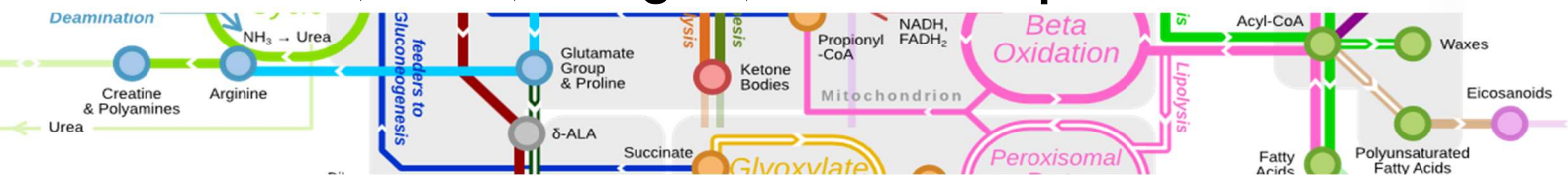


2nd Prague Symposium on Cancer Metabolism

October 20, 2021, Prague, Czech Republic



Scientific program

8:30 – 9:10 – REGISTRATION

9:10 – 9:15 – OPENING (Jan Trka, vice-dean of 2nd Faculty of Medicine, Charles University)

9:15 – 12:25 I. SESSION (chairman: Tomáš Mráček)

9:15 – 10:00 **Daniel A Tennant** (University of Birmingham, UK)

Uncoupling the coupled – finding new mechanisms for cancer cells to thrive in hostile conditions.

10:00 – 10:30 **Kateřina Rohlenová** (Institute of Biotechnology, CAS, Prague)

Endothelial transcriptome plasticity in pathological angiogenesis

10:30-10:45 **Natividad Alquezar Artieda** (2nd Faculty of Medicine, Charles University, Prague)

Biosynthetic pathways implicated in the rescue mechanism of leukemic cells in experimental model simulating in vivo L-asparaginase treatment

10:45-11:05 COFFEE BREAK

11:05 – 11:30 **Petr Heneberg** (3rd Faculty of Medicine, Charles University, Prague)

Glycolysis-independent roles of hexokinase 1 in cancer

11:30 – 11:55 **Kateřina Hložková** (2nd Faculty of Medicine, Charles University, Prague)

Transport of aspartate and glutamate into leukemic cells impedes the effect of chemotherapy treatment

11:55 – 12:25 **Jaroslav Truksa** (Institute of Biotechnology, CAS, Prague)

Targeting mitochondrial iron metabolism: A new approach to treat cancer

12:25 – 13:40 LUNCH

13:40 – 15:30 II. SESSION (chairman: Jakub Rohlena)

13:40 – 14:10 **Jiří Neužil** (Institute of Biotechnology, CAS, Prague)

Horizontal transfer of mitochondria and mitochondrial respiration: Why cancer cells with damaged mitochondrial DNA steal mitochondria from the stroma?

14:10 – 14:35 **Jaromír Gumulec** (Masaryk University, Brno)

Metastatic prostate cancer cell mechanic phenotype associated with OXPHOS increase via mitochondrial network remodelling

14:35 – 15:30 SHORT TALKS

Jan Zelenka (University of Chemistry and Technology, Prague)

Inhibition of mitochondrial metabolism leads to selective eradication of cells adapted to acidic microenvironment

Kristýna Pimková (1st Faculty of Medicine, Charles University, Prague)

Altered redox homeostasis underlie lack of cellular response to azacytidine via protein oxidative modifications

Marcela Hortová Kohoutková (FNUSA-ICRC, Brno)

Calcineurin-NFAT alters the energy metabolism of activated human monocytes

Guillermo Puertas-Frias (Institute of Physiology, CAS, Prague)

Metabolic rewiring in OXPHOS deficient HEK293 cells

15:30-15:45 COFFEE BREAK

15:45-16:30 MODERATED POSTER SESSION (chairman: Daniel A Tennant, Júlia Starková)