FRIDAY, NOVEMBER 30

6:00 p.m.-7:00 p.m. OPENING KEYNOTE SESSION

Harbor Ballroom II and III

Welcome remarks and keynote introduction

Lewis C. Cantley, Cornell Medical College, New York-Presbyterian Hospital,

New York, NY

PI3Kinase inhibitors: Challenges and lessons learned in clinical development

Samit Hirawat, Novartis, East Hanover, NJ

(not eligible for CME credit)

7:00 p.m.-9:00 p.m. WELCOME RECEPTION

Harbor Ballroom I

SATURDAY, DECEMBER 1

7:30 a.m.-8:30 a.m. CONTINENTAL BREAKFAST

Harbor Ballroom I

8:30 a.m.-10:00 a.m. PLENARY SESSION 1: BIOLOGY OF THE PI3K/MTOR PATHWAY

Harbor Ballroom II and III

Session Chair: David M. Sabatini, Whitehead Institute for Biomedical Research,

Cambridge, MA

8:30 a.m.-9:00 a.m. The PI3K-mTOR signaling network and tumor cell metabolism

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

9:00 a.m.-9:30 a.m. Regulation of growth by the mTOR pathway

David M. Sabatini

9:30 a.m.-10:00 a.m. Stroma-driven resistance to PI3K/mTOR inhibition

Taru E. Muranen, Beth Israel Deaconess Medical Center, Boston, MA

10:00 a.m.-10:30 a.m. BREAK

Harbor Ballroom Foyer

CONFERENCE PROGRAM

10:30 a.m12:15 p.m.	PLENARY SESSION 2: AUTOPHAGY AND METABOLISM Harbor Ballroom II and III
	Session Chair: Eileen P. White, Rutgers Cancer Institute of New Jersey, New Brunswick, NJ
10:30 a.m11:00 a.m.	Autophagy and cancer metabolism Eileen P. White
11:00 a.m11:30 a.m.	Identifying metabolic dependencies in pancreatic cancer Alec C. Kimmelman, New York University Langone Medical Center, New York, NY
11:30 a.m12:00 p.m.	Pooled CRISPR screens for novel autophagy-related factors identify TMEM41, an ER-resident protein predicted to be a channel Vlad Denic, Harvard University, Cambridge, MA
12:00 p.m12:15 p.m.	Phosphorylation of DEPDC5 by the Pim-1 protein kinase, a cancer driver, stimulates mTORC1 activity by regulating the DEPDC5-Rag GTPase interaction* Sathish Padi, University of Arizona Cancer Center, The University of Arizona, Tucson, AZ
12:15 p.m2:30 p.m.	FREE TIME (LUNCH ON OWN)
2:30 p.m4:15 p.m.	PLENARY SESSION 3: STRUCTURAL BIOLOGY Harbor Ballroom II and III
	Session Chair: Roger L. Williams, MRC Laboratory of Molecular Biology, Cambridge, MA
2:30 p.m3:00 p.m.	Control of PIP3 levels by PI3K α and PTEN L. Mario Amzel, Johns Hopkins University School of Medicine, Baltimore, MD
3:00 p.m3:30 p.m.	Structure and dynamics of Rag heterodimers in a complex with mTORC1 Roger L. Williams
3:30 p.m3:45 p.m.	Structural and functional analyses of GATOR1, a negative regulator of the mTORC1 pathway* Kuang Shen, Whitehead Institute for Biomedical Research, Cambridge, MA
3:45 p.m4:00 p.m.	Selective degradation of mutant PIK3CA promotes increased mutant specificity in a subset of PI3K ATP-competitive inhibitors* Nicholas Endres, Genentech, South San Francisco, CA
4:00 p.m4:15 p.m.	4EBP1 reactivation by potent and selective bisteric inhibitors of mTORC1* Nidhi Tibrewal, Revolution Medicines, Redwood City, CA
4:30 p.m6:30 p.m.	POSTER SESSION A / RECEPTION Harbor Ballroom I

^{*}Short talk from proffered abstract

SUNDAY, DECEMBER 2

7:00 a.m8:00 a.m.	CONTINENTAL BREAKFAST Harbor Ballroom I
8:00 a.m9:45 a.m.	PLENARY SESSION 4: TRANSLATIONAL CONTROL OF CANCER Harbor Ballroom II and III
	Session Chair: Davide Ruggerio, University of California, San Francisco Helen Diller Family Comprehensive Cancer Center, San Francisco, CA
8:00 a.m8:30 a.m.	Translating the cancer genome one codon at a time and its therapeutic implications Davide Ruggero
8:30 a.m9:00 a.m.	Coordination of mRNA processing, translation, and metabolism by mTORC1 John Blenis, Weill Cornell Medical College, New York, NY
9:00 a.m9:30 a.m.	An mTOR/eIF4E-independent translation mechanism promotes breast cancer metastasis Robert J. Schneider, New York University School of Medicine, New York, NY
9:30 a.m9:45 a.m.	Regulation of mRNA N6-adenosine methylation by the mTOR signaling* Gina Lee, Weill Cornell Medicine, New York, NY
9:45 a.m10:15 a.m.	BREAK Harbor Ballroom Foyer
10:15 a.m12:00 p.m.	PLENARY SESSION 5: IMMUNOLOGY Harbor Ballroom II and III
	Session Chair: Jonathan D. Powell, Johns Hopkins Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD
10:15 a.m10:45 a.m.	mTOR as a central regulator of T-cell activation , differentiation, and function Jonathan D. Powell
10:45 a.m11:15 a.m.	Title to be announced Douglas R. Green, St. Jude Children's Research Hospital, Memphis, TN
11:15 a.m11:45 a.m.	Role of PI3K signaling in T cell-mediated immune responses

