

## 4<sup>th</sup> Oulu BioImaging (OBI) Day April 16<sup>th</sup>, 2015

*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:** Thursday, 16th April, 2015, at 09:00 - 16:00.

**Location:** Anatomy Lecture Hall A101, Medical Campus at Kontinkangas, Aapistie 7A.

**Study credits :** 0.3-0.5 ECTS, certificate of participation will be written.

### PROGRAM FOR THE OBI DAY

#### Session 1: Emerging imaging technologies

- 09:00-09:10 *Sinikka Eskelinen, OU: Opening words*
- 09:10-10:00 *Vyacheslav Kalchenko, The Weizmann Institute of Science, Israel: Advanced Transcranial Optical Vascular Imaging*
- 10:00-10:30 *Igor Meglinski, OU: Enabling polarization based imaging techniques for non-invasive cancer detection and tissue characterization*
- 10:30-11:00 *Alexander Priezzhev, Moscow State University, Russia: Diffraction imaging of red blood cells deformability alterations*

*11:00 – 12:00 Lunch break*

#### Session 2: Brain imaging in health and disease

- 12:00-12:30 *Juha Voipio, University of Helsinki: DC-EEG and excitability*
- 12:30-13:00 *Outi Kuittinen, OU: Blood brain barrier disruption: Imaging of blood brain barrier and brain lymphoma treatment*
- 13:00-13:30 *Vesa Kiviniemi, OU: Multimodal setup on neuroimaging as a medical imaging instrument*

*13:30 – 14:00 Coffee and OBI science image contest*

#### Session 3: New imaging techniques and scientific advances in Oulu BioImaging network

- 14:00-14:15 *Ilkka Miinalainen, OU: SEM and correlative light / electron microscopy at BCO TIC*
- 14:15-14:30 *Lassi Rieppo, OU: Raman imaging at Department of Medical Technology*
- 14:30-15:00 *Janne Heikkilä & Lauri Eklund, OU: Joint BCO/CMV Tekes project ABCdata: Computer vision-based tools for analysis of time-lapse microscopy data*

#### Session 4: Sponsor presentations

- 15:00-15:15 *Sanna Siltanen, Immuno Diagnostic Oy*
- 15:15-15:30 *Mikko Nokkonen, G.W. Berg*
- 15:30-15:45 *Mats Hede, Hamamatsu Photonics Norden*
- 15:45-16:00 *TBD*

16:00 OBI science image competition award ceremony and closing