

PROGRAM

07:45 am **Registration** | UMB SMC Center Concourse and Poster Setup (Elm B)
08:00 am **Refreshments**
08:25 am **Zoom Webinar** opens
08:30 am – 08:40 am **Welcome Address** | **Jane Carlton**, Director, Johns Hopkins Malaria Research Institute, and **Miriam Laufer**, Malaria Research Program Director, University of Maryland School of Medicine (Elm A)

SESSION 1 **ELM A** | **Moderator: Tamaki Kobayashi**, (Johns Hopkins Bloomberg School of Public Health)

08:45 am – 09:30 am **Opening Keynote: Brandon Wilder** (Oregon Health Science University)
"Using humanized mice and non-human primates to probe the complexity of malaria infection and immunity"
09:30 am – 09:45 am **Sean Yanik** (Johns Hopkins School of Medicine)
"Structure Guided Engineering of a *Plasmodium falciparum* Apical Membrane Antigen 1 (AMA1)-Targeting Malaria Vaccine"
09:45 am – 10:00 am **Griffin Bell** (Johns Hopkins Bloomberg School of Public Health)
"Impacts of Ecology on RTS,S Malaria Vaccine Efficacy"
10:00 am – 10:15 am **Bickey Chang** (National Institute of Allergy and Infectious Diseases, NIH)
"Safety and Efficacy of a Second Dose of L9LS, a Human Monoclonal Antibody Against *Plasmodium falciparum* in a Randomized, Double-Blind Trial of Children in Mali"
10:15 am – 10:30 am **Break** | **Concourse**

SESSION 2 **ELM A** | **Moderator: Alexander Laurenson** (University of Maryland School of Medicine)

10:30 am – 10:45 am **Francesca Florini** (Weill Cornell Medicine)
"A master of disguise: a novel mechanism for *Plasmodium falciparum* avoidance of the human immune system"
10:45 am – 11:00 am **Laurette Mhlanga** (Loyola University, Chicago)
"Identification and mapping of high-risk urban settlements for malaria control using AI and building morphological metrics"
11:00 am – 11:15 am **Janne Gruenebast** (University of Maryland School of Medicine)
"Examining the role of ribosomal RNAs in regulating translational repression in *P. falciparum* gametocytes"

CAREER PANEL **ELM A** | **Moderator: Jonathan Lawton** (University of Maryland School of Medicine)

11:15 am – 12:00 pm **PANEL**
Andrea Buchwald, PhD, Assistant Professor, University of Maryland School of Medicine
Matthew Ippolito, MD, PhD, Assistant Professor, Johns Hopkins University School of Medicine/Johns Hopkins Bloomberg School of Public Health
Laura Norris, PhD, Senior Program Officer, Bill & Melinda Gates Foundation
Meera Venkatesan, PhD, USAID Agency Lead for President Malaria Initiative

12:00 pm – 01:00 pm **Lunch** | **Elm A/Concourse**

LIGHTNING TALKS **Live Streamed | Elm A and Room 349**

01:00 pm – 01:45 pm Zoom

SESSION 3 **ELM A | Moderator: Mary Kefi (Johns Hopkins Bloomberg School of Public Health)**

01:45 pm – 02:30 pm **Afternoon Keynote: Tamar Carter** (Baylor University)

"Genomic investigation into invasive *Anopheles stephensi*, Plasmodium interactions, and epidemiological outcomes"

02:30 pm – 02:45 pm **Ilinca Ciubotariu/Brad Broyles** (Purdue University)

"Diversity and selection analyses identify transmission-blocking antigens as the optimal vaccine candidates in *Plasmodium falciparum*"

02:45 pm – 03:00 pm **Victor Cardoso-Jaime** (Johns Hopkins Bloomberg School of Public Health)

"Revealing functions of hemocytes affecting *Plasmodium falciparum* infection in *Anopheles gambiae*"

03:00 pm – 03:15 pm **Emma Camacho** (Johns Hopkins Bloomberg School of Public Health)

"Dietary L-3,4-dihydroxyphenylalanine (L-DOPA) augmented *Anopheles* mosquito cuticular melanization while reducing their lifespan and malaria parasite burden"

03:15 pm – 03:30 pm **Closing remarks | Mark Travassos** (University of Maryland School of Medicine) and **David Sullivan** (Johns Hopkins Bloomberg School of Public Health)

POSTER SESSION **ELM B/Concourse**

03:30 pm – 05:00 pm **In-person Poster Session and Reception**

PROGRAM LEADERSHIP AND ORGANIZERS

We extend our gratitude to the esteemed advisors, organizers, and contributors whose expertise and commitment have been instrumental in the success of this symposium.

ADVISORS

Dr. Jane Carlton (BSPH) | **Dr. David Sullivan** (BSPH)

Dr. Miriam Laufer (University of Maryland SOM) | **Dr. Mark Travassos** (University of Maryland SOM)

ORGANIZERS

Jonathan Lawton (University of Maryland SOM), Alexander Laurenson (University of Maryland SOM),
Mary Kefi, PhD (BSPH), Tamaki Kobayashi, PhD, MPH (BSPH)

In Memory of Genevieve Williams

1978 – 2024

Genevieve Williams, JHMRI Program Manager, shepherded the Future of Malaria Research symposium from its inception, steadfastly committed to supporting young researchers in their education, professional development, and scientific journeys.

She served the Johns Hopkins Malaria Research Institute with professionalism and dedication for fifteen years.

We are grateful for her many contributions, and she is deeply missed.