

SYMPOSIUM

October 23rd – 24th, 2018

October 23rd

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 24th

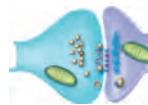
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- 09:00h – 10:00h **Combination of NanoSIMS with other methods to understand the chemical structure of neurotransmitter vesicles**
Andrew Ewing, University of Gothenburg
- 10:00h – 10:25h **When EM meets SIMS: High-Resolution SIMS Imaging and Correlative 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 Höschen, 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 24th

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- 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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