

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Tumor Metabolism (C2)

March 8-12, 2020 • Fairmont Banff Springs • Banff, Alberta, Canada

Scientific Organizers: Joshua D. Rabinowitz, Marcia C. Haigis and David M. Sabatini

Sponsored by Cell Research

Discounted Abstract & Scholarship Deadline: November 6, 2019 / Abstract Deadline: December 10, 2019 / Discounted Registration Deadline: January 9, 2020

SUNDAY, MARCH 8

Arrival and Registration

MONDAY, MARCH 9

Cancer-Immune Interplay

Marcia C. Haigis, Harvard Medical School, USA
The Fight for Food between Immune Cells and Cancer Cells

Jeffrey C. Rathmell, Vanderbilt University, USA
T Cell Metabolism in Cancer Immunotherapy

Jing Fan, University of Wisconsin-Madison, USA
Macrophage Metabolism in the Tumor Microenvironment

Lydia Lynch, Harvard Medical School, USA
Interplay between Obesity, Immune Cells, and Cancer

Erika L. Pearce, Max Planck Institute of Immunobiology and Epigenetics, Germany
The Impact of the Tumor Microenvironment on Immune Cell Mitochondria

Short Talks Chosen from Abstracts

Workshop

Short Talks Chosen from Abstracts

Metabolic Regulation by Kinases

Reuben J. Shaw, The Salk Institute for Biological Studies, USA
Dual Roles of AMPK in Cancer Prevention and Oncogenesis

Brendan D. Manning, Harvard School of Public Health, USA
mTOR Control of Cancer Anabolism

David M. Sabatini, Whitehead Institute for Biomedical Research, USA
mTOR is a Master Metabolic Regulator

Short Talks Chosen from Abstracts

Poster Session 1

TUESDAY, MARCH 10

Metabolic Determinants of Cell Fate

Navdeep S. Chandel, Northwestern University, USA
Redox Metabolism as a Cell Fate Determinant

Lydia Finley, Memorial Sloan Kettering Cancer Center, USA
Metabolic Coordination of Tumor Suppression

Benjamin Tu, University of Texas Southwestern Medical Center, USA
2C Units as Cancer Drivers

Robert T. Abraham, Pfizer Worldwide Research and Development, USA
Reprogramming Cancer through Metabolic Therapies

Short Talks Chosen from Abstracts

Meet the Editors

Amino Acid Metabolism

Karen H. Vousden, Francis Crick Institute, UK
Serine and Glycine as Cancer Drivers

Craig B. Thompson, Memorial Sloan Kettering Cancer Center, USA
Catabolism as a Nutrient Source

Kivanc Birsoy, Rockefeller University, USA
Systematic Approaches to Study Cancer Nutrient Dependencies

Short Talks Chosen from Abstracts

Poster Session 2

WEDNESDAY, MARCH 11

Fuel Sources

Joshua D. Rabinowitz, Princeton University, USA
A Comprehensive Carbon Budget for Cancer

Francesco Parlati, Calithera Biosciences, USA
Anti-Tumor Activity of CB-839 in Solid Tumors

Ralph J. DeBerardinis, University of Texas Southwestern Medical Center, USA
Tracing the Metabolism of Human Lung Tumors

Heather Christofk, University of California, Los Angeles, USA
Metabolic Transitions in Cancer: Lessons from Viral Infection

Short Talks Chosen from Abstracts

Targeting Metabolism

Mariia Yuneva, Francis Crick Institute, UK
Identifying Metabolic Vulnerabilities and Flexibilities of Tumours

Bin-Bing Zhou, Shanghai Jiaotong University School of Medicine, China
De Novo Purine Biosynthesis in Relapsed Acute Lymphoblastic Leukemia

Kevin Marks, Agios Pharmaceuticals, USA
Targeting Metabolic Vulnerabilities in Cancer

Short Talks Chosen from Abstracts

Poster Session 3

THURSDAY, MARCH 12

Tumor-Host Interactions

Eileen P. White, Rutgers University, USA
Role of Host Autophagy in Cancer Progression

Eyal Gottlieb, Technion - Israel Institute of Technology, Israel
Therapeutic Exploitation of Metabolic Vulnerabilities of Cancer

Ayelet Erez, Weizmann Institute of Science, Israel
Arginine and its Metabolites in Carcinogenesis

Matthew G. Vander Heiden, Massachusetts Institute of Technology, USA
Metabolic Interactions between Cancer and Host

Short Talks Chosen from Abstracts

Redox Metabolism

Joan S. Brugge, Harvard Medical School, USA
Why Does Anchorage Independent Growth Cause Redox Stress?

Gina DeNicola, Moffitt Cancer Center, USA
NRF2 in Redox Homeostasis and Metabolism

Jared Rutter, University of Utah, USA
Pyruvate Transport as a Regulator of Redox Status

Short Talk Chosen from Abstracts

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

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FRIDAY, MARCH 13

Departure