The Science of Malaria Eradication

February 2–7, 2014
Merida, Yucatan, Mexico

Scientific Organizers: Pedro L. Alonso, Chetan E. Chitnis and Lee Hall

Organized in collaboration with MESA – Malaria Eradication Scientific Alliance.
Part of the Keystone Symposia Global Health Series, travel awards supported by the Bill & Melinda Gates Foundation.

Global Health Travel Award Application Deadline: September 4, 2013
Discounted Abstract Deadline: October 10, 2013
Student/Postdoc Scholarship Application Deadline: October 10, 2013
Abstract Deadline: November 5, 2013
Discounted Registration Deadline: December 3, 2013

For more information and to view the program, visit www.keystonesymposia.org/14F1.
The Science of Malaria Eradication

Meeting Program

SUNDAY, FEBRUARY 2, 2014
Arrival and Registration

MONDAY, FEBRUARY 3, 2014
Keynote Address
Speaker to be Announced

Different Strategies for Disease Eradication
Dyann F. Wirth, Harvard School of Public Health, USA
The Parasite Population in Control, Elimination and Eradication
Fabrizio Tediosi, Swiss Tropical and Public Health Institute, Switzerland
Eradication: The Economic Case
Frank O. Richards, Carter Center, USA
Pragmatic Approaches: Where to Start with Elimination
Short Talk Chosen from Abstracts

Reducing Vectorial Capacity
Jetsumon Prachumsri, Mahidol University, Thailand
Inhibition of Parasite Development in Different Vectors
Anthony A. James, University of California, Irvine, USA
Genetic Manipulation of Mosquitoes
Marcelo Jacobs-Lorena, Johns Hopkins Bloomberg School of Public Health, USA
Fighting Malaria with Engineered Symbiotic Bacteria from Vector Mosquitoes
Short Talk Chosen from Abstracts

TUESDAY, FEBRUARY 4, 2014

Drugs and Drug-Based Strategies for Eradication
Elizabeth Ann Winzeler, University of California San Diego, School of Medicine, USA
Genetic Approaches to Identify New Targets
Timothy N.C. Wells, Medicines for Malaria Venture (MMV), Switzerland
Drug Discovery for Malaria Eradication, Liver Stages and Gametocytocidal Agents
Marcus G. Lacerda, Tropical Medicine Foundation of Amazonas, Brazil
Drugs for Plasmodium vivax
Speaker to be Announced
Short Talk(s) Chosen from Abstracts

Health Systems Research
Speaker to be Announced
David Smith, Johns Hopkins Bloomberg School of Public Health, USA
How Stable is Elimination?
Thomas A. Smith, Swiss Tropical and Public Health Institute, Switzerland
Modeling Intervention Mixes
Short Talk Chosen from Abstracts

THURSDAY, FEBRUARY 6, 2014

Parasite-Host Interactions
Robert E. Sinden, Imperial College London, UK
Identifying Biological Challenges: Trojan Horses of the Parasite Life-Cycle
Hernando Del Portillo Obando, Barcelona Centre for International Health Research (CRESIB), Spain
Reticulocyte-Derived Exosomes: An Intercellular Communicator in Plasmodium vivax Malaria?
Oliver Billker, Wellcome Trust Sanger Institute, UK
Signaling Pathways for Development of Transmission Stages
Short Talk(s) Chosen from Abstracts

Surveillance for Elimination
David Bell, Foundation for Innovative New Diagnostics (FIND), Switzerland
Diagnostic Priorities: Sustaining Gains When Parasites and Funders Are Waning
Justin M. Cohen, Clinton Health Access Initiative (CHAI), USA
Surveillance Strategies to Guide Elimination Operations
Marcel Tanner, Swiss Tropical and Public Health Institute, Switzerland
Surveillance and Response: The Challenges for Science and Elimination Actions
Keynote Address
Peter C. Agre, Johns Hopkins Malaria Research Institute, USA
Opening Doors Worldwide through Medical Science

FRIDAY, FEBRUARY 7, 2014
Departure

Information is current as of August 6, 2013 but subject to possible change. Please visit www.keystonesymposia.org/14F1 for the most up-to-date program information.
**Sunday, February 2**
Arrival and Registration

