

An AACR Special Conference

## Targeting PI3K/mTOR Signaling in Cancer

February 24-27, 2011

Hyatt Regency San Francisco

San Francisco, California

### Thursday, February 24

**7:00 p.m.-8:00 p.m.      Keynote Address**

*Chairperson: Lewis C. Cantley, Beth Israel Deaconess Medical Center, Boston, MA*

**Targeting PI3K/mTOR in breast cancer**

José Baselga, Massachusetts General Hospital, Charlestown, MA

**8:00 p.m.-9:30 p.m.      Reception**

### Friday, February 25

**7:00 a.m.-8:00 a.m.      Continental Breakfast**

**8:00 a.m.-10:15 a.m.      Session 1  
PI3K/mTOR Signaling**

*Chairperson: Lewis C. Cantley, Beth Israel Deaconess Medical Center, Boston, MA*

**PI3-kinase and cancer cell metabolism**

Lewis C. Cantley

**Direct and indirect actions of PI3K in cancer**

Bart Vanhaesebroeck, Queen Mary University of London Institute of Cancer, London, United Kingdom

**Growth control by the mTOR pathway**

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

**The TSC-mTOR pathway regulates metabolism downstream of PI3K**

Brendan D. Manning, Harvard School of Public Health, Boston, MA

**The regulation of the transcription factor SREBP by the Akt/mTORC1 pathway and hypoxia\***

Caroline A. Lewis, CRUK London Research Institute, London, United Kingdom

\*Indicates proffered presentations from selected abstracts

**10:15 a.m.-10:45 a.m. Break**

**10:45 a.m.-1:00 p.m. Session 2**

**PI3K Pathway Aberrations in Human Cancer**

*Chairperson: Gordon B. Mills, University of Texas MD Anderson Cancer Center, Houston, TX*

**Strategies for targeting the PI3K pathway when employing combination therapies**

Jeffrey A. Engelman, Massachusetts General Hospital, Charlestown, MA

**Panning for PI3K pathway gold in the cancer genome: A tale of modern 49ers**

Ramon Parsons, Columbia University, Manhasset, NY

**PI3K signaling and therapeutic response in gliomas**

Eric C. Holland, Memorial Sloan-Kettering Cancer Center, New York, NY

**Signaling feedback upon inhibition of PI3K: Implications for clinical trials**

Carlos L. Arteaga, Vanderbilt-Ingram Cancer Center, Nashville, TN

**Identification of PHLPP as a tumor suppressor reveals the role of feedback compensation in PTEN-mutant prostate cancer progression and therapy\***

Lloyd C. Trotman, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY

**1:00 p.m.-4:00 p.m. Poster Session A/Lunch**

**4:00 p.m.-6:15 p.m. Session 3**

**Development of Novel PI3K/mTOR Pathway Inhibitors**

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

**Chemical genetic investigations of protein and lipid kinase signaling**

Kevan Shokat, University of California, San Francisco, CA

**The development of PI3K and mTOR inhibitors in cancer**

William R. Sellers, Novartis Institutes for BioMedical Research, Cambridge, MA

**Targeting the PI3K-mTOR pathway with cancer therapeutics: More or less**

Robert T. Abraham, Pfizer Biopharmaceuticals, Pearl River, NY

**GSK2126458: A potent inhibitor of PI3K and mTOR**

Joel Greshock, GlaxoSmithKline, Collegeville, PA

**INK1117: A potent and orally efficacious PI3K $\alpha$ -selective inhibitor for the treatment of cancer\***

Yi Liu, Intellikine, Inc., La Jolla, CA

**6:15 p.m. Dinner On Own/Evening Off**

\*Indicates proffered presentations from selected abstracts

## Saturday, February 26

**7:00 a.m.-8:00 a.m. Continental Breakfast**

**8:00 a.m.-10:00 a.m. Session 4**

### **Targeting mTOR**

*Chairperson: Funda Meric-Bernstam, University of Texas MD Anderson Cancer Center, Houston, TX*

#### **Determinants of rapamycin resistance**

Funda Meric-Bernstam

#### **Translating the PI3K/mTOR pathway and translational control to radiation therapy**

Robert J. Schneider, New York University Cancer Institute, New York, NY

#### **Pharmacology of AZD8055, a selective mTOR kinase inhibitor**

Sylvie M. Guichard, AstraZeneca R&D, Macclesfield, United Kingdom

Title to be announced

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

**10:00 a.m.-10:30 a.m. Break**

**10:30 a.m.-12:00 p.m. Session 5**

### **Late-Breaking Research/Hot Topics**

*Co-Chairpersons: Lewis C. Cantley, Beth Israel Deaconess Medical Center, Boston, MA, and David M. Sabatini, Whitehead Institute for Biomedical Research, Cambridge, MA*

