaria Programme, Kisumu, Kenya

Symposium 84

What's New in Clinical Tropical Medicine Literature?

Crystal Ballroom B - Lobby Level (West Tower) Friday, October 20, 1:45 p.m. - 3:30 p.m. United States Central Time Zone

Experts in Tropical Medicine and Travelers' Health base their decisions on the knowledge of disease epidemiology, clinical course, diagnostic tools, resistance patterns, and vaccine da-ta. This symposium will highlight recent studies on these aspects of Malaria, Yellow Fever, SARS-CoV-2 and Chikungunya virus.

<u>CHAIR</u>

Ivan A. Gonzalez University of Miami, Miami, FL, United States Lin H. Chen Mount Auburn Hospital and Harvard Medical School, Cambridge, MA, United States

1:45 p.m. INTRODUCTION

1:55 p.m. WHAT'S NEW IN THE LITERATURE: SARS-COV-2?

Henry Wu The Emory Clinic, Emory University, Atlanta, GA, United States

2:10 p.m.

WHAT'S NEW IN THE LITERATURE: MALARIA?

Bartholomew Ondigo Egerton University, Nakuru, Kenya

2:35 p.m. WHAT'S NEW IN THE LITERATURE: YELLOW FEVER

J Erin Staples U.S. Centers for Disease Control and Prevention, Fort Collins, CO, United States

3 p.m. WHAT'S NEW IN THE LITERATURE: CHIKUNGUNYA? Susan Hills

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

3:25 p.m. MODERATOR, PANEL DISCUSSION Lin H. Chen Mount Auburn Hospital, Cambridge, MA, United States

Symposium 85

Bridging the "Know-Do-Gap": Using Implementation Science to Adapt Evidence-Based Interventions and Improve Their Uptake in Low-and-Middle-Income Coun-tries

Regency Ballroom A - Ballroom Level (West Tower) Friday, October 20, 1:45 p.m. - 3:30 p.m. United States Central Time Zone

Studies show that it takes an average of 17 years for evidencebased interventions (EBIs) to be implemented into routine clinical practice. This gap between what we "know" from available evidence and what we actually "do" in routine clinical care is particularly pro-nounced in low-and-middle income countries (LMICs). Most EBIs were developed in or by those in high-resource countries and may not consider or account for context such as healthcare infrastructure or resource limitations in LMICs. Implementation science aims to bridge this "know-do-gap" by providing rigorous scientific methods to adapt EBIs to differ-ent healthcare settings, identify barriers to EBI implementation, and develop strategies to overcome these barriers. Implementation science also provides structured approaches to assessing the success of implementation strategies by measuring implementation outcomes such as acceptability, feasibility, appropriateness, and cost-effectiveness. Implementation science provides implementation researchers and practitioners with the tools to adapt and test EBIs using contextually appropriate strategies that address individual, collective, and/or systemic barriers to care, optimizing EBIs to improve uptake, adoption, and health out-comes. This ultimately results in improved health equity for patients requiring health ser-vices relevant to the EBIs. In this symposium, we will use real-world examples to introduce and demystify the field of implementation science. To provide a broad introduction to this topic, we will highlight different aspects of implementation science across diverse practice sites and patient demographics. These include (1) developing and implementing HIV pre-vention and treatment programs for children living in Nigeria; (2) using gualitative research methods to assess organizational readiness for change and prioritize requirements for elec-tronic medical record rollout within cancer centers in African countries; (3) exploring how guidelines can be adapted to improve the uptake of evidence-based practices in China, and (4) assessing the cost-effectiveness of point-of-care diagnostics in Ugandan patients with advanced HIV. This symposium will introduce clinicians, researchers, program implement-ers, and policymakers to implementation science. It will also provide tools for assessing barriers to implementing EBIs, designing implementation strategies to overcome these bar-riers, and evaluating the effectiveness of these implementation strategies in improving EBI uptake/adoption. For clinicians and policymakers working in LMICs, this symposium intends to improve the understanding and

use of implementation science to facilitate integration of EBIs into routine clinical care, improving health outcomes in resource-limited settings.

<u>CHAIR</u>

Beth Thielen University of Minnesota, Minneapolis, MN, United States Elizabeth Anne Gulleen Fred Hutchinson Cancer Center, Seattle, WA, United States

1:45 p.m. INTRODUCTION

1:55 p.m.

UNDERSTANDING IMPLEMENTATION SCIENCE THROUGH THE LENS OF HIV PROGRAM DEVELOPMENT

Nadia A. Sam-Agudu Institute of Human Virology Nigeria, Abuja, Nigeria

2:15 p.m.

IMPLEMENTABILITY OF AND IMPLEMENTATION STRATEGIES FOR CLINICAL PRACTICE GUIDELINES

Dong (Roman) Xu Southern Medical University, Guangzhou, China

2:35 p.m.

COST-EFFECTIVENESS ANALYSIS TO INFORM INFECTION MANAGEMENT STRATEGIES FOR PATIENTS WITH HIV IN UGANDA

Radha Rajasingham University of Minnesota, St Paul, MN, United States

2:55 p.m.

OPTIMIZING ELECTRONIC MEDICAL RECORD USAGE FOR CANCER CARE IN SUB-SAHARAN AFRICA

Johnblack Kabukye Uganda Cancer Institute, Kampala, Uganda

3:15 p.m.

THE CASE FOR IMPLEMENTATION SCIENCE

Elizabeth Anne Gulleen Fred Hutchinson Cancer Center, Seattle, WA, United States

Scientific Session 86

Pneumonia, Respiratory Infections and Tuberculosis I

Regency Ballroom B - Ballroom Level (West Tower) Friday, October 20, 1:45 p.m. - 3:30 p.m. U.S. Central Time Zone

<u>CHAIR</u> Jasper Chan The University of Hong Kong, Hong Kong, Hong Kong Douglas Perkins University of New Mexico, Albuquerque, NM, United States

1:45 p.m. PRESENTATION BY BURROUGHS WELLCOME FUND-ASTMH FELLOWSHIP RECIPIENT

6432

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

Mariam O. Fofana¹, Julio Silva², Nivison Nery Jr³, Juan Pablo Aguilar Ticona³, Valter Silva Monteiro², Emilia Andrade Belitardo³, M. Catherine Muenker¹, Jaqueline Cruz³, Renato Victoriano³, Daiana Santos de Oliveira³, Laiara Lopes dos Santos³, Juliet Oliveira Santana³, Ananias Sena do Aragão Filho³, Adam Waickman⁴, Ricardo Khouri³, Matt D.T. Hitchings⁵, Mitermayer G. Reis³, Federico Costa⁶, Carolina Lucas², Akiko Iwasaki², Derek Cummings⁵, Albert I. Ko¹

¹Yale School of Public Health, New Haven, CT, United States, ²Yale School of Medicine, New Haven, CT, United States, ³Instituto Gonçalo Moniz (Fiocruz), Salvador, Brazil, ⁴SUNY Upstate Medical University, Syracuse, NY, United States, ⁶University of Florida, Gainesville, FL, United States, ⁶Universidade Federal da Bahia, Salvador, Brazil

2 p.m.

6433

DIFFERENTIAL PROTEOME EXPRESSION IN A DIVERSE POPULATION OF HOSPITALIZED PATIENTS WITH COVID-19

Douglas J. Perkins¹, Qiuying Cheng¹, Clinton Onyango¹, Kristan Schneider², Ivy Hurwitz¹ ¹University of New Mexico HSC, Center for Global Health, Albuquerque, NM, United States, ²University of Applied Sciences Mittweida, Mittweida, Germany

2:15 p.m.

6434

EXTENSIVE TRANSMISSION OF SARS-COV-2 BQ.1 VARIANT IN A POPULATION WITH HIGH LEVELS OF HYBRID IMMUNITY

Juan P. Aguilar Ticona¹, Meng Xiao², Dan Li³, Nivison Nery Jr¹, Matt Hitchings⁴, Emília M. M. De Andrade Belitardo⁵, Mariam O. Fofana⁶, Renato Victoriano⁵, Jaqueline Cruz⁵, Laise Eduarda Paixão de Moraes⁵, Icaro Morais Strobel⁵, Jessica Jesus Silva⁵, Ananias Sena do Aragão Filho⁵, Guilherme S. Ribeiro⁵, Mitermayer G. Reis⁵, Federico Costa¹, Ricardo Khouri⁵, Albert I. Ko⁶, Derek A. T. Cummings⁷

¹Instituto de Saúde Coletiva, Universidade Federal da Bahia, Salvador, Brazil, ²Department of Laboratory Medicine, State Key Laboratory of Complex Severe and Rare Diseases, Peking Union Medical College Hospital, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, China, ³Public Health Emergency Center, Chinese Center for Disease Control and Prevention, Beijing, China, ⁴Department of Biostatistics, University of Florida, Gainesville, FL, United States, ¹Instituto Gonçalo Moniz, Fundação Oswaldo Cruz, Ministério da Saúde, Salvador, Brazil, ⁶Department of Epidemiology of Microbial Diseases, Yale School of Public Health, New Haven, CT, United States, ⁷Department of Biology, University of Florida, Gainesville, FL, United States

2:30 p.m.

