

**XXXI Workshop**  
**Mitochondrial transporters:**  
**What they transport and how they do it.**

**Date**  
28. - 29.09.2023

**Hotel Wachau, Melk**

**Thursday, September 28<sup>th</sup>**

<b>Time</b>	<b>Presenter</b>	<b>Title</b>
09:30 – 10:00	<i>Welcome drinks and snacks</i>	
10:00 – 10:05	<b>Jila Nasirzade</b>	<i>Opening</i>
<b>Session I: Interaction of therapeutical molecules with membranes</b> <i>Chair: Sanja Skulj</i>		
10:05 – 11:00 (40'+15')	<b>Katarina Vazdar</b>	<i>Interaction of membrane-active species with lipid monolayers</i>
11:00 – 11:45 (25'+20')	<b>Olga Jovanovic</b>	<i>Phosphatidylethanolamine attenuates the uncoupling effect of DNP in mitochondria mimicking membranes – updated edition</i>
11:45-12:05 (10'+10')	<b>Alina Pashkovskaya</b>	<i>Interaction of POM14 with liposomes and GUVs</i>
<b>Lunch (12:05 – 13:00 h)</b>		
<b>Session II: Uncoupling protein 1</b> <i>Chair: Kristina Zuna</i>		
13:00 – 13:45 (25'+20')	<b>Sanja Skulj</b>	<i>UCP1 assisted proton transport: fatty acid anion sliding in the cycling hypothesis</i>
13:45 – 14:30 (25'+20')	<b>Giorgia Roticiani</b>	<i>Proton transport activity of uncoupling protein 1 (UCP1): Role of the amino acid residues in the transport of arachidonic acid anions and competitive inhibition by ATP</i>
14:30 – 14:50 (10'+10')	<b>Sarah Bardakji</b>	<i>Cell free protein expression of UCP1</i>
<b>Coffee break and check-in (14:50-15:30)</b>		

<b>Session III: Mitochondrial ion transporters</b> <b>Chair: Taraneh Beikbaghban</b>		
15:30-16:15 (25'+20')	<b>Sami Mohammed</b>	<i>Exploring the pH-dependent gating mechanism of the mammalian mitochondrial Ca<sup>2+</sup>/H<sup>+</sup> exchanger TMBIM5/MICS1</i>
16:15-17:00 (25'+20')	<b>Ashitha Vadassery</b>	<i>LETM1 affects NAD<sup>+</sup>/H metabolism</i>
17:00 – 17:20 (10'+10')	<b>Deniz Hofbauer</b>	<i>Optimization of 2-oxoglutarate/malate carrier (OGC) production in E. coli</i>
17:20 – 18:05 (25'+20')	<b>Kristina Zuna</b>	<i>Is 2-oxoglutarate/malate carrier's N-terminal sequence functionally relevant?</i>
<b>Dinner at Restaurant KOLOMAN Melk (19:00 – 22:00 h)</b>		

**Friday, September 29<sup>th</sup>**

<b>Time</b>	<b>Presenter</b>	<b>Title</b>
07:00 -8:30	<b>Breakfast</b>	
<b>Session IV: Uncoupling protein 2</b> <b>Chair: Felix Sternberg</b>		
08:30 – 09:15 (25'+20')	<b>Jila Nasirzade</b>	<i>Investigation of UCP2 expression in bone marrow derived-macrophages under metabolic challenges</i>
09:15 – 10:00 (25'+20')	<b>Taraneh Beikbaghban</b>	<i>Role of UCP2 in the metabolic flexibility of cancer cells</i>
<b>Coffee break and Checkout (10:00-10:30)</b>		
<b>Session V: Insights into current biophysical topics</b> <b>Chair: Karin Nowikovsky</b>		
10:30 – 11:15 (25'+20')	<b>Felix Sternberg</b>	<i>Medium Chain Triglycerides Mimic the Transcriptional Responses of Fasting in Mouse Brain: Implications for Mitochondrial Biogenesis and Metabolism</i>
11:15 – 12:10 (40'+15')	<b>Mario Vazdar</b>	<i>How do different experimental conditions influence biophysical experiments? A molecular dynamics insight</i>
12:10– 12:15	<b>Elena E. Pohl</b>	<i>Closing remarks</i>
<b>Lunch (12:15 – 13:15 h)</b>		
<b>Stift Melk guided tour (13:55 – 15:30 h)</b>		

## Important info:



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To go: direct train, CJX, 09/28/23, 07:48 am from Westbahnhof

To come back: direct train, CJX, 09/29/23, 04:30 pm (also 05:30) to Westbahnhof



Check in from 14:50 to 15:50 on 28<sup>th</sup> September.

Check out from 10:00 to 10:30 on 29<sup>th</sup> September.



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