

**5th Annual Meeting of the International Society of Cancer Metabolism
Bratislava, October 17 - 20, 2018**

METABOLIC ADAPTATIONS AND TARGETS IN CANCER

SCIENTIFIC PROGRAM

Wednesday, October 17, 2018	
15:00 – 17:15	Registration
17:15 – 17:30	Opening session
17:30 – 18:30	KEYNOTE LECTURE Adrian L. HARRIS (<i>University of Oxford, UK</i>) New targetable aspects of cancer metabolism
19:00 – 22:00	Welcome reception with Slovak food specialties and folklore music/dancing exhibition
Thursday, October 18, 2018	
08:30 – 10:15	Session 1 METABOLIC DISORDERS AND CANCER <i>Chairs: Silvia PASTOREKOVA (Biomedical Research Center SAS, Slovakia)</i> <i>Zuzana KOVANICOVA (Comenius University, Slovakia)</i>
08:30 – 09:00	Stephan HERZIG , <i>Institute for Diabetes and Cancer, Helmholtz Center Munich, Germany</i> Lipid metabolism: Linking metabolic dysfunction and cancer
09:00 – 09:30	Jozef UKROPEC , <i>Biomedical Research Center SAS, Slovakia</i> Regular exercise as a powerful tool to improve metabolism and modulate trajectories of chronic diseases including cancer
09:30 – 09:45	Paolo Ettore PORPORATO , <i>University of Torino, Italy</i> Altered iron metabolism promotes cancer cachexia
09:45 – 10:00	Sofia AVNET , <i>Rizzoli Orthopedic Institute, Bologna, Italy</i> The effects of systemic and local acidosis on insulin resistance and signaling
10:00 – 10:15	Eduardo N. MALDONADO , <i>Medical University of South Carolina, USA</i> Modulation of mitochondrial metabolism by statins in cancer cells is not mediated by changes in cholesterol content
10:15 – 10:45	Coffee break
10:45 – 12:00	Session 2 GENETIC, EPIGENETIC AND TRANSCRIPTIONAL ELEMENTS OF CANCER METABOLISM <i>Chairs: Pierre SONVEAUX (University of Louvain, Belgium)</i> <i>Michala Gylling ROLVER (University of Copenhagen, Denmark)</i>
10:45 – 11:15	Georgy SZABADKAI , <i>University College London, The Francis Crick Institute, UK</i> Metabolic adaptation of tumours via transcriptional regulation of mitochondrial biogenesis
11:15 – 11:45	Carlos SEBASTIAN , <i>Candiolo Cancer Institute-IRCC, Italy</i> SIRT6-dependent metabolic reprogramming as a driver of stemness and tumorigenesis
11:45 – 12:00	Thomas W. GRUNT , <i>Medical University of Vienna, Austria</i> Basic cellular regulatory systems: cell signalling, lipid metabolism and epigenetics – how do they cooperate in cancer?
12:00 – 12:15	Slot for General sponsor
12:15 – 14:15	Lunch, poster viewing & meet Professor Adrian L. HARRIS
14:15 – 16:15	Session 3 METABOLIC PLASTICITY IN METASTATIC CASCADE

	<i>Chairs: Lucie BRISSON (University of Tours, France) Cesare SALA (University of Florence, Italy)</i>
14:15 – 14:45	Pierre SONVEAUX , <i>University of Louvain, Belgium</i> Monocarboxylate transporter 1 (MCT1) promotes tumor metastasis independently of its activity as a transporter of lactate
14:45 – 15:15	Elena RAINERO , <i>The University of Sheffield, UK</i> Crosstalk between the remodelling of the extracellular matrix and metabolism in tumour cell invasion and growth
15:15 – 15:45	Paolo CEPPI , <i>Uniklinikum Erlangen, Nikolaus-Fiebiger-Zentrum, Germany</i> Polyol pathway connects glucose metabolism with cancer differentiation and EMT
15:45 – 16:00	Bárbara SOUSA , <i>University of Porto, Portugal</i> P-cadherin promotes anoikis resistance in breast cancer stem cells by stimulating the glycolytic behavior and lowering the oxidative stress
16:00 – 16:15	Yoonseok KAM , <i>Agilent Technologies, USA</i> Real time ATP production rate measurement distinguishing glycolytic and mitochondrial metabolism in EGFR-mutated NSCLC cells
16:15 – 16:45	Coffee break
16:45 – 18:45	Session 4 TUMOR HETEROGENEITY AND METABOLIC CROSS-TALKS <i>Chairs: Paolo Ettore PORPORATO (University of Torino, Italy) Jessica IORIO (University of Florence, Italy)</i>
16:45 – 17:15	Mariia YUNEVA , <i>The Francis Crick Institute, UK</i> Understanding metabolic vulnerabilities and flexibilities of tumours
17:15 – 17:45	Maria SHOSHAN , <i>Karolinska Institute, Stockholm, Sweden</i> Any roles of mitochondria and PGC1 in the chemoresistance and stemness of SKOV-3-R cells?
17:45 – 18:00	Federica GAUDINO , <i>University of Torino, Italy</i> Subcellular NAD ⁺ biosensors to dynamically monitor NAD ⁺ variations in cancer cells
18:00 – 18:15	Angela OTTO , <i>Technical University of Munich, Germany</i> What happens to the “Warburg effect” in limiting glucose and glutamine conditions? - The roles of pyruvate.
18:15 – 18:30	Valery V. KHRAMTSOV , <i>West Virginia University, USA</i> In vivo molecular EPR-based spectroscopy and imaging of metabolic tumor microenvironment and redox: new roles for inorganic phosphate
18:30 – 18:45	Giuseppe TAURINO , <i>University of Parma, Italy</i> Nutritional support of asparaginase-treated acute lymphoblastic leukemia blasts by bone marrow mesenchymal stromal cells
19:00 –	On your own for dinner
19:00 – 21:00	Meeting and dinner of the Board members
Friday, October 19, 2018	
08:30 – 11:00	Session 5 TUMOR ACIDOSIS AND METABOLIC ADAPTATIONS <i>Chairs: Sofia AVNET (Istituto Ortopedico Rizzoli, Italy) Joao SANTIAGO (University of Louvain, Belgium)</i>
08:30 – 09:00	Dario LONGO , <i>University of Torino, Italy</i> MRI-based approaches for imaging tumour acidosis
09:00 – 09:30	Cyril CORBET , <i>University of Louvain, Belgium</i> Blocking the mitochondrial pyruvate carrier to inhibit lactate uptake by cancer cells and induce tumor radiosensitization
09:30 – 10:00	Fatima BALTAZAR , <i>University of Minho, Portugal</i> Monocarboxylate transporters (MCTs) as markers of metabolic adaptations in

