

Time	Event	Description
8:15-9:00	Registration and Breakfast	
9:00-9:10	Welcome	Michele Barry and Chris Field
9:10-10:10	Session I: The Crucible <i>Speakers:</i> Mark Krasnow, Robert Siegel, Pat Wright, Matt Bonds <i>Moderator:</i> Kathy Burke	The opportunity in Madagascar: agenda for science, human health and environment; featuring Centre ValBio and PIVOT
10:10-10:20	Break	Music Sample by DJ Ecotone
10:20-11:30	Session II: Disease Ecology, Health, and the Environment <i>Speakers:</i> Steve Luby, Tom Gillespie, Giulio De Leo, Manu Prakash <i>Moderator:</i> Sanna Sokolow	Stanford's agenda for Planetary Health; opportunities for ecological solutions and frugal science
11:30-12:00	Breakout Round 1	Breakout sessions to discuss ongoing and potential activities in Madagascar
12:00-1:00	Lunch	
1:00- 2:00	Session III: Innovating from the Lab to the Field <i>Speakers:</i> Mark Krasnow, Greg Lanzaro, Purvesh Khatri, Jeff Freeman <i>Moderator:</i> Manu Prakash	From basic science to clinical interventions, new findings and technologies with the potential for affecting change in Madagascar and beyond
2:00-2:30	Breakout Round 2	Breakout sessions to discuss ongoing and potential activities in Madagascar
2:30-2:40	Break	
2:40-3:35	Session IV: Challenges and Opportunities for Implementation and Research <i>Speakers:</i> Paul Wise, Michael Rich, Kinari Webb <i>Moderator:</i> James Holland Jones	Transferable lessons in conservation, healthcare delivery and research from Guatemala, Borneo and Rwanda
3:35-4:15	Session V: Making it Real <i>Panelists:</i> Benjamin Andriamihaja, Matt Bonds, Jim Herrnstein, Pat Wright <i>Moderator:</i> Mark Krasnow	How to maximize impact in science, health, and the environment? What are the roles of partners in academia, government, non-government, and private sector?
4:15-5:15	Concert/ Reception	Sounds of Madagascar by DJ Ecotone





Madagascar: A Crucible for Science, Health and the Environment
A Stanford Global Health Research Symposium
February 8, 2017



Session and Speaker Details

9:00 Welcome

- **Michele Barry**, Senior Associate Dean of Global Health, Stanford Medical School; Director of the Stanford Center for Innovation in Global Health; Professor of Medicine, Stanford Medical School; Senior Fellow, Stanford Wood Institute for the Environment and the Stanford Freeman Spogli Institute
- **Chris Field**, Perry L. McCarty Director, Stanford Woods Institute; Melvin and Joan Lane Professor for Interdisciplinary Environmental Studies; Professor, School of Earth, Energy & Environmental Sciences; Senior Fellow, Stanford Precourt Institute for Energy

Session I: *The Crucible*

9:10 *"Introduction to the Crucible for Science, Health, and Environment"*

Mark Krasnow, Professor of Biochemistry, Stanford School of Medicine; Investigator, Howard Hughes Medical Institute

9:15 *"Natural History of Madagascar"*

Robert Siegel, Professor (Teaching) of Microbiology and Immunology, Stanford Medical School

9:30 *"Centre ValBio's Vision for Planetary Health"*

Patricia Wright, Distinguished Service Professor of Anthropology, Stony Brook University; Founder and Executive Director, Centre ValBio; Founder and Executive Director, Institute for the Conservation of Tropical Environments

9:45 *"PIVOT: Strengthening Health Systems as a Platform for Science and Innovation"*

Matthew Bonds, Visiting Assistant Professor, Stanford School of Medicine; Visiting Scholar, Woods Institute for the Environment; Assistant Professor of Global Health and Social Medicine, Harvard Medical School; Co-Founder and Co-CEO, PIVOT

10:00 Q&A

Kathy Burke (*Moderator*) Deputy Director, Center for Innovation in Global Health, Stanford School of Medicine

Session II: *Disease Ecology, Health, and the Environment*

10:20 *"Stanford's Agenda for Planetary Health"*

Steve Luby, Senior Fellow, Stanford Woods Institute for the Environment & Freeman Spogli Institute for International Studies; Director of Research, Stanford Center for Innovation in Global Health; Professor of Medicine, Stanford Medical School

10:35 *"Environmental Drivers of Disease in Madagascar"*

Tom Gillespie, Associate Professor and Director of Graduate Studies, Departments of Environmental Sciences and Environmental Health, Emory University

10:50 *"The Enemies of My Enemies are My Friends: Leveraging Biodiversity to Control Infectious Diseases of Poverty"*

Giulio De Leo, Professor of Biology, Stanford University; Senior Fellow, Stanford Woods Institute for the Environment; Faculty Director of the Program in Disease Ecology, Health, and the Environment





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11:05 *“A Crucible for Frugal Science, Health, and Environment”*

Manu Prakash, Assistant Professor of Bioengineering, Stanford University; Faculty Fellow, Stanford ChEM-H

11:20 Q&A

Susanne Sokolow (*Moderator*), Staff Research Scientist, Stanford Hopkins Marine Station and University of California, Santa Barbara; Associate Fellow, Center for Innovation and Global Health

Session III: Innovating from the Lab to the Field

1:00 *“Mouse Lemurs: a Genetic Model Organism for Primate Biology, Health, and Conservation”*

Mark Krasnow, Professor of Biochemistry, Stanford Medical School; Investigator, Howard Hughes Medical Institute

1:15 *“A Strategy for Malaria Eradication Using Genetically Engineered Mosquitoes,”*

Gregory Lanzaro, Professor of Pathology, Microbiology & Immunology, UC Davis

1:30 *“Identification of Robust TB Diagnosis Markers Using Heterogeneous Public Data,”*

Purvesh Khatri¹ and **Jeffrey Freeman**²

¹Assistant Professor of Medicine and Biomedical Data Science, Stanford School of Medicine

²Research Associate, Center for Humanitarian Health, Bloomberg School of Public Health, Johns Hopkins University

1:45 Q&A

Manu Prakash (*Moderator*)

Session IV: Challenges and Opportunities for Implementation and Policy Research

2:40 *“Implementation and Research at Partners In Health Rwanda”*

Michael Rich, Assistant Professor of Global Health and Social Medicine, Harvard Medical School; Associate Physician in the Division of Global Health Equity, Brigham and Women’s Hospital; Co-Founder, PIVOT

2:55 *“Science and Social Justice: Lessons from Guatemala”*

Paul Wise, Richard E. Berhman Professor in Child Health, Director for Policy Outcomes and Prevention, Stanford School of Medicine

3:10 *“Saving Rainforest With a Stethoscope”*

Kinari Webb, Founder, Health In Harmony; Co-founder, Alam Sehat Lestari; Social Entrepreneur Fellow, Ashoka

3:15 Q&A

James Holland Jones (*Moderator*), Associate Professor of Earth System Science, Stanford University; Senior Fellow, Woods Institute for the Environment

Session V: Making It Real: How to Maximize Impact in Science, Health, and the Environment

3:35 *Panel Discussion:* Benjamin Andriamihaja³, Matthew Bonds, Jim Herrnstein⁴, Mark Krasnow (moderator), Pat Wright

³ Founder and Executive Director, Madagascar Institut pour la Conservation des Ecosystèmes Tropicaux; ⁴ Co-Founder and Chair, PIVOT; Chair, Centre ValBio; Co-Manager, General Research Group, Renaissance Technologies

