

# Future of Malaria Research Symposium

Organizers: Emily Stucke, Stephanie Rankin-Turner, Emma Rowley, Rubayet Elahi

Advisors: Miriam Laufer and David Sullivan

Friday, October 13, 2023



## PROGRAM

07:45 am	<b>Registration</b>   Monument Street Entrance BSPH; <b>Coffee</b> (Gallery/Wall of Wonder)
08:30 am	<b>Welcome Address</b>   <b>Jane Carlton</b> , Johns Hopkins Malaria Research Institute Director, and <b>Miriam Laufer</b> , Malaria Research Program Director, University of Maryland School of Medicine   Sheldon Hall (w1214)
08:40 am	<b>Symposium Overview</b>   <b>Rubayet Elahi</b> , Johns Hopkins Bloomberg School of Public Health   Sheldon Hall (w1214)
<b>SESSION 1</b> Moderator: <b>Rubayet Elahi</b> , Johns Hopkins Bloomberg School of Public Health (w1214)	
08:45 am – 09:30 am	<b>Opening Keynote: Dibyadyuti Datta</b> , Indiana University School of Medicine “Brain injury and blood-brain-barrier dysfunction in pediatric severe malaria”
09:30 am – 09:45 am	<b>Benjamin Rice</b> , Princeton University “Hitting hotspots: Probing mass treatment approaches to reducing malaria transmission using Madagascar as a case study”
09:45 am – 10:00 am	<b>Mary Gebhardt</b> , Johns Hopkins Bloomberg School of Public Health “Exploring the spatial and temporal overlap in human and vector behavior in Nchelenge District, Zambia”
10:00 am – 10:15 am	<b>Anne Martin</b> , Johns Hopkins Bloomberg School of Public Health “Malaria case and focus investigation in a pre-elimination context in southern Zambia: a pilot project to assess impact and implementation outcomes”
10:15 am – 10:45 am	<b>Coffee Break</b> (Gallery/Wall of Wonder); Poster presenters set-up in Feinstone Hall (e2030)
<b>SESSION 2</b> Moderator: <b>Emma Rowley</b> , University of Maryland School of Medicine (w1214)	
10:45 am – 11:00 am	<b>Maria Nikulkova</b> , New York University “Understanding host-pathogen interactions of <i>Plasmodium vivax</i> from Ethiopia using integrative multi-omics”
11:00 am – 11:15 am	<b>David Anaguano</b> , University of Georgia “ <i>Plasmodium falciparum</i> requires two rhoptries to invade host red blood cells”
11:15 am – 11:30 am	<b>Bing Guo</b> , University of Maryland School of Medicine “Benchmarking Identity-By-Descent Callers for <i>Plasmodium falciparum</i> ”
<b>LIGHTNING TALKS</b> Zoom: Live streamed	
11:40 am – 12:15 pm	<b>Session A   Molecular approaches against malaria</b>   Live streamed in Sheldon Hall (w1214) Moderator: <b>Emily Stucke</b> , University of Maryland School of Medicine
	<b>Session B   Vectors and epidemiology</b>   Live streamed in Anna Baetjer room (w1030) Moderator: <b>Stephanie Rankin-Turner</b> , Johns Hopkins Bloomberg School of Public Health
12:15 pm – 01:00 pm	<b>Lunch</b>   <b>Feinstone Hall (e2030)</b> ; Poster presenters set-up in Feinstone Hall (e2030)



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### **SESSION 3**

**Moderator:** **Emily Stucke**, University of Maryland School of Medicine (w1214)

01:00 pm – 01:45 pm

**Afternoon Keynote: Filipa Rijo-Ferreira**, University of California, Berkeley

“Circadian rhythms in hosts, malaria parasites and their vectors”

01:45 pm – 02:00 pm

**Kieran Tebben**, University of Maryland School of Medicine

“Gene expression analyses reveal the mode of action of artesunate on *P. vivax* parasites”

02:00 pm – 02:15 pm

**Jakob Rupar**, Hesperos, Inc.

“Implementation of a human cell-based Malaria-on-a-Chip phenotypic disease model for drug efficacy evaluation”

02:15 pm – 02:30 pm

**Steven Tan**, Walter Reed Army Institute of Research

“Immune responses in mice immunized with *Plasmodium falciparum* mRNA liver stage antigens: antibody, CD4 Tfh, CD8 TRM and CD8 TEM cells”

02:30 pm – 02:40 pm

**Closing remarks | David Sullivan**, Johns Hopkins Bloomberg School of Public Health (w1214)

### **POSTER SESSION**

02:45 pm – 04:30 pm

**In-person Poster Session and Reception | Feinstone Hall (e2030)**



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