



*1<sup>st</sup> International meeting of the SFB 1557*

## ***Membranes and the lipid code***

Wednesday 6<sup>th</sup> - Thursday 7<sup>th</sup> of September 2023

Bohnenkamp Haus of the Botanical Garden

Osnabrück University



# Program

## WEDNESDAY, 6TH OF SEPTEMBER

18:00 Registration

**18:30** *Dinner*

*Session 1 - Sensing and changing the cellular lipid code* (Chair: Christian Ungermann)

**19:15** *WELCOME*

19:20 **Maria Bohnert, University of Münster, DE**  
*Systematic approaches to uncover new players in lipid droplet biology*

19:45 **Giovanni D'Angelo, University of Geneva, CH**  
*The lipotype hypothesis*

20:10 **Robert Ernst, University of Saarland, DE**  
*Regulation of the Unfolded Protein Response by Lipid Bilayer Stress*

**20:40** *GET TOGETHER & DRINKS*

**THURSDAY, 7TH OF SEPTEMBER**

**Session 2 - Functional plasticity of membranes** (Chair: Kerstin Bartscherer)

- 09:00 **Francesca Bottanelli, Freie Universität Berlin, DE**  
*Investigating cellular logistics with live-cell STED super-resolution microscopy*
- 09:25 **Caroline Barisch, Research Centre for Structural Biology, Hamburg, DE**  
*ER-dependent membrane repair of mycobacteria-induced vacuole damage*
- 09:50 **Rumiana Dimova, MPI Potsdam, Germany, DE**  
*Membrane remodeling in artificial cells: to bud or not to bud*
- 10:15 **Qing Zhong, Shanghai Jiatong University, CHN**  
*C9orf72 Catalyzed GTP Loading of Rab39A Enables HOPS Mediated Membrane Tethering and Fusion in Mammalian Autophagy*
- 10:40 COFFEE BREAK**

**Session 3 - Membrane protein function and regulation** (Chair: Daniel Kümmel)

- 11:15 **Ulrich Brandt, Radboud University, Nijmegen, NL**  
*Insights into the mechanism of mitochondrial complex I*
- 11:40 **Shirin Kappelhoff, Osnabrück University, DE**  
*Revealing the structure and regulation of GSDMD pores at the plasma membrane of pyroptotic cells*
- 12:05 **Dovile Janulienė, Osnabrück University, DE**  
*Conformational bias of different hydrophobic environments in MsbA*
- 12:30 **Alf Honigmann, University of Dresden, DE**  
*Direct imaging of lipid specific trafficking pipelines in cells*
- 12:55 LUNCH**
- 14:00 GUIDED CELLNANOs TOUR FOR SPEAKERS**
- 15:15 **Stephan Sigrist, University of Berlin, DE**  
*A novel Rab3-GTPase activator confined to the active zone controls vesicle recruitment*
- 15:40 **Thomas Wollert, Institute Pasteur, FR**  
*Understanding membrane dynamics in autophagy – biogenesis of omegasomes and autophagosomes*
- 16:05 COFFEE BREAK**

**Session 4 – Membrane contact sites and lipid homeostasis** (Chair: Michael Hensel)

16:30 **Ayelén González Montoro, Osnabrück University, DE**  
*The function of the Cvm1-Cvm2 complex in sphingolipid homeostasis at vacuolar membrane contact sites*

16:55 **Xiaoxia Liu, Shanghai Jiatong University, CHN**  
*ATG2A-mediated lipid transfer from endosomes to phagophores*

17:20 **Oliver Daumke, Max Delbrück Center Berlin, DE**  
*Elucidating the activation mechanism for GBP1 oligomerization*

**18:00** *FOOD AND DRINKS AT THE BOTANICAL GARDEN*

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