Thursday, October 8, 2009

8:00 a.m.-9:00 a.m. Continental Breakfast Stanbro Room

9:00 a.m.-12:00 p.m. Session 1: Genes and Pathways in Cancer Imperial Ballroom

Chairperson: Robert A. Weinberg, Whitehead Institute for Biomedical Research, Cambridge, MA

Molecular characterization of circulating tumor cells
Daniel A. Haber, Massachusetts General Hospital, Charlestown, MA

From chromosome engineering to chromatin remodeler: CHD5 is a tumor suppressor mapping to human 1p36*
Alea A. Mills, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY

New cancer targets emerging from studies of the VHL tumor suppressor gene
William G. Kaelin, Jr., Dana-Farber Cancer Institute, Boston, MA

PI3-Kinase and cancer metabolism*
Lewis C. Cantley, Beth Israel Deaconess Medical Center, Boston, MA

12:00 p.m.-1:30 p.m. Mentoring Lunches for Early-Career Investigators (advance signup required) Holmes, Copley, Emerson

1:30 p.m.-3:45 p.m. Session 2: Mouse Models of Cancer Imperial Ballroom

Chairperson: Guillermina Lozano, UT M. D. Anderson Cancer Center, Houston, TX

The regulation of p53 tumor suppressing activities*
Guillermina Lozano

Studying tumor evolution in mouse models of cancer*
Tyler Jacks, David H. Koch Institute for Integrative Cancer Research at MIT, Cambridge, MA

Dissecting tumor suppressor gene networks in vivo*
Scott W. Lowe, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY

3:45 p.m.-4:30 p.m. Special Lecture: Host-Germline Genetics Imperial Ballroom

Single nucleotide polymorphisms in the p53 pathway*
Arnold J. Levine, Institute for Advanced Study, Princeton, NJ

4:30 p.m.-4:45 p.m. Coffee Break Stanbro Room

4:45 p.m.-5:30 p.m. Special Lecture: Epigenetics Imperial Ballroom

Chairperson: Elizabeth H. Blackburn, University of California, San Francisco, CA

Cancer, stem cells, and the epigenetic terrain
Stephen B. Baylin, Johns Hopkins University School of Medicine, Baltimore, MD

*An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings.
Friday, October 9, 2009

8:00 a.m.-9:00 a.m.  Continental Breakfast  
Stanbro Room

9:00 a.m.-11:15 a.m.  Session 3: Structural Biology  
Imperial Ballroom
Chairperson: Arnold J. Levine, Institute for Advanced Study, Princeton, NJ
Protein phosphatase 2A: New insights into an old paradigm  
Yigong Shi, Princeton University, Princeton, NJ
Fragment-based cancer drug discovery*  
Stephen W. Fesik, Vanderbilt University School of Medicine, Nashville, TN
p53: From structure to drug discovery*  
Alan R. Fersht, University of Cambridge, Cambridge, United Kingdom

11:15 a.m.-12:00 p.m.  Special Lecture: Mouse Models of Cancer  
Imperial Ballroom
Using switchable mouse genetic models to validate therapeutic cancer targets*  
Gerald I. Evan, UCSF Comprehensive Cancer Center, San Francisco, CA

12:00 p.m.-1:30 p.m.  Mentoring Lunches for Early-Career Investigators (advance signup required)  
Holmes, Copley, Emerson

1:30 p.m.-4:30 p.m.  Session 4: Targeted Small Molecules  
Imperial Ballroom
Chairperson: Julian Adams, Infinity Pharmaceuticals, Inc., Cambridge, MA
Examining the scale and scope of tools and programs to navigate in translational oncology space: Lessons learned  
Stephen H. Friend, Sage Bionetworks, Seattle, WA
Discovery and preclinical activity of IPI-926, a Hedgehog pathway inhibitor*  
Julian Adams  
Title to be announced  
Neal Rosen, Memorial Sloan-Kettering Cancer Center, New York, NY
Oncology drug discovery and development in the 21st century*  
William N. Hait, Ortho Biotech Oncology Research and Development, a unit of Johnson and Johnson Research and Development, L.L.C., Raritan, NJ

4:30 p.m.-4:45 p.m.  Coffee Break  
Stanbro Room

*An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings.
4:45 p.m.-5:30 p.m.  **Special Lecture:**
**Systems Biology**
Imperial Ballroom

**Chairperson:** Arnold J. Levine, Institute for Advanced Study, Princeton, NJ

Haplotype analysis of the p53 pathway  
**Gurinder Atwal,** Cold Spring Harbor Laboratory, Cold Spring Harbor, NY

5:30 p.m.-7:30 p.m.  **Poster Session B and Light Reception**
Plaza Ballroom

12:00 p.m.-1:30 p.m.  **Mentoring Lunches for Early-Career Investigators**  
(advance signup required)  
Holmes, Copley, Emerson

1:30 p.m.-4:30 p.m.  **Session 6: Metabolism and Cancer**  
Imperial Ballroom

**Chairperson:** Steven L. McKnight, UT Southwestern Medical Center, Dallas, TX

Control of growth by mTOR signaling*  
**David M. Sabatini,** Whitehead Institute for Biomedical Research, Cambridge, MA

Survival pathways in tumors under metabolic stress  
**Tak W. Mak,** Campbell Family Institute for Breast Cancer Research at Princess Margaret Hospital, Toronto, ON, Canada

The roles of prolyl hydroxylases in metabolism and cancer*  
**Eyal Gottlieb,** Cancer Research UK, The Beatson Institute for Cancer Research, Glasgow, United Kingdom

Mouse embryonic stem cells exist in a unique metabolic state*  
**Steven L. McKnight**

4:30 p.m.-4:45 p.m.  **Coffee Break**  
Stanbro Room

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Frontiers in Basic Cancer Research • October 8-11, 2009 • Boston, MA
4:45 p.m.-5:30 p.m. Special Lecture: MiRNA
Chairperson: Joan S. Brugge, Harvard Medical School, Boston, MA
MicroRNAs in cancer pathogenesis
Carlo M. Croce, Ohio State University Comprehensive Cancer Center, Columbus, OH

5:30 p.m.-7:30 p.m. Poster Session C and Light Reception

Sunday, October 11, 2009

8:00 a.m.-9:00 a.m. Continental Breakfast

9:00 a.m.-10:30 a.m. Session 7: Metastasis
Chairperson: Robert A. Weinberg, Whitehead Institute for Biomedical Research, Cambridge, MA
Deconstructing metastasis*
Joan Massagué, Memorial Sloan-Kettering Cancer Center, New York, NY
EMT in tumor invasion and metastasis*
Thomas Brabletz, University of Freiburg, Freiburg, Germany
Malignant progression and the stem-cell state*
Robert A. Weinberg

10:30 a.m.-11:00 a.m. Coffee Break

11:00 a.m.-12:00 p.m. Session 8: Telomeres and DNA Damage Responses
Chairperson: Elizabeth H. Blackburn, University of California, San Francisco, CA
Cellular responses to telomerase perturbations*
Elizabeth H. Blackburn
TERT, senescence, and transformation*
William C. Hahn, Dana-Farber Cancer Institute, Boston, MA

*An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings.