

# KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

## Tumor Metabolism (A5)

January 21-25, 2018 • Snowbird Resort • Snowbird, Utah, USA

Scientific Organizers: Heather Christofk, Christian Metallo and Alec Kimmelman

Supported by the Directors' Fund

Abstract & Scholarship Deadline: September 26, 2017 / Abstract Deadline: October 24, 2017 / Discounted Registration Deadline: November 27, 2017

### SUNDAY, JANUARY 21

#### Arrival and Registration

### MONDAY, JANUARY 22

#### Welcome and Keynote Address

**Karen H. Vousden**, Crick Institute, UK  
*Cancer Adaptation to Metabolic Stress*

#### Mitochondrial Impact on Cancer Metabolism

**Navdeep S. Chandel**, Northwestern University, USA  
*Mitochondria as Signaling Organelles*

**Kathryn E. Wellen**, University of Pennsylvania, USA  
*Acetyl CoA at the Intersection of Metabolism and Epigenetics*

**Jared Rutter**, University of Utah, USA  
*Annotating the Mitochondrial Proteome*

**Short Talk(s) Chosen from Abstracts**

#### Workshop 1: Newcomers

**Short Talks Chosen from Abstracts**

#### Metabolic Drivers of Tumor Growth

**David M. Sabatini**, Whitehead Institute for Biomedical Research, USA  
*Genetic Screens for Studying Cancer Metabolism*

**Daniel K. Nomura**, University of California, Berkeley, USA  
*Mapping Metabolic Drivers of Cancer Using Chemoproteomic and Metabolomic Platforms*

**Heather Christofk**, University of California, Los Angeles, USA  
*Metabolic Drivers of Cancer Proliferation: Lessons Learned from Viruses*

**Short Talk Chosen from Abstracts**

#### Poster Session 1

### TUESDAY, JANUARY 23

#### Oncogenic Control of Cancer Metabolism

**Lewis C. Cantley**, Weill Cornell Medicine, USA  
*PI3K and Cancer Metabolism*

**Brendan D. Manning**, Harvard School of Public Health, USA  
*The mTOR Network and Control of Anabolic Tumor Metabolism*

**Reuben J. Shaw**, The Salk Institute for Biological Studies, USA  
*The LKB1/AMPK Signaling Axis in Cancer*

**Chi Van Dang**, University of Pennsylvania, USA  
*A Time for MYC and Metabolism*

**Short Talk(s) Chosen from Abstracts**

#### Modeling the Complexities of Tumor Metabolism

**Ralph J. DeBerardinis**, University of Texas Southwestern Medical Center, USA  
*Metabolic Complexity in Cancer Cells and Tumors*

**Eyal Gottlieb**, Technion Integrated Cancer Center, Israel  
*New Metabolic Networks in FH-Deficient Tumors*

**Christian Metallo**, University of California, San Diego, USA  
*Understanding and Exploiting Metabolic Flexibility in Human Cells*  
**Short Talk Chosen from Abstracts**

#### Poster Session 2

### WEDNESDAY, JANUARY 24

#### Metabolic Scavenging and the Tumor Microenvironment

**Eileen P. White**, Rutgers University, USA  
*Inhibiting Autophagy as a Cancer Therapy*

**Jorge Moscat**, Sanford Burnham Prebys Institute, USA  
*p62: Metabolism and the Tumor Microenvironment*

**M. Celeste Simon**, University of Pennsylvania, USA  
*HIFs and Metabolic Adaptions in Renal Cancer*

**Alec Kimmelman**, NYU Langone Medical Center, USA  
*Identifying Metabolic Dependencies in Pancreatic Cancer*

**Short Talk(s) Chosen from Abstracts**

#### Immunometabolism

**Jeffrey C. Rathmell**, Vanderbilt University, USA  
*Glucose Uptake and Fueling T Cell Immunity*

**Janelle S. Ayres**, The Salk Institute for Biological Studies, USA  
*Innate Immunity: Microbiome Interactions in Cachexia*

**Douglas R. Green**, St. Jude Children's Research Hospital, USA  
*Born Different: Metabolic Maintenance of Asymmetric T Cell Division*

**Short Talk Chosen from Abstracts**

#### Poster Session 3

### THURSDAY, JANUARY 25

#### Targeting Cancer Metabolism

**Kevin Marks**, Agios Pharmaceuticals, USA  
*New Approaches to Target Vulnerabilities in Cancer Metabolism*

**Francesco Parlati**, Calithera Biosciences, USA  
*Anti-Tumor Activity of Glutaminase Inhibitor CB-839 in Solid Tumor Malignancies*

**Susan E. Critchlow**, AstraZeneca, UK  
*New Developments in Targeting Monocarboxylate Transporters*

**Nika N. Danial**, Dana-Farber Cancer Institute, USA  
*Causes and Consequences of Metabolic Fuel Choice in Cancer*

**Short Talk(s) Chosen from Abstracts**

#### Workshop 2: Therapeutic Targeting of Cancer Metabolism

**Short Talks Chosen from Abstracts**

#### Influence of Metabolism on the Epigenome

**Benjamin Tu**, University of Texas Southwestern Medical Center, USA  
*Temporal Dynamics of Gene Expression and Metabolism*

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**Siavash K. Kurdistani**, University of California, Los Angeles, USA

*A Novel Role for Histones in Regulation of Transition Metal Homeostasis*

**Christian Frezza**, Hutchison/MRC Research Centre, UK

*Metabolic Regulation of Epigenetics: Evidence from FH Null Cancers*

**Meeting Wrap-Up: Outcomes and Future Directions (Organizers)**

**FRIDAY, JANUARY 26**

**Departure**