

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*.

Conference Program and Schedule

5:30 p.m.-7:30 p.m. **Poster Session A and
Opening Reception**
Plaza Ballroom

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

Friday, October 9, 2009

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

1:30 p.m.-4:30 p.m. **Session 4: Targeted
Small Molecules**
Imperial Ballroom

9:00 a.m.-11:15 a.m. **Session 3: Structural Biology**
Imperial Ballroom

Chairperson: Julian Adams, Infinity Pharmaceuticals, Inc.,
Cambridge, MA

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

Examining the scale and scope of tools and programs to
navigate in translational oncology space: Lessons learned
Stephen H. Friend, Sage Bionetworks, Seattle, WA

Protein phosphatase 2A: New insights into an old paradigm
Yigong Shi, Princeton University, Princeton, NJ

Discovery and preclinical activity of IPI-926, a Hedgehog
pathway inhibitor*
Julian Adams

Fragment-based cancer drug discovery*
Stephen W. Fesik, Vanderbilt University School of Medicine,
Nashville, TN

Title to be announced

Neal Rosen, Memorial Sloan-Kettering Cancer Center,
New York, NY

p53: From structure to drug discovery*
Alan R. Fersht, University of Cambridge, Cambridge,
United Kingdom

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

11:15 a.m.-12:00 p.m. **Special Lecture: Mouse
Models of Cancer**
Imperial Ballroom

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

Using switchable mouse genetic models to validate
therapeutic cancer targets*
Gerald I. Evan, UCSF Comprehensive Cancer Center,
San Francisco, CA

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4:45 p.m.-5:30 p.m.

**Special Lecture:
Systems Biology**
Imperial Ballroom

Common mechanisms of dedifferentiation in reprogramming and cancer

George Q. Daley, Children's Hospital, Boston, MA

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

Balancing quiescence and proliferation in stem cells and its implications for cancer*

Elaine V. Fuchs, Howard Hughes Medical Institute, The Rockefeller University, New York, NY

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

Saturday, October 10, 2009

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

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

Continental Breakfast
Stanbro Room

Control of growth by mTOR signaling*

David M. Sabatini, Whitehead Institute for Biomedical Research, Cambridge, MA

9:00 a.m.-12:00 p.m.

**Session 5: Cell Culture
Systems and Stem Cells**
Imperial Ballroom

Survival pathways in tumors under metabolic stress

Tak W. Mak, Campbell Family Institute for Breast Cancer Research at Princess Margaret Hospital, Toronto, ON, Canada

Chairperson: Joan S. Brugge, Harvard Medical School, Boston, MA

The roles of prolyl hydroxylases in metabolism and cancer*

Eyal Gottlieb, Cancer Research UK, The Beatson Institute for Cancer Research, Glasgow, United Kingdom

Mechanisms regulating anchorage independent survival*

Joan S. Brugge

Mouse embryonic stem cells exist in a unique metabolic state*

Steven L. McKnight

Molecular alterations that predict premalignancy in breast cancer*

Thea D. Tlsty, UCSF Comprehensive Cancer Center, San Francisco, CA

4:30 p.m.-4:45 p.m.

Coffee Break
Stanbro Room

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Conference Program and Schedule

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

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**
Plaza Ballroom

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

**11:00 a.m.-12:00 p.m. Session 8: Telomeres and
DNA Damage Responses**
Imperial Ballroom

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

Sunday, October 11, 2009

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

9:00 a.m.-10:30 a.m. Session 7: Metastasis
Imperial Ballroom

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

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