6435

PERFORMANCE OF A NOVEL REALTIME-TIME PCR DEVICE FOR DETECTION OF SARS-COV-2, RESPIRATORY SYNCYTIAL VIRUS AND INFLUENZA VIRUSES FROM AUGUST 2022 TO JANUARY, 2023

Michael Owusu¹, Bernard Nkrumah², Godfred Acheampong³, Stephen Opoku Afriyie³, Richard Larbi³, Richard Owusu-Ansah³, Chrysantus Kubio⁴, Farouk Saeed⁵, Nana Kwame Ayisi-Boateng⁶, Eric Darko⁶, James Frimpong⁶, Veronica Bannor⁷, Frederick Ayensu⁸, Pawan Angra⁹, Danielle T. Barradas¹⁰

¹Kwame Nkrumah University of Science and Technology, Centre for Health System Strengthening, Kumasi, Ghana, ²US Centers for Disease Control and Prevention, Kumasi, Ghana, ³Centre for Health System Strengthening, Kumasi, Ghana, ⁴Regional Health Directorate, Savannah Region, Kumasi, Ghana, ⁹Regional Health Directorate, Ghana Health Service, Savannah Region, Kumasi, Ghana, ⁶Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, ⁷Asokwa Children Hospital, Kumasi, Ghana, ⁸HopeXchange, Kumasi, Ghana, ⁹US Centers for Disease Control and Prevention, Georgia-Atlanta, GA, United States, ⁷⁰US Centers for Disease Control and Prevention, Atlanta, Ghana

2:45 p.m.

6436

PATHWAYS & MORTALITY OF UNDER 5 CHILDREN IDENTIFIED AS SEVERE CASES WITH ROUTINE PULSE OXIMETRY USED INTO THE INTEGRATED MANAGEMENT OF CHILDHOOD ILLNESS GUIDELINES AT PRIMARY HEALTH CENTERS IN WEST AFRICA, JUNE 2021 TO JUNE 2022

Gildas Boris HEDIBLE¹, Desire Neboua², Lucie Peters Bokol¹, Gildas ANAGO², Zineb ZAIR¹, Severin Lenaud³, Honorat Agbeci¹, Abdoul Guaniyi SAWADOGO⁴, Désiré KARGOUGOU⁵, Bertrand Meda⁶, Jacques Séraphin Kolié⁷, Sandrine Busiere⁸, Franck Lamontagne⁹, Sarah Louart¹⁰, Valery Ridde¹¹, Valériane Leroy¹

¹CERPOP UMR 1295 INSERM UT3, Toulouse, France, ²ALIMA, Dakar, Senegal, ³PACCI, Abidjan, Côte D'Ivoire, ⁴Tdh, Ouagadougou, Burkina Faso, ⁵ALIMA, Bamako, Mali, ⁶SOLTHIS, Niamey, Niger, ⁷ALIMA, Conakry, Guinea, ⁸Tdh, Dakar, Senegal, ⁹Solthis, Paris, France, ¹⁰ALIMA & 8. University of Lille, CLERSE - Centre Lillois d'Études et de Recherches Sociologiques et Économiques, Dakar, Senegal, ¹¹IRD, Paris, France

3 p.m.

6437

IMPACT OF PNEUMOCOCCAL CONJUGATE VACCINES ON PENICILLIN RESISTANT S. PNEUMONIAE

Sebastian Loli¹, Theresa Ochoa¹, Stephen Bentley², Stephanie Lo² ¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²Wellcome Sanger Institute, Hinxton, Cambridgeshire, United Kingdom

3:15 p.m.

6438

MULTIPLEXED ANTIGEN SPECIFIC ANTIBODY FC PROFILING FOR POINT OF CARE DIAGNOSIS OF TUBERCULOSIS

Sarah Ali, Preetham Peddireddy, Abhipsa Panigrahi, Asma Hashim, Aniruddh Sarkar Georgia Institute of Technology, Atlanta, GA, United States

Symposium 87

American Committee of Medical Entomology (ACME) Symposium I: Invasive Arthropods and their Impact on Public Health

Regency Ballroom C - Ballroom Level (West Tower) Friday, October 20, 1:45 p.m. - 3:30 p.m. United States Central Time Zone

Among the current impacts of globalization and climate change is the introduction of ar-thropods to new areas, where they can thrive if the local conditions are adequate. Invasive arthropods can have a significant impact on human and animal health due to the establish-ment of ectoparasites, pathogen vectors, and vector borne diseases in new regions. The bed bugs Cimex lectularius and Cimex hemipterus are within the most important invasive pest ectoparasites that have resurged globally in the past decade, causing substantial human health impact and economic burden. In Africa, an Asian malaria vector, Anopheles stephen-si, continues expanding its geographical range, with the subsequent impact on local mosqui-to surveillance and control programs, as well as potential effects on urban malaria epidemi-ology. Likewise, one of the most extensively dispersed ticks worldwide, the brown dog tick (Rhipicephalus sanguineus s. l.), is capable of reaching high densities in urban areas and can transmit important zoonotic pathogens to humans. Although these and other invasive arthropods may already be established, tracking them is key for monitoring further expan-sion and controlling population densities. For this, there are successful citizen science initia-tives underway, such as NASA's GLOBE Observer Mosquito Habitat Mapper, which could be adapted to different species and local contexts. This symposium aims to present updated information on invasive arthropods, their impact on public health, and available tracking tools, in order to raise awareness on the need to understand, detect, and monitor invasive species to improve their control and reduce disease burden.

CHAIR

Adriana Troyo *Universidad de Costa Rica, San Jose, Costa Rica* Catherine A. Hill

Purdue University, West Lafayette, IN, United States

1:45 p.m. INTRODUCTION

1:55 p.m.

CIMEX LECTULARIUS AND CIMEX HEMIPTERUS: PUBLIC HEALTH IMPACT OF BED BUGS

Jose E. Pietri Sanford School of Medicine, University of South Dakota, Vermillion, SD, United States

2:15 p.m.

ANOPHELES STEPHENSI IN AFRICA: CURRENT DISTRIBUTION AND POTENTIAL IMPACT ON MALARIA

Fredros O. Okumu Ifakara Heallth Institute, Ifakara, United Republic of Tanzania

2:35 p.m.

RHIPICEPHALUS SANGUINEUS SENSU LATO: CURRENT DISTRIBUTION AND VECTOR COMPETENCE

Filipe Dantas-Torres Oswaldo Cruz Foundation (Fiocruz), Recife, Brazil

2:55 p.m.

NASA'S GLOBE OBSERVER MOSQUITO HABITAT MAPPER: THE ROLE OF CITIZEN SCIENCE IN MOSQUITO SURVEILLANCE, VECTOR RE-SEARCH AND LOCAL HEALTH

Russanne D. Low Institute for Global Environmental Strategies, Arlington, VA, United States

3:15 p.m. MODERATOR, PANEL DISCUSSION

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

Symposium 88

Integrated Malaria Molecular Surveillance (iMMS) in Africa: Current Initiatives and Future Direction

Regency Ballroom D - Ballroom Level (West Tower) Friday, October 20, 1:45 p.m. - 3:30 p.m. United States Central Time Zone

Interoperable data generated from multiple sources using robust integrated malaria molecu-lar surveillance (iMMS) is essential for sustainable control and elimination of malaria. This will enable country-led decision making, informed by a holistic understanding of how the three genomes - human, parasite, and vector - respond to specific malaria control interven-tions. National laboratories and Regional hubs (where one laboratory supports multiple countries) will greatly facilitate integration and utilization of genomics data at national, re-gional, continental, and global context. Through active engagement with policy makers and National malaria control programs (NMCPs), the laboratories/ hubs will generate data that is routinely and better integrated into decision making. For hubs, each hub leader will catalyze their own discrete but complementary regional networks providing training to neighboring countries from sample collection to translation of genomic data into actionable knowledge by NMCPs. Currently, iMMS platforms supporting the generation, processing, storing and analysis of data and regional centers of genomic surveillance are limited and not widely implemented. There is an urgent need to bring genome experts, bioinformaticians, and data analysts together to address cross-cutting questions that deepen our understanding of iMMS and its potentials for supporting the ongoing malaria elimination strategies. Addressing these challenges collectively will support the development of key operational questions, ev-idence-based decisions, and policymaking by NMCPs and other stakeholders. The symposi-um will bring together iMMS experts to provide updates and discuss current efforts to de-velop sampling frameworks and build data generation and analysis capacity and regional hubs across Africa. It will detail how harmonized iMMS approaches can address challenges of procurement, training and data interoperability and give specific examples of implemen-tation in Ghana, The Gambia, Mali and Vietnam. It will highlight on integration with NMCPs for optimal use of the data to address relevant use cases and building regional networks for iMMS. Symposium attendees will hear from experts who are either implementing or sup-porting iMMS projects in Africa and South-East Asia. In addition, a diverse group of panellists made of experts will discuss and highlight the pressing issues and perspectives on ef-fective implementation of iMMS in malaria endemic countries. Experts will discuss and share experiences and lessons and offer recommendations for effective implementation of iMMS in malaria-endemic countries with varying landscapes of disease burden.

<u>CHAIR</u>

Deus S. Ishengoma National Institute for Medical Research, Dar es Salaam, United Republic of Tanzania Shavanthi Rajatileka

Wellcome Sanger Institute, Hinxton, United Kingdom

1:45 p.m. INTRODUCTION

1:55 p.m.

ESTABLISHMENT AND IMPLEMENTATION OF AN INTEGRATED MALARIA PARASITE AND VECTOR MOLECULAR SURVEILLANCE IN GHANA (IMPAVES-GHANA)

Lucas Amenga-Etego

West African Centre for Cell Biology of Infectious Pathogens (WACCBIP), University of Ghana,, Accra, Ghana

2:10 p.m. ESTABLISHING A REGIONAL HUB FOR MALARIA GENOMIC SURVEILLANCE IN THE GAMBIA

Eniyou Cheryll Oriero

MRC Unit The Gambia Unit at the London School of Hygiene and Tropical Medicine., Banjui, Gambia

2:25 p.m.

PAN-AFRICAN OMICS AND BIOINFORMATICS INITIATIVES FOR MALARIA VECTOR RESEARCH AND SURVEILLANCE Nsa Dada

Norwegian University of Life Sciences, Ski, GA, Norway

2:40 p.m.

