8th Oulu BioImaging (OBI) Day, May 27th 2019

A joint event between imaging laboratories of University of Oulu and Oulu University Hospital

Theme: Presenting the personnel, imaging instruments and image analysis methodologies covering molecular and cell biology, medical and pre-clinical imaging, optoelectronics, material sciences, and machine vision techniques.

Date and time: Mon, May 27th, 2019, at 9:00 - 16:00.

Location: F202, Kontinkangas Campus

Study credits: 0.3 ECTS, registration here by May 20th

More info: veli-pekka.ronkainen@oulu.fi, http://www.oulu.fi/obi/obi-day-2019

PROGRAM

Session 1 (Chair Janne Heikkilä)
9:00-9:10 Lauri Eklund, Biocenter Oulu and Faculty of Biochemistry and Molecular Medicine, University of Oulu: Opening Oulu BioImaging Day
9:10-9:30 Zuomin Zhao, Medical Imaging, Physics and Technology, University of Oulu: Photoacoustic microscopy (PAM)
9:30-9:50 Lari Lehtio, Faculty of Biochemistry and Molecular Medicine, University of Oulu: 3D pictures of macromolecules using X-rays
9:50 – 10:20 Sponsored Coffee

Session 2 (Chair Evgenii Zherebtsov)
10:20-10:40 Satu Inkinen, Medical Imaging, Physics and Technology, University of Oulu: Imaging techniques using spectral photon counting detectors
10:40-11:00 Jeena Ainikkal Velayudhan, Center for Machine Vision and Signal Analysis, University of Oulu, Introduction to Optical Tweezers
11:00-11:30 Alexey Popov, Opto-Electronics and Measurement Techniques, University of Oulu: Mutual interactions of red blood cells studied with the optical tweezers and scanning electron microscopy

11:30 – 12:45 Lunch Break

Session 3 (Chair Vesa Kiviniemi)
12:45-13:00 Karina Moya Kristiansen, Ramcom, Nanolive - Take your cell research to the next dimension
13:30-14:00 Antti Isomäki, Biomedicum Imaging Unit, University of Helsinki: Applications of label-free and chemically-specific microscopy

14:00 – 14:30 Sponsored Coffee

Session 4 (Chair Veli-Pekka Ronkainen)
14:30-15:00 Ilkka Nissinen, Electronics and Communications Engineering, University of Oulu: Time resolving CMOS single photon sensors for depth-resolving Raman and fluorescence lifetime spectroscopies
15:00-15:30 Aki Manninen, Faculty of Biochemistry and Molecular Medicine, University of Oulu: Imaging 3D organoids using digital holographic microscopy
15:30-15:45 Closing the day