10:00 – 10:15	<p>malignant tumors Ivana NOVAK, <i>University of Copenhagen, Denmark</i> Role of proton/potassium pumps in pancreas – from physiology to pancreatic cancer</p>
10:15 – 10:30	<p>Karin BARTEL, <i>Ludwig-Maximilians-University of Munich, Germany</i> From lysosomes to mitochondria - V-ATPase inhibition influences lipid regulation and disturbs mitochondrial function cancer cells</p>
10:30 – 10:45	<p>Holger BECKER, <i>University of Veterinary Medicine Hannover, Germany</i> The proteoglycan-like domain of carbonic anhydrase IX mediates non-catalytic facilitation of lactate transport in cancer cells</p>
10:45 – 11:00	<p>Stine Helene Falsig PEDERSEN, <i>University of Copenhagen, Denmark</i> The acid-base transport proteins NHE1 and NBCn1 regulate cell cycle progression in MCF-7 human luminal breast cancer cells</p>
11:00 – 11:30	Coffee break
11:30 – 13:00	<p>Session 6 CANCER METABOLISM AND IMMUNE RESPONSES <i>Chairs: Georgy SZABADKAI (University College London, The Francis Crick Institute, UK)</i> <i>Preeta ANANTHANARAYANAN (University of Torino, Italy)</i></p>
11:30 – 12:00	<p>Massimiliano MAZZONE, <i>University of Leuven, Belgium</i> Genetic deletion and pharmacological targeting of GLUD1 breaks glutamine competition between macrophage and satellite cells improving muscle regeneration</p>
12:00 – 12:30	<p>Stefano BIFFO, <i>University of Milano, Italy</i> Translational control of lipid synthesis by eIF6 and eIF4E</p>
12:30 – 12:45	<p>Maša ŽDRALEVIĆ, <i>IRCAN Nice, France</i> “Warburg” phenotype of tumor cells depends on both lactate dehydrogenases A and B and its ablation maintains growth by re-activating OXPHOS</p>
12:45 – 13:00	<p>Mikhail M. DIKOV, <i>Ohio State University Medical Center, USA</i> Metabolic tumor and lymph node microenvironment as mediators of immunosuppression in cancer: characterization and modulation</p>
13:00 – 15:00	Lunch, poster viewing & meet Professor Robert J. GILLIES
15:00 – 16:00	ISCaM General Assembly
16:00 – 16:30	Coffee break
16:30 – 19:30	<p>Visit Bratislava:</p> <ul style="list-style-type: none"> ➤ Danubiana modern art gallery ➤ Guided tour to city center ➤ Free program in the city
20:00 – 23:00	Dinner on boat at the Danube river
Saturday, October 20, 2018	
08:30 – 10:30	<p>Session 7 METABOLIC TARGETS IN CANCER THERAPY <i>Chairs: Stine Helene Falsig PEDERSEN (University of Copenhagen, Denmark)</i> <i>Giovanni Monaco (University of Louvain, Belgium)</i></p>
08:30 – 09:00	<p>Rodrigue ROSSIGNOL, <i>Bordeaux University and INSERM Bordeaux, France</i> Targeting the mitochondrial trifunctional protein in oxidative lung carcinomas</p>
09:00 – 09:30	<p>Miguel QUINTELA-FANDINO, <i>CNIO-Spanish National Cancer Research Center, Madrid, Spain</i> Breast cancer metabolic rewiring accounts for acquired resistance against antiangiogenics</p>
09:30 – 09:45	<p>Stephen D. HURSTING, <i>University of North Carolina, USA</i> Starving cancer cells from the outside and inside: separate and combined effects of calorie restriction mimetics and autophagy inhibition on KRAS-driven pancreatic adenocarcinoma</p>

09:45 – 10:00	Angelo de MILITO , <i>Sprint BioScience, Sweden</i> Anticancer therapy with a novel and selective Vps34 inhibitor targeting autophagy and metabolism
10:00 – 10:15	Léopold THABAULT , <i>University of Leuven, Belgium</i> Synthesis and evaluation of inhibitory peptides targeting lactate dehydrogenase (LDH) tetramerization
10:15 – 10:30	Margherita CORTINI , <i>Rizzoli Orthopedic Institute, Bologna, Italy</i> Targeting lipid metabolism as a novel osteosarcoma treatment
10:30 – 11:00	Coffee break
11:00 – 12:00	CLOSING LECTURE Robert J. GILLIES (<i>H.Lee Moffitt Cancer Center, Tampa, FL, USA</i>) Selection of glycolytic phenotype
12:00 – 12:30	Awards and closing remarks
12:30 – 14:00	Lunch
14:00 –	Departure

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