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

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

SESSION 2

1:00 PM Opening Remarks

Chair: Michael Mather, PhD

1:00 PM **Suyash Bhatnagar, PhD** Postdoctoral Fellow, Deparment 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

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