#### **IKK-dependent phosphorylation and feedback inhibition of PI3K promotes nutrient deprivation-induced autophagy\***

William C. Comb, University of North Carolina, Chapel Hill, NC

#### **Identification of STAT3 as a necessary component of PI3K-mediated oncogenic transformation\***

Jonathan Ross Hart, The Scripps Research Institute, La Jolla, CA

#### **Specific amino acid substitutions in mutant KRAS differentially regulate PI3K signaling and predict patient survival and response to targeted therapy\***

Nathan T. Ihle, University of Texas MD Anderson Cancer Center, Houston, TX

#### **Proliferation in response to the PI3K/Akt pathway is suppressed by activation of p57Kip2\***

Devin T. Worster, Harvard Medical School, Boston, MA

#### **PHLPP phosphatase regulation of growth factor receptor signaling\***

Matt J. Niederst, University of California, San Diego, La Jolla, CA

\*Indicates proffered presentations from selected abstracts

**mTORC1 is an important downstream mediator of WNT signaling activation in the intestinal epithelium\***

William J. Faller, Beatson Institute for Cancer Research, Glasgow, United Kingdom

**Autophagy suppression promotes apoptotic cell death in response to inhibition of the PI3K-mTOR pathway in pancreatic adenocarcinoma\***

Olga K. Mirzoeva, University of California, San Francisco, CA

**12:00 p.m.-2:00 p.m. Lunch On Own**

**2:00 p.m.-4:30 p.m. Session 6  
PI3K/mTOR Signaling**

*Chairperson: Pier Paolo Pandolfi, Beth Israel Deaconess Medical Center, Boston, MA*

Title to be announced  
Pier Paolo Pandolfi

**ATM signaling to TSC2 in the cytoplasm: The secret life of a DNA repair protein**

Cheryl Lyn Walker, University of Texas MD Anderson Cancer Center, Smithville, TX

**The phosphorylation tightrope: Balancing kinase and phosphatase activities in cancer**

Alexandra Newton, University of California, San Diego, La Jolla, CA

**Targeting PI3K in cancer: Mechanistic insights from genetic mouse models**

Jean J. Zhao, Dana-Farber Cancer Institute, Boston, MA

**Pharmacogenetic targeting of the translational machinery downstream of oncogenic mTOR signaling**

Davide Ruggero, UCSF Helen Diller Family Comprehensive Cancer Center, San Francisco, CA

**4:30 p.m.-7:30 p.m. Dinner on Own**

**7:30 p.m.-10:00 p.m. Poster Session B/Reception**

## Sunday, February 27

**7:00 a.m.-8:00 a.m. Continental Breakfast**

**8:00 a.m.-9:30 a.m. Session 7  
Novel PI3K/mTOR Pathway Inhibitors in Clinical Trials I**

*Chairperson: Funda Meric-Bernstam, University of Texas MD Anderson Cancer Center, Houston, TX*

**Molecular marker-based clinical trial designs to target the PI3K pathway**

Ana M. Gonzalez-Angulo, University of Texas MD Anderson Cancer Center, Houston, TX

**Overcoming challenges to targeting the PI3K pathway in cancer**

Gordon B. Mills, University of Texas MD Anderson Cancer Center, Houston, TX

**Clinical development of MK-2206: A potent oral allosteric AKT inhibitor**

Li Yan, Merck & Co., North Wales, PA

**9:30 a.m.-10:00 a.m. Break**

**10:00 a.m.-11:45 a.m. Session 8  
Novel PI3K/mTOR Pathway Inhibitors in Clinical Trials II**

*Chairperson: Funda Meric-Bernstam, University of Texas MD Anderson Cancer Center, Houston, TX*

**Targeting the PI3K/AKT/mTOR pathway in the clinic: Early results from the PREDICT program**

Razelle Kurzrock, University of Texas MD Anderson Cancer Center, Houston, TX

Title to be announced

Mark R. Lackner, Genentech, Inc., South San Francisco, CA

**Clinical development of PI3K/mTOR pathway inhibitors, SAR245408 (XL147) and SAR245409 (XL765)**

Joanne J. Lager, sanofi-aventis, Cambridge, MA

**Biological effects of metformin in early stage breast cancer\***

Ryan J.O. Dowling, Ontario Cancer Institute, University Health Network, Toronto, ON, Canada

**11:45 a.m. Departure**

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