

WORLD MALARIA DAY Symposium

Malaria in Africa: Translating Science into Practice

APRIL 25, 2022 • 7:00-16:30 EDT • 13:00-22:30 CAT



WORLD MALARIA DAY, April 25, 2022

MALARIA IN AFRICA: TRANSLATING SCIENCE INTO PRACTICE **Johns Hopkins Malaria Research Institute**

- 7:00 – 7:05 am Welcome – Ellen MacKenzie Dean, Johns Hopkins Bloomberg School of Public Health
7:05 – 7:10 am Welcome – Peter Agre, Director, Johns Hopkins Malaria Research Institute
7:10 – 7:30 am Introduction – Malla Rao, Program Officer, NIAID, International Centers of Excellence for Malaria Research

Session 1 – Moderator William Moss

Keynote Address 1

- 7:30 – 8:00 am **Matshidiso Moeti** **Regional Director for Africa, World Health Organization**
“Science, Research and Precision Disease Control with Malaria as Entry Point”
- 8:00 – 9:00 am **Don Mathanga** **ICEMR Program Director, University of Malawi**
“The Intransigence of Malaria in Malawi: Understanding Hidden Reservoirs, Successful Vectors and Prevention Failures”
Don Mathanga Professor, Kamuzu University of Health Sciences, Malawi
Charles Mangani Senior Lecturer, Kamuzu University of Health Sciences, Malawi
Lauren Cohee Assistant Professor, University of Maryland School of Medicine
Karl Seydel Associate Professor, Michigan State University
Themba Mzilahowa Senior Entomologist, Kamuzu University of Health Sciences
- 9:00 – 10:00 am **William Moss** **ICEMR Program Director, Johns Hopkins University**
“Malaria Transmission and the Impact of Control Efforts in Southern and Central Africa”
William Moss Professor, Johns Hopkins University
Japhet Matoba Project Coordinator, Macha Research Trust
Mike Chaponda Senior Medical Scientific Officer, Tropical Diseases Research Centre
Sungano Mharakurwa Director, Africa University Malaria Institute
Monicah Mburu Senior Entomologist, Macha Research Trust

Session 2 – Moderator Amy Wesolowski

Keynote Address 2

- 10:00 – 10:30 am **Sheila Tlou** **Special Ambassador, African Leaders Malaria Alliance (ALMA)**
“ALMAs 4-point agenda in the fight against malaria: linking policy, accountability and action to science”



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| 10:30 – 11:30 am | Grant Dorsey Jane Frances Namuganga Joaniter Nankabirwa Samuel Gonahasa John Rek Victor Asua | ICEMR Program Director, University of California, San Francisco “Program for Resistance, Immunology, Surveillance & Modeling of Malaria in Uganda (PRISM) Project Coordinator, Infectious Diseases Research Collaboration (IDRC) Investigator/Lecturer, Infectious Diseases Research Collaboration (IDRC) Makere University College of Health Sciences Project Coordinator, Infectious Diseases Research Collaboration (IDRC) Project Coordinator, Infectious Diseases Research Collaboration (IDRC) Molecular Biologist, Infectious Diseases Research Collaboration (IDRC) |
| 11:30 – 12:00 pm | | Break |
| Session 3 – Moderator Matt Ippolito <u>Keynote Address 3</u> | | |
| 12:00 – 12:30 pm | Rick Steketee | Deputy U.S. Global Malaria Coordinator, U.S. President's Malaria Initiative “Malaria Science and program: challenging topics of Climate and Localization” |
| 12:30 – 1:30 pm | Guiyun Yan Guiyun Yan Hallelujah Getachew Harrysone Atieli John Githure | ICEMR Program Director, University of California, Irvine “Environmental Modifications in Sub-Saharan Africa: Changing Epidemiology, Transmission and pathogenesis of <i>Plasmodium Falciparum</i> and <i>P. vivax</i> Malaria” Professor, Program in Public Health, Univ of California-Irvine, USA PhD student, Jimma University, Ethiopia Project Coordinator, ICEMR/Lecturer, Maseno University, Kenya Principal Scientist, UCI-TMRC Joint Laboratory, Homa Bay, Kenya |
| 1:30 – 2:30 pm | Seydou Doumbia Seydou Doumbia Nafomon Sogoba Mahamoudou Touré | ICEMR Program Director, University of Bamako, Mali “Multidisciplinary Research for Malaria Control and Prevention in West Africa” Program Director, UCRC, University of Sciences, Techniques and Technology of Bamako (USTTB) Project Leader, Malaria Research and Training Center (MRTC), University of Science Project Leader, MRTC/USTTB |
| 2:30 – 3:30 pm | | Virtual Lightning Talks Session Join Zoom https://jh.zoom.us/j/98179918851 Meeting ID: 981 7991 8851 passcode will be announced during symposium |

