

Plenary session 1

Chair: Massimiliano Mazzone

08:30 - 09:10 Registration & welcome coffee**09:10 - 09:20** Welcome**METABOLISM OF ENDOTHELIAL CELLS****09:20 - 09:55** Metabolic regulation of endothelial growth and proliferation
Michael Potente, *Max Planck Institute for Heart and Lung Research, DE***09:55 - 10:30** Endothelial Metabolism
Zolt Arany, *Perelman School of Medicine, University of Pennsylvania, US***10:30 - 10:45** Selected from abstracts: FOXO1-induced metabolite signaling enforces quiescence in the vascular endothelium (Poster #3)
Jorge Andrade, *Max Planck Institute for Heart and Lung Research, DE***10:45 - 11:15** Coffee break**11:15 - 11:30** Selected from abstracts: Endothelial FoxO1 deficiency prevents obesity-related disorders through increased endothelial glycolysis and vascular growth (Poster #58)
Martina Rudnicki, *York University, CA***11:30 - 12:05** Endothelial control of muscle metabolism
Andreas Fischer, *German Cancer Research Center (DKFZ), DE***12:05 - 12:40** Angiogenesis revisited: Role and (therapeutic) Implications of Endothelial Metabolism
Peter Carmeliet, *VIB-KU Leuven Center for Cancer Biology, BE***12:40 - 13:30** Lunch**13:30 - 14:30** Poster session 1

Plenary session 2

Chair: Sarah-Maria Fendt

METABOLISM OF CANCER CELLS**14:30 - 15:05** Metabolic reprogramming in human tumors *in vivo*
Ralph DeBerardinis, *Children's Medical Center Research Institute at UT Southwestern Medical Center, US***15:05 - 15:40** Metabolic limitations of cancer cell proliferation
Matthew Vander Heiden, *Koch Institute for Integrative Cancer Research, MIT, US***15:40 - 16:15** Glutamate secretion drives exosome release to link mitochondrial metabolism with cell migration and invasion
Jim Norman, *Cancer Research UK- Beatson Institute, UK***16:15 - 16:30** Selected from abstracts: Increased formate overflow is a hallmark of oxidative cancer and promotes invasion (Poster #43)
Johannes Meiser, *Luxembourg Institute of Health, LU***16:30 - 16:35** Sponsored talk: Droplet digital PCR allows for sensitive detection and quantification of (metabolic) oncogenes.
Koen De Gelas, *Regional Sales Specialist droplet digital PCR, Bio-Rad***16:35 - 17:05** Coffee break**17:05 - 17:20** Selected from abstracts: Evidence for an alternative fatty acid desaturation pathway that increases metabolic plasticity in cancer cells (Poster #73)
Kim Vriens, *VIB-KU Leuven Center for Cancer Biology, BE***17:20 - 17:55** Lactate and protons accumulation: consequences but also causes of cancer cell metabolic rewiring
Olivier Feron, *UCLouvain, BE***17:55 - 18:30** p53 and Metabolism: Cancer and Beyond
Karen Vousden, *The Francis Crick Institute, UK***18:30 - 19:15** Network reception (Inclusive for all participants)**20:00** Conference dinner (registration is required)

08:45 - 09:15 Coffee

METABOLISM OF IMMUNE CELLS

- 09:15 - 09:50 Anti-tumor T cells- you are what you eat
Susan Kaech, *Salk Institute for Biological Studies, US*
- 09:50 - 10:25 Acetate acts as an alternative substrate to promote T cell function during glucose restriction
Erika Pearce, *Max Planck Institute Of Immunobiology And Epigenetics, DE*
- 10:25 - 10:40 Selected from abstracts: A defective pentose phosphate pathway reduces inflammatory macrophage responses during hypercholesterolemia (Poster #6)
Jan Van den Bossche, *UMC Amsterdam - VUmc, NL*
- 10:40 - 11:10 Coffee break
- 11:10 - 11:45 Hierarchical control of tumor immunity by myeloid amino acid metabolism
Peter Murray, *Max Planck Institute of Biochemistry, DE*
- 11:45 - 12:20 Regulation of T cell function by one-carbon metabolism
Russell Jones, *Centre for Cancer and Cell Biology, Van Andel Research Institute, US*
- 12:20 - 12:25 Sponsored talk: Bring high resolution, high content imaging to life
Ana Clara Fernandes, *Key Account Manager - Nikon Instruments, BE*
- 12:25 - 13:10 Lunch
- 13:10 - 14:00 Poster session 2

METABOLISM OF CANCER-ASSOCIATED FIBROBLASTS

- 14:00 - 14:35 Cancer associated fibroblast metabolism: role of the pyruvate dehydrogenase
Sara Rossana Zanivan, *Beatson Institute for Cancer Research, UK*
- 14:35 - 15:10 Identifying Metabolic Dependencies in Pancreatic Cancer
Alec Kimmelman, *NYU, Langone Health, US*
- 15:10 - 15:25 Selected from abstracts: Stroma-dependent reactivation of tumor growth from mitochondrial DNA-depleted cancer cells relies on dihydroorotate dehydrogenase. (Poster #55)
Jakub Rohlena, *Institute of Biotechnology, Czech Academy of Sciences, CZ*
- 15:25 - 15:55 Coffee break

OMICS TECHNOLOGIES

- 15:55 - 16:30 Trans-omic analysis of the liver of lean and obese mice during an oral glucose challenge
Shinya Kuroda, *University of Tokyo, JP*
- 16:30 - 17:05 Spatial metabolomics in tissues and single cells
Theodore Alexandrov, *EMBL, DE*
- 17:05 - 17:40 Metabolomics as a hypothesis generator for understanding metabolic regulation
Uwe Sauer, *ETH Zurich, CH*
- 17:40 - 17:50 Closing remarks