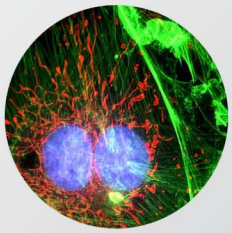
BIOCEV

Faculty of Science
CHARLES UNIVERSITY IN PRAGUE

CZECH-BIOIMAGING
EURO-BIOIMAGING

esf evropský sociální fond v ČR
EVROPSKÁ UNIE
MINISTERSTVO ŠKOLSTVÍ, MLÁDEŽE A TĚLOVÝCHOVY
OP Vzdělávání pro konkurenceschopnost
INVESTICE DO ROZVOJE VZDĚLÁVÁNÍ

Nikon



Super-resolution microscopy and live cell imaging

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

BIOCEV, Průmyslová 595, Vestec, Czech Republic, April 5-7, 2017

April 5

08.45 - 09.15 Snack and get together

09.15 - 09.25 Welcome and introduction
Aleš Benda (Biocev, Imaging Methods Core Facility, Faculty of Science, Charles University, Prague, Czech Republic)

09.25 - 09.45 Mitochondrial transfer recovers tumorigenic potential in mitochondrial DNA-deficient cancer cells
Jaromíra Kovářová (Biocev, Institute of Biotechnology, Czech Academy of Sciences, Prague, Czech Republic)

09.45 - 10.25 Application of structured illumination microscopy (SIM) in studying mitochondrial structure and function
Benjamin Gottschalk (Medical University of Graz, Graz, Austria)

10.25 - 10.40 Coffee break discussions

10.40 - 11.00 Protein-protein interactions in sperm and egg under the spotlight of super-resolution microscopy
Kateřina Hortová, Michaela Frolíková (Biocev, Institute of Biotechnology, Czech Academy of Sciences, Prague, Czech Republic)

11.00 - 11.40 See more than before
Ingo Ohlenschläger (NIKON CEE GmbH, Microscope Solutions Vienna, Austria)

11.40 - 12.45 Lunch break

12.45 - 13.05 Single-molecule fluorescence imaging of cytoskeletal proteins
Ilia Zhernov (Biocev, Vestec, Czech Republic)

13.05 - 13.45 VividSTORM, a new correlated confocal and super-resolution imaging software tool
László Barna (Institute of Experimental Medicine of the Hungarian Academy of Sciences, Budapest, Hungary)

13.45 - 14.00 Coffee break discussions

14.00 - 14.20 Co-localization of two major enamel structure proteins Ambn and AmlX during assembly of enamel protein scaffold
Jan Procházka (Biocev, Institute of Molecular Genetics, Czech Academy of Sciences, Prague, Czech Republic)

14.20 - 14.40 Visualization of membrane structures within parasitic protist *Trichomonas vaginalis*
Petr Rada (Biocev, Faculty of Science, Charles University, Prague, Czech Republic)

14.40 - 15.20 Visualization and Manipulation of the Invisible
Heinrich Leonhardt (Ludwig Maximilians University, Munich, Germany)

15.20 - 15.40 Coffee break discussions

15.40 - 16.00 Live cell and super-resolution imaging of mitochondria
Kateřina Rohlenová (Biocev, Institute of Biotechnology, Czech Academy of Sciences, Prague, Czech Republic)

16.00 - 16.40 NIS Elements, a complete software for automatized microscopy
Vladimír Brand (Laboratory Imaging spol. s r.o., Prague, Czech Republic)

April 6 and April 7 Hands-on sessions for registered participants

Please register until March 20, 2017 at www.nikon-instruments.cz

Organizer: Aleš Benda (BIOCEV, IMCF, Prague, Czech Republic)