PhD course – Program

Location: UP MS New building, SIOT0032
Date: August 25, 2022
Program: https://www.rbc2022.hu/programme.php

25th August 2022 9:00 – 12:30 ***BioImaging section***
9:00 – 9:45 Plenary lecture - Jaroslaw Jacak *Department of Medical Engineering, University of Applied Sciences Upper Austria, Linz, Austria* Three-dimensional microscopy and lithography with sub-diffractional resolution for mimicking blood vessels
9:45 – 10:15 Invited lecture – Gábor Csúcs *ETH Zürich, Switzerland* Quantitative Phase Imaging using a holo-tomographic system
10:15 – 10:30 Contributed lecture - Edina Szabó-Meleg *University of Pécs, Medical School, Department of Biophysics* Study of transport processes mediated by membrane nanotubes
10:30 – 11:00 *break*
11:00 – 11:30 Invited lecture - Veronika Huntošová *Center for Interdisciplinary Biosciences, Technology and Innovation Park of P.J. Šafárik University, Košice, Slovakia* Time-resolved detection of oxidative stress level in cancer cells
11:30 – 12:00 Invited lecture - Péter Horváth *Institute of Biochemistry, Biological Research Centre, Szeged, Hungary* *Institute for Molecular Medicine Finland, HiLIFE, University of Helsinki, Helsinki, Finland* Life beyond the pixels: single-cell analysis using deep learning and image analysis methods
12:00 - 12:15 Contributed lecture – Aleksandar Krmpot *Institute of Physics Belgrade, University of Belgrade, Serbia* Ultrashort laser pulses interaction with hemoglobin micro-patterning and label-free imaging

12:15 – 12:30 tba
12:30 – 14:00 *break*
25th August 2022 14:00 – 17:30 ***Summer School on advanced optical microscopy***
14:00 – 14:30 Gábor Csúcs *ETH Zürich, Switzerland* Which is the best microscope?
14:30 – 15:00 Jaroslaw Jacak *Department of Medical Engineering, University of Applied Sciences Upper Austria, Linz, Austria* Super-resolution optical microscopy
15:00 – 15:30 György Vámosi *University of Debrecen, Faculty of Medicine, Department of Biophysics and Cell biology, Debrecen, Hungary* Fluorescence correlation spectroscopy and its applications in cell biology
15:30 – 16:00 *break*
16:00 – 16:30 Veronika Huntošová *Center for Interdisciplinary Biosciences, Technology and Innovation Park of P.J. Šafárik University, Košice, Slovakia* Intravital imaging as a tool for photodiagnostics and prerequisites for photodynamic therapy
16:30 – 17:00 Beáta Bugyi *University of Pécs, Medical School, Department of Biophysics, Pécs, Hungary* Total internal reflection fluorescence microscopy in life sciences
17:00 – 17:30 Péter Horváth *Institute of Biochemistry, Biological Research Centre, Szeged, Hungary* *Institute for Molecular Medicine Finland, HiLIFE, University of Helsinki, Helsinki, Finland* tba