INCREASING PUBLIC HEALTH VALUE OF MALARIA SURVEILLANCE DATA

Olivo Mioto University of Oxford, Bangkok,, Thailand

2:55 p.m. PANELIST

Nana A. Williams Barcelona Institute for Global Health (ISGlobal), Hospital Clínic - Universitat de Barcelona, Barcelona, Spain

3:05 p.m.

MODERATOR, PANEL DISCUSSION

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

Career Chats: Meet the Overseas Mentors

Grand Hall MN - Ballroom Level (East Tower) Friday, October 20, 3 p.m. - 4 p.m. U.S. Central Time Zone

This session will provide trainees with an opportunity to learn directly from international re-searchers and other experts as a means to building on academic experiences to help them create networks that may aid in navigating future career paths. Trainees will have the opportunity to hear directly from established scientists, passionate about working with international students, at the forefront of global health and raise questions and ideas which could motivate their career ad-vancement at the global stage. The mentors will discuss their institutional global health portfolio and offer supportive strategies in navigating cultural, academic, and social challenges in overseas countries.

<u>CHAIR</u>

Bartholomew Ondigo Egerton University, Nakuru, Kenya

Katherine Dobbs Case Western Reserve University, Cleveland, OH, United States

PANELISTS

John H. Amuasi, Senior Lecturer in Global Health Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

Katherine Dobbs

Case Western Reserve University, Cleveland, OH, United States

Andres G. Lescano, Associate Professor Universidad Peruana Cayetano Heredia, Lima, Peru

Bartholomew Ondigo Egerton University, Nakuru, Kenya

Liam Smeeth, Director London School of Hygiene & Tropical Medicine, London, United Kingdom

Exhibit Hall Open

Riverside Center - Exhibit Level (East Tower) Friday, October 20, 3:15 p.m. - 4:15 p.m. U.S. Central Time Zone

Coffee Break

Riverside Center - Exhibit Level (East Tower) Friday, October 20, 3:30 p.m. - 4 p.m. U.S. Central Time Zone

Richard Hunt Sculpture Tour

Meet in Hotel Lobby at Wacker Drive Entrance Friday, October 20, 3:30 p.m. – 5 p.m.

Please join us along with the Green Task Force for a Chicago Art Walk featuring the work of Chicago's own famous sculptor, Richard Hunt. According to Kinshasha Holman Conwill, Director of the Studio Museum in Harlem, "Hunt has been a major figure in American Art for forty years. His sculpture and public commissions have earned a singular place in the cultural landscape and public imagi-nation." Jesus Lopes, a staff artist in Richard Hunt's Studio, will lead the tours. The tours will be held on Thursday, October 19 at 3:30 p.m. - 5 p.m. and Friday, October 20 at 3:30 p.m. - 5 p.m. Meet in the lobby of the Hyatt Regency Chicago at the Wacker Drive entrance.

Poster Session B Dismantle

Riverside Center - Exhibit Level (East Tower) and Grand Hall GHI – Ballroom Level (East Tower) Friday, October 20, 4 p.m. - 6:15 p.m.

Symposium 89

ASTMH Committee on Global Health (ACGH) Symposium II: From Concept to Practice: How to Sustainably Democratize/Decolonize Global Health

Grand Ballroom A - Ballroom Level (East Tower) Friday, October 20, 4 p.m. - 5:45 p.m. U.S. Central Time Zone

To achieve true and sustained decolonization of global health practices, actors and decision-makers need a better understanding of the processes, lessons learned along the way and the factors that can enable or interfere with decolonization of global health. This symposium will provide an overview of how global health can sustainably achieve decolonization from concept to practice. Presentations will address decolonizing global health education and research, decolonizing global organizations, country-level and community-level initiatives, and a call to action to be a proactive decolonizer. This symposium will enable and empower participants to play an active role in decolonizing global health, leading to better 'industry' policies and practices.

<u>CHAIR</u>

Maria Elena Bottazzi Baylor College of Medicine, Houston, TX, United States Katherine Wolf JHPIEGO, Baltimore, MD, United States

4 p.m. INTRODUCTION

4:10 p.m.

RECIPROCAL INNOVATION AS A STRATEGY TO DEMOCRATIZE GLOBAL HEALTH

Virginia Rowthorn

University of Maryland Baltimore Graduate School, Baltimore, MD, United States

4:25 p.m.

WHY IT IS CRITICAL TO ENSURE MEANINGFUL CONTRIBUTIONS OF LOCAL ACTORS AND COMMUNITIES AFFECTED BY MALARIA Olivia Ngou

impact santé Afrique (ISA) & CS4ME platform, Yaoundé, Cameroon

4:40 p.m.

A COUNTRY PERSPECTIVE: WHY AND FOR WHOM ARE WE DECOLONIZING GLOBAL HEALTH?

Elizabeth Anne Bukusi Center for Microbiology Research, KEMRI, Nairobi, Kenya

4:55 p.m.

PUTTING DECOLONIZATION AND LOCALIZATION INTO PRACTICE: AN INGO PERSPECTIVE?

JHPIEGO, Baltimore, MD, United States

5:10 p.m.

A CALL TO ACTION: STRIVING TOWARD TRUE EQUITY IN GLOBAL HEALTH: AN AFRICAN PERSPECTIVE

Yap Boum Institut Pasteur, Bangui, Central African Republic

Symposium 90

Friday ctober 20

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) Symposium II: Trager, Trainees and Take-off!

Grand Ballroom B - Ballroom Level (East Tower) Friday, October 20, 4 p.m. - 5:45 p.m. U.S. Central Time Zone

ACMCIP has bestowed the William Trager Award for Basic Parasitology since 2015. The award recognizes a fundamental breakthrough in molecular, cellular, or immunoparasitology. The Trager & Trainee Awardees Symposium exists to celebrate the present excellence, as well as highlight the bright future of molecular, cellular, and immunoparasitology research. This symposium will highlight the scientific work on the Trager awardee, along with the work of trainee and up-and-coming investigators in ACMCIP-related research. These include an ACMCIP Young Investigator awardee who works in parasitology as well as the winners of the ACMCIP Trainee 3-minute thesis competition. The coupling of both pivotal and emerging parasitology research will serve as both an educational and aspirational event for ACMCIP trainee members and the broader ASTMH membership.

<u>CHAIR</u>

Mahalia S. Desruisseaux Yale University School of Medicine, New Haven, CT, United States Dinah Nahid Wake Forest University, Winston-Salem, NC, United States

4 p.m. INTRODUCTION

4:10 p.m.

WILLIAM TRAGER AWARD FOR BASIC PARASITOLOGY: PRAZIQUANTEL: A NEW TARGET FOR AN OLD DRUG

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

4:40 p.m.

TRAINEE AWARD WINNER: LOSS OF SIGLEC-7 CORRELATES WITH ENHANCED NATURAL KILLER CELL FUNCTION AND PROTECTION FROM MALARIA SYMPTOMS

Jenna Dick

Department of Medicine, Division of Infectious Diseases and International Medicine, University of Minnesota, Minneapolis, MN, United States

4:50 p.m.

TRAINEE AWARD WINNER: AFRICAN MALARIA PARASITES CARRY A C-TERMINAL DELETION IN PFAP2-G THAT HAS A MAJOR IMPACT ON SEXUAL COMMITMENT

Ritwik Singhal Pennsylvania State University, State College, PA, United States

5 p.m.

TRAINEE AWARD WINNER

Claudia Rohr Neurobiology and Anatomy, Medical College of Wisconsin, Milwaukee, WI, United States

5:10 p.m.

TAKE-OFF AWARD IN PARASITOLOGY RESEARCH: MAPPING THE GENOMIC LANDSCAPE OF MULTIDRUG RESISTANCE IN *P. FALCIPARUM* MALARIA AND ITS IMPACT ON PARASITE FITNESS Sachel Mok

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

5:30 p.m. ACMCIP ANNUAL BUSINESS MEETING

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

Symposium 91

From a Single Dataset to a Million Patients: Solutions to Pool and Harmonize IPD for Effective and Equitable Reuse of Data to Generate New Evidence in an Open Science Framework

Grand Hall J - Ballroom Level (East Tower) Friday, October 20, 4 p.m. - 5:45 p.m. U.S. Central Time Zone

There is growing evidence of the improved statistical power of conducting individual-patient data (IPD) meta-analysis compared to aggregated meta-analysis. However, in order to do so, sharing, harmonizing and reusing data is a necessary step. There are increasing numbers of policies encouraging data sharing employed by funders and publishers. Actual practice however is still stagnating due to perceived and practical barriers. The Infectious Diseases Data Observatory (IDDO) has, with partners and collaborators from around the world, implemented solutions for many of the regulatory, ethical, and scientific hurdles that are

routinely cited by researchers as reasons for a lack of sharing and reuse. These solutions include establishment of equitable group collaborations and implementation of DOIs to ensure credit and traceability of data reuse; development of governance bodies, agreements, and procedures to address ethical and legal concerns and access barriers; and curation of data to CDISC -compliant standards to address heterogeneity and increase findability and reusability, alleviating resource burden on researchers. As exemplified through multiple published IPD meta-analyses and their impact on the development of WHO treatment guidelines the experience of IDDO and research partners serves as compelling evidence for the significant contribution that facilitation of data reuse can make to researchers, science and ultimately for the benefit of patients. The progress in understanding and overcoming those barriers within IDDO's context has been a relatively long journey but is significant, with novel infrastructure, collaborators and environments evolving. Workable solutions and ways forward will be explored, examining how current solutions could be improved, and where next steps should be focused. This symposium will provide a platform for experiences and practical solutions in open science focusing on data reuse, and a forum to push the field further. Overcoming these hurdles, and showcasing these successes is critical to start changing the dialogue from focusing on barriers to driving solutions.

<u>CHAIR</u>

Philippe J. Guerin University of Oxford, Oxford, United Kingdom Manju Rahi Indian Council of Medical Research, New Delhi, India

4 p.m. INTRODUCTION

4:10 p.m.

