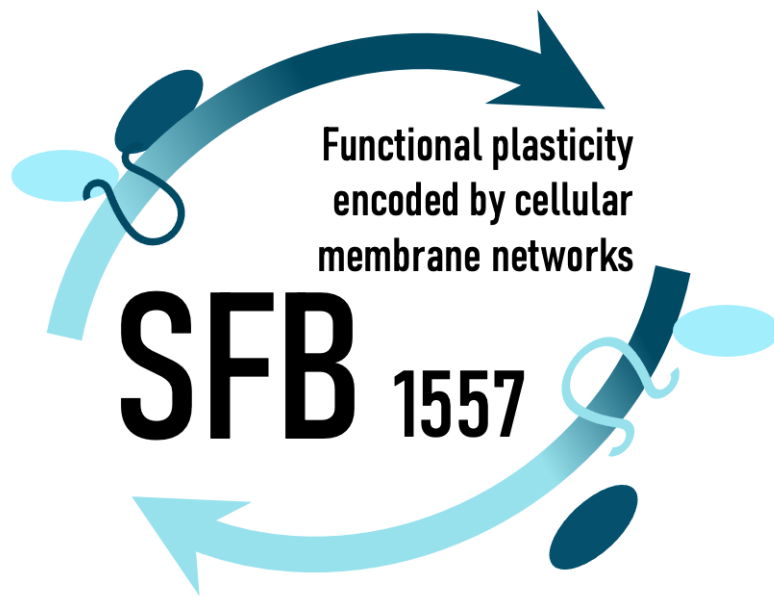




2nd International meeting of the SFB 1557

Plasticity of Cellular Membrane Networks

Wednesday 3rd - Friday 5th of September 2025

Bohnenkamp Haus of the Botanical Garden

Osnabrück University



Program

WEDNESDAY, 3RD OF SEPTEMBER

18:00 Registration

18:30 *Dinner*

Keynote session (Chair: Christian Ungermann)

19:15 *WELCOME*

19:20 **Keynote lecture**
Tobias Walther, Memorial Sloan Kettering Cancer Center, New York, USA
Lipid droplet organelle biogenesis at the endoplasmic reticulum

20:15 *GET TOGETHER & DRINKS*

THURSDAY, 4TH OF SEPTEMBER

Session 1 - Membrane Functions in Cellular Physiology and Host-Pathogen Interactions

(Chairs: Denisa Jamecna)

09:00 **Claudine Kraft, University of Freiburg, Germany**
Phase separations in autophagy regulation

09:25 **Vassiliki Nikolettou, Université de Lausanne, Switzerland**
Investigating cargoes and mechanisms of secretory autophagy in neurons

09:50 **Qing Zhong, Shanghai Jiatong University, China**
Role of lipid droplets in lysosomal membrane damage repair

10:15 **Dagmar Heuer, Robert Koch Institute, Berlin, Germany**
Mechanisms of bacterial egress from infected cells

10:40 **Felix Randow, University of Cambridge, UK**
Role of ubiquitylation in neutralizing intracellular bacteria

11:05 *COFFEE BREAK*

Session 2 – Membrane Trafficking, Organelle Identity, and Functional Plasticity

(Chair: Florian Fröhlich)

- 11:35 **Nathalie Krahmer, Helmholtz Zentrum München, Germany**
Elucidating the cell architecture of metabolic liver disease via spatial proteomics
- 12:00 **Bianca Schrul, Saarland University, Germany**
Protein targeting to lipid droplets & the importance of inter-organelle communication
- 12:25 **Volker Haucke, Leibniz Forschungsinstitut für Molekulare Pharmakologie (FMP), Germany**
Lipid signaling in health and disease
- 12:50 **Carla Schmidt, Johannes Gutenberg University Mainz, Germany**
Novel protein-lipid assemblies at the synapse identified by structural mass spectrometry
- 13:15 LUNCH**
- 14:30 POSTER SESSION**

Session 3 – Regulatory Mechanisms of Lipid Metabolism and Transport

(Chairs: Maria Bohnert)

- 16:15 **Milena Schumacher, EPFL Lausanne, Switzerland**
Role of lipid species in signaling specification
- 16:40 **Francesca Giordano, Inserm, Gif-sur-Yvette cedex, France**
Non-vesicular lipid traffic at membrane contact sites
- 17:05 **Giovanni D'Angelo, EPFL Lausanne, Switzerland**
The lipotype hypothesis
- 17:30 **Pedro Carvalho, University of Oxford, UK**
Lipid droplet biogenesis and regulation
- 18:00 GUIDED CELLNANOS TOUR**
- 19:00 FOOD AND DRINKS AT THE BOTANICAL GARDEN**

Session 4 - Molecular Architecture and Dynamics of Membranes

(Chair: Arne Möller)

- 09:00 **Bettina Böttcher, Universität Würzburg, Germany**
Opening of a mechanosensitive channel of small conductance
- 09:25 **Christine Ziegler, Universität Regensburg, Germany**
Molecular mechanism of selectivity switching in the lysosomal two-pore channel TPC2
- 09:50 **Abdou Rachid Thiam, Ecole Normale Supérieure Paris, France**
Cell biology and biophysics of lipid droplet biogenesis
- 10:15 COFFEE BREAK**
- 10:50 **Guillaume Drin, Institute Pharmacology Moléculaire Et Cellulaire, Nice, France**
Insights into the mechanistic links between the membrane tether/scramblase Ist2 and the lipid transfer protein Osh6 at contact sites
- 11:15 **Ute Hellmich, Friedrich-Schiller-University Jena, Germany**
Insights into the mechanistic links between the membrane tether/scramblase Ist2 and the lipid transfer protein Osh6 at contact sites
- 11:40 POSTER PRIZES**
- 12:00 CONCLUDING REMARKS**
- 12:30 LUNCH AND FAREWELL**

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