



International Symposium
Analysis of Biomolecular Machines in the Nanometer Range
September 20th – 23th, 2009
Rosensäle, Jena, Germany

Symposium Outline

The aim of the meeting is to discuss in an internationally visible forum, novel developments and applications of optical analyses of biological nanostructures in the cellular context (e.g. cell membranes, cytoplasmic structures, chromatin domains, transcription and replication factories). The emphasis will be on joining methodological developments with biological applications within each and every session. Wherever possible, computer simulations and kinetic modelling will be included. Since the focus of the symposium will be on the optical analysis of biomolecular machines in the cell, we intend to cover spatial and temporal dimensions beyond the “nanoscale”.

Topics of sessions / workshops:

- Microscopic imaging at the one nanometer scale – EM/AFM
- Light microscopy from the nanometer to the micrometer scale – SMI/4Pi/STED/SPDM/ SALM/OM-X
- Light microscopy from the micrometer to the millimeter scale – SPIM/Multiphoton/NIR
- Dynamic analysis in vivo by light microscopy – Single Molecule/F-techniques/ N-dimensional image analysis
- Correlation of Light Microscopy and Kinetic Modeling
- Workshops on Molecular Labelling and on Novel Perspectives in Microscopy

Confirmed Speakers:

J. Lippincott-Schwartz, Bethesda
E. Gratton, Urbana
D. Gerlich, Zürich
P. Carlton, San Francisco

Organizers:

Stephan Diekmann (Jena), Christoph Cremer (Heidelberg)

www.spp1128.uni-hd.de/symposium2009