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
Siva Karthik Varanasi, The Salk Institute for Biological Studies, USA
Hilary A. Coller, 275.00
Eline C. Brombacher, 150.00

The CNS Microenvironment (10:45am Denver/Mountain Time Start)
* Alec Kimmelman, New York University Langone Medical Center, USA
Frank Winkler, University Hospital Heidelberg, Germany
Johanna A. Joyce, University of Lausanne, Switzerland
Michael E. Pacold, New York University Medical Center, USA
Gino Ferraro, Harvard Medical School, Massachusetts General Hospital, USA

Meet the Editors (Joint) (2pm Denver/Mountain Time Start)
Ubaldo E. Martinez Outshoorn, 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

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
Mara H. Sherman, Oregon Health & Science University, USA

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
Karen H. Vouuden, 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 viaULK1/2 Kinase Signaling

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

*Erik A. Sahai, Francis Crick Institute, UK
Shannon J. Turley, Genentech, Inc., USA
Evolving Stromal-Immune Axis in Cancer Immunology and Immunotherapy

*Marcia C. Haigis, Harvard Medical School, USA
Dissecting the Tumor-Immune Metabolic Crosstalk in the Tumor Microenvironment

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

Christina Schmidt, 150.00
Short Talk: TRACER, a 3D-Model to Study the Influence of the Microenvironment on the Metabolic Profile of Fumarate Hydratase-Deficient Cells

Metabolic Compartmentalisation (10:15am Denver/Mountain Time Start)

*Ralph J. DeBerardinis, University of Texas Southwestern Medical Center, USA
Compartmentalized Metabolism in Physiological States of Growth

Erika L. Pearce, Johns Hopkins University, USA
Metabolic Regulation of the Immune Metabolism

*Alec Kimmelman, New York University Langone Medical Center, USA
Metabolic Crosstalk in PDAC

Fabricio Loayza-Puch, 275.00
Short Talk: Dual Ribosome Profiling Uncovers Metabolic Limitations in Distinct Cellular Populations of the Tumor Microenvironment

Marina Fukano, Rosalind & Morris Goodman Cancer Research Centre, McGill University, Canada
[NOT AVAILABLE ON DEMAND] Short Talk: Investigating Intra-Tumour Metabolic Heterogeneity in Triple-Negative Breast Cancer

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

Poster Session 1 (1pm Denver/Mountain Time Start)
Poster Session 2 (2pm Denver/Mountain Time Start)

THURSDAY, JANUARY 28

Intercellular Signaling Networks in the TME (8am Denver/Mountain Time Start)

*Karin E. de Visser, Netherlands Cancer Institute, Netherlands
How the Genetic Makeup of Breast Cancer Shapes the Immune Landscape

*Erik A. Sahai, Francis Crick Institute, UK
Towards a Holistic Understanding of Tumor Architecture

Ruth Scherz-Shouval, Weizmann Institute of Science, Israel
Transcriptional Heterogeneity of Cancer-Associated Fibroblasts in the Tumor Microenvironment

Hannah Bell, University of Michigan, USA
Short Talk: Microbiota Metabolic Exchange Is Critical for Colorectal Cancer Redox Homeostasis and Growth

* Session Chair † Invited but not yet accepted     Program current as of September 20, 2021. Meal formats are based on meeting venue. For the most up-to-date details, visit https://www.keystonesymposia.org.