Cancer and Metabolism 2018

June 25-27, 2018 Cambridge, UK

Conference Program

Monday, June 25

14:00 – 15:00	Registration	
15:00 – 15:10	Welcome: Eyal, Karen and Christian	
15:10 – 15:40	Matthew Vander Heiden (MIT University, US) Metabolic factors affecting tumor growth	
15:40 – 16:10	Aimee Edinger (UC Irvine, US) Nutrient scavenging and transport in cancer	
16:10 – 16:20	Abcam	
16:20 – 18:30	Poster session I and drinks reception	
Tuesday, June 26		
09:00 – 09:30	Martin Eilers (Würzburg University, Germany) Regulation of protein synthesis prevents MYC-dependent apoptosis in APC-deficient colorectal cancer	
09:30 – 10:00	Tomer Shlomi (Technion Israel Institute of Technology, Israel) Cancer cellular metabolism at a spatio-temporal resolution	
10:00 – 10:15	Christiane Opitz (German Cancer Research Center, DKFZ, Germany) Upregulation of tryptophanyl-tRNA synthethase adapts human cancer cells to nutritional stress caused by tryptophan degradation	
10:15 – 10:30	Christopher J. Halbrook (University of Michigan, US) Targeting metabolic crosstalk to improve therapy in pancreatic cancer	
	Break	
11:00 – 11:30	Karen Vousden (The Francis Crick Institute, UK) p53 pathways and cancer cell metabolism	
11:30 – 12:00	Sarah-Maria Fendt (VIB, Belgium) Cancer metabolism - a driver of metastasis formation	
12:00 – 12:15	Etienne Meylan (Ecole Polytechnique Fédérale de Lausanne, Switzerland) Role of glucose transporter Glut1 in tumor cells and neutrophils in non-small cell lung cancer	
12:15 – 12:30	Hamed Alborzinia (German Cancer Research Center, Germany) MYCN mediates cysteine addiction and sensitizes to ferroptosis	



Lunch and poster viewing

14:00 – 14:30	Ayelet Erez (Weizmann Institute, Israel) The role of amino acid metabolism in carcinogenesis	
14:30 – 15:00	Alexei Vazquez (Beatson Institute, UK) Increased formate overflow is a hallmark of oxidative cancer	
15:00 – 15:15	Francesca R. Auciello (Beatson Institute, UK) A stromal lysolipid-autotaxin signalling axis promotes pancreatic tumour progression	
15:15 – 15:30	Guillermo Burgos Barragan (MRC Laboratory of Molecular Biology, UK) Dissecting the role of endogenous genotoxic formaldehyde in one-carbon metabolism	
	Break	
16:00 – 16:30	Oliver Maddocks (University of Glasgow, UK) (Non) essential amino acid dependencies in cancer	
16:30 – 17:00	Brendan Manning (Harvard University, US) The PI3K-mTORsignaling network and anabolic growth	
17:00 – 17:15	Angela Bonini (University of Hawaii Cancer Center, US) Germline BAP1 mutations impair IP3R3-mediated Ca2+ flux to mitochondria and induce a Warburg effect	
17:15 – 17:30	Zach Schug (The Wistar Institute, US) Expression of oncogenic levels of MYC in human mammary epithelial cells promotes lipid metabolism and calcium signalling	
17:30 – 19:30	Poster session II and drinks reception	
19:30	Conference social	
Wednesday, June 27		
09:00 – 09:30	Christian Frezza (University of Cambridge, UK) Mitochondrial dysfunction and cancer	
09:30 – 10:00	Kathryn Wellen (University of Pennsylvania, US) Acetyl-CoA metabolism and tumorigenesis	
10:00 – 10:15	Daniel Crooks (National Institutes of Health, US) Acute loss of iron–sulfur clusters results in metabolic reprogramming and generation of lipid droplets in mammalian cells	
10:15 – 10:30	Laura Hulea (McGill University, Canada) EIF4F links translation to energy stress response in cancer	
	Break	
11:00 – 11:30	Heather Christofk (UCLA, US) Metabolic transitions in cancer: lessons from viral infection	
11:30 – 12:00	Eyal Gottlieb (Technion Israel Institute of Technology, Israel) Metabolic adaptations of TCA cycle-truncated tumors	
12:00 – 12:15	Michela Menegollo (Department of Biomedical Sciences, University of Padua Italy) Mitochondrial subtypes of luminal breast cancer have different carbon source preference	



12:15 – 12:30	Linoy Mehazri (Bar-llan University, Israel) Fer/FerT support metabolic flexibility in metastatic lung cancer cells
	Lunch
13:30 – 13:45	Daniel Tennant (University of Birmingham, UK) R132H-mutated IDH1 promotes enhanced proline synthesis through PYCR1 to decouple TCA cycle activity from respiration
13:45 – 14:15	Joshua Rabinowitz (Princeton University, US) Metabolic exchange between tissues (and tumors)
14:15	Close

