MONDAY, JANUARY 25

Welcoming Remarks and Keynote Address (8am Denver/Mountain Time Start)
* Erik A. Sahai, Francis Crick Institute, UK
* Alec Kimmelman, New York University Langone Medical Center, USA
* Johanna A. Joyce, University of Lausanne, Switzerland

Matthew G. Vander Heiden, Massachusetts Institute of Technology, USA
Impact of Nutrient Availability on Cancer Metabolic Dependencies

Metabolic Effects on the Immune System (8:40am Denver/Mountain Time Start)
* Erik A. Sahai, Francis Crick Institute, UK
* M. Celeste Simon, University of Pennsylvania, USA

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

Siva Karthik Varanasi, The Salk Institute for Biological Studies, USA
Short Talk: Tumor Metabolism Shapes Antigen Presentation and Adaptive Immune Responses

Hilary A. Coller, 275.00
Short Talk: Cancer-Associated Stroma Requires Autophagy to Promote Tumor Growth by Maintaining Melanoma-Associated Fibroblasts and Suppressing Th1-Type Immune Responses

Eline C. Brombacher, 150.00
Short Talk: Activation of Nutrient-Sensor AMPK in Tumor-Associated Dendritic Cells Promotes Tolerogenic Responses and Compromises the Anti-Tumor Immunity

The CNS Microenvironment (10:45am Denver/Mountain Time Start)
* Alec Kimmelman, New York University Langone Medical Center, USA

Frank Winkler, University Hospital Heidelberg, Germany
Brain Tumor Cells Interconnect to a Functional and Resistant Network

Johanna A. Joyce, University of Lausanne, Switzerland
Charting the Immune Landscape across Diverse Brain Cancers

* Michael E. Pacold, New York University Medical Center, USA
Brain Metastasis Adaptation to the Metabolic Niche of the Central Nervous System

Gino Ferraro, Harvard Medical School, Massachusetts General Hospital, USA
Short Talk: Fatty Acid Synthesis is Required for Breast Cancer Brain Metastasis

Meet the Editors (Joint) (2pm Denver/Mountain Time Start)

Ubaldo E. Martinez Outschoorn, Thomas Jefferson University/Frontiers, USA
Stephanie Ailsa Houston, Journal of Experimental Medicine, USA
Lise Roth, European Molecular Biology Organization, Germany
Catarina Sacristán, Cell Press, USA

TUESDAY, JANUARY 26

Metastatic Colonisation (8am Denver/Mountain Time Start)
* Johanna A. Joyce, University of Lausanne, Switzerland
* Ruth Scherz-Shouval, Weizmann Institute of Science, Israel
Sarah-Maria Fendt, VIB-KU Leuven, Belgium
Metabolic Rewiring Boosting Metastasis Formation

Mikala Egeblad, Cold Spring Harbor Laboratory, USA
Activating a Collaborative Innate-Adaptive Immune Response to Restrain Metastasis

Matthew F. Krummel, University of California, San Francisco, USA
Imaging the Tumor Microenvironment in Five Dimensions

Heather Christofk, University of California, Los Angeles, USA
Targeting Cancer Asparagine Dependence

Kevin B. Walsh, 275.00
Short Talk: VEGF Blockade Augments CD8+ T Cell Activity by Amplifying Tumor Hypoxia

The Pancreatic Tumor Microenvironment (10:25am Denver/Mountain Time Start)
* Johanna A. Joyce, University of Lausanne, Switzerland

Lewis C. Cantley, Weill Cornell Medicine, USA
Insulin and Cancer

* Mara H. Sherman, Oregon Health & Science University, USA
Mechanisms and Consequences of Pancreatic Cancer Stromal Evolution

Andrea M. Amitrano, University of Rochester School of Medicine & Dentistry, USA
Short Talk: Regulation of CD8+ T Cell Metabolism and Migration with Optogenetics

Patricia Altea Manzano, 275.00
[NOT AVAILABLE ON DEMAND] Short Talk: Environmental Fatty Acids Support Changes in Histone Acetylation that Promote Breast Cancer Metastasis

Felix Hartmann, 275.00
Short Talk: Single-Cell Metabolic Regulome Profiling of Human Immune Cells in the Tumor Microenvironment

Tanya Schild, 150.00
Short Talk: NADK Regulation by Oncogenic KRAS Signaling is Essential for PDAC

Career Roundtable (Joint) (1pm Denver/Mountain Time Start)

Donita C. Brady, University of Pennsylvania, USA
Matthew G. Vander Heiden, Massachusetts Institute of Technology, USA
Tom Thuren, Novartis Pharmaceuticals, USA

WEDNESDAY, JANUARY 27

Identifying the Metabolic Dependencies of Cancer Cells (8am Denver/Mountain Time Start)
* Erik A. Sahai, Francis Crick Institute, UK

* Session Chair † Invited but not yet accepted  Program current as of September 18, 2021.
For the most up-to-date details, visit https://www.keystonesymposia.org.
Karen H. Vousden, Francis Crick Institute, UK
[NOT AVAILABLE ON DEMAND] Metabolic Control of Invasion and Metastasis

Eileen P. White, Rutgers Cancer Institute of New Jersey, USA
Autophagy and Systemic Metabolism

Navdeep S. Chandel, Northwestern University, USA
Mitochondrial Regulation of Cancer

*Donita C. Brady, University of Pennsylvania, USA
New Sides for an Old Coin: Copper as an Intracellular Mediator of Autophagy via ULK1/2 Kinase Signaling

Therapeutic Targeting of Metabolism and the TME (10:10am Denver/Mountain Time Start)

*Erik A. Sahai, Francis Crick Institute, UK
Evolving Stromal-Immune Axis in Cancer Immunology and Immunotherapy

Shannon J. Turley, Genentech, Inc., USA
Dissecting the Tumor-Immune Metabolic Crosstalk in the Tumor Microenvironment

*Marcia C. Haigis, Harvard Medical School, USA
Interplay between Tissue Fibrosis, Metabolic Reprogramming and Inflammation in Tumor Evolution

Valerie M. Weaver, University of California, San Francisco, USA
Interplay between Tissue Fibrosis, Metabolic Reprogramming and Inflammation in Tumor Evolution

Natalya N. Pavlova, 275.00
Short Talk: Translation in Amino Acid-Poor Environments is Limited by tRNAGln Charging

Thomas Hanigan, 150.00
Short Talk: Small Molecule Inhibition of OXA1L Selectively Kills ZFHX3 Mutant NSCLC from Imbalanced Cytidine Pool Expansion

Arin Aurora, 275.00
Short Talk: Metastasizing Melanoma Cells Exhibit Increased Dependence on the Pentose Phosphate Pathway to Manage Oxidative Stress

Closing Remarks (12pm Denver/Mountain Time Start)

Networking Lounge (12:10pm Denver/Mountain Time Start)