



8:30 – 9:05		Registration
9:05 – 9:15		Opening
SESSION I		chairs: Kateřina Rohlenová and Jan Trka
9:15 – 10:00	Nick van Gestel (UCLouvain, Belgium) <i>Metabolic dependencies and interactions in the leukemic bone marrow niche</i>	
10:00 – 10:25	Kateřina Hložková (CLIP, Second Faculty of Medicine, Charles University, Prague) <i>L-asparaginase by-product glutamate impedes the effect of chemotherapy by augmenting glutathione biosynthesis</i>	
10:25 – 10:45	Petra Hyroššová (Institute of Biotechnology, CAS, Prague) <i>Pyrimidine de novo synthesis in endothelial cells: an overlooked target?</i>	
10:45 – 11:15		Coffee break
11:15 – 11:45	Tomáš Büchler (Motol University Hospital, Prague) <i>Cancer metabolism as a treatment target</i>	
11:45 – 12:05	Dominik Musil (Institute of Organic Chemistry and Biochemistry, CAS, Prague) <i>Targeting myeloid cells and modulation of their function by fully synthetic antibody mimetics</i>	
12:05 – 12:25	Petr Heneberg (Third Faculty of Medicine, Charles University, Prague) <i>Extracellular nicotinamide is dispensable for ovarian cancer cell proliferation</i>	
12:25 – 12:40	Pavel Burda (Institute of Hematology and Blood Transfusion, Prague) <i>Imatinib therapy of chronic myeloid leukemia significantly reduced carnitine intake resulting in adverse event - impaired muscle cell metabolism</i>	
12:45 – 13:30		Lunch
13:30 – 14:15		Moderated Poster walk (chairs: Júlia Starková, Nick van Gestel, Jakub Rohlena)



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SESSION II	
chairs: Tomáš Mráček and Jan Frič	
14:20 – 14:45	<p>Jakub Rohlena (Institute of Biotechnology, CAS, Prague) <i>Canonical de novo synthesis of aspartate is dispensable for tumor growth</i></p>
14:45 – 15:05	<p>Marcela Hortová – Kohoutková (FNUSA-ICRC, Brno) <i>CaN-NFAT controls immunometabolic reprogramming of human monocytes and contributes to immunoparalysis in sepsis</i></p>
15:05 – 15:15	<p>Katarína Smolková (IPHYS CAS, Prague) <i>Mitochondrial bcaa metabolism in pancreatic cancer facilitates mitochondrial import of fatty acids</i></p>
15:15 – 15:45	Coffee break
15:45 – 15:55	<p>Cristian Sandoval-Acuña (Institute of Biotechnology, CAS, Prague) <i>Simultaneous iron chelation and ferroptosis induction as a novel anticancer strategy</i></p>
15:55 – 16:05	<p>Marek Jedlička (Institute of Hematology and Blood Transfusion, Prague) <i>Glutaminase – HIF1α axis in regulation of NK cell cytotoxicity</i></p>
16:05 – 16:15	<p>Jaromír Gumulec (Dept. of Pathological Physiology, Faculty of Medicine, MU, Brno) <i>Unraveling the Metabolic Transformation and Biomechanical Shifts Driving Cancer Progression</i></p>
16:15 – 16:25	<p>Stjepan Uldrijan (Faculty of Medicine, Masaryk University, Brno) <i>New insights into AMPK activity control in malignant melanoma</i></p>
16:25 – 16:30	Closing
18:00 - 23:00	Social Event



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POSTER SESSION	
13:30 - 14:15	
(chronological order)	
Kamila Baslarová	Metabolic changes in breast cancer cells resistant to tamoxifen
Anna Dorotíková	The effect of amino acid deprivation on the growth signaling in malignant melanoma
Vojtěch Charvát	ER-stress as a tool to influence protein arginine methyltransferases in primary clear cell renal carcinomas and nontransformed renal cells
Karolína Janoušková	Modeling genetic aberrations present in relapsed all by crispr/cas9 and their metabolic profile
Lucie Janstová	Bone marrow assembloids – an ultimate three-dimensional model to study hemato-oncologic disorders
Matúš Kolárik	Role of SLC7A11 in L-asparaginase therapy response in acute lymphoblastic leukemia
Kateřina Koždoňová	The essential role of LAMTOR1 in the control of AMPK activity in BRAF-mutated melanoma cells
Kateřina Kuželová	Cell metabolic phenotype and immune escape in acute myeloid leukemia
Ioanna Papatheodorou	Uncovering the interplay between the metabolic and the functional status of innate immune cells
Markéta Pimková Polidarová	STING Agonists Induce Robust Cytokine Secretion And Rapid Monocyte Cell Death in Peripheral Blood Mononuclear Cells
Jan Trnka	Accurate, flexible and low-cost method for normalizing Seahorse XF data to cell number