

World Malaria Day, April 25th, 2024
OMICS: Malaria on the Move, Sommer Hall
Organizers: Jane Carlton, Joana Silva, and Ambroise Wonkam

08:00 am **Registration and light breakfast**
08:50 am **Welcome address Dr. Jane Carlton & Dean Ellen MacKenzie**

Session 1: *Plasmodium* parasite

09:00 am – 09:30 am **Dr. Bjorn Kafsack** (Weill Cornell Medicine, New York, USA)
 "Multi-omic strategies for identifying targets of potent inhibitors."
09:30 am – 10:00 am **Dr. Shannon Takala-Harrison** (University of Maryland School of Medicine, Baltimore, USA)
 "Use of identity-by-descent-based approaches for inference of malaria parasite population
 demography: practical considerations"
10:00 am – 10:30 am **Dr. Krishanpal Karmodiya** (Indian Institute of Science Education and Research, Pune, India)
 "Genomic and Transcriptomic Profiling of *P. falciparum*: Insights into Variations, Heterogeneity,
 and Stress Responses in Artemisinin Tolerance"
10:30 am – 11:00 am **Keynote Speaker: Dr. Karine Le Roch** (University of California, Riverside, USA)
 "A Systems Biology Approach to Understand Gene Regulation in Apicomplexan Parasites - from
 Chromatin Structure to RNA Binding Proteins"
11:00 am – 11:30 am **Coffee Break – Feinstone Hall**

Session 2: *Anopheles* mosquito

11:30 am – 12:00 pm **Dr. Nsa Dada** (Arizona State University, Phoenix, USA)
 "The mosquito microbiome: An oft-neglected component of mosquito biology"
12:00 am – 12:30 pm **Dr. Michelle Riehle** (Medical College of Wisconsin, Milwaukee, USA)
 "Unraveling Malaria Susceptibility: the Interplay of Mosquitoes, Candidate Genes and the Non-
 Coding Genome"
12:30 pm – 01:00 pm **Dr. Brandy St. Laurent** (Cornell University/Wellcome Sanger Institute, Ithaca, USA)
 "Diverse and diverging malaria vectors in Southeast Asia"
01:00 pm – 02:00 pm **Lunch, Posters & vendor tables (Illumina and Oxford Nanopore Technologies) – Feinstone Hall**

Session 3: Human host

02:00 pm – 02:30 pm **Dr. Amy Wesolowski** (Johns Hopkins Malaria Research Institute, Baltimore, USA)
 "Integrating human mobility and molecular surveillance to help control and eliminate malaria"
02:30 pm – 04:00 pm **Panel: Malaria in Travelers and Locally Acquired.** Moderator Dr. Jane Carlton (JHMRI);
 Panelists: Susan Antenucci (New York State DOH), Robert Myers & David Blythe (Maryland
 DOH), Joana Silva (University of Maryland SOM), Abhai Tripathi & Doug Norris (JHMRI)
04:00 pm – 04:30 pm **Coffee Break – Feinstone Hall**
04:30 pm – 05:00 pm **Dr. Youssef Idaghdour** (New York University, Abu Dhabi, UAE)
 "Multi-omics profiling reveals host-parasite dynamics in *falciparum* malaria"
05:00 pm – 05:30 pm **Keynote Speaker: Dr. Ambroise Wonkam** (Johns Hopkins School of Medicine, Baltimore, USA)
 "Genomics of Sickle Cell Disease: A Malaria Legacy"
05:30 pm – 06:30 pm **Reception and Posters – Feinstone Hall**