2019 IMMID Workshop Series on Molecular and Translational Medicine

Workshop 3

New Approaches to Control and Eliminate Malaria

October 23, 2019
245 N. 15th Street
Philadelphia, PA

NEW APPROACHES TO CONTROL AND ELIMINATE MALARIA

Organizers:
Akhil Vaidya, PhD
Professor, Department of Microbiology & Immunology
Drexel University College of Medicine

James Burns, PhD
Professor, Department of Microbiology & Immunology
Drexel University College of Medicine

9:30 AM  Introductory Remarks
Brian Wigdahl, PhD
Professor and Chair, Department of Microbiology and Immunology
Director, Institute for Molecular Medicine and Infectious Disease
Drexel University College of Medicine, Philadelphia, PA

Charles B. Cairns, MD
Annenberg Dean and Senior Vice President of Medical Affairs
Drexel University College of Medicine, Philadelphia, PA

SESSION 1

9:45 AM  Opening Remarks
Chair: Bill Bergman, PhD

9:55 AM  Audrey Odom John, MD, PhD
Division Chief, Infectious Diseases
The Children’s Hospital of Philadelphia

A breath of fresh air – volatiles in malaria and beyond

Go to www.drexel.edu/medicine/immid for more information
11:00 AM  **Joshua Hoong Yu Tan, PhD**  
Radcliff Department of Medicine  
University of Oxford  

*Discovery of human monoclonal antibodies against* *Plasmodium falciparum*  

12:00 PM  **Lunch**  
Lunch will be provided for all meeting attendees  

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**SESSION 2**  

1:00 PM  **Opening Remarks**  
Chair:  **Michael Mather, PhD**  

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1:00 PM  **Suyash Bhatnagar, PhD**  
Postdoctoral Fellow, Department of Microbiology and Immunology  
Drexel University College of Medicine  

*A genetic trap: Resistance imparting PfATP4 mutations result in hypersensitivity to other antimalarials*  

1:15 PM  **Aarti Ramanathan**  (PhD Candidate)  
Department of Microbiology and Immunology  
Drexel University College of Medicine  

*Oligomerization is essential for the functioning of the anti-malarial drug target PfATP4*  

1:30 PM  **Avantika Ahiya**  (PhD Candidate)  
Department of Microbiology and Immunology  
Drexel University College of Medicine  

*Discovering the unexpected role of cholesterol homeostasis in blood stages of malaria parasites*  

1:45 PM  **Flaminia Catteruccia, PhD**  
Professor, Department of Immunology and Infectious Disease  
Harvard T.H. Chan School of Public Health  

*Harnessing mosquitoes to kill malaria parasite*  

2:45 PM  **Break**  
Snack provided  

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SESSION 3

3:15 PM Opening Remarks
Chair: Hangjun Ke, PhD

3:15 PM Jacqueline Eacret, PhD
Postdoctoral Fellow, Department of Microbiology and Immunology
Drexel University College of Medicine
A new tool to facilitate development of a multivalent, multi-stage malaria vaccine

3:30 PM Sezin Nicklas, PhD
Postdoctoral Fellow, Department of Microbiology and Immunology
Drexel University College of Medicine
Nonenzymatic functions of a citrate synthase-like protein in Plasmodium falciparum

3:45 PM Swati Dass (PhD Candidate)
Department of Microbiology and Immunology
Drexel University College of Medicine
Divergent mitochondrial ribosomes in unicellular parasitic protozoans

4:00 PM Mike Riscoe, PhD
Professor, Department of Molecular Microbiology and Immunology
Oregon Health and Science University
The discovery and development of ELQ-300, a new drug for prevention and treatment of malaria

5:00 PM Adjourn