**Monday, February 3**

**Keynote Address**
Speaker to be Announced

**Different Strategies for Disease Eradication**

- Dyann F. Wirth, Harvard School of Public Health, USA
  *The Parasite Population in Control, Elimination and Eradication*

- Fabrizio Tediosi, Swiss Tropical and Public Health Institute, Switzerland
  *Eradication: The Economic Case*

- Frank O. Richards, Carter Center, USA
  *Pragmatic Approaches: Where to Start with Elimination—Different Strategic Lessons that can be Learned from NTD Programs*

**Short Talk Chosen from Abstracts**

**Reducing Vectorial Capacity**

- Jetsumon Prachumsri, Mahidol University, Thailand
  *Inhibition of Parasite Development in Different Vectors*

- Anthony A. James, University of California, Irvine, USA
  *Genetic Approaches for Controlling Transmission of Mosquito-Borne Diseases: Focus on Malaria*

- Marcelo Jacobs-Lorena, Johns Hopkins Bloomberg School of Public Health, USA
  *Fighting Malaria with Engineered Symbiotic Bacteria from Vector Mosquitoes*

**Poster Session 1**

**Tuesday, February 4**

**Drugs and Drug-Based Strategies for Eradication**

- Elizabeth Ann Winzeler, University of California San Diego, School of Medicine, USA
  *Using Phenotypic Screening and Forward Genetics to Find Targets for a Malaria Elimination Agenda.*

- Timothy N.C. Wells, Medicines for Malaria Venture, Switzerland
  *Discovery and Development of New Medicines for Eradication: Integrating with Translational Medicine*

- Marcus G. Lacerda, Tropical Medicine Foundation of Amazonas, Brazil
  *Drugs for Plasmodium vivax*

**Speaker to be Announced**

**Short Talk(s) Chosen from Abstracts**

**Health Systems Research**

- David Smith, Johns Hopkins Bloomberg School of Public Health, USA
  *How Stable is Elimination?*

- Thomas A. Smith, Swiss Tropical and Public Health Institute, Switzerland
  *Dynamics of Malaria Infection: Implications for Elimination*

**Break**

**Wednesday, February 5**

**Vaccines for Eradication**

- David Kaslow, PATH, USA
  *Profiling Immune Responses to Inform Vaccine Development*

- Patrick E. Duffy, National Institute of Allergy and Infectious Diseases, USA
  *Transmission-Blocking Vaccine and Assay Development*

- Stephen L. Hoffman, Sanaria, USA
  *Whole Cell Organisms*

**Speaker to be Announced**

**Short Talk(s) Chosen from Abstracts**

**Measurement of Transmission**

- Richard W. Steketee, Malaria Control Program, PATH, USA
  *Measuring Transmission*

- Ivo Mueller, Barcelona Centre for International Health Research (CRESIB) and the Walter & Eliza Hall Institute, Spain
  *Transmission of Plasmodium vivax*

- Sarah K. Volkman, Harvard School of Public Health, USA
  *Using Genomics to Understand Malaria Transmission toward Elimination and Eradication*

**Poster Session 2**

**Thursday, February 6**

**Parasite-Host Interactions**

- Robert E. Sinden, Imperial College London, UK
  *Identifying Biological Challenges: Trojan horses of the Parasite Life Cycle*

- Hernando Del Portillo Obando, CRESIB, Spain
  *Reticulocyte-Derived Exosomes: An Intercellular Communicator in Plasmodium vivax Malaria?*

- Oliver Bilker, Wellcome Trust Sanger Institute, UK
  *Signaling Pathways for Development of Transmission Stages*

**Speaker to be Announced**

**Short Talk(s) Chosen from Abstracts**

**Surveillance for Elimination**

- David Bell, Switzerland
  *Diagnostic Priorities: Sustaining Gains When Parasites and Funders Are Waning*

- Justin M. Cohen, Clinton Health Access Initiative (CHAI), USA
  *Defining Operational Surveillance Strategies for Malaria Elimination Programs*

- Marcel Tanner, Swiss Tropical and Public Health Institute, Switzerland
  *Surveillance and Response: The Challenges for Science and Elimination Actions*

**Keynote Address**

- Peter C. Agre, Johns Hopkins Malaria Research Institute, USA
  *Opening Doors Worldwide through Medical Science*
KEYSTONE SYMPOSIA
on Molecular and Cellular Biology

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FRIDAY, FEBRUARY 7

Department