

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Tumor Metabolism (B5)

February 24-28, 2019 • Keystone Resort • Keystone, Colorado, USA
Scientific Organizers: Lewis C. Cantley, Karen H. Vousden and Jeffrey A. Engelman
Organized in collaboration with Cancer Research UK

Supported by the Directors' Fund

Abstract & Scholarship Deadline: October 23, 2018 / Abstract Deadline: November 27, 2018 / Discounted Registration Deadline: January 8, 2019

SUNDAY, FEBRUARY 24

Arrival and Registration

MONDAY, FEBRUARY 25

Welcome and Keynote Address

Matthew G. Vander Heiden, Massachusetts Institute of Technology, USA
Metabolic Requirements and Vulnerabilities of Cancer Cells

Cancer Cell Metabolism

Joshua D. Rabinowitz, Princeton University, USA
Folate Metabolism in Cancer

Christian Metallo, University of California, San Diego, USA
Coordinating Flux through Amino Acid and Lipid Metabolism in Cancer

Jeffrey A. Engelman, Novartis Institutes of BioMedical Research, USA
Talk Title to be Announced

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

Short Talk(s) Chosen from Abstracts

Feeding the Cancer

Eileen P. White, Rutgers University, USA
Autophagy

Dafna Bar-Sagi, New York University School of Medicine, USA
Macropinocytosis

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

Short Talk Chosen from Abstracts

Poster Session 1

TUESDAY, FEBRUARY 26

Metabolism and Metastasis

Martin O. Bergo, Karolinska Institutet, Sweden
Antioxidants and Metastasis

Richard White, Memorial Sloan Kettering Cancer Center, USA
A Role for Adipocytes in the Melanoma Microenvironment

Aimee L. Edinger, University of California, Irvine, USA
Starving Cancer Cells to Death by Limiting Nutrient Access

Karen H. Vousden, Crick Institute, UK
p53 in the Regulation of ROS and Metastasis

Short Talk(s) Chosen from Abstracts

The Metabolism of ROS and Survival

Navdeep S. Chandel, Northwestern University, USA
Mitochondrial Metabolism and Cancer

Thales Papagiannakopoulos, New York University School of Medicine, USA
Uncovering Metabolic Bottlenecks in KRAS-Driven Lung Cancer

David A. Tuveson, Cold Spring Harbor Laboratory, USA
ROS and Mitophagy Dependencies in Pancreatic Cancer

Short Talk Chosen from Abstracts

Poster Session 2

WEDNESDAY, FEBRUARY 27

Metabolism Outside the Tumor

Ralph J. DeBerardinis, University of Texas Southwestern Medical Center, USA
Inborn Errors of Metabolism

Katja A. Lamia, The Scripps Research Institute, USA
Connecting Circadian Clocks and Cancer

Vuk Stambolic, Ontario Cancer Institute/University Health Network, Canada
Obesity And Cancer

Tak W. Mak, Campbell Family Institute for Breast Cancer, Canada
Immune Cells

Short Talk(s) Chosen from Abstracts

Metabolic Adaptation and the Response to Therapy

Alec Kimmelman, New York University Langone Medical Center, USA
Metabolic Adaptation in Pancreatic Cancers

Lewis C. Cantley, Weill Cornell Medicine, USA
Enhancing Responses to Targeted Therapies through Metabolic Intervention

Kathryn E. Wellen, University of Pennsylvania, USA
Roles for Acetyl-CoA in Cancers

Short Talk Chosen from Abstracts

Poster Session 3

THURSDAY, FEBRUARY 28

Imaging Cancer Metabolism in vitro and in vivo

Kevin M. Brindle, University of Cambridge, UK
Imaging Tumor Metabolism with Hyperpolarized ¹³C Labeled Metabolites – From Mouse to Man

Josephine Bunch, University of Birmingham, UK
Imaging Tumor Metabolism by Multi-Scale Mass Spectrometry Imaging

Vsevolod V. Belousov, Shemyakin–Ovchinnikov Institute of Bioorganic Chemistry RAS, Russia
Imaging and Manipulating Redox in Cells

Short Talk(s) Chosen from Abstracts

Modeling Cancer Metabolism in vitro

Sarah-Maria Fendt, VIB Leuven, Belgium
Cancer Metabolism Enabling Metastasis Formation

Costas A. Lyssiotis, University of Michigan, USA
Metabolic Networks in the Tumor Microenvironment

Saverio Tardito, Beatson Institute for Cancer Research, Scotland
Better Media

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

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FRIDAY, MARCH 1

Departure