µicron

CZECH-BIOIMAGING

IMG

Nikon

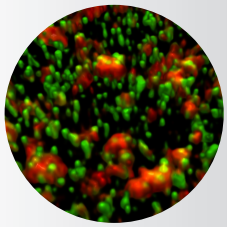
esf european social fund in the czech republic

EUROPEAN UNION

MINISTRY OF EDUCATION, YOUTH AND SPORTS

OP Education for Competitiveness

INVESTMENTS IN EDUCATION DEVELOPMENT



Visualizing the invisible in cell biology

Symposium on super-resolution microscopy: technology, methods and data evaluation

Institute of Molecular Genetics of the AS CR, Prague, Czech Republic

November 28 - 29, 2013

November 28

9.00 - 9.45 Snack and get together

9.45 - 10.00 Welcome and introduction
Pavel Hozak (Institute of Molecular Genetics of the AS CR, Prague, Czech Republic)

10.00 - 10.30 Fluorescence microscopy of biostructures at nanometer resolution
Christoph Cremer (Institute of Molecular Biology, Mainz, Germany)

10.30 - 11.00 Studying cellular structure and function with 3D structured illumination microscopy (3D-SIM) and fluorescent nanobodies
Heinrich Leonhardt (Ludwig Maximilians University, Munich, Germany)

11.00 - 11.30 Coffee break and discussions

11.30 - 12.00 Super-resolution fluorescence microscopy with photo-switchable dyes and proteins
Mark Bates (Max Planck Institute for Biophysical Chemistry, Göttingen, Germany)

12.00 - 12.30 Quantitative super-resolution imaging of cellular structures
Mike Heilemann (Goethe University, Frankfurt am Main, Germany)

12.30 - 13.00 Cell biology by single-molecules
Thomas Schmidt (University of Leiden, The Netherlands)

13.00 - 14.00 Lunch break

14.00 - 14.30 Light microscopy beyond the diffraction limit. Nikon's super-resolution microscope systems N-SIM and N-STORM
Ingo Ohlenschläger (Nikon GmbH Vienna, Austria)

14.30 - 15.00 Overcoming the resolution barrier by STED microscopy
Alexander Egner (Laser Laboratory Göttingen, Germany)

15.00 - 15.30 Unexpected functions of phospolipids in the cell nucleus
Pavel Hozak (Institute of Molecular Genetics of the AS CR, Prague, Czech Republic)

15.30 - 16.30 Snacks and wash-up meeting

November 29

9.00 - 13.00 Demonstrations for registered participants

Please register until November 7, 2013 at www.microscopytraining.eu/srsymposium

Organizer: Pavel Hozak (Institute of Molecular Genetics of the AS CR, Prague, Czech Republic)

srsymposium@microscopytraining.eu