All times are in Eastern Daylight Time (EDT)

Friday, 22 April 2022

LIGHTNING TALKS | 25 April 2022 | 2:30-3:30 P.M. EDT | Breakout Rooms<https://jh.zoom.us/j/98179918851>*Passcode will be shared during the Symposium*

| Malaria Epidemiology I | | Moderated by Anne Martin |
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| PRESENTER / ORDER | INSTITUTION | PRESENTATION TITLE |
| Abdul-Razak Issah | Fountain of Blessings for Nations (FOBNA), Ghana | Assessing community members level of knowledge about malaria and its preventive measures in the Bolgatanga Mun |
| David Musoke | Makerere University School of Public Health, Uganda | Integrated malaria prevention in low- and middle-income countries: a systematic review |
| Benjamin Rice | Princeton University, USA | Spatio-temporal variation within a high malaria prevalence district: the Mananjary Cohort Study in southeastern Mad |
| Susan Rumisha | National Institute for Medical Research, Tanzania | Malaria as common denominator in hospital mortality of HIV/AIDS and tuberculosis patients |
| Tobias Holden | Northwestern University, USA | Recalibration of a mathematical model of malaria transmission with parasite and infectivity data from Burkina Faso |
| Olapeju Bolanle | Johns Hopkins Bloomberg School of Public Health, USA | Psychosocial factors influencing prompt care-seeking in Malawi |
| Michelle Evans | Institute of Research for Development, France | Correcting for case under-ascertainment in malaria passive surveillance with floating catchment area benchmarks |
| Sarah Hill | Johns Hopkins University School of Medicine, USA | Association between malnutrition, gametocytemia, and malaria recurrence in Zambian children with uncomplicated fi |
| Renad Jadkarim | Umm Al-Qura University School of Medicine, KSA | A quasi-experimental evaluation of a large health systems strengthening project on intermittent preventive treatment |
| Renad Jadkarim | Umm Al-Qura University School of Medicine, KSA | Determinants of malaria infection among children under five in the Democratic Republic of the Congo |

| Malaria Epidemiology II | | Moderated by Jessica Schue |
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| PRESENTER / ORDER | INSTITUTION | PRESENTATION TITLE |
| Tamaki Kobayashi | Johns Hopkins Bloomberg School of Public Health, USA | Malaria seroepidemiology in an area of declining transmission intensity |
| Collen Saudu | Johns Hopkins University, USA | Effectiveness of prevention and control methods applied towards achieving elimination of malaria in Botswana |
| Tassew Tefera Shenkutie | Debre Berhan University, Ethiopia | Prevalence of G6PD deficiency and distribution of its genetic variants among malaria-suspected patients visiting Mete |
| Margaux Sadoine | Université de Montréal, Canada | Differential impact of environment on malaria due to control interventions in Uganda, 2010–2018 |
| Chilochibi Chiziba | Northwestern University, USA | Having a parent working in agriculture is associated with testing positive for malaria among children living in urban Ni |
| Kallista Chan | London School of Hygiene and Tropical Medicine, UK | Rice and malaria in Africa: a growing problem |
| Gabrielle Robbins | MIT, USA | Pandemic impacts on malaria treatment in highland Madagascar |
| Albert Casella | Johns Hopkins Center for Communication Programs, USA | Understanding psychosocial determinants of malaria behaviors in low-transmission settings: a systematic review |

