DYNAMIC PROCESSES AT THE CELL SURFACE
AND
MULTI-SPECTRAL PHOTO MANIPULATION
THEORETICAL AND PRACTICAL SESSIONS
LAUNCH OF THE LEICA DMI8 S WITH TIRF AND INFINITY SCANNER

DATE:
NOVEMBER 22-24/2017

PLACE:
IMAGING METHODS CORE FACILITY, BIOCEV, FACULTY OF SCIENCES CHARLES UNIVERSITY
PRŮMYSLOVÁ 595, 252 50 VESTEC, CZECH REPUBLIC

ORGANIZERS AND SPEAKERS

JÉRÉMIE ROSSY
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JENS PETER GABRIEL
(APPLICATION MANAGER, LEICA MICROSYSTEMS)

ALEŠ BENDA
(HEAD OF THE IMAGING METHODS CORE FACILITY, BIOCEV)

MARTIN KOPECKÝ
(SALES MANAGER, PRAGOLAB s.r.o.)
NOVEMBER 22, WEDNESDAY

08:30  REGISTRATION
08:55 - 09:00  WELCOME BY MARTIN KOPECKÝ, ALEŠ BENDA
09:00 - 09:40  SEE THE HIDDEN: THE DMI8 S INFINITY TIRF
               JENS PETER GABRIEL
09:40 – 10:10  IMAGING FCS – MAPPING OF MOLECULAR MOBILITY AND INTERACTIONS IN LIVE CELLS
               RADEK MACHÃŇ
10:10 – 10:40  THE MECHANICS OF CYTOSKELETAL FILAMENT ORGANISATION
               BRAUN MARCUS
10:40 – 11:00  COFFEE BREAK
11:00 – 11:40  USING PHOTOACTIVATION TO FOLLOW INTRACELLULAR TRAFFICKING IN T CELLS
               JEREMIE ROSSY
11:40 – 12:10  MAKE YOUR PHOTONS WORK: THE DMI8 S INFINITY SCANNER
               JENS PETER GABRIEL
12:10 – 12:50  QUANTITATIVE SUPER-RESOLUTION IMAGING OF MOLECULAR STRUCTURES AND ASSEMBLIES IN CELLS
               MAREK CEBECAUER
13:00 – 13:45  LUNCH
14:00 – 15:30  PRACTICAL HANDS ON SESSION 1
               (Group 1 – TIRF / Photomanipulation, Group 2 – Leica SP8 SMD / LAS X Navigator)
               ROTATION TIME / COFFEE
15:45 – 17:15  PRACTICAL HANDS ON SESSION 2
               (Group 1 – TIRF / Photomanipulation, Group 2 – Leica SP8 SMD / LAS X Navigator)
               ROTATION TIME / COFFEE

NOVEMBER 23, THURSDAY

09:00 – 10:30  PRACTICAL HANDS ON SESSION 3
               (Group 1 – TIRF / Photomanipulation, Group 2 – Leica SP8 SMD / LAS X Navigator)
               ROTATION TIME / COFFEE
10:45 – 12:15  PRACTICAL HANDS ON SESSION 4
               (Group 1 – TIRF / Photomanipulation, Group 2 – Leica SP8 SMD / LAS X Navigator)
SAMPLES PREPARATION:

The TIRF technique requires samples in aqueous medium, which could be live cells, bacteria, in vitro protein or nucleic acid assays, or many others (http://www.leica-microsystems.com/science-lab/applications-of-tirf-microscopy-in-life-science-research/). Samples must have a coverslip bottom. TIRF works best for fluorescent proteins in or near the membrane (so close to the coverslip), but using a technique called Hilo also structures further away like mitochondria or even the nucleus can be imaged with greatly improved contrast.

REGISTRATION:

PLEASE REGISTER AS SOON AS POSSIBLE, THE CAPACITY IS LIMITED!

FEE FOR THIS WORKSHOP IS 200 CZK AND INCLUDES COFFEE BREAKS REFRESHMENT AND LUNCH ON WEDNESDAY

USE THE FORM ON THE WEBSITE www.pragolab.cz/tirf OR REGISTRATION FORM HERE

REGISTRATION FOR DEMONSTRATION AND HANDS-ON SESSIONS IS OBLIGATORY. EACH SESSION - 90 MIN.; MAX 6 PEOPLE.

REGISTER FOR A PARTICULAR TIME SLOT IN THE REGISTRATION FORM.

PLEASE BE PRESENT FOR THE HANDS-ON SESSION 15 MINUTES IN ADVANCE. YOU CAN BRING YOUR OWN SAMPLES BUT BE AWARE THAT ONLY 2 SAMPLES CAN BE DONE IN 1 HANDS-ON SESSION.

PLEASE INFORM US ABOUT YOUR SAMPLES IN ADVANCE

In case of any questions please contact us by e-mail.

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