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Symposium on Advanced microscopy techniques in life sciences

April 02 - 03, 2014



Saarland University, Campus Homburg, Building 61, "Großer Hörsaal" Anatomy

April 2nd

- 11:30 snack and get together
- 12:30 short introduction
Prof. Dr. Peter Lipp (Saarland University)
Dr. Jörg Kukulies (Nikon)
- 12:35 fluorescence microscopy@nanometer resolution
Prof. Dr. Christoph Cremer
- 13:20 a new twist for faster and higher resolution 3D structured illumination microscopy
Prof. Dr. Rainer Uhl
- 13:50 eight years of single-molecule localization microscopy
Prof. Dr. Markus Sauer
- 14:20 optical screening and automated microscopy
Dr. Lars Kaestner
- 14:50 the broad range of raman-based spectral imaging for biomedical diagnostics
Prof. Dr. Jürgen Popp
- 15:20 coffee break - discussions
- 15:50 imaging mass spectrometry: molecular histology for clinical diagnostics
Prof. Dr. Dietrich Volmer
- 16:20 combining yeast genetics with quantitative imaging to understand the principles of cell organization
Prof. Dr. Roland Wedlich-Söldner
- 16:50 the open microscopy environment: open informatics for biological imaging
Prof. Dr. Jason Swedlow
- 17:20 high resolution microscopy for probing protein-protein interactions and molecular dynamics in synapses
Prof. Dr. Jürgen Klingauf
- 17:50 the bermuda triangle of microscopy: are there enough photons for increasing spatial and temporal resolution
panel discussion

April 3rd

- 9.00 breakfast
- 9.30 shifting the paradigm in modern light microscopy - light sheet-based fluorescence microscopy
Prof. Dr. Ernst Stelzer
- 10.15 active nanoscopy using structure-mediated microscopy
Prof. Dr. Jesper Glückstad
- 10.45 scanning ion conductance microscopy for cardiac biology
Dr. Julia Gorelik
- 11.15 coffee break
- 11.45 overcoming the resolution barrier by STED microscopy
Dr. Alexander Egner
- 12.15 bridging microscopes: 3D correlative light and scanning electron microscopy of complex biological
Dr. Roger Wepf
- 12.45 studying membrane traffic and organelle biogenesis by systems microscopy
Dr. Rainer Pepperkok
- 13.15 lunch
- 14.15 super-resolution imaging of nanoscale features of cardiac and skeletal muscle cells
Prof. Dr. Christian Söller
- 14.45 quantitative single molecule super-resolution microscopy
Dr. Rainer Kaufmann
- 15.15 super-resolution microscope systems: a new world of discovery beyond the diffraction
Dr. Klaus Nettesheim
- 15.45 coffee break
- 16.15 manipulating intracellular calcium with light
Prof. Dr. Ernst Niggli
- 16.45 molecular tools for sensing enzyme activities
Dr. Carsten Schultz

Organizer:
Dr. Lars Kaestner
Prof. Dr. Peter Lipp