SOLUTIONS TO OPEN SCIENCE AND DATA REUSE Kalynn Kennon Infectious Diseases Data Observatory, Oxford, United Kingdom

4:35 p.m.

GOVERNANCE OF DATA REUSE Robert Terry TDR, World Health Organization, Geneva, Switzerland

4:50 p.m.

THE IMPACT OF DATA REUSE IN MALARIA

Robert J. Commons Menzies School of Health Research, Darwin, Australia

5:05 p.m. IMPACT OF DATA REUSE IN NTDS

María Jesús Pinazo Drugs for Neglected Diseases initiative, Rio de Janeiro, Brazil

5:20 p.m.

APPLICATIONS AND NEXT STEPS IN NEW ENVIRONMENTS Phaik Yeong Cheah

Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

5:35 p.m. MODERATOR, PANEL DISCUSSION Philippe J. Guérin

University of Oxford, Oxford, United Kingdom



Mosquitoes – Biology and Genetics of Insecticide Resistance

Grand Ballroom CDEF - Ballroom Level (East Tower) Friday, October 20, 4 p.m. - 5:45 p.m. U.S. Central Time Zone

CHAIR

Victoria Ingham Heidelberg University Hospital, Heidelberg, Germany Tchouakui Magellan Centre for Research in Infectious Diseases, Yaounde, Cameroon

4 p.m.

6439

THE IMPACT OF NEXT-GENERATION DUAL-ACTIVE INGREDIENT LONG-LASTING INSECTICIDAL NET DEPLOYMENT ON INSECTICIDE RESISTANCE IN MALARIA VECTORS DURING A THREE-YEAR CLUSTER-RANDOMIZED CONTROLLED TRIAL IN TANZANIA

Louisa Alexandra Messenger¹, Nancy S. Matowo², Chad L. Cross³, Mohamed Jumanne³, Natalie M. Portwood², Jackline Martin², Eliud Lukole³, Elizabeth Mallya³, Jacklin F. Mosha³, Robert Kaaya⁴, Oliva Moshi⁴, Bethanie Pelloquin², Katherine Fullerton², Alphaxard Manjurano³, Franklin W. Mosha⁴, Thomas Walker⁵, Mark Rowland², Manisha A. Kulkarni⁶, Natacha Protopopoff²

¹University of Nevada, Las Vegas, Las Vegas, NV, United States, ²London School of Hygiene & Tropical Medicine, London, United Kingdom, ³National Institute for Medical Research, Mwanza, United Republic of Tanzania, ⁴Kilimanjaro Christian Medical University College, Moshi, United Republic of Tanzania, ⁵University of Warwick, Waarwick, United Kingdom, ⁶University of Ottawa, Ottawa, ON, Canada

4:15 p.m.

6440

WHOLE GENOME SEQUENCING AND RNASEQ IDENTIFIES POTENTIAL MOLECULAR MARKERS OF INSECTICIDE RESISTANCE WITHIN THE ANOPHELES GAMBIAE SPECIES COMPLEX

Juan Carlos Lol¹, Antoine Sanou², Marion Morris³, Wasim Hussain¹, Hilary Ranson³, **Victoria A. Ingham**¹

¹Heidelberg University Hospital, Heidelberg, Germany, ²Centre National de Recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso, ³Liverpool School of Tropical, Liverpool, United Kingdom

4:30 p.m.

6441

EFFICACY OF DUAL-ACTIVE INGREDIENT LONG-LASTING INSECTICIDAL NETS RELATIVE TO STANDARD NETS, AGAINST HIGHLY PYRETHROID-RESISTANT ANOPHELES MOSQUITOES IN TANZANIA: AN EXPERIMENTAL HUT TRIAL

Jackline L. Martin¹, Louisa Messenger², Franklin W Mosha³, Nancy Matowo⁴, Jacklin F Mosha¹, Mark Rowland⁴, Manisha Kulkarni⁵, Natacha Protopopoff⁴ ¹NIMR Mwanza, Mwanza, United Republic of Tanzania, ²Department of Environmental and Occupational Health, School of Public Health, University of Nevada, Las Vegas, NV, United States of America, Las vegas, FL, United States, ³1Kilimanjaro Christian Medical University College, Moshi, United Republic of Tanzania, Moshi, United Republic of Tanzania, ⁴London School of Hygiene and Tropical, London, United Kingdom, London, United Kingdom, ⁵University of Ottawa, Canada, Ottawa, ON, Canada

4:45 p.m.

6442

EVIDENCE SUPPORTING DEPLOYMENT OF NEXT GENERATION INSECTICIDE TREATED NETS IN BURKINA FASO: BIOASSAYS WITH CHLORFENAPYR AND PIPERONYL BUTOXIDE INCREASE MORTALITY OF PYRETHROID-RESISTANT ANOPHELES GAMBIAE

Aristide S. Hien¹, Dieudonné Diloma Soma², Adama Koné³, Birame Mame Diouf⁴, Sheila Barasa Ogoma⁵, Allison Belemvire⁶, Djenam Jacob⁵, Roch Kounbobr Dabiré¹ ¹Institut de Recherche en Sciences de la Santé, Bobo-Dioulasso, Burkina Faso, ²Institut de Recherche en Sciences de la Santé / UNB, Bobo-Dioulasso, Burkina Faso, ⁹PMI VectorLink Project, Abt Associates, Ouagadougou, Burkina Faso, ⁴US President's Malaria Initiative, US Agency for International Development, Ouagadougou, Burkina Faso, ⁶PMI VectorLink Project, Abt Associates Inc, Rockville, MD, United States, ⁶US President's Malaria Initiative, US Agency for International Development, Washington, DC, United States

5 p.m.

6443

PHENOTYPIC RESISTANCE TO PYRETHROID ASSOCIATED TO METABOLIC MECHANISM IN VGSC-L995F RESISTANT-ANOPHELES GAMBIAE MALARIA MOSQUITOES

France Paraudie A. Kouadio¹, Angele N. Sika², Behi K. Fodjo¹, Christabelle G. Sadia¹, Sébastien K. Oyou³, Allassane F. Ouattara¹, Chouaïbou S. Mouhamadou³ ¹Centre Suisse de Recherches Scientifiques en Côte d¹/voire, Université Nangui Abrogoua, Abidjan, Côte D'Ivoire, ²Université Nangui Abrogoua, Abidjan, Côte D'Ivoire, ³Centre Suisse de Recherches Scientifiques en Côte d¹/voire, Abidjan, Côte D'Ivoire

5:15 p.m.

6444

RNASEQ-BASED GENE EXPRESSION PROFILING OF THE CHLORFENAPYR -RESISTANT ANOPHELES GAMBIAE FROM CAMEROON HIGHLIGHTS DOWN-REGULATION OF MAJOR PYRETHROID RESISTANCE GENES

Tchouakui Magellan¹, Tatiane Assatse¹, Hervé Tazokong¹, Ambrose Oruni², Jonathan Kayondo², Francis Watsenga³, Themba Mzilahowa⁴, Michael Osae⁵, Charles S. Wondji⁶ ¹Centre for Research in Infectious Diseases, Yaoundé, Cameroon, ²Uganda Virus Research Institute (UVRI), Entomology department, P.O.Box 49,, Entebbe, Uganda, ³Institut National de Recherche Biomédicale, P.O Box 1197, Kinshasa, Democratic Republic of the Congo, ⁴Malaria Alert Centre (MAC), Kamuzu University of Health Sciences (KUHeS), Entomology department, P.O Box 265, Blantyre, Malawi, ⁶Radiation Entomology and Pest Management Centre, Ghana Atomic Energy Commission, PO Box LG80, Legon, Ghana, ⁶Department of Vector Biology, Liverpool School of Tropical Medicine, Pembroke Place, L35QA, Liverpool, United Kingdom

5:30 p.m.

6445

INSECTICIDE RESISTANCE AND WHOLE TRANSCRIPTOME PROFILES OF ANOPHELES FUNESTUS POPULATION IN WESTERN KENYA

Isaiah Debrah¹, Daibin Zhong², Linda E. Amoah³, Andrew K. Githeko⁴, Yaw A. Afrane⁵, Guiyun Yan²

¹West African Centre for Cell Biology of Infectious Pathogens (WACCBIP), University of Ghana, Accra, Ghana, ²University of California, Irvine, CA, United States, ³Noguchi Memorial Institute for Medical Research, University of Ghana, Accra, Ghana, ⁴Centre for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya, ⁵Department of Medical Microbiology, University of Ghana Medical School, Accra, Ghana

Symposium 93

Leveraging Mathematical Modelling to Inform Decision Making for Control of Neglected Tropical Diseases Through Collaboration Between National Programs and Academia

Grand Hall K - Ballroom Level (East Tower) Friday, October 20, 4 p.m. - 5:45 p.m. U.S. Central Time Zone

Neglected tropical diseases (NTDs) impact the health, development and livelihood of over one billion people globally. Substantial progress has been made over the last few decades with 42 countries having eliminated at least one NTD since 2010. To accelerate progress and capitalize on these gains, the World Health Organization (WHO) published a roadmap for NTDs with the aim of controlling and eliminating NTDs from endemic countries by 2030. The main method of control for the preventive chemotherapy NTDs is mass drug administration (MDA). Rigorous use of accurate data could identify areas where progress may be slowing and evaluate causes for the continuation of transmission. Projects such as the Expanded Special Project for Elimination (ESPEN) work on the consolidation, access and use of NTD data to inform decision making for programs and identify gaps in intervention efforts (e.g. MDA campaigns) that could be filled to better impact transmission and reach elimination. With increasing data quality and data use comes the opportunity to apply methods such as mathematical modelling. Mathematical modelling has been regularly used to inform decision making for disease programs. For example, in malaria, modelling has frequently been used to evaluate the most impactful combination of interventions that a country could apply to reach prevalence and incidence goals. Or to give predictions on how changing the structure of an intervention may improve impact by expanding to new geographies or age groups. NTD modelling has already been used to evaluate high-level guestions such as the prevalence threshold required to interrupt transmission, and the impact of increasing frequency of MDA rounds. NTD country programs could greatly benefit from these methods and for modelling groups to work with programs to identify areas where modelling could provide evidence for their decision making. The goal of this symposium is to provide insight and ideas into how NTD models can be applied to country settings and be used to inform program decision making. We will hear from the NTD Modelling Consortium on bringing together academic groups to share methods and results as well as being a resource for other institutions that wish to learn about or apply modelling for NTDs. We will then learn about two use cases for NTD modelling at country level. First, in Kenya, where modelling is being used to inform MDA planning and implementation for schistosomiasis. Second, on geospatial modelling for identifying onchocerciasis vector breeding sites in Nigeria. Finally, we will hear about a consortium that aims to bring together modelers and programs in sub-Saharan Africa to share knowledge, build capacity and form partnerships between institutions based in NTD endemic countries.