Laurence A. Turka, Rheos Medicines, Cambridge, MA

Christina Spevak, NYU Health, New York, NY

Developmentally regulated mTOR degradation in normal and malignant

11:45 a.m.-12:00 p.m.

hematopoiesis*

^{*}Short talk from proffered abstract

CONFERENCE PROGRAM

12:00 p.m.-2:15 p.m. POSTER SESSION B / LUNCH

Harbor Ballroom I

2:15 p.m.-4:30 p.m. PLENARY SESSION 6: PI3K/MTOR IN LIQUID TUMORS AND IMMUNITY

Harbor Ballroom II and III

Session Chair: Kira Gritsman, Albert Einstein College of Medicine, New York, NY

2:15 p.m.-2:45 p.m. Strategies to target the mTORC1/elF4F axis in B-cell leukemia and lymphoma

David A. Fruman, University of California, Irvine, Irvine, CA

2:45 p.m.-3:15 p.m. The PI3 isoforms in myeloid leukemia and hematopoietic stem cells

Kira Gritsman

3:15 p.m.-3:45 p.m. Pl3Kgamma control of antitumor immunity

Judith A. Varner, UCSD Moores Cancer Center, La Jolla, CA

3:45 p.m.-4:00 p.m. Pancreatic ductal adenocarcinoma requires PI3Kalpha activity to accelerate

circulating DNA-positive metastatic disease*

Julie Guillermet-Guibert, Inserm, Cancer Research Center of Toulouse,

Toulouse, France

4:00 p.m.-4:15 p.m. AKT mutant allele-specific activation dictates pharmacologic sensitivities*

Tripti Shrestha Bhattarai, Memorial Sloan Kettering Cancer Center, New York, NY

4:15 p.m.-4:30 p.m. Targeting glutamine addiction of PIK3CA mutant colorectal cancers: From

preclinical models to clinical trials*

Zhenghe (John) Wang, Case Western Reserve University, Cleveland, OH

MONDAY, DECEMBER 3

7:00 a.m.-8:00 a.m. CONTINENTAL BREAKFAST

Harbor Ballroom I

8:00 a.m.-10:00 a.m. PLENARY SESSION 7: PRECLINICAL MODELS FOR DRUG DEVELOPMENT

Harbor Ballroom II and III

Session Chair: Jean J. Zhao, Dana-Farber Cancer Institute, Harvard Medical School,

Boston, MA

8:00 a.m.-8:30 a.m. Integrating immunotherapy and targeted therapy in cancer: From mouse models

to human therapy

Jean J. Zhao

8:30 a.m.-9:00 a.m. Title to be announced

Pier Paolo Pandolfi, Beth Israel Deaconess Medical Center, Boston, MA

^{*}Short talk from proffered abstract

CONFERENCE PROGRAM

9:00 a.m.-9:30 a.m. Enhancing responses to targeted therapies through metabolic intervention

Lewis C. Cantley, Meyer Cancer Center, Weill Cornell Medical College, New York-

Presbyterian Hospital, New York, NY

9:30 a.m.-10:00 a.m. PI3K inhibitors as a backbone for combination treatments for breast and

ovarian cancer

Gerburg M. Wulf, Beth Israel Deaconess Medical Center, Boston, MA

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

Harbor Ballroom Foyer

10:15 a.m.-12:00 p.m. PLENARY SESSION 8: TRANSLATION TO THE CLINIC

Harbor Ballroom II and III

Session Chair: Lori S. Friedman, Genentech, Inc., South San Francisco, CA

10:15 a.m.-10:45 a.m. AKTing to PIK the right patients

Lori S. Friedman

10:45 a.m.-11:15 a.m. Development of PI3K inhibitors in breast cancer

Cynthia X. Ma, Washington University Siteman Cancer Center, St. Louis, MO

11:15 a.m.-11:45 a.m. Reprogramming tumor-associated macrophages by targeting PI3K-gamma

with IPI-549

Jeffery L. Kutok, Infinity Pharmaceuticals, Cambridge, MA

11:45 a.m.-12:00 p.m. PIK3CA mutations in plasma cell-free DNA predict survival and treatment

outcomes in patients with advanced cancers*

Ecaterina Ileana Dumbrava, The University of Texas MD Anderson Cancer Center,

Houston, TX

12:00 p.m. CLOSING REMARKS / DISCUSSION

^{*}Short talk from proffered abstract