
**Third International
Malaria Research Conference**

Monday, March 20

Welcome

7:30 Continental Breakfast

8:00 Welcome

Diane Griffin
Dean Michael Klag

Session I. Plasmodium Biology

8:10 Encountering, presenting and representing *Plasmodium falciparum*

Zul Premji

8:40 Imaging of *Plasmodium* sporozoites *in vivo*

Robert Menard

9:10 Exploring exoerythrocytic development of *Plasmodium*

Stefan Kappe

9:40 **Break**

10:15 Lipoate metabolism in malaria: A tale of two organelles

Sean Prigge

10:45 Epigenetic regulation of *P. falciparum* var genes

Brendan Crabb

11:15 Neutral lipid initiation of *P. falciparum* heme crystals

David Sullivan

11:45 **Lunch**

1:00 **Keynote address**

Malaria and the mosquito:
Immunogenomics of *Plasmodium* transmission in *Anopheles*

Fotis Kafatos

Session II. Vector Biology

- 1:45 Topic: Mosquito population biology Didier Fontenille
- 2:15 Genetics and genomics of olfaction in disease vector mosquitoes Larry Zweibel
- 2:45 **Break**
- 3:15 Complexities in the population structure of the African malaria vector *Anopheles gambiae* Frank Collins
- 3:45 Proteomic analysis of salivary glands of *Anopheles gambiae* Akhilesh Pandey
- 4:15 Molecular approaches to the detection and monitoring of insecticide resistance Janet Hemingway
- 4:45 *Anopheles* molecular immune responses to *Plasmodium* infection George Dimopoulos

Session III. Pathogenesis and Immunity

- 5:15 Evolution of blood-stage immunity to *Plasmodium falciparum* during infancy James Kazura
- 5:45 Placental malaria Patrick Duffy
- 6:15 **Posters, wine and hors d'oeuvres reception**

Tuesday, March 21

7:30 Continental breakfast

Session III. Continued

8:00 Pathological studies of cerebral malaria Gareth Turner

8:30 Immunopathology of cerebral malaria: Cell-cell interactions, magnetic resonance imaging and importance of microvesiculation George Grau

9:00 Immunity, memory, vaccines – reflections on immunological strategies after 23 years of subunit approaches: Revisiting whole parasite options Michael Good

Session IV. Treatment and Control

9:30 New approaches and technologies for malaria prevention Pierre Guillet

10:00 **Break**

10:30 Clinical development of malaria vaccines Pedro Alonso

11:00 Malaria vaccine development: Status and future plans for the RTS,S/AS02 vaccine Joe Cohen

11:30 Novel biomarkers for rapid and sensitive detection of malaria parasites by mass spectrometry Andrew Feldman

12:00 **Lunch**

1:30 Targeting malaria dihydroorotate dehydrogenase Margaret Phillips

2:00 Synthetic peroxides as antimalarials: Identification of a secondary ozonide (1,2,4-trioxolane) drug development candidate Jonathan Vennerstrom

2:30 Methionine aminopeptidases as antimalarial drug targets Jun Liu

3:00 **Adjourn**
JHMRI External Advisory Board meeting