3rd International Plasmalogen Symposium 2023

September 21st to 22nd

Program

Thursday September 21st

08:00 – 08:45	**Opening of Registration and Poster Mounting**	
08:45 – 09:00	**Welcome Address**	
09:00 – 10:30	**1st Session: The fundamental role of plasmalogens in mammalian phyiology**	
	Chair: Johannes Berger and Katrin Watschinger	
	Nancy Braverman	The clinical picture caused by ether lipid deficiency
	Masanori Honsho	Regulation of plasmalogen biosynthesis in mammals
	Irfan Lodhi	Plasmalogens in the regulation of energy homeostasis
10:30 – 11:00	**Coffee Break**	
11:00 – 13:00	**2nd Session: Ether lipid biochemistry and cell biology in mammals**	
	Chair: Irfan Lodhi and Nancy Braverman	
	Serhii Chornyi	Resolution of the role of peroxisomal beta-oxidation and ABC transporters in ether lipid synthesis
	Katrin Watschinger	Biochemistry of plasmanylethanolamine desaturase
	Johannes Berger	The role of plasmanyl and plasmenyl ether phospholipids in brain pathologies
	Kristin Böhlig	Visualization of intracellular ether lipid localization and transport
	Hua Bai	Peroxisomal-derived ether phospholipids regulate mitochondrial dynamics through the recruitment of fission proteins during aging
13:00 – 15:20	**Poster Session with Lunch Buffet**	
15:20 – 16:15	**Lifetime Achievement Award in Plasmalogen Research**	
	Chair: Johannes Berger	
	Raphael A Zoeller	Forward Genetics to Drug Discovery – An Unexpected Journey
16:15	**Departure by bus to dinner location**	
22:30	**Return to Center for Brain Research (Conference Venue)**	

Friday September 22nd

09:00 – 10:30	**3rd Session: The analytical perspective of ether phospholipids**	
	Chair: Yvette Schooneveldt and Yow Keat Tham	
	Markus A. Keller	Elucidating Molecular Characteristics and Tissue-Specificity of Ether Lipids in Plasmalogen-Deficiency
	Jakob Koch	Elucidating plasmanyl and plasmenyl assignment in liquid chromatography and ion mobility separations
	Frédéric M. Vaz	Two new ether lipid classes in relation to Sjogren Larsson syndrome
	Expert Opinion	Quantitative comparison of different lipid (sub)classes (e.g. ethanolamine and choline plasmalogens): Markus A. Keller, Frédéric M. Vaz, Sudip Paul
10:30 – 11: 00	**Coffee Break**	
11:00 – 12:30	**4th Session: Plasmalogen modulaton in human diseases**	
	Chair: Pedro Brites and Markus Keller	
	Sudip Paul	Plasmalogen modulation is a potential therapy for non-alcoholic fatty liver disease
	Yow Keat Tham	Plasmalogen Modulation Attenuates Pathological Cardiac Morphology and Preserves Function in a Mouse Model of Dilated Cardiomyopathy
	Tara Smith	Generation and characterization of an inducible plasmalogen-deficiency animal model of neurodegeneration
	Yvette Schooneveldt	Exploring Ether Lipid Metabolism and Obesity in Large Population Cohorts using Lipid Ratios and GWAS
12:30 – 14:00	**Lunch**	
14:00 – 15:30	**5th Session: Plasmalogens in bacteria and plasmalogen delivery systems**	
	Chair: Shamim Hossain and Serhii Chornyi	
	Howard Goldfine	Plasmalogens in bacteria: Distribution, biosynthesis and function
	Montserrat Elías Arnanz	Plasmalogen biosynthesis in the bacterium Myxococcus xanthus: parallels and variations with the mammalian pathway
	Yuru Deng	Lipids in cubic membranes: a focus on plasmalogen
	Angelina Angelova	Nanoformulation of plasmalogens for applications in nanomedicine
15:30 – 16:00	**Coffee Break**	
16:00 – 17:30	**6th Session The specific role of Plasmalogens in Brain function**	
	Chair: Masanori Honsho and Hua Bai	
	Shamim Hossain	Unlocking the mysteries of plasmalogens: The vital role in boosting brainpower and fighting diseases
	Jinxin Gu	Plasmalogens eliminate aging-associated synaptic defects in mice
	Pedro Brites	The role of plasmalogens on the nervous system
17:30 - 17:40	**Closing Remarks**	
18:30	**Sightseeing through Vienna and "Stadtheuriger" (not included in the Registration Fee)**	