| Vectors and Vector Control Moderated by Diego Giraldo | | |
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| PRESENTER / ORDER | INSTITUTION | PRESENTATION TITLE |
| Mahdiyeh Bigham | Johns Hopkins Bloomberg School of Public Health, USA | Developing field-deployable RT-PCR tool for mosquito insecticide resistance surveillance |
| Erin Barnett | Johns Hopkins Bloomberg School of Public Health, USA | Vector bionomics and diversity in unique transmission settings in Zambia |
| Tokponnon Filémon | CBRSI-CREC/MS, Benin | Evaluation of circulating plasmodial species in <i>Anopheles</i> and humans in the central arrondissement of Abomey-calavi |
| Rebecca Rosenberg | Johns Hopkins University Whiting School of Engineering, USA | VectorCAM: a low cost hand held tool for automated, rapid morphological identification of mosquito species |
| Hannah Markle | Johns Hopkins Bloomberg School of Public Health, USA | Understanding the complexities of foraging anophelines collected during early evening versus overnight indoor settings |
| Joseph Wagman | PATH, USA | The effectiveness of dual-AI ITNs distributed at scale: evidence from the New Nets Project pilots |
| Paprika Berry | Johns Hopkins Bloomberg School of Public Health, USA | Entomological risk and resistance profiles of anophelines in Nchelenge District, Zambia 2021 |
| Fiona Kinya | International Centre of Insect Physiology and Ecology, Kenya | <i>Anopheles longipalpis</i> C: An emerging malaria vector in dryland ecosystems of Kenya |
| Jewell Brey | Vectech, USA | IDX: a device for automated identification, counting, and digitization of mosquitoes to expand vector surveillance capabilities |
| Faith Chemutai | IDRC, Uganda | Susceptibility of <i>Anopheles</i> mosquitoes to insecticides used in Busia and Tororo Districts, eastern Uganda |
| Victoria Kamilar | Johns Hopkins Bloomberg School of Public Health, USA | Entomological risk factors associated with low-level malaria transmission in a pre-elimination zone in southern Zambia |
| Ryan Carney | University of South Florida, USA | Developing and deploying artificial intelligence techniques for the citizen science surveillance of <i>Anopheles stephensi</i> |

| Laboratory Investigations Moderated by Adriano Franco | | |
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| PRESENTER / ORDER | INSTITUTION | PRESENTATION TITLE |
| Ashleigh van Heerden | University of Pretoria, South Africa | Applying machine learning on chemo-transcriptomic profiles to stratify antimalarial compounds with similar mode of action |
| Deepti Shrivastava | CSIR-CDRI, India | Mitochondrial multidrug resistant transporter (MDR6) and its interaction with the ISC pathway in <i>Plasmodium falciparum</i> |
| Kieran Tebben | University of Maryland, USA | Gene expression deconvolution enables the study of parasite gene expression from patient samples |
| Kutub Ashraf | Sorbonne Universite CIMI, France | Artemisinin-independent inhibitory activity of <i>Artemisia sp.</i> infusions against different <i>Plasmodium</i> stages |
| Ritu Gill | Maharshi Dayanand University, India | Collation of genomic and molecular analysis of <i>Plasmodium falciparum</i> Zuo1in related factor-1 |
| Karli Redinger | Case Western Reserve University, USA | Development of novel antibodies against <i>Plasmodium vivax</i> invasion receptors |
| David Otieno | KEMRI / Centre for Global Health Research, Kenya | Field evaluation of breath biomarkers for malaria diagnosis |
| Victor Cardoso-Jaime | Johns Hopkins Bloomberg School of Public Health, USA | Hemocyte participation in the modulation of <i>Plasmodium falciparum</i> infection |
| Sharon Patray | Johns Hopkins Bloomberg School of Public Health, USA | Investigation into trafficking of circumsporozoite protein in <i>Plasmodium</i> sporozoites |