

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