





**9<sup>TH</sup> INTERNATIONAL GRAZ SYMPOSIUM ON LIPID AND MEMBRANE BIOLOGY**  
**APRIL 18-20, 2024 GRAZ, AUSTRIA**

**PROGRAM**

Conference Venue: Medical University of Graz, Aula, Neue Stiftingtalstrasse 6, 8010 Graz

**THURSDAY, April 18, 2024**

12 <sup>00</sup> - 12 <sup>30</sup>	Registration and Mounting of Posters	
12 <sup>30</sup> - 12 <sup>45</sup>	<b>Opening of the Scientific Symposium</b>	
<b>Session 1</b>		Chair: Dagmar Kratky und Michael Trauner
 12 <sup>45</sup> - 13 <sup>30</sup>	Plenary Lecture 1	<b>Erin KERSHAW</b> , Pittsburgh, USA Butyrophilin-like 9 (BTNL9): a versatile molecule linked to lipid homeostasis and cardiometabolic risk
 13 <sup>30</sup> - 14 <sup>15</sup>	Plenary Lecture 2	<b>Luca VALENTI</b> , Milan, Italy Interaction between PNPLA3 I148M variant and ERalpha drives steatotic liver disease susceptibility in women
14 <sup>15</sup> - 14 <sup>35</sup>	Short Talk 1	<b>Matthias ZADORY</b> Development of lipid-based nanoparticles for the management of lysosomal acid lipase deficiency by gene replacement therapy
14 <sup>35</sup> - 15 <sup>05</sup>	<i>Coffee Break</i>	
<b>Session 2</b>		Chair: Franz Radner und Nemanja Vujic
15 <sup>05</sup> - 15 <sup>25</sup>	Short Talk 2	<b>Margarita SCHRATTER</b> Understanding the molecular mechanism of ichthyosis pathogenesis in Chanarin-Dorfman syndrome
15 <sup>25</sup> - 15 <sup>45</sup>	Short Talk 3	<b>Sandra ALOHAN</b> Lipids of the skin: Investigating the metabolism of ultra-long chain triacylglycerol estolides
 15 <sup>45</sup> - 16 <sup>30</sup>	Plenary Lecture 3	<b>Judith FISCHER</b> , Freiburg, Germany Exploring the intersection of inherited skin diseases and lipid metabolism: insights from known and novel genetic variants
16 <sup>30</sup> - 17 <sup>00</sup>	<i>Coffee Break</i>	
<b>Session 3</b>		Chair: Rudolf Zechner
17 <sup>00</sup> - 18 <sup>00</sup>	<b>Keynote Lecture 2024</b> 	<b>Matthias TSCHÖP</b> , Munich, Germany Overcoming obesity: the discovery of multi receptor drugs

