

## 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	<i>Sinikka Eskelinen</i> , OU: Opening words
09:10-10:00	Vyacheslav Kalchenko, The Weizmann Institute of Science, Israel: Advanced Transcranial Optical Vascular Imaging
10:00-10:30	<i>Igor Meglinski</i> , OU: Enabling polarization based imaging techniques for non-invasive cancer detection and tissue characterization
10:30-11:00	<i>Alexander Priezzhev</i> , 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	<i>Juha Voipio</i> , University of Helsinki: DC-EEG and excitability
12:30-13:00	<i>Outi Kuittinen</i> , OU: Blood brain barrier disruption: Imaging of blood brain barrier and brain lymphoma treatment
13:00-13:30	<i>Vesa Kiviniemi</i> , 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	<i>Ilkka Miinalainen</i> , OU: SEM and correlative light / electron microscopy at BCO TIC
14:15-14:30	<i>Lassi Rieppo</i> , OU: Raman imaging at Department of Medical Technology
14:30-15:00	<i>Janne Heikkilä &amp; Lauri Eklund</i> , 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