

## 8<sup>th</sup> Oulu BioImaging (OBI) Day, May 27<sup>th</sup> 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 27<sup>th</sup>, 2019, at 9:00 - 16:00.
- Location:** F202, Kontinkangas Campus
- Study credits:** 0.3 ECTS, [registration here](#) by May 20<sup>th</sup>
- More info:** [veli-pekka.ronkainen@oulu.fi](mailto:veli-pekka.ronkainen@oulu.fi), <http://www.oulu.fi/obi/obi-day-2019>

### PROGRAM

#### Session 1

- 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 **Aki Manninen**, Faculty of Biochemistry and Molecular Medicine, University of Oulu: *Imaging 3D organoids using digital holographic microscopy*
- 9:30-9:50 **Lari Lehtiö**, Faculty of Biochemistry and Molecular Medicine, University of Oulu: *3D pictures of macromolecules using X-rays*
- 9:50 – 10:20 Sponsored Coffee**

#### Session 2

- 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

- 12:45-13:00 **Karina Moya Kristiansen**, RAMCON – *Holotomographic Microscopy*
- 13:00-13:30 **Gleb Grebnev**, Turku BioImaging, Åbo Akademi: *Euro-BioImaging and the Finnish Node*
- 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

- 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 **Zuomin Zhao**, Medical Imaging, Physics and Technology, University of Oulu: *Photoacoustic microscopy (PAM)*
- 15:30-15:45 Closing the day**