<u>CHAIR</u>

Julia C. Dunn Clinton Health Access Initiative, Manchester, United Kingdom Thumbi Mwangi Center for Epidemiological Modelling and Analysis, University of Nairobi, Nairobi, Kenya

4 p.m. INTRODUCTION

4:10 p.m.

HARNESSING THE OPPORTUNITIES OF MATHEMATICAL MODELLING TO INFORM AND EVALUATE NTD PROGRAMS Andreia Vasconcelos

NTD Modelling Consortium, Oxford, United Kingdom

4:30 p.m.

EPIDÉMIOLOGICAL MODELS TO SUPPORT PLANNING AND IMPLEMENTATION OF KENYA'S SCHISTOSOMIASIS ELIMINATION PLAN

Mutono Nyamai

Center for Epidemiological Modelling and Analysis, University of Nairobi, Nairobi, Kenya

4:50 p.m.

BLACKFLY HABITAT SUITABILITY MODELING FOR IMPROVED ENTOMOLOGICAL SURVEILLANCE FOR MEETING WHO STOP-MDA REQUIREMENTS IN NIGERIA

Monsuru Adeleke Osun State University, Osogbo, Nigeria

5:10 p.m.

AM2NTD - BUILDING NETWORKS BETWEEN COUNTRIES IN ENDEMIC COUNTRIES TO DESIGN AND APPLY MATHEMATICAL MODELLING STUDIES FOR NTD CONTROL AND ELIMINATION Thumbi Mwangi

Center for Epidemiological Modelling and Analysis, University of Nairobi, Nairobi, Kenya

Scientific Session 94

Bacteriology: Other Bacterial Infections

Grand Hall L - Ballroom Level (East Tower) Friday, October 20, 4 p.m. - 5:45 p.m. U.S. Central Time Zone

<u>CHAIR</u>

Pedro Marcal School of Public Health, Emory University, Atlanta, GA, United States Scott D. Nash The Carter Center, Atlanta, GA, United States

4 p.m.

6446

THE THREE-DIMENSIONAL APPROACHES BY MULTIPLE CORRESPONDENCE ANALYSIS (MCA) CAN DIFFERENTIATE LEPROSY DISEASE STATES AND HOUSEHOLD CONTACTS WITH HIGH ACCURACY

Pedro Marcal¹, Marcio Souza¹, Rafael Gama², Lorena Oliveira², Marcos Pinheiro¹, Thalisson Gomides², Heloine Leite¹, Suely Rodrigues², Marileny Brandao², Leonardo Silva², Roberta Pinheiro³, Jessica Fairley⁴, Lucia Fraga¹

¹Universidade Federal de Juiz de Fora (UFJF-Campus GV/PMBqBM), Governador Valadares, Brazil, ²Universidade Vale do Rio Doce - Univale, Governador Valadares, Brazil, ³Fundacao Oswaldo Cruz - FIOCRUZ/RJ, Rio de Janeiro, Brazil, ⁴Emory University, Atlanta, GA, United States

4:15 p.m.

6447

LEPTOSPIROSIS SEROPREVALENCE AND RISK FACTORS AMONG SLAUGHTERHOUSE WORKERS IN BURKINA FASO

Sylvie Zida¹, Henri Gautier Ouédraogo¹, Tegwinde Rebeca Compaoré¹, Tani Sagna¹, Serge Théophile Soubeiga¹, Bienvenu Banhoro¹, Abdou Azaque Zouré¹, Dinanibè Kambiré¹, Amadou Dicko², Elsio A. Wunder Jr.³, Seni Kouanda¹

¹Institut de Recherche en Sciences de la Santé (IRSS), Ouagadougou, Burkina Faso, ²Centre Muraz, Bobo Dioulasso, Burkina Faso, ³3Department of Epidemiology of Microbial Diseases, Yale School of Public Health, New Haven, CT, United States

4:30 p.m.

6448

LEPTOSPIROSIS OUTBREAK AFTER HURRICANE FIONA, PUERTO RICO, 2022

Forrest Kirby Jones¹, Abigail G. Medina², Kyle R. Ryff², Jessica Irizarry-Ramos³, Joshua M. Wong¹, Eduardo O'Neill³, Ismael A. Rodríguez², Alfonso C. Hernandez-Romieu¹, Maile T. Phillips¹, Michael A. Johansson¹, Tesfaye Bayleyegn¹, Christine Atherstone⁴, Katherine R. Debord⁴, Maria E. Negron⁴, Renee Galloway⁴, Laura E. Adams¹, Melissa Marzan-Rodriguez²

¹CDC Dengue Branch, San Juan, PR, United States, ²Puerto Rico Department of Health, San Juan, PR, United States, ³CDC Office of Island Affairs, San Juan, PR, United States, ⁴CDC Bacterial Special Pathogens Branch, Atlanta, GA, United States

4:45 p.m.

6449

OCULAR CHLAMYDIA TRACHOMATIS INFECTION MONITORING WITHIN DISTRICT-LEVEL TRACHOMA IMPACT AND SURVEILLANCE SURVEYS: RESULTS AND LESSONS LEARNED 2018-2021

Scott D. Nash¹, Ambahun Chernet², Eshetu Sata², Mulat Zerihun², Demelash Gessese², Kimberly A. Jensen¹, Zebene Ayele², Berhanu Melak², Taye Zeru³, Gizachew Yismaw³, Abdulkerim Mengistu⁴, Adisu Abebe⁴, Fikre Seife⁵, Zerihun Tadesse², E. Kelly Callahan¹ ¹The Carter Center, Atlanta, GA, United States, ²The Carter Center, Addis Ababa, Ethiopia, ³Amhara Public Health Institute, Bahir Dar, Ethiopia, ⁴Amhara Regional Health Bureau, Bahir Dar, Ethiopia, ⁵Ministry of Health, Addis Ababa, Ethiopia

5 p.m.

6450

PHOTOGRAPHIC GRADING OF TRACHOMATOUS SCARRING AMONG ADULTS IN TRACHOMA ENDEMIC AMHARA REGION OF ETHIOPIA

Jaymie A. Bromfield¹, Ugochi T. Aguwa², Kimberly A. Jensen¹, Fetene Mihretu³, Eshetu Sata³, Meraf Wolle², E. Kelly Callahan¹, Sheila K. West², Scott D. Nash¹ ¹The Carter Center, Atlanta, GA, United States, ²Dana Center for Preventative Ophthalmology, Wilmer Eye Institute, Johns Hopkins Hospital, Baltimore, MD, United States, ³The Carter Center, Addis Ababa, Ethiopia

5:15 p.m.

6451

IMPACT OF PARTNERS IN SCALING UP THE PREVENTION OF BLINDNESS FROM TRACHOMA IN SOUTH SUDAN

Kenneth Ladu Lino Sube¹, Lubari Loro², Joseph Lako³ ¹College of Medicine, University of Juba, Juba, South Sudan, ²Christian Blind Mission, Juba, South Sudan, ³South University of Medicine, Science and Technology, Juba, South Sudan

5:30 p.m.

6452

AN RNA VACCINE FOR PLAGUE

R. Shattock¹, V. Andrianaivoarimanana², **M. Rajerison**², L. Randriantseheno², K. Moore³, R.V d'Elia³, T.R Laws³, J.L Prior³, E.D Williamson³

¹Dept of Infectious Disease, Imperial College London, United Kingdom, ²Institut Pasteur de Madagascar, Tananarive, Madagascar, ³CBR Division, Dstl Porton Down UK, United Kingdom

Symposium 95

More Than a Guideline: Using the WHO 2030 NTD Road Map to End the Neglect of Soil-Transmitted Helminthiasis

Plaza Ballroom - Lobby Level (East Tower) Friday, October 20, 4 p.m. - 5:45 p.m. U.S. Central Time Zone

The Road Map for Neglected Tropical Diseases (NTDs) for 2021–2030 (the 'Road Map') outlines a plan to address the global burden of these diseases and reach the 2030 targets for control, elimination, and eradication. This symposium will showcase how African and Asian soil-transmitted helminthiasis (STH) control programs have adapted their programs to stimulate progress in achieving the 2030 targets using the three foundational pillars outlined in the Road Map. Each speaker will highlight how their program's successes have mapped to the three pillars: (i) accelerate programmatic action, (ii) intensify cross-cutting approaches, and (iii) change operating models and culture to facilitate country ownership. The first presentation will highlight how Bangladesh's Ministry of Health and Family Welfare has pivoted one of the world's largest STH programs from populationbased deworming to targeted evidence-based deworming among school-aged children. The speaker will discuss the STH situation in Bangladesh and share the findings of communitybased surveys and geostatistical modeling intended to guide programmatic deworming decisions. The second presentation will describe how the national STH program in Malawi monitors the country's changing epidemiology and how this information guides interventions being delivered. The speaker will address the translation of the findings of research studies into practice and the challenges the program faces in implementing the Road Map pillars. Next, the Ugandan Vector Borne & Neglected Tropical Diseases Division speaker will describe the program's challenges in data collection and diagnostics for STH control and the innovative approaches taken to address these challenges. Finally, audience members will hear from the speaker from the African Institute for Health & Development, who will discuss the integration of STH control activities into broader coordination with cultural movements within and around the globe. The final segment of the symposium will feature a panel discussion. Here, the speakers will share their experiences and insights on the successes and challenges of implementing the 2030 Road Map pillars. The discussion will provide a platform for program managers, researchers, and other STH stakeholders to exchange ideas and identify new ways to reach the 2030 targets. The goal of the panel is to encourage south-south dialogue, foster understanding, and promote collaboration among stakeholders in addressing STH.

