FRIDAY, OCTOBER 24, 2014

2:00-2:15 PM **INTRODUCTION**
Gökhan S. Hotamisligil, M.D., Ph.D.
Chair and J.S. Simmons Professor of Genetics and Metabolism
Department of Genetics and Complex Diseases, Harvard School of Public Health

WELCOME
John B. Little, M.D.
James Stevens Simmons Professor of Radiobiology, Emeritus
Department of Genetics and Complex Diseases, Harvard School of Public Health

OPENING REMARKS
Dean David Hunter, MBBS, MPH, Sc.D.
Dean of Academic Affairs
Vincent L. Gregory Professor in Cancer Prevention, Departments of Epidemiology and Nutrition, Harvard School of Public Health

2:15-5:30 PM **SESSION I: Discussion Leader: James R. Mitchell, Ph.D.**
Assistant Professor, Department of Genetics and Complex Diseases
Harvard School of Public Health

2:15-3:00 PM **Craig Peterson, Ph.D.** - Professor and Vice-Chair, Program of Molecular Medicine
University of Massachusetts Medical School
Chromatin dynamics: Regulation of transcriptional homeostasis

3:00-3:45 PM **Robert Farese, Jr., M.D.** - Professor, Department of Genetics and Complex Diseases, Harvard School of Public Health
Mechanisms of Fat Synthesis and Storage in Lipid Droplets

3:45-4:00 PM **BREAK** - Cannon Room Foyer

4:00-4:45 PM **Gregg Semenza, M.D., Ph.D.** - Professor, Department of Pediatrics, Medicine, Oncology and Radiation Oncology, John Hopkins University School of Medicine, Institute of Genetic Medicine
Member, National Academy of Sciences
Role of Hypoxia-Inducible Factor 1 in Breast Cancer Stem Cells

4:45-5:30 PM **David M. Sabatini, M.D., Ph.D.**- Member, Whitehead Institute, Investigator of the Howard Hughes Medical Institute, Professor of Biology,
Massachusetts Institute of Technology
Regulation of Growth by the mTor pathway

5:30-7:00 PM **RECEPTION** - Courtyard Café, Harvard Medical Center

SATURDAY, OCTOBER 25, 2014

8:00 - 9:00 AM **BREAKFAST** - Courtyard Café, Harvard Medical School

9:00 - 12:15 PM **SESSION II: Discussion Leader: Chih-Hao Lee, Ph.D.**
Associate Professor, Department of Genetics and Complex Diseases
Harvard School of Public Health

SATURDAY, OCTOBER 25, 2014

9:00-9:45 AM **John Boice, Jr., Sc.D.** - President, National Council on Radiation Protection and Measurements
Professor of Medicine, Vanderbilt-Ingram Cancer Center
Bridging the Gap from Molecules to Epidemiology

9:45-10:30 AM **Toshiya Inaba, M.D.** - Director, Research Institute for Radiation Biology Medicine (RIRBM)
Hiroshima University
Haploinsufficiency of multiple genes causes myelodysplastic syndromes by disrupting homeostasis of hematopoietic stem cells

10:30-10:45 AM **BREAK** - Armenise Amphitheater, Harvard Medical School

10:45-11:30 AM **Gökhan S. Hotamisligil, M.D., Ph.D.** - Chair and J.S. Simmons Professor of Genetics and Metabolism
Department of Genetics and Complex Diseases, Harvard School of Public Health
Endoplasmic reticulum and mitochondria integration in adaptive and destructive responses to stress

11:30 AM-12:15 PM **David Sinclair, Ph.D.** - Professor and Co-Director, Paul F. Glenn Laboratories for the Biological Mechanisms of Aging, Genetics Department, Harvard Medical School
Genes and Small Molecules that extend Lifespan: Evidence for Xenohormesis

12:15-1:30 PM **LUNCH** - Courtyard Caf", Harvard Medical Center

1:30-5:30 PM **SESSION III: Discussion Leader: Brendan D. Manning, Ph.D.**
Professor, Department of Genetics and Complex Diseases
Harvard School of Public Health

1:30-2:15 PM **Laura Johnston, Ph.D.** - Associate Professor, Department of Genetics and Development
Columbia University
Regulation of Tissue Homeostasis by Toll-related Receptors and NF*k*B Signaling

2:15-3:00 PM **John Blenis, Ph.D.** - Professor, Department of Cell Biology
Harvard Medical School
mTor Complex 1: Signal Integrator and Regulator of Cell Growth

3:00-3:45 PM **Konrad Hochedlinger, Ph.D.** - Professor, Department of Stem Cell and Regenerative Biology, Howard Hughes Medical Institute,
Harvard Stem Cell Institute
Programming and Reprogramming Cell Fate

3:45×4:00 PM **BREAK** - Armenise Amphitheater, Harvard Medical School

4:00-4:45 PM **Karen Cichowski, Ph.D.** - Associate Professor, Department of Medicine, Harvard Medical School
Developing Therapies for Ras-Driven Cancers

4:45-5:30 PM **Lewis C. Cantley, Ph.D.** - Director, Cancer Center and Professor of Cancer Biology in Medicine
Weill Cornell Medical College and New York-Presbyterian Hospital;
Memeber, National Academy of Sciences
PI3K and Cancer Metabolism