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**FRIDAY, APRIL 19, 2024**

<b>Session 4</b>		Chair: Moni Oberer and Guenter Haemmerle
09 <sup>00</sup> - 09 <sup>45</sup>	Plenary Lecture 4	<b>Mark PRENTKI</b> , Montreal, Canada Glycerol 3-phosphate phosphatase in health, stress and aging
09 <sup>45</sup> - 10 <sup>30</sup>	Plenary Lecture 5	<b>Elina IKONEN</b> , Helsinki, Finland Existential issues: control of organelle identity by lipid phosphatase
10 <sup>30</sup> - 10 <sup>50</sup>	Short Talk 4	<b>Thomas RAUCHENWALD</b> Clearing the path for whole-mount labeling and quantification of spatial features in adipose tissue
10 <sup>50</sup> - 11 <sup>20</sup>	<i>Coffee Break</i>	
11 <sup>20</sup> - 12 <sup>05</sup>	Plenary Lecture 6	<b>Alfred SCHINKEL</b> , Amsterdam, The Netherlands Carboxylesterases: lipid homeostasis and drug detoxification, or the other way around?
12 <sup>05</sup> - 12 <sup>25</sup>	Short Talk 5	<b>Gabriel CHALHOUB</b> Impact of Ces2a deficiency on the development of liver steatosis
12 <sup>25</sup> - 14 <sup>30</sup>	<i>Lunch</i>	Poster Session
<b>Session 5</b>		Chair: Ruth Birner-Gruenberger and Robert Zimmermann
14 <sup>30</sup> - 15 <sup>15</sup>	Plenary Lecture 7	<b>Mario van der STELT</b> , Leiden, The Netherlands Studying lipid metabolism in the human brain
15 <sup>15</sup> - 15 <sup>35</sup>	Short Talk 6	<b>Dominik BULFON</b> The endolysosomal phospholipid bis(monoacylglycero) phosphate is synthesized via intra- & extracellular pathways
15 <sup>35</sup> - 15 <sup>55</sup>	Short Talk 7	<b>Johannes BREITHOFER</b> Phospholipase A2 group IVD mediates the transacylation of acylglycerols and glycerophospholipids
15 <sup>55</sup> - 16 <sup>15</sup>	Short Talk 8	<b>Sophie HONEDER</b> Unveiling lipid hydrolase dynamics in NSCLC: implications for cancer metabolism
16 <sup>15</sup> - 16 <sup>45</sup>	<i>Coffee Break</i>	
16 <sup>45</sup> - 17 <sup>05</sup>	Short Talk 9	<b>Ulrich STELZL</b> Mutational scanning pinpoints distinct binding sites of key ATGL regulators in lipolysis
17 <sup>05</sup> - 17 <sup>50</sup>	Plenary Lecture 8	<b>James GRANNEMAN</b> , Detroit, USA Molecular pharmacology of ABHD5
18 <sup>15</sup>	<b>Conference Dinner</b>	Departure by bus (meeting point: in front of the parking Garage of Module 1) to the restaurant 'Das Grambacher' or meeting point at 18 <sup>45</sup> at the restaurant.



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**SATURDAY, APRIL 20, 2024**

<b>Session 6</b>		Chair: Ulrike Taschler and Karl Gruber
09 <sup>00</sup> - 09 <sup>45</sup> 	Plenary Lecture 9	<b>Konstantin KANDROR</b> , Boston, USA ATGL-mediated lipolysis: links to longevity and circadian regulation
09 <sup>45</sup> - 10 <sup>05</sup>	Short Talk 10	<b>Carlos Francisco RODRIGUEZ GAMEZ</b> Revealing critical amino acids in adipose triglyceride lipase for lipolytic activity stimulation upon comparative gene identification-58 interaction
10 <sup>05</sup> - 10 <sup>25</sup>	Short Talk 11	<b>Amit Singh SAHRAWAT</b> Elucidating the molecular interactions of G0/G1 switch gene 2 (GOS2) with lipids: insights from molecular dynamics simulations
10 <sup>25</sup> - 10 <sup>45</sup>	Short Talk 12	<b>Yelina MANANDHAR</b> Burning issues: ATGL- and HSL-mediated lipolysis is required for brown adipose health but not for cold-induced thermogenesis
10 <sup>45</sup> - 11 <sup>15</sup>	<i>Coffee Break</i>	
11 <sup>15</sup> - 12 <sup>00</sup>	Plenary Lecture 10	<b>Kimberly BUHMAN</b> , Purdue, USA Dietary fat absorption in health and disease
12 <sup>00</sup> - 12 <sup>45</sup> 	Plenary Lecture 11	<b>Shingo KAJIMURA</b> , Boston, USA How do cells make heat?
12 <sup>45</sup> - 13 <sup>00</sup>	Best Poster Awards Best Short Talk Award	
<b>Closing of the Symposium</b>		
13 <sup>00</sup> - 14 <sup>00</sup>	<i>Lunch</i>	Take down of Posters
<b>Social Program</b>		
3:30 p.m.	<b>City of Graz - Guided Tour</b>	Meeting Point: Main square in front of the Mayor Hall