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

Saturday, October 10, 2009

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

9:00 a.m.-12:00 p.m. Session 5: Cell Culture Systems and Stem Cells
Imperial Ballroom

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

Mechanisms regulating anchorage independent survival*
Joan S. Brugge

Molecular alterations that predict premalignancy in breast cancer*
Thea D. Tlsty, 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 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

Common mechanisms of dedifferentiation in reprogramming and cancer
George Q. Daley, Children’s Hospital, Boston, MA

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

*An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings.
### Conference Program and Schedule

#### Sunday, October 11, 2009

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td><strong>4:45 p.m.-5:30 p.m.</strong></td>
<td><strong>Special Lecture: MiRNA</strong></td>
<td>Imperial Ballroom</td>
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<td>Chairperson: Joan S. Brugge, Harvard Medical School, Boston, MA</td>
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<td>MicroRNAs in cancer pathogenesis</td>
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<td>Carlo M. Croce, Ohio State University Comprehensive Cancer Center, Columbus, OH</td>
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<td><strong>5:30 p.m.-7:30 p.m.</strong></td>
<td><strong>Poster Session C and Light Reception</strong></td>
<td>Plaza Ballroom</td>
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<td><strong>10:30 a.m.-11:00 a.m.</strong> <strong>Coffee Break</strong></td>
<td>Stanbro Room</td>
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<td><strong>11:00 a.m.-12:00 p.m.</strong> <strong>Session 8: Telomeres and DNA Damage Responses</strong></td>
<td>Imperial Ballroom</td>
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<td>Chairperson: Elizabeth H. Blackburn, University of California, San Francisco, CA</td>
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<td>Cellular responses to telomerase perturbations*</td>
<td>Elizabeth H. Blackburn</td>
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<td></td>
<td>TERT, senescence, and transformation*</td>
<td>William C. Hahn, Dana-Farber Cancer Institute, Boston, MA</td>
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**American Association for Cancer Research • Program and Proceedings**

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