<u>CHAIR</u>

Kristin M. Sullivan

The Task Force for Global Health, Decatur, GA, United States Khumbo Kalua

Blantyre Institute for Community Outreach, Blantyre, Malawi

4 p.m. INTRODUCTION

4:10 p.m.

EPIDEMIOLOGICAL EVIDENCE TO INFORM PROGRAMMING FOR SOIL-TRANSMITTED HELMINTH INFECTION CONTROL IN BANGLADESH

M.M. Aktaruzzaman Ministry of Health and Family Welfare of Bangladesh, Dhaka, Bangladesh

4:35 p.m.

PUTTING 2030 NTD ROAD MAP PILLARS INTO PRACTICE: EXPERIENCE FROM THE MALAWI SOIL-TRANSMITTED HELMINTHIASIS CONTROL PROGRAM

Khumbo Kalua Blantyre Institute for Community Outreach, Blantyre, Malawi

4:50 p.m.

INNOVATIONS AND INITIATIVES IN THE UGANDAN SOIL-TRANSMITTED HELMINTHIASIS CONTROL PROGRAM SINCE THE ADOPTION OF THE 2030 NTD ROAD MAP

Betty Nabatte Division of Vector Borne and Neglected Tropical Diseases, Kampala, Uganda

5:05 p.m.

ADOPTION OF CULTURALLY SENSITIVE MODELS FOR SOIL-TRANSMITTED HELMINTHIASIS CONTROL AND SUSTAINABLE IMPACTS AT NATIONAL AND SUB-NATIONAL LEVELS Mary Nyamongo

African Institute for Health and Development, Nairobi, Kenya

Symposium 96

CDC Yellow Book Travel Medicine Update

Crystal Ballroom A - Lobby Level (West Tower) Friday, October 20, 4 p.m. - 5:45 p.m. U.S. Central Time Zone

The CDC Yellow Book Health Information for International Travel is published every two years as a resource for health professionals providing care to international travelers. The newly published edition, CDC Yellow Book 2024, compiles the US government's most current travel health guidelines, including pretravel vaccine recommendations, destination-specific health advice, and easy-toreference maps, tables, and charts. This symposium will introduce novel features of the CDC Yellow Book, including new topics and a sleek, more intuitive on-line interface. CDC-based subject matter experts will offer overviews and updates on three of the most common topics addressed by travel medicine providers: travel vaccines, dengue, and malaria. Drawing from the respective CDC Yellow Book chapter, each presenter will provide an overview of common issues and new updates related to each topic.

<u>CHAIR</u>

Eric Halsey CDC, Atlanta, GA, United States Kristina Angelo CDC, Atlanta, GA, United States

4 p.m. INTRODUCTION

4:10 p.m.

YELLOW BOOK 2024 OVERVIEW Eric Halsey CDC, Atlanta, GA, United States

4:30 p.m.

TRAVEL VACCINE REVIEW AND UPDATE Kristina Angelo

CDC, Atlanta, GA, United States

4:55 p.m.

DENGUE REVIEW AND UPDATE

Liliana Sanchez-Gonzalez CDC, San Juan, PR, United States

5:20 p.m.

MALARIA REVIEW AND UPDATE Alison Ridpath CDC, Atlanta, GA, United States

Symposium 97

Wolbachia Based Vector Control for Arboviral Diseases: Next Steps in Rolling out the Intervention at Scale

Regency Ballroom A - Ballroom Level (West Tower) Friday, October 20, 4 p.m. - 5:45 p.m. U.S. Central Time Zone

Arboviral infections such as dengue pose a global public health threat. The incidence has been increasing with half of the world's population at risk, a trend perpetuated by climate change. Communities in low resource settings are particularly affected. To prevent the transmission of arboviral diseases, strategies to control mosquito populations have been deployed. The wMel strain of the intracellular bacterium Wolbachia, endowing a pathogenblocking phenotype, has been introduced in natural populations of *Aedes aegypti*. This method is considered an environmentally friendly approach to control arboviral diseases. The World Mosquito Program's (WMP) Wolbachia method has been assessed by the WHO Vector Control Advisory Group as demonstrating evidence of public health value, and the WMP is applying for WHO pregualification. To reduce the transmission of arboviruses such as dengue and chikungunya in more communities at risk, it is pertinent to scale this arboviral control strategy for widespread roll out. The introgression of wMel into local *Aedes aegypti* populations has been shown to significantly reduce the incidence of dengue in randomized and non-randomized field trials. Challenges to broad implementation include threats to introgression of wMel into the mosquito population, sustained effectiveness, generalizability and affordability of the technology. The symposium will address these challenges by discussing the accumulating evidence and lessons learned from field deployments of wMel-infected Aedes aegypti in 12 countries in Asia-Pacific and Latin America. wMel has been shown to reduce the incidence of both dengue and chikungunya in Brazil. Our speakers will reflect on the effect of the wMel release program in Rio de Janeiro, Brazil, an urban setting. Experiences from this observational study will highlight the challenges to wMel introgression encountered in complex urban communities.

Open questions remain about factors such as heterogeneity of baseline mosquito populations, seasonal fluctuations, local accessibility, circulation of Aedes albopictus, an alternative vector for arboviruses and the approach to egg as compared to adult mosquito release carrying wMel. The symposium will discuss a modelling framework for spatially and temporally targeted interventions in complex transmission dynamics. To further address evidence gaps, our symposium will present the EVITA Dengue trial, a cluster-randomized controlled trial to evaluate the efficacy of wMel-infected *Aedes aegypti* mosquitoes in reducing the incidence of arboviral infection in Brazil. The symposium will address issues of cost-effectiveness as well as communityengagement and point out future directions for widespread roll out of this promising arboviral control strategy.

<u>CHAIR</u>

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

Albert I. Ko Yale School of Public Health, New Haven, CT, United States

4 p.m. INTRODUCTION

4:10 p.m.

UPDATE ON GLOBAL EVIDENCE FOR THE EFFECTIVENESS, SCALABILITY, AND COST-EFFECTIVENESS OF WMP'S WOLBACHIA METHOD

Katie Anders Monash University, Melbourne, Australia

4:30 p.m.

EFFECT OF THE WMEL RELEASE PROGRAM ON THE INCIDENCE OF DENGUE AND CHIKUNGUNYA IN BRAZIL

Henrik Salje University of Cambridge, Cambridge, United Kingdom

4:50 p.m.

EXPERIENCE WITH THE EVITA DENGUE TRIAL IN BRAZIL -EVIDENCE GAPS REMAIN

Luciano A. Moreira Fundação Oswaldo Cruz, Belo Horizonte, Brazil

5:10 p.m.

FUTURE PLANS FOR THE GLOBAL SCALE UP OF THE WMP WOLBACHIA METHOD

Scott O'Neill Monash University, Clayton, Australia

5:30 p.m. MODERATOR, PANEL DISCUSSION

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

Scientific Session 98

Pneumonia, Respiratory Infections and Tuberculosis II

Regency Ballroom B - Ballroom Level (West Tower) Friday, October 20, 4 p.m. - 5:45 p.m. U.S. Central Time Zone

<u>CHAIR</u>

Jasper Chan The University of Hong Kong, Hong Kong, Hong Kong

David Hamer

Center for Emerging Infectious Disease Research and Policy, Boston University School of Public Health, Boston, MA, United States

4 p.m. 6453

A SALIVA-BASED, DNA-EXTRACTION-FREE APPROACH FOR THE MOLECULAR DETECTION OF STREPTOCOCCUS PNEUMONIAE

6454

Tzu-Yi Lin, Chikondi Peno, Maikel Stefano Hislop, Amy Bei, Anne L. Wyllie Yale School of Public Health, New Haven, CT, United States

4:15 p.m.

PNEUMOCOCCAL CARRIAGE IN THE SAHEL REGION OF BURKINA FASO BEFORE A 13 VALENT PNEUMOCOCCAL CONJUGATE VACCINATION CAMPAIGN

Zoma L. Robert¹, Issa Ouedraogo², Lana Childs³, Guetwendé Sawadogo¹, T. Félix Tarbangdo¹, Aristide Zoma⁴, Soufiane Sanou⁴, Brice Bicaba⁵, Simon Sanou⁵, Lesley McGee⁶, Miwako Kobayashi⁶, Jennifer R. Verani⁶, Flavien H. AKE¹, Mahamoudou Ouattara⁶

¹Davycas International, Ouagadougou, Burkina Faso, ²Ministry of health, Ouagadougou, Burkina Faso, ³National Foundation for the Centers for Disease Control and Prevention, Inc., Atlanta, GA,, GA, United States, ⁴Centre Muraz, Bobo-Dioulasso, Burkina Faso, ⁶Centre des Operations de Réponse aux Urgences Sanitaires, Ouagadougou, Burkina Faso, ⁶Centers for Disease Control and Prevention, Atlanta, GA, United States

6455

4:30 p.m.

