

7th Oulu BiImaging (OBI) Day, April 12th 2018

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:** Thu, April 12th, 2018, at 9:00 - 16:00.
- Location:** Pharmacology lecture hall F202, Kontinkangas Campus
- Study credits:** 0.3 ECTS (for lectures only) - 0.5 ECTS (lectures + participation to OBI Science Image Contest), [registration here](#) by April 2nd
- More info:** veli-pekka.ronkainen@oulu.fi, <http://www.oulu.fi/obi/obi-day-2018>

PROGRAM

Session 1

- 9:00-9:10 **Lauri Eklund**, University of Oulu: Opening Oulu BiImaging Day
- 9:10-9:30 **Mika Kaakinen**, UO: Monitoring safety and efficiency of blood brain barrier opening with multimodal optical and optoelectronic techniques in mice
- 9:30-9:50 **Ilkka Miinalainen**, UO: Biocenter Finland EM platform - applications and services
- 9:50 – 10:20** *Sponsored Coffee, OBI Science Image Contest exhibition*

Session 2

- 10:20-10:40 **Timo Liimatainen**, OYS: Magnetic Resonance Imaging of Myocardial Fibrosis
- 10:40-11:00 **Janne Capra**, UO: 3D cell cultures
- 11:00-11:30 **Igor Meglinski**, UO: Towards screening of brain malformations with a circularly polarized light
- 11:30 – 12:45** *Lunch Break, voting for the best Science Image*

Session 3

- 12:45-13:00 **Linda Haals**, Hamamatsu Photonics: your local supplier of optical sensors and components
- 13:00-13:20 **Minna Patanen**, UO: Soft X-ray spectromicroscopy applied to biomaterials
- 13:20-13:40 **Sami Saukko**, UO: Applications of analytical TEM/STEM
- 13:40-14:00 **Markku Saari / Jouko Sandholm**: Turku BiImaging: Superresolution light microscopy
- 14:00 – 14:30** *Sponsored Coffee*

Session 4

- 14:30-14:50 **Heta Helakari**, OYS: Spectral entropy of synchronous ultra-fast fMRI, EEG and NIRS data in drug-resistant epilepsy
- 14:50-15:10 **Jarkko Koivunen**, UO: High content live-cell imaging
- 15:10-15:45 **Mohammad Tavakolian**, UO: Towards contactless medical diagnosis using vision technologies
- 15:45-16:00 **OBI Science Image Contest awards and closing the day**