

# LYS FOR2625 SYMPOSIUM

LYSOSOMES & AUTOPHAGY BERLIN, JUNE 6-7, 2024

## THURSDAY, JUNE 6

08:00 – 10:00 h Registration

10:00 – 10:10 h Opening Remarks

### SESSION I

*Chairs: Judith Klumperman / Markus Damme (FOR2625-PIs at Utrecht University Medical Center, NL / Kiel University, GER)*

10:15 – 10:45 h **Juan Bonifacino (NIH, Bethesda, USA)**  
*Lysosome repair defects in hereditary spastic paraplegia*

10:45 – 11:00 h **Selected abstract talk**  
Thomas Jacqmin (University Namur, Belgium): *Insight into the disease mechanism of spastic paraplegia 21, a neurological disorder caused by the loss of maspardin, a cytosolic protein recruited on lysosomes*

11:00 – 11:15 h **Selected abstract talk**  
Yanwei Su (FMP Berlin, Germany): *The centronuclear myopathy protein and phosphoinositide phosphatase MTMR14 regulates lysosomal repair*

11:15 – 11:30 h **Selected abstract talk**  
Jacques Neefjes (Leiden University Medical Centre, NL): *Systems mapping of bi-directional endolysosomal transport through the crowded cell*

11:30 – 11:55 h Coffee break

11:55 – 12:25 h **Gia Voeltz (University of Colorado – Boulder, USA)**  
*ER contact sites regulate Endosome biogenesis and trafficking*

12:25 – 12:55 h **Christian Hübner (University Hospital Jena, Germany)**  
*De-Stressing the ER by ER-Phagy*

13:00 – 14:00 h Lunch

14:00 – 15:30 h **Poster Session I**

### SESSION II

*Chairs: Dominic Winter / Christian Hübner (FOR2625-PIs at Bonn University, GER / University Hospital Jena, GER)*

15:30 – 16:00 h **Costas Demetriades (Max Planck Institute for Biology of Ageing, Cologne, Germany)**  
*Subcellular separation of nutrient signaling to mTORC1*

16:00 – 16:15 h **Selected abstract talk**  
Chun Hei Li (Utrecht University, The Netherlands): *Spatiotemporal proteomics reveals biosynthetic lysosomal membrane protein interactome in neurons*

16:15 – 16:30 h **Selected abstract talk**  
Andrea Zanotti (DKFZ Heidelberg, Germany): *Mechanistic characterization of different subcellular V-ATPase complexes*

16:30 – 17:00 h **Gennaro Napolitano (TIGEM, Pozzuoli/Naples, Italy)**  
*Selective modulation of mTORC1 signaling at the lysosome*

17:15 – 18:45 h Snack Buffet

### **EVENING SESSION**

*Chair: Thomas Jentsch (FOR2625-PI at FMP, Berlin, GER)*

- 18:45 – 19:15 h **Dejian Ren (University of Pennsylvania, Philadelphia, USA)**  
*Lysosomal Ion Channels in Neurodegenerative Diseases*
- 19:15 – 19:30 h **Selected abstract talk**  
Marko Roblek (Medical University of Vienna, Austria): *Orphan lysosomal solute carrier MFSD1 facilitates highly selective dipeptide transport*
- 19:30 – 20:00 h **Sergio Grinstein (University of Toronto, Canada)**  
*Snx10 regulates lysosomal phosphoinositides and chloride transport*
- 20:00 – 21:30 h **Poster Session II** with Reception

## **FRIDAY, June 7**

### **SESSION III**

*Chair: Paul Saftig (FOR2625-PI at University of Kiel, GER)*

- 09:15 – 09:45 h **Meng Wang (Baylor College of Medicine, Houston, USA)**  
*Lysosomal Insights into Organismal Longevity*
- 09:45 – 10:00 h **Selected abstract talk**  
Pathma Muthukottiappan (University of Bonn, Germany): *Alterations in lipid homeostasis affect Ragulator-mediated lysosomal positioning*
- 10:00 – 10:30 h **Monther Abu-Remaileh (Stanford University, USA)**  
*Intra-lysosomal lipid metabolism and neurodegeneration: from tool development to novel biology*
- 10:30 – 12:00 h **Poster Session III**
- 12:00 – 13:00 h Lunch

### **SESSION IV**

*Chair: Tobias Stauber (FOR2625-PI at Medical School Hamburg, GER)*

- 13:00 – 13:30 h **Kathrin Thedieck (University of Innsbruck, Austria)**  
*The mTOR-AHR pathway enhances lysosome function and translation under tryptophan stress*
- 13:30 – 13:45 h **Selected abstract talk**  
João Mello-Vieira (Goethe Universität Frankfurt/Main, Germany): *Metabolic control of lysosome functions during bacterial infection*
- 13:45 – 14:15 h **Jan Carette (Stanford University, USA)**  
*Hold on for dear life: how viruses latch on to essential receptors to escape endosomes*
- 14:15 – 15:45 h **Poster Session IV**

### **SESSION V**

*Chair: Thomas Braulke (FOR2625-PI at UKE, Hamburg, GER)*

- 15:45 – 16:15 h **Rushika Perera (University of California, San Francisco, USA)**  
*Decoding lysosomal mechanisms of cellular adaptation*
- 16:15 – 16:45 h **Ivan Dikic (Goethe Universität Frankfurt/Main, Germany)**  
*Tumor immune evasion through IRGQ-directed autophagy and lysosomal degradation of HLA class I proteins*
- 16:45 h **Awards for Best Oral Presentation and Best Poster**  
**Closing Remarks and End of Conference**