

## 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

\*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

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\*

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

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

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