

## XXXIV WORKSHOP

### Recent research on mitochondrial carriers in artificial and cellular systems

Thursday, February 27, 2025

Seminar room of Physiology and Biophysics (HA05 P51)

9:00 – 9:05	Opening remarks	Olga Jovanovic
<b>Session I:</b> <b>New methods and recent results in the study of mitochondrial carrier – substrate interactions</b> Chairs: G. Roticiani, J. Kreiter		
9:05 – 9:35 (20 + 10)	New experimental approaches for the investigation of mitochondrial carriers	Jürgen Kreiter
9:35 – 10:05 (20 + 10)	Optimizing mitochondrial carrier synthesis in cell-free systems	Sarah Bardakji
10:05 – 10:35 (20 + 10)	Enhancing the study of membrane proteins with nanodisc technology	Deniz Hofbauer
10:35 – 10:45 (10)	Coffee break	
10:45-11:15 (20 + 10)	Fatty acid sliding in UCP1 is driven by specific amino acid residues as revealed through electrophysiological experiments	Giorgia Roticiani
11:15 – 11:45 (20 + 10)	Comparison of the uncoupling efficiency of 2,4-dinitrophenol in the model of the inner mitochondrial membrane and in the mitoplast	Olga Jovanovic
11:45 – 12:15 (20 + 10)	Molecular dynamics simulations of UCP3-UCP5 proteins	Mario Vazdar UCT Prague
12:15-13:05 (50)	Lunch break	

<b>Session II:</b> <b>The availability and adaptation of mitochondrial carriers to the metabolic needs of the cell</b> Chairs: C. Abobocioae, T. Beikbaghban		
13:05 – 13:35 (20 + 10)	The Role of the Solute Carrier 25 Proteins in Pathologies	Taraneh Beikbaghban
13:35 – 14:05 (20 + 10)	Comparison of Tissue-Specific Effects of a C8/C10 Medium-Chain Fatty Acid supplemented ketogenic diet with Intermittent and Sustained Caloric Restriction in Mice	Felix Sternberg
14:05 – 14:15 (10)	Coffee break	
14:15 – 14:45 (20 + 10)	Topology of The Mitochondrial Inner Membrane Protein LETM1	Clara Abobocioae
14:45 – 15:15 (20 + 10)	Transcriptome analysis of tissue resident macrophages in mouse	Sara Chitgaran
15:15 – 15:45 (20 + 10)	Macrophages tune UCP2 to match their metabolic needs	Jila Nasirzade Rajiri
15:45 – 16:00 (15)	Coffee break	
<b>Invited lecture</b> Chair: Olga Jovanovic		
16:00 – 17:00 (45 + 15)	Unlocking protein function with single-molecule & microfluidic approaches	Georg Krainer University of Graz
17:00	Closing remarks	Elena E. Pohl
17:30	Get together: Restaurant “Dschunke”	

Contact

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