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**MALARIA-20**



# A Virtual Mini-Symposium on Advances in Malaria Research

Chair: Sanjay A. Desai, M.D., Ph.D., NIAID, National Institutes of Health, MD

**Monday – June 29, 2020**

8:30 AM to 5:10 PM (EDT)

Sponsor:



08:30 - 08:50 Zoom Joining and AV Check

08:50 - 09:00 Welcome & Introduction to Malaria-20

09:00 - 09:25 **DNA Uptake by Intracellular Malaria Parasites: Insights from Chemical Screen Hits**  
Sanjay A. Desai, NIAID/NIH, MD

09:25 - 09:50 **The Ancient Endosymbiotic Origins of the Apicoplast Link Fever Response and Artemisinin Resistance in the Malaria Parasite**  
John H. Adams, University of South Florida, FL

09:50 - 10:15 **Consequences of Disrupting Na<sup>+</sup> and Lipid Homeostasis by New Antimalarial Drugs**  
Akhil B. Vaidya, Drexel University, PA

10:15 - 10:30 **Interdisciplinary Approaches to Reveal Parasite Vulnerabilities**  
Emily R. Derbyshire, Duke University, NC

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10:30 - 10:40 Break

10:40 - 11:05 **A Druggable Oxidative Folding Pathway in the Endoplasmic Reticulum of Human Malaria Parasites**  
Vasant Muralidharan, University of Georgia, GA

11:05 - 11:30 **A Pantothenamide Antimetabolite Targets Coenzyme A Metabolism**  
Manuel Llinás, Pennsylvania State University, PA

11:30 - 11:55 **Drivers of Genetic Diversification in Malaria Parasites**  
Laura Kirkman, Weill Cornell Medicine, NY

11:55 - 12:10 **Mitochondrial Protein Translation in Apicomplexan Parasites-Machinery and Mechanism**  
Hangjun Ke, Drexel University, PA

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12:10 - 13:00 Lunch

13:00 - 13:25 **Population Modification of Mosquito Vectors for Malaria Control**  
Anthony A. James, University of California, CA

13:25 - 13:50 **Current and Next Generation Whole *Plasmodium falciparum* Sporozoite Vaccines: Spanning Discovery and Pre-Licensure**  
Peter F. Billingsley, Sanaria Inc., MD

13:50 - 14:15 **Identification of Key Determinants of Cerebral Malaria**  
Sung-Jae Cha, Johns Hopkins Bloomberg School of Public Health, MD

14:15 - 14:30 **A Versatile Platform for Assessing Antibody Reactivities in Sera from Individual Malaria Patients**  
Pradipsinh K. Rathod, University of Washington, WA

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14:30 - 14:40 Break

14:40 - 15:05 **Structural Vaccinology for Malaria**  
Niraj H. Tolia, NIAID/NIH, MD

15:05 - 15:30 **Structure of a Novel Protein Complex from *Plasmodium falciparum* Revealed Using the Cryo- Enabled Endogenous Structural Proteomics Approach**  
Chi-Min Ho, Columbia University Irving Medical Center, NY

15:30 - 15:45 **Role of *Plasmodium falciparum* Chloroquine Resistance Transporter in Anti-Malarial Drug Resistance**  
Jonathan Kim, Columbia University Medical Center, NY

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15:45 - 15:55 Break

- 15:55 - 16:20**    **Targeting Dihydroorotate Dehydrogenase for the Treatment of Malaria**  
**Margaret A. Phillips**, University of Texas Southwestern Medical Center, TX
- 16:20 - 16:45**    **Characterization of Antimalarial Drug Efficacy and Resistance in Uganda**  
**Philip J. Rosenthal**, University of California, CA
- 16:45 - 17:00**    **Deciphering the Role of Erythrocyte CD44 during *Plasmodium falciparum* Invasion**  
**Elizabeth S. Egan**, Stanford University, CA
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- 17:00 - 17:10**    **Concluding remarks**
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### Medicines for Malaria Venture (MMV)

Medicines for Malaria Venture (MMV) is a leading product development partnership (PDP) in antimalarial drug research in its 20th year. Its mission is to reduce the burden of malaria in disease-endemic countries by discovering, developing and facilitating delivery of new, effective and affordable antimalarial drugs. Since its foundation, MMV and partners have developed and brought forward eleven new medicines estimated to have saved around 2.2. million lives.

For more information visit: [www.mmv.org](http://www.mmv.org)

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