

TUESDAY, APRIL 13

6:30pm – 9:00pm **Opening Reception, Seattle Art Museum Grand Staircase**

Sponsored by:



WEDNESDAY, APRIL 14

SESSION 1: GENOMES AND TECHNOLOGIES

Session Chair: Dr. Jack Harding

Session Co-Chair: Dr. Bob Palermo

7:30am – 8:30am **Coffee & Registration in the Sponsor Room**

8:30am – 8:35am **Welcome**
Michael G. Katze, Ph.D.
University of Washington

8:35 am – 8:45 am **Opening Remarks**
Paul G. Ramsey, M.D.
Dean, School of Medicine, University of Washington

8:45am – 8:50am **Welcome and Introduction of Keynote Speaker**
Dave Anderson, D.V.M.
University of Washington

8:50am – 9:15am **Keynote Speaker**
Alan Aderem, Ph.D.
Institute for Systems Biology
A Systems approach to dissecting Immunity

9:15am – 9:40am **Wesley C. Warren for Elaine R. Mardis, Ph.D.**
Washington University
The continual evolution of primate genome sequencing

9:40am – 10:05am **Erika Sasaki, Ph.D.**
Central Institute for Experimental Animals, Japan
Generation of transgenic nonhuman primates with germline transmission

10:05am – 10:35am **Coffee Break in the Sponsor Room**

10:35am – 11:00am **Jay Shendure, Ph.D.**
University of Washington
Next-Generation Mendelian Genetics by Exome Sequencing

11:00am – 11:20am **Ulrich Certa, Ph.D.**
Roche
*The genome sequence of the cynomolgus monkey *Macaca fascicularis*: Impact for drug discovery and safety*

11:20am – 11:40am **Robert Norgren, Ph.D.**
University of Nebraska Medical Center
Annotation of the rhesus macaque genome

11:40am – 12:00pm **Devin Locke, Ph.D.**
The International Orangutan Genome Analysis Consortium
The genome of the man of the forest

12:00pm – 1:15pm **Lunch on your own**
Coffee/Dessert provided in the Sponsor Room

WEDNESDAY, APRIL 14

SESSION 2: PRIMATE GENOMICS AND HUMAN DISEASE

Session Chair: **Dr. Dave Anderson**

Session Co-Chair: **Dr. Sarah Belisle**

1:15pm – 1:40pm **Keynote Speaker**
Wang Jun, Ph.D.
Beijing Research Institute
Sequencing, Sequencing, and Sequencing

1:40pm – 2:05pm **Betsy Ferguson, Ph.D.**
Oregon National Primate Research Center
Alternative primate species as models of human disease

2:05pm – 2:30pm **Jeffrey Rogers, Ph.D.**
Baylor College of Medicine
Natural variation and reverse genetics in primates: Next generation opportunities to expand our strategies for biomedical genetics using nonhuman primates

2:30pm – 2:55pm **David Glen Smith, Ph.D.**
University of California, Davis and California National Primate Research Center
*Genetic Diversity among Regional Populations of Longtail Macaques (*Macaca fascicularis*)*

2:55pm – 3:20pm **Richard Weindruch, Ph.D.**
University of Wisconsin-Madison
Influences of caloric intake on aging

3:20pm – 4:00pm **Coffee Break in the Sponsor Room**

4:00pm – 4:20pm **Julie Hollister-Smith, Ph.D.**
Oregon Primate Research Center
Genetic exploration of Japanese macaque encephalomyelitis (JME), a promising new animal model for multiple sclerosis

4:20pm – 4:40pm **Gil Atzmon, Ph.D.**
Albert Einstein College of Medicine
Whole genome screening to identify genes associated with insulin resistance and diabetes in rhesus monkeys

4:40pm – 5:30pm **Round Table Discussion**

5:30pm – 7:30pm **Poster Session**

Sponsored by:



THURSDAY, APRIL 15

SESSION 3: PRIMATE GENOMICS AND AIDS

Session Chair: Dr. Greg Miller

Session Co-Chair: Dr. Pavel Sova

- 7:30am – 8:30am** **Coffee/pastries in the Sponsor Room**
- 8:30am – 8:55am** **Keynote Speaker**
Lawrence Corey, M.D.
Fred Hutchinson Cancer Research Center
Developing an Effective HIV Vaccine - The Need for Greater Clinical and NHP Interaction
- 8:55am – 9:20am** **David O'Connor, Ph.D.**
University of Wisconsin-Madison
Here Come the 454s: Opportunities and Challenges in the Application of Deep DNA Sequencing to Nonhuman Primate Disease Research
- 9:20am – 9:45am** **Ashley T. Haase, M.D.**
University of Minnesota
Insights into HIV and SIV Pathogenesis from Microarray analyses
- 9:45am – 10:10am** **Brandon F. Keele, Ph.D.**
National Cancer Institute
Identifying and Characterizing Recently Transmitted HIV/SIV
- 10:10am – 10:40am** **Coffee Break in the Sponsor Room**
- 10:40am – 11:05am** **Guido Silvestri, M.D.**
University of Pennsylvania
Nonpathogenic SIV Infections of Natural Hosts
- 11:05am – 11:25am** **Arndt Benecke, Ph.D.**
Institut des Hautes Etudes Scientifiques
Inference of functional gene networks in non-pathogenic SIV infection
- 11:25am – 11:45am** **Steven Bosinger, Ph.D.**
University of Pennsylvania
Meta-analysis of acute SIV infection in natural hosts species
- 11:45am – 12:05pm** **Ulrike Saueremann, Ph.D.**
German Primate Research Center
Lessons from a genome wide association analysis in SIV-infected rhesus macaques
- 12:05pm – 1:25pm** **Lunch on your own**
Coffee/Dessert provided in the Sponsor Room

