An AACR Special Conference
Advances in Modeling Cancer in Mice: Technology, Biology, and Beyond

September 24-27, 2017
Disney's Boardwalk Inn
Orlando, Florida

Sunday, September 24

Opening Keynote Session
Session Chairs: Cory Abate-Shen, Columbia University Medical Center, Herbert Irving Comprehensive Cancer Center, New York, New York, and Kevin M. Haigis, Beth Israel Deaconess Medical Center, Boston, Massachusetts
6:00 p.m.-8:00 p.m.

Welcome Remarks
Cory Abate-Shen

Title to be announced
Tyler Jacks, David H. Koch Institute for Integrative Cancer Research at MIT, Cambridge, Massachusetts

Stem cells in silence, action, and cancer
Elaine Fuchs, The Rockefeller University, New York, New York

Opening Reception
8:00 p.m.-10:00 p.m.

Monday, September 25

Continental Breakfast / Networking Roundtables
7:30 a.m.-8:30 a.m.

Plenary Session 1: Technological Advances for Modeling Cancer in Mice
Session Chair: Julien Sage, Stanford University School of Medicine, Stanford, California
8:30 a.m.-10:30 a.m.

Genetic dissection of cancer development, therapy response, and resistance in mouse models of breast cancer
Jos Jonkers, Netherlands Cancer Institute, Amsterdam, The Netherlands

Cancer modeling in the CRISPR age
Andrea Ventura, Memorial Sloan Kettering Cancer Center, New York, New York

Quantitative and multiplex analysis of the genomic determinant of tumorigenesis
Monte Winslow, Stanford University School of Medicine, Stanford, California

2 short talks from proffered abstracts

Break
10:30 a.m.-11:00 a.m.
Plenary Session 2: Elucidating Cancer Mechanisms Using Mouse Models  
*Session Chair: Karen M. Cichowski, Brigham & Women’s Hospital, Boston, Massachusetts*
11:00 a.m.-1:00 p.m.

Title to be announced  
Anton J.M. Berns, Netherlands Cancer Institute, Amsterdam, The Netherlands

Title to be announced  
Laura D. Attardi, Stanford University School of Medicine, Stanford, California

**Somatic versus germline p53 mutations show differences in tumor evolution**  
Guillermina Lozano, The University of Texas MD Anderson Cancer Center, Houston, Texas

2 short talks from proffered abstracts

**Poster Session A / Lunch**  
1:15 p.m.-3:30 p.m.

Plenary Session 3: Modeling the Tumor Microenvironment  
*Session Chair: Kwok-Kin Wong, New York University (NYU) Langone Medical Center, New York, New York*  
4:00 p.m.-6:00 p.m.

**Tumor microenvironment: Stroma-tumor cell signaling defined by a cross-species approach**  
Gustavo W. Leone, Medical University of South Carolina Hollings Cancer Center, Charleston, South Carolina

**Metabolic recycling in cancer**  
Marcia Haigis, Harvard Medical School, Boston, Massachusetts

**Evaluation of the microenvironment in anti-tumor immune responses**  
Marcus W. Bosenberg, Yale University School of Medicine, New Haven, Connecticut

2 short talks from proffered abstracts

**Tuesday, September 26**

Continental Breakfast / Networking Roundtables  
7:30 a.m.-8:30 a.m.

Plenary Session 4: Stem Cells and Developmental Pathways in Cancer  
*Session Chair: Michael M. Shen, Columbia University College of Physicians & Surgeons, New York, New York*  
8:30 a.m.-10:30 a.m.

**Lessons from modeling neural tumors in mice**  
Luis F. Parada, Memorial Sloan Kettering Cancer Center, New York, New York

**Intratumoral heterogeneity in small cell lung cancer development and response to treatment**  
Julien Sage, Stanford University School of Medicine, Stanford, California

**Image-based mapping of cancer heterogeneity and therapy resistance**  
Tannishtha Reya, University of California San Diego, La Jolla, California

2 short talks from proffered abstracts
Break
10:30 a.m.-11:00 a.m.

Plenary Session 5: Genetics, Genomics, and Systems Biology
Session Chair: Monte M. Winslow, Stanford University School of Medicine, Stanford, California
11:00 a.m.-1:00 p.m.

Normal and cancer stem cells in multistage carcinogenesis
Allan Balmain, UCSF Helen Diller Family Comprehensive Cancer Center, San Francisco, California

Of mice and men: Using systems biology approaches to study human cancer
Cory Abate-Shen, Columbia University Medical Center, Herbert Irving Comprehensive Cancer Center, New York, New York

Allele-specific oncogenic properties of K-Ras
Kevin M. Haigis, Beth Israel Deaconess Medical Center, Boston, Massachusetts

2 short talks from proffered abstracts

Lunch on Own
1:00 p.m.-2:30 p.m.

Plenary Session 6: Beyond Genetically Engineered Mouse Models
Session Chair: Guillermina Lozano, The University of Texas MD Anderson Cancer Center, Houston, Texas
2:30 p.m.-4:30 p.m.

Title to be announced
David A. Tuveson, Cold Spring Harbor Laboratory Cancer Center, Cold Spring Harbor, New York

Organoid models of bladder cancer
Michael M. Shen, Columbia University College of Physicians & Surgeons, New York, New York

Title to be announced
Pier Paolo Pandolfi, Beth Israel Deaconess Medical Center, Boston, Massachusetts

2 short talks from proffered abstracts

Break
5:00 p.m.-5:45 p.m.

Keynote Address
Session Chair: Katerina A. Politi, Yale Cancer Center, New Haven, Connecticut
5:00 p.m.-5:50 p.m.

Title to be announced
Scott W. Lowe, Memorial Sloan Kettering Cancer Center, New York, New York

Poster Session B / Reception
6:00 p.m.-8:30 p.m.
Wednesday, September 27

Continental Breakfast / Networking Roundtables
7:30 a.m.-8:30 a.m.

Plenary Session 7: Targeting the Tumor Microenvironment
Session Chair: Martin McMahon, University of Utah Huntsman Cancer Institute, Salt Lake City, Utah
8:30 a.m.-10:05 a.m.

Lung cancer mouse models for preclinical testing of novel and immune therapies
Kwok-Kin Wong, New York University (NYU) Langone Medical Center, New York, New York

The immune microenvironment in lung cancer: Lessons from mouse models
Katerina A. Politi, Yale Cancer Center, New Haven, Connecticut

Targeting the drug- and immune-privileged sanctuary of pancreas cancer
Sunil R. Hingorani, Fred Hutchinson Cancer Research Center, Seattle, Washington

Break
10:00 a.m.-10:15 a.m.

Plenary Session 8: Using Mouse Models to Study Drug Resistance
Session Chair: Marcus W. Bosenberg, Yale University School of Medicine, New Haven, Connecticut
10:15 a.m.-12:15 p.m.

Title to be announced
Michael T. Hemann, David H. Koch Institute for Integrative Cancer Research at MIT, Boston, Massachusetts

Title to be announced
Kevin M. Shannon, University of California San Francisco, San Francisco, California

A new mouse model to visualize BRAF\textsubscript{v600E}-induced tumorigenesis
Martin McMahon, University of Utah Huntsman Cancer Institute, Salt Lake City, Utah

Title to be announced
Karen M. Cichowski, Brigham & Women's Hospital, Boston, Massachusetts

Meeting Summary
12:15 p.m.-1:00 p.m.

Closing Remarks
Julien Sage, Stanford University School of Medicine, Stanford, California

Departure
1:00 p.m.