



UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL
16TH ANNUAL BASIC SCIENCE RESEARCH RETREAT
HOAGLAND PINCUS CONFERENCE CENTER
SHREWSBURY, MASSACHUSETTS
Tuesday, October 4 – Wednesday, October 5, 2011

Organized by Silvia Corvera, Michael Czech and Thoru Pederson

Tuesday, October 4th

1:00 PM - 2:00 PM Registration in the lobby of the Hoagland Pincus Conference Center

Program 2:15 PM – 5:00 PM at the Hoagland Amphitheater

2:10 PM

~ Welcome and Opening Remarks ~

John L. Sullivan, M.D.

*Professor of Pediatrics and Molecular Medicine
Vice Provost for Research*

2:15 PM – 3:55 PM

Session I: Systems Biology and Bioinformatics

“Gene Regulatory Networks”

~ Chair ~

Marian Walkout, Ph.D.

Associate Professor, Program in Molecular Medicine

“Cis-Regulatory Map of the Human Genome”

Zhiping Weng, Ph.D.

*Professor, Biochemistry and Molecular Pharmacology
Director, Program in Bioinformatics and Integrative Biology*

“How Chromosomes Fold: Implications for Genomic Stability”

Job Dekker, Ph.D.

Associate Professor, Biochemistry and Molecular Pharmacology

“Bioinformatics Core Technologies”

Simon Xi, Ph.D.

Associate Professor, Biochemistry and Molecular Pharmacology

3:55 PM – 4:15 PM

~ Coffee Break ~

4:15PM – 5:15 PM

~ Introduction~

Michael F. Collins, M.D.

Chancellor

Chancellor’s Award for Distinguished Research-Keynote Address
“Studying Cancer Molecular Genetics using Genome-Wide RNA Interference Screens”

Michael R. Green, M.D., Ph.D.

*Director, Program in Gene Function and Expression
Professor of Molecular Medicine
Investigator, Howard Hughes Medical Institute
Lambi and Sarah Adams Chair in Genetic Research*

5:20 PM – 8:00PM

~ Dinner Under the Tent ~

Wednesday, October 5th

8:00 AM – 8:50 AM

~ Breakfast in the Worcester Dining Room ~

Program 9:00 AM – 5:20 PM at the Hoagland Amphitheater

9:00 AM – 10:30 AM

Sessions 2: Graduate Student Talks

Moderator- **Anthony Carruthers, Ph.D.**
*Professor of Biochemistry and Molecular Pharmacology
Dean, Graduate School of Biomedical Sciences*

“Mdm2 Regulation in Skin Aging”
Hugh Gannon – Stephen Jones’ Lab

“Role of ZNF304 in p14ARF Epigenetic Silencing and Ras-Driven Tumorigenicity”
Ryan Serra – Michael Green’s Lab

“The Source of Antigens of MHC Class I Presentation”
Diego Farfan - Kenneth Rock’s Lab

“Erosion Repair in Rheumatoid Arthritis: Interplay between Inflammation and the Wnt Signaling Pathway”
Melissa Matzelle - Ellen Gravallesse’s lab

10:30 AM – 10:45 AM

~ Break ~

10:45 AM – 12:50 PM

Session 3: Tumor and Microbial Pathogenesis

“Introduction to MaPS and the Systems Biology of Infectious Disease”
~ Chair ~
Allan Jacobson, Ph.D.
Professor and Chair of Microbiology and Physiological Systems

“A Global View of Tuberculosis Pathogenesis”
Christopher Sassetti, Ph.D.
*Assistant Professor, Microbiology and Physiological Systems
Investigator, Howard Hughes Medical Institute*

“Moving from a Genetic to a Genomic View of Large DNA Viruses”
Timothy Kowalik, Ph.D.
Associate Professor, Microbiology and Physiological Systems

“The Role of Apoptosis-Induced Compensatory Proliferation for Tissue Repair and Cancer”

Andreas Bergmann, Ph.D.

Professor, Cancer Biology

“Developmental Pathways in Gastrointestinal Tumors”

Junhao Mao, Ph.D.

Assistant Professor, Cancer Biology

12:50 PM – 1:45 PM

~ Lunch Under the Tent ~

Program 2:00 PM – 5:20 PM at the Hoagland Amphitheater

2:00 PM – 3:40 PM

Session 4: Innate Immunity; Inflammation

*“Evolution of Concepts in Pathogenesis of Infections:
From Janeway Lesions to Janeway Receptors”*

~ Chair ~

Robert Finberg, M.D.

Professor and Chair, Department of Medicine

*“Innate Immunity and Acute Cardiovascular Disease:
From Bedside to Bench and Back”*

Jane Freedman, Ph.D.

Professor, Medicine

“Hemodynamics Regulation of Endothelial Resistance by TGF- β ”

Jeffrey Rade, Ph.D.

Professor, Medicine

“Targeting the IFN- γ Pathway for the Treatment of Vitiligo”

John Harris, Ph.D.

Assistant Professor, Medicine

3:45 PM – 5:10 PM

Session 5: New Core Technologies

~ Chair ~

John L. Sullivan, M.D.

Professor of Pediatrics and Molecular Medicine

Vice Provost for Research

“RNAi screens to investigate host-viral interactions”

Abraham Brass, M.D., Ph.D.

Assistant Professor, Department of Microbiology and Physiological Systems

“Proteomics Core”

Scott Shaffer, Ph.D.

Professor, Biochemistry and Molecular Pharmacology

Director, Proteomics Core

“Viral Vector Core”

Guangping Gao, Ph.D.

Professor, Department of Microbiology and Physiological Systems

Director, Gene Therapy Center