THURSDAY, APRIL 15

SESSION 4: Systems Biology
Session Chair: Dr. Martha Neuringer
Session Co-Chair: Dr. Jenny Tisoncik

- 1:25pm – 1:50pm** **Keynote Speaker**
Rafick Sékaly, Ph.D.
University of Montreal Hospital Research Center
Systems Biology approaches to the understanding of memory T and B cell homeostasis and pathogenesis
- 1:50pm – 2:15pm** **Michael G. Katze, Ph.D.**
University of Washington
How can we save the world from the next pandemic-can systems and computational biology be more effective than 50 years of traditional virology?
- 2:15pm – 2:40pm** **Gary Schroth, Ph.D.**
Illumina
New Methods for Studying Human Gene Structure, Expression and Regulation
- 2:40pm – 3:20pm** **Coffee Break in the Sponsor Room**
- 3:20pm – 3:40pm** **Deepak Kaushal, Ph.D.**
Tulane Primate Research Center
Molecular Characterization of Granulomatous Lesions in Primates Infected with Mycobacterium tuberculosis
- 3:40pm – 4:00pm** **Ed Lein, Ph.D.**
Allen Institute for Brain Sciences
The NIH Blueprint Non-human Primate (NHP) Atlas: A gene expression atlas of postnatal development in rhesus macaque brain
- 4:00pm – 5:00pm** **Round Table**
- 6:30pm – 10:00pm** **Banquet Dinner at the Seattle Aquarium**

Please join us for dinner, drinks and entertainment at the Seattle Aquarium.

Pier 59 on the Seattle Waterfront
1483 Alaskan Way
Seattle, WA 98101-2015

Entertainment for the evening will be magic!
Courtesy of the Great Garsetti and Dr. Stuart Zola



Sponsored by:



FRIDAY, APRIL 16

SESSION 5: NEUROSCIENCE AND TRANSLATIONAL RESEARCH

Session Chair: Dr. Stuart Zola

Session Co-Chair: Dr. Betsy Ferguson

- 7:30am – 8:30am** **Coffee/pastries in the Sponsor Room**
- 8:30am – 8:55am** **Skirmantas Kriaucionis, Ph.D. for Nathaniel Heintz, Ph.D.**
The Rockefeller University
An unusual nucleotide in mammalian DNA
- 8:55am – 9:20am** **Gregory M. Miller, Ph.D.**
Harvard Medical School and New England NPRC
Translational genetic and pharmacogenomic modeling of human neuropsychiatric and drug addiction phenotypes
- 9:20am – 9:45am** **Martha Neuringer, Ph.D.**
Oregon Health & Science University and Oregon NPRC
Nonhuman Primate Models of Age-Related Macular Disease
- 9:45am – 10:10am** **Douglas Rosene, Ph.D.**
Boston University School of Medicine
Cognitive Aging in the Rhesus Monkey: Phenotype in need of its genetic underpinnings
- 10:10am – 10:50am** **Coffee Break in the Sponsor Room**
- 10:50am – 11:15am** **Stuart Zola, Ph.D.**
Director, Yerkes NPRC
Mild Cognitive Impairment (MCI): From Human Phenotypes to Genomics and Behavior in Nonhuman Primates
- 11:15am – 11:35am** **Joseph Kemnitz, Ph.D.**
University of Wisconsin, Madison
Initiative to Link Animal Models to Human Disease (LAMHDI)
- 11:35am – 11:55am** **Jay Kaplan, Ph.D.**
Wake Forest University Primate Center
*Heritable Cardiometabolic Responses to a Pedigree-Wide, Dietary Challenge in African Green Monkeys (*Chlorocebus aethiops sabaues*) – Implications for Further Model Development and Translational Investigations*
- 11:55am – 12:15pm** **Jessica Hunter, Ph.D.**
Oregon Health Sciences University
*Analysis of prefrontal and orbitofrontal transcriptomes in *Cynomolgus* macaque monkeys after self-administration of ethanol*
- 12:15pm – 12:25pm** **Conclusion and Closing Remarks**
Michael G. Katze, Ph.D.