



# SYMPORIUM

October 23<sup>rd</sup> – 24<sup>th</sup>, 2018

**October 23<sup>rd</sup>**

*University Medical Center, Robert-Koch-Straße 40, Lecture hall 55*

**13:30h – 14:30h** Spatiotemporal control of endocytosis and endolysosomal signaling  
*Volker Haucke*  
*Leibniz-Forschungsinstitut für Molekulare Pharmakologie, Berlin*

**14:30h – 14:55h** NanoSIMS single-cell imaging – challenges, recent applications and future research directions in environmental microbiology  
*Niculina Musat*  
*Helmholtz Centre for Environmental Research, Leipzig*

**15:00h – 15:30h** *Coffee Break*

**15:30h – 15:55h** X-Ray imaging of Cells and Tissues  
*Tim Salditt*  
*University of Göttingen*

**15:55h – 16:15h** Visualizing the activity of marine microorganisms  
*Jana Milucka*  
*Max Planck Institute for Marine Biology, Bremen*

**16:15h – 16:45h** *Coffee Break*

**16:45h – 17:10h** Intra- and inter-cell variation in elemental composition and activity revealed with NanoSIMS  
*Angela Vogts*  
*Leibniz Institute for Baltic Sea Research, Warnemünde*

**17:10h – 17:35h** Spatial localization of lipid turnover and specific target proteins in cellular membrane with NanoSIMS  
*Thi Ngoc Nhu Phan*  
*University Medical Center Göttingen*

**October 24<sup>th</sup>**

*University Medical Center, Robert-Koch-Straße 40, Lecture hall 55*

**09:00h – 10:00h Combination of NanoSIMS with other methods to understand the chemical structure of neurotransmitter vesicles**  
*Andrew Ewing, University of Gothenburg*

**10:00h – 10:25h When EM meets SIMS: High-Resolution SIMS Imaging and Correlative Microscopy on the Helium Ion Microscope**  
*Jelena Lovric, Luxembourg Institute of Science and Technology*

**10:25h – 10:50h Organic Imaging of Tissue Materials by Time-of-Flight Secondary Ion Mass Spectrometry (ToF-SIMS)**  
*Birgit Hagenhoff, Tascon GmbH, Münster*

**10:50h – 11:10h Coffee Break**

**11:10h – 11:35h Elucidating soil biogeochemical processes at the microscale using NanoSIMS**  
*Carmen Höschken, Technical University of Munich*

**11:35h – 11:55h Investigating gadolinium deposition in the brain by chemical imaging and speciation analysis**  
*Uwe Karst, University of Münster*

**October 24<sup>th</sup>**

*University Medical Center, Robert-Koch-Straße 40, Lecture hall 55*

**12:00h – 13:00h Lunch Break**

**13:15h – 13:40h Subdiffraction-resolution fluorescence imaging**  
*Alexander Egner, Laser-Laboratorium Göttingen e.V. (LLG)*

**13:40h – 14:05h Prospects for atomic scale chemical imaging of biological materials using atom probe tomography**  
*Cynthia A. Volkert, University of Göttingen*

**14:05h – 14:30h SIMS imaging as a tool to analyze mammalian turnover at the nanoscale**  
*Silvio O. Rizzoli, University Medical Center Göttingen*

**14:30h – 15:00h Concluding Remarks**



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