PNEUMOCOCCAL CARRIAGE AND CHANGES IN SEROTYPE DISTRIBUTION AFTER A SWITCH FROM PCV10 TO PCV13 IN CHILDREN IN A RURAL SITE IN MATIARI, PAKISTAN

Shahira Shahid, Izn Iqbal, Samiah Kanwar, Furqan Kabir, Sheraz Ahmed, Aneeta Hotwani, Sehrish Munir, Muhammad Farrukh Qazi, Fyezah Jehan, Muhammad Imran Nisar

Aga Khan University, Karachi, Pakistan

4:45 p.m.

6456

ANTIBIOTIC USE AMONG ADULT PATIENTS WITH SEVERE ACUTE RESPIRATORY INFECTION IN TERTIARY LEVEL HOSPITALS ACCORDING TO THE WHO AWARE CLASSIFICATION IN BANGLADESH

Fahmida Chowdhury, Md. Ariful Islam, Tanzir Ahmed Shuvo, Md. Kaousar Ahmmed, Probir Kumar Kumar Ghosh, Syeda Mah-E- Muneer Mah-E- Muneer, Md. Zakiul Hassan *icddr,b, Dhaka, Bangladesh*

6457

PREVALENCE OF SOIL-TRANSMITTED HELMINTH CO-INFECTION AMONG PERSONS WITH TB

Pranay Sinha¹, Prakash B. Narasimhan², Madolyn Dauphinais¹, Komal Jain², Subitha L. Lakshminarayanan², Nonika Rajkumari², Madeline Carwile¹, Scott K. Heysell³, Natasha S. Hochberg¹

¹Boston University, Boston, MA, United States, ²Jawaharlal Institute of Postgraduate Medical Education and Research, Puducherry, India, ³University of Virginia, Charlottesville, VA, United States

5:15 p.m.

6458

ASSESSING PROGRESS TOWARDS THE WORLD HEALTH ORGANIZATION TARGET OF ZERO CATASTROPHIC COSTS DUE TO TUBERCULOSIS BY 2035

Paula P. Jimenez¹, Sumona Datta², Luz Quevedo Cruz¹, Matthew J. Saunders¹, Carlton A. Evans¹

¹Innovation For Health and Development, London, United Kingdom, ²Department of Clinical Sciences, Liverpool School of Tropical Medicine, Liverpool, United Kingdom

5:30 p.m.

6459

THE EPIDEMIOLOGICAL SHIFTS OF DRUG-RESISTANT TUBERCULOSIS IN SABAH, EAST MALAYSIA DURING THE COVID-19 PANDEMIC: A 6-YEAR REVIEW OF THE GAINS AND LOSSES FROM 2016 TO 2021

Yao Long Lew¹, Roddy Teo², Amabel Min Hui Seow², Tsin Wen Yeo³, Anne B. Chang¹, Christopher P. Lowbridge¹

¹Menzies School of Health Research, Darwin, Australia, ²Tuberculosis and Leprosy Control Unit, Sabah State Health Department, Kota Kinabalu, Sabah, Malaysia, ³Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore, Singapore

Symposium 99

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

Regency Ballroom C - Ballroom Level (West Tower) Friday, October 20, 4 p.m. - 5:45 p.m. U.S. Central Time Zone

This symposium provides a forum for exchange of information among people interested in research on arthropod vectors of disease. This session features a short ACME business meeting followed by presentation of the 2023 ACME awards. The award ceremony features the ACME Student Travel awards, Future Leaders in International Research awards, Breakthrough in Medical Entomology award, Award of Distinction, and the Hoogstraal Medal, the highest distinction conferred by ACME. The symposium will highlight the next generation of medical entomologists and recognize the early, mid- and late career achievements of individuals in the field of medical entomology. The plenary session will be delivered by the 2023 Hoogstraal Medal recipient and will feature the contributions of the awardee to advancing the field of medical entomology. The symposium will conclude with the passing of the gavel, transfer of office and the ACME professional networking session.

<u>CHAIR</u>

Catherine A. Hill Purdue University, West Lafayette, IN, United States Adriana Troyo

Universidad de Costa Rica, San Jose, Costa Rica

4 p.m. INTRODUCTION

4:10 p.m.

ACME ANNUAL BUSINESS MEETING AND AWARDS Catherine Hill

Purdue University, West Lafayette, IN, United States

4:30 p.m.

ACME AWARDS: FUTURE LEADERS IN INTERNATIONAL RESEARCH, AWARD OF DISTINCTION, STUDENT TRAVEL AWARDS

Catherine Hill

Purdue University, West Lafayette, IN, United States

4:55 p.m.

HARRY HOOGSTRAAL MEDAL PRESENTATION AND PLENARY Jose Ribeiro

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

5:20 p.m. ACME NETWORKING SESSION

Scientific Session 100

Malaria - Epidemiology: Intervention Impact on Infection, Disease and Mortality

Regency Ballroom D - Ballroom Level (West Tower) Friday, October 20, 4 p.m. - 5:45 p.m. U.S. Central Time Zone

<u>CHAIR</u>

Ruth Ashton Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States Hellen Barsosio

Kenya Medical Research Institute, Kisumu, Kenya

4 p.m.

6460

MALARIA IN CAMEROON: A RETROSPECTIVE ANALYSIS

Sophie Diarra¹, Mar Velarde¹, Christian Selinger¹, Branwen Owen¹, Emilie Pothin¹, Jean Fosso², Moise Abomabo²

¹Swiss Tropical and Public Health Institute, Allschwil, Switzerland, ²Ministry of Health Cameroon, Yaoundé, Cameroon

4:15 p.m.

QUANTIFYING THE IMPACT OF MALARIA IN PREGNANCY ON MATERNAL ANEMIA AND ITS ASSOCIATED BURDEN ACROSS AFRICA

Sequoia I. Leuba¹, Robert Verity¹, Julie R. Gutman², Meghna Desai², Kassoum Kayentao³, Simon Kariuki⁴, James Dodd⁶, Daniel Chandramohan⁶, Daniel J. Weiss⁷, Brian Greenwood⁶, Patrick G.T. Walker¹

6461

¹MRC Centre for Global Infectious Disease Analysis, School of Public Health, Imperial College London, London, United Kingdom, ²Malaria Branch, Division of Parasitic Diseases and Malaria, Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States, ³Malaria Research and Training Center, Mali International Center for Excellence in Research, University of Sciences, Techniques, and Technologies of Bamako, Bamako, Mali, ⁴Kenya Medical Research Institute, Centre for Global Health Research, Kisumu, Kenya, ⁵Department of Clinical Sciences, Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ⁶London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁷Malaria Atlas Project, Telethon Kids Institute, Perth Children's Hospital, Nedlands, Australia

4:30 p.m.

6462

A GLOBAL MALARIA CASE-MANAGEMENT MODEL CASCADE WITH AN INTERACTIVE TOOL FOR POINT-OF-CARE CONSUMPTION ANALYSIS

Tasmin L. Symons, Susan Rumisha, Paulina Dzianach, Francesca Sanna, Mauricio Van Den Berg, Sarah Connor, Camilo Vargas, Daniel J. Weiss, Tolu Okitika, Peter W. Gething

Telethon Kids Institute, Perth, Australia

4:45 p.m.

6463

MALARIA AS A RISK FACTOR FOR COVID-19 IN WESTERN KENYA AND BURKINA FASO (MALCOV)

Hellen C. Barsosio¹, Brian Tangara¹, Tegwen Marlais², Jean M. Kabore³, Alfred B. Tiono³, Kephas Otieno¹, Miriam C. Wanjiku¹, Morine Achieng¹, Eric D. Ongango¹, Everlyne D. Ondieki¹, Henry Aura¹, Telesphorus Odawo¹, David J. Allen⁴, Luke Hannan⁵, Kevin Tetteh², Issiaka Soulama³, Alphonse Ouedraogo⁹, Samuel S. Serme³, Ben I. Soulama³, Aissata Barry³, Emilie Badoum³, Julian Matthewman⁶, Helena Brazal-Monzó⁴, Jennifer Canizales⁴, Anna Drabko⁷, William Wu⁷, Simon Kariuki¹, Maia Lesosky⁵, Sodiomon B. Sirima³, Chris Drakeley⁴, Feiko O. ter Kuile⁶

¹Kenya Medical Research Institute, Centre for Global Health Research, Kisumu, Kenya, ²Department of Clinical Research, Faculty of Infectious and Tropical Diseases, London School of Hygiene & Tropical Medicine, London, United Kingdom, ³Groupe de Recherche Action en Santé (GRAS), Ouagadougou, Burkina Faso, ⁴Department of Infection Biology, Faculty of Infectious and Tropical Diseases, London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁵Department of Clinical Sciences, Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ⁶Department of Non-Communicable Diseases Epidemiology, Faculty of Epidemiology and Population Health, London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁷Quantitative Engineering Design (QED.ai), Warsaw, Poland

5 p.m.

6464

PREVALENCE OF MALARIA INFECTION AND COVERAGE OF KEY CONTROL INTERVENTIONS AMONG SEASONAL MIGRANT WORKERS AT FARM SITES AND SURROUNDING RESIDENT POPULATIONS IN NORTHWEST AMHARA REGION, ETHIOPIA

Melkamu Tiruneh¹, Berhane Tesfay¹, Henry Ntuku¹, Adem Agmas¹, Asefaw Getachew¹, Laura Merriman¹, Belay Bezabih², Gudissa Assefa³, Hiwot Solomon⁴, Endalamaw Gadisa⁵, Dereje Dillu¹, Asnakew Yeshiwondim¹, Gezahegn Tesfaye¹, Belendia Serda¹, Caterina Guinovart⁶, Jennifer Smith⁷, Amir Siraj¹, Adam Bennett¹

¹PATH Malaria Control and Elimination Partnership in Africa (MACEPA), Addis Ababa, Ethiopia, ²Amhara National Regional State Health Bureau, Bahir Dar, Ethiopia, ³Ministry of Health, Ethiopia, Addis Ababa, Ethiopia, ⁴Ministry of Health, Addis Ababa, Ethiopia, ⁸Armauer Hansen Research Institute, Addis Ababa, Ethiopia, ⁶PATH Malaria Control and Elimination Partnership in Africa, Barcelona Institute for Global Health, Barcelona, Spain, ⁷Univeresity of California, San Francisco, San Francisco, CA, United States 5:15 p.m.



