

IV Florida Malaria Consortium Meeting

March 12th, 2021

VM4



Burnett School of
Biomedical Sciences

UNIVERSITY OF CENTRAL FLORIDA

Link: <https://ucfmed.zoom.us/j/9683677545>

09:00 AM Opening Remarks - Debopam Chakrabarti, UCF

Session 1: Parasite Biology & Transmission

CHAIR: RHOEL DINGLASAN

1. 09:05 AM Unique GCN5 Complex in *Plasmodium falciparum* - **JUN MIAO**, USF
2. 09:30 AM Translational Regulation during Malaria Parasite Development - **LIWANG CUI**, USF
3. 09:55 AM A Double-edged Sword of the Role of Heme in Malaria Infection - **RAYS JIANG**, USF
4. 10:20 AM Insights into the Cellular Organization of *Plasmodium* Gametocyte using Transmission Electron Microscopy - **PRADEEP SUBRAMANI**, USF
5. 10:35 AM High-throughput Phenotypic Screen Unravels *Plasmodium falciparum* genes essential to Malaria Transmission – **JYOTSNA CHAWLA**, USF

BREAK

6. 10:50 AM Malaria Parasite Modulates Mosquito Metabolic Pathways to Promote its Sporogonic Development - **VINCENT NYASEMBE**, UF
7. 11:05 AM Interaction between *Plasmodium*-Anopheles Midguts for Malaria Transmission- **JUN LI**, FIU
8. 11:30 AM Chemosensory-Dependent Social Behavior in Female Mosquitoes- **ANDRE DA SILVA**, FIU

LUNCH

Session 2: Drug Resistance and Discovery

CHAIR: LIWANG CUI

1. 12:30 PM The Apicoplast Link to Fever-Survival and Artemisinin-Resistance in the Malaria Parasite- **JOHN ADAMS**, USF
2. 12:55 PM Artemisinin-related Parallel Phenotyping Screens of *Plasmodium falciparum* Piggybac Mutants - **CAMILLA PIRES**, USF
3. 1:10 PM Characterization of Genes in *Plasmodium falciparum* Mutants Associated with Altered Sensitivity to Artemisinin- **CAROLINE SIMMONS**, USF
4. 1:20 PM Role of *Plasmodium falciparum* Kelch 13 Protein Mutations in *P. falciparum* Populations from Northeastern Myanmar in Mediating Artemisinin Resistance - **FAIZA SIDDIQUI**, USF
5. 1:35 PM Antimalarial Efficacy of 6-Chloro-2-Arylvinylquinolines - **CLARIBEL MURILLO-SOLANO**, UCF
6. 1:50 PM Leveraging Peptaibol Biosynthetic Promiscuity for Next-Generation Antiplasmodials - **JENNIFER COLLINS**, UCF
7. 2:05 PM Exploration of Type II Protein Kinase Inhibitors as Antimalarials - **MONICA BOHMER**, UCF
8. 2:20 PM DFDT (p-p'-difluoro-DDT) as an antimalarial mosquitocide - **EDMUND NORRIS**, USDA

BREAK

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Session 3: Immune Response, Pathogenesis & Diagnostics

CHAIR: JOHN ADAMS

1. 2:50 PM Defining the Role of the Heme-regulated BACH-1 Transcription Factor in Safeguarding Inflammation Dynamics - **LASZLO NAGY**, Johns Hopkins All Children's Hospital
2. 3:15 PM Immunofocusing Humoral Immunity Potentiates the Functional Efficacy of the AnAP1 Malaria Transmission-Blocking Vaccine Antigen - **NICOLE BENDER**, UF
3. 3:30 PM A potential Role for Antibody-Mediated Immunothrombosis in Pediatric Cerebral Malaria - **ISAT VERA**, USF
4. 3:55 PM New Directions in Studies of Malaria Pathogenesis in Pregnancy - **JULIE MOORE**, UF
5. 4:20 PM Tackling the Diagnostic Challenges to Malaria Elimination - **RHOEL DINGLASAN**, UF
6. 4:45 PM High Resolution Mass Spectrometry-based Multiomics Delineates Rapid Detection of Malaria, Zika, Dengue, and Corona virus - **IQBAL MAHMUD**, UF
7. 5:00 PM Chemical Biology Approaches to Understanding the Biology of Malaria Pathogenesis and Transmission – **TIM HAMERLY**, UF

Closing Remarks

5:15-6:00 PM Separate Virtual Social hours for Faculty and Postdocs/Graduate Students