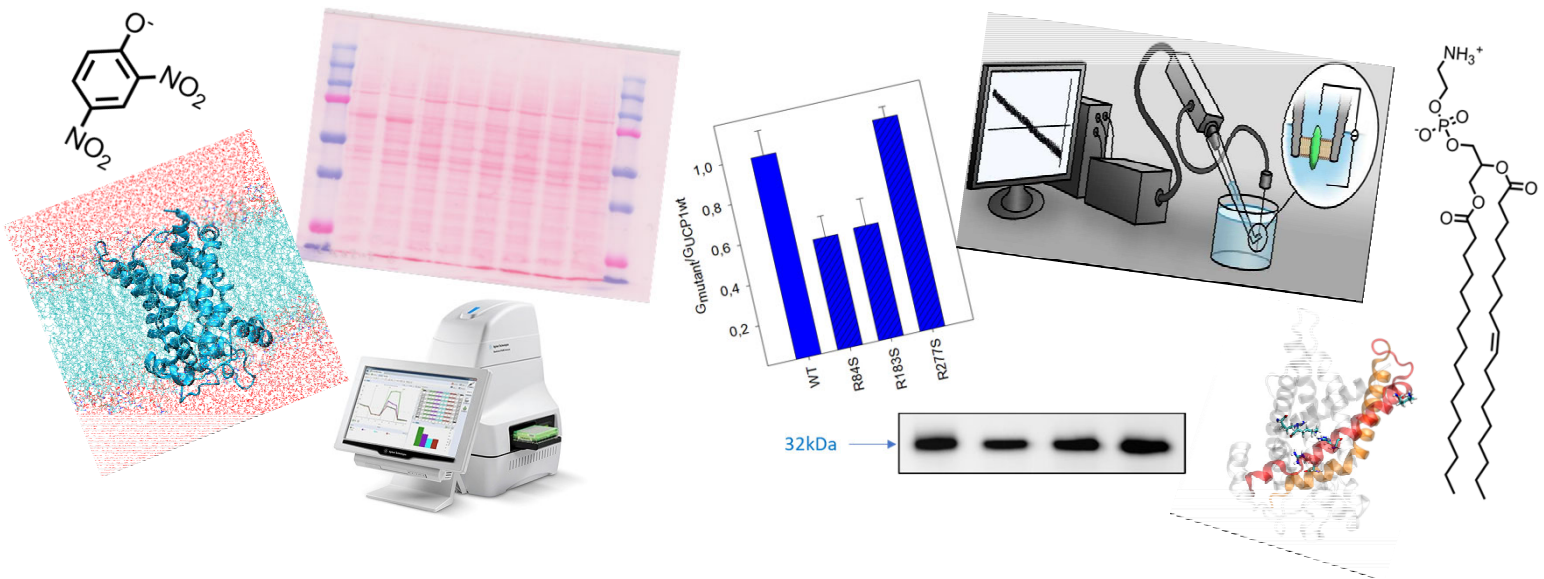


XXXIII Biophysics Workshop

Membranes and Membrane Proteins: New Insights and Methods

Strobl, 23.-25. September 2024



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PROGRAM

Monday, September 23rd

Session 1: Transporters electrophysiology & MD simulations

Chair: Sanja Vojvodić, Giorgia Roticiani

14:00 - 14:05	Sanja Vojvodić	Opening remarks
14:05 - 14:40	Giorgia Roticiani	Role of the amino acid residues in the Uncoupling Protein 1 – mediate proton transport across the inner mitochondrial membrane in the presence of free fatty acid anions
14:40 - 15:15	Simona Krajcovicova	Influence of different fatty acid concentrations and mutated residues of UCP1 on the role and stability of protein in the fatty acid sliding mechanism
15:15 - 15:45	<i>Coffee break</i>	
15:45 - 16:20	Sanja Vojvodić	Critical interactions in SLC25 protein cavities important to protein activity
16:20 - 16:55	Deniz Hofbauer	Improvement of the study of membrane proteins with the nanodisc technology

Tuesday, September 24th

Session 2: Transporters in cell biology

Chair: Jila Nasirzade Rajiri, Julia Arapović

09:00 - 09:45	Jürgen Kreiter	Invited lecture: Structural insights into the biophysical and pharmacological features of the CLC family of chloride channels and transporters
09:45 - 10:20	Julia Arapović	Innovative Mitochondrial Protein Tagging: Challenges, UCP2 und UCP3 Localisation, and Metabolic Regulation
10:20 - 10:45	<i>Coffee break</i>	
10:45 - 11:20	Jila Nasirzade Rajiri	Regulation of Uncoupling Protein 3 in Mouse Tissues Under Lipase Deficiency
11:20 - 11:55	Clara Abobocioae	Functional and kinetic characterization of the human plasma membrane transporter LAT1 (SLC7A5): reconstitution in liposomes of the mutant S66A
11:55 - 12:30	Sami Elamin Mustafa Mohammed	Mutational analysis of the mammalian mitochondrial Ca ²⁺ /H ⁺ exchanger TMBIM5/MICS1

PROGRAM

Wednesday, September 25th

Session 3: Membranes and methods in biophysics

Chair: Sami Elamin Mustafa Mohammed, Olga Jovanović

09:00 - 09:35	Olga Jovanović	Diversity of interactions of 2,4-dinitrophenol with membrane lipids
09:35 - 10:10	Alina Pashkovskaya	Interaction of NPA with membrane lipids, UCP1 and ANT1
10:10 - 10:40	<i>Coffee break</i>	
10:40 - 11:15	Sarah Bardakji	Preparation of S30 <i>E. coli</i> cell extract for the cell-free protein synthesis
11:15 - 11:50	Sara Chitgaran	Profiling of lncRNA expression in patients with colorectal cancer by transcriptome analysis in search for suitable diagnostic marker
11:50 - 12:00	Elena E Pohl	Closing remarks

Important information for location

Bundesinstitut für Erwachsenenbildung (bifeb)

Bürglstein 1-7, A-5360 St. Wolfgang im Salzkammergut



Direct bus connections to Strobl from Salzburg (45 km) or Bad Ischl (12 km) with

Train timetable information: www.oebb.at

Bus timetable information: www.postbus.at

The walking distance between the bifeb and the Strobl bus station is around 10 minutes

A free shuttle service between the bifeb and the Strobl bus station is available from

Monday to Friday between 8:00 a.m. and 3:30 p.m.