MALARIA SEROEPIDEMIOLOGY IN VERY LOW TRANSMISSION SETTINGS IN THE PERUVIAN AMAZON

Bryan Fernandez-Camacho¹, Brian Peña-Calero¹, Martina Guillermo-Roman¹, Jorge Ruiz-Cabrejos¹, Jose Luis Barboza¹, Lucia Bartolini-Arana¹, Hugo Rodriguez-Ferrucci², Veronica Soto-Calle³, Luca Nelli⁴, Isabel Byrne⁴, Monica Hill⁴, Elin Dumont⁴, Lynn Grignard⁴, Kevin Tetteh⁴, Lindsey Wu⁴, Alejandro Llanos-Cuentas⁵, Chris Drakeley⁴, Gillian Stresman⁴, Gabriel Carrasco-Escobar¹

¹Health Innovation Laboratory, Universidad Peruana Cayetano Heredia, Lima, Peru, ²Universidad Nacional de la Amazonía Peruana, Iquitos, Peru, ³Dirección de Prevención y Control de Enfermedades Metaxénicas y Zoonosis - Ministerio de Salud, Lima, Peru, ⁴London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁵Institute of Tropical Medicine Alexander von Humboldt, Universidad Peruana Cayetano Heredia, Lima, Peru

5:30 p.m. Lightning Talks

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

6842

UPDATING MALARIA RISK MAP OF KENYA BY PRE-SERVICE DIAGNOSIS OF THE MALARIA ASYMPTOMATIC INDIVIDUALS RECRUITED IN THE KENYA DEFENCE FORCES

Edwin Wachenje Mwakio¹, Charles Ekkuttan², John Lugonza², Juliana Munyao², Gladys Chemwor¹, Jackline Juma¹, Charles Okudo¹, Raphael Okoth¹, Benjamin Opot¹, Philip Njatha¹, Dennis Juma¹, Hoseah M. Akala¹, Kirti Tiwari³, Elly Ojwang³, Timothy Egbo³, Eric Garges³

¹Kenya Medical Research Institute, Kisumu, Kenya, ²Kenya Defence Forces, Eldoret, Kenya, ³United States Army Medical Research Directorate-Africa, Kisumu, Kenya

6860

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

Emily R. Hilton¹, Ndombour Gning-Cisse², Auguste Assi², Mathieu Eyakou², John Koffi², Barthelemy Gnakou², Bernard Kouassi², Cecilia Flatley³, Joseph Chabi³, Constant Guy N'Guessan Gbalegba⁴, Serge Alex Aimain⁴, Colette Yah Kokrasset⁴, Antoine Mea Tanoh⁴, Sylvain Koffi N'Gotta⁴, Francine Octavie Yao⁴, Hugues Assi Egou⁵, Philomène Konan⁵, Kelly Davis⁶, Edi Constant⁷, Allison Belemvire⁸, Patricia Yepassis-Zembrou⁹, Pascal Zinzindohoue¹⁰, Blaise Kouadio¹⁰, Sarah Burnett⁶

¹PMI VectorLink Project, Seattle, WA, United States, ³PMI VectorLink Project, Abt Associates, Abidjan, Côte D'Ivoire, ³PMI VectorLink Project, Abt Associates, Rockville, MD, United States, ⁴Programme National de Lutte Contre le Paludisme, Abidjan, Côte D'Ivoire, ⁵Direction de l'Informatique et de l'Information Sanitaire, Abidjan, Côte D'Ivoire, ⁶PMI VectorLink Project, Washington, DC, United States, ⁷Centre Suisse de Recherches Scientifiques en Côte d'Ivoire, Abidjan, Côte D'Ivoire, ⁴U.S. President's Malaria Initiative, U.S. Agency for International Development, Washington, DC, United States, ⁹U.S. President's Malaria Initiative, Centers for Disease Control and Prevention, Abidjan, Côte D'Ivoire, ¹⁰U.S. President's Malaria Initiative, U.S. Agency for International Development, Abidjan, Côte D'Ivoire

6843

LLIN EVALUATION IN UGANDA PROJECT (LLINEUP2) - ASSOCIATION BETWEEN HOUSING CONSTRUCTION AND MALARIA BURDEN IN UGANDA: RESULTS FROM AN OBSERVATIONAL STUDY OF 32 DISTRICTS

Martha J. Nassali¹, Samuel Gonahasa¹, Catherine Maiteki-Sebuguzi², Jane F. Namuganga¹, Jimmy Opigo², Daniel Kyabayinze³, Isaiah Nabende¹, Jaffer Okiring¹, Emmanuel Arinaitwe¹, Adrienne Epstein⁴, Katherine Snyman⁵, Joaniter Nankabirwa¹, Grant Dorsey⁶, Moses R. Kamya⁷, Sarah Staedke⁴

¹Infectious Diseases Research Collaboration, Kampala, Uganda, ²National Malaria Control Division, Ministry of Health, Kampala, Uganda, ³Directorate of Public Health, Ministry of Health, Kampala, Uganda, ⁴Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ⁵London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁶Department of Medicine, University of California, San Francisco, San Francisco, CA, United States, ⁷Department of Medicine, Makerere University, Kampala, Uganda

6839

HIGH COMMUNITY HEALTH WORKER USAGE WITH APPROPRIATE MALARIA MANAGEMENT IN A MODERATE *PLASMODIUM FALCIPARUM* BURDEN REGION OF CHADIZA DISTRICT, ZAMBIA, APRIL-MAY, 2021

Erika Wallender¹, Bupe M. Kabamba², Marie-Reine I. Rutagwera³, Chabu Kangale², Travis Porter⁴, Maximillian Musunse², Sarah Gallalee⁵, Adam Bennett⁴, Paul Psychas⁶, Julie Gutman¹, Busiku Hamainza⁷, Julie Thwing¹

¹U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States, ²PATH PAMO Plus, Lusaka, Zambia, ³PATH PAMO Plus, Atlanta, Zambia, ⁴PATH MACEPA, Seattle, WA, United States, ⁵University of California, San Francisco, San Francisco, CA, United States, ⁶U.S. President's Malaria Initiative, CDC, Lusaka, Zambia, ⁷Zambia Ministry of Health, National Malaria Elimination Center, Lusaka, Zambia

6838

HIGH BURDEN OF ASYMPTOMATIC MALARIA AND ANAEMIA DESPITE HIGH ADHERENCE TO MALARIA CONTROL MEASURES: A CROSS-SECTIONAL STUDY AMONG PREGNANT WOMEN ACROSS TWO SEASONS IN A MALARIA-ENDEMIC SETTING IN GHANA

Nsoh Godwin Anabire¹, Belinda Aculley², Abigail Pobee², Eric Kyei-Baafour², Gordon Awandare³, Maria del Pilar Quintana⁴, Lars Hviid⁴, Michael Ofori² ¹Department of Biochemistry and Molecular Medicine, School of Medicine, University for Development Studies, Tamale, Ghana, ²Department of Immunology, Noguchi Memorial Institute for Medical Research, University of Ghana, Accra, Ghana, ³West African Centre for Cell Biology of Infectious Pathogens; Department of Biochemistry, Cell and Molecular Biology, University of Ghana, Accra, Ghana, ⁴Centre for Medical Parasitology, Department of Immunology and Microbiology, Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Denmark

Break

Friday, October 20, 5:45 p.m. - 6:15 p.m. U.S. Central Time Zone

Special Session 101

Speed-Networking with the Experts

Crystal Ballroom B - Lobby Level (West Tower) Friday, October 20, 6:15 p.m. - 8 p.m. U.S. Central Time Zone

The annual Speed-Networking session is organized by the Trainee Membership Committee and the five ASTMH subgroups: ASTMH Committee on Global Health (ACGH), the American Committee on Clinical Tropical Medicine and Travelers' Health (ACCTMTH/ Clinical Group), the American Committee of Medical Entomology (ACME), the American Committee on Arthropod-Borne Viruses (ACAV) and the American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP). The session is designed

to facilitate interactions between senior scientists, physicians and trainees in an informal setting in order to provide an array of important information on possible career paths in tropical medicine. During this session, students and young career scientists will have an opportunity to briefly meet experts who represent each of the subgroup fields, including scientists in global health, clinicians, epidemiologists, entomologists and basic research scientists. Experts will have a broad range of career experiences working in international posts, policy, federal government, and the military, among others. Experts will share information with students about their career choices, trajectories, challenges along the way, and how they see their work fitting into the larger tropical medicine arena. Students in this session will be designated to a subgroup to match their interests and current educational paths. Please note that this meeting is limited to those who pre-registered for the event.

<u>CHAIR</u>

Bartholomew Ondigo Egerton University, Nakuru, Kenya Hannah Steinberg University of Illinois Chicago, Chicago, IL, United States Laia Vazquez Guillamet ISGlobal, Barcelona, Spain

Sponsored Symposium

The Role of Antivirals for Prevention and Treatment of Dengue

Grand Hall J - Ballroom Level (East Tower) Friday, October 20, 6:15 p.m. – 8 p.m. United States Central Time Zone

Sponsored by Johnson & Johnson

See page 55 for information. This session does not carry ASTMH CME credit.

Sponsored Symposium

PfHRP2/3 Deletion: A Call to Action

Crystal Ballroom A - Lobby Level (West Tower) Friday, October 20, 6:15 p.m. – 8 p.m. United States Central Time Zone

Sponsored by Abbott

See page 56 for information. This session does not carry ASTMH CME credit.