

Oulu Biolimaging (OBI) Network Workshop in April 10, 2013

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: Wednesday, 10th April, 2013, at 08:30 - 16:30.

Location: Lecture Hall 202F, Department of Pharmacology, Medical Campus at Kontinkangas, Aapistie 5A.

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

PROGRAM FOR THE 2ND OBI NETWORK WORKSHOP

08:30-09:00 *Getting together, posters and refreshments in front of the lecture hall*

National and European-level strategies for imaging infrastructures

09:00-09:15	Sinikka Eskelinen , BCO: Opening words and integration of Oulu bioimaging to the European infrastructure.
09:15-09:45	Vuorio Eero , Biocenter Finland: National and European-level strategies for implementing open access research infrastructures.

Session 1:

09:45-10:10	Joonas Autio , OU: Small animal magnetic resonance imaging.
10:10-10:35	Mikko Finnilä , OU: Current status of Oulu uCT facilities and recent advances in uCT imaging.
10:35-11:00	Zoltan Szabo , BCO, OU: Pre-clinical micro-ultrasound imaging.
11:00-11:25	Tomi Pitkäaho , Oulu Southern Institute OU: Digital holographic microscopy in morphometric analysis of three-dimensional cell cultures.

11:25 – 12:15 *Lunch break*

Session 2:

12:15-12:40	Janne Ihäläinen , JyU: Raman microspectroscopy: tools to see molecular details from tissue, cells, and solutions.
12:40-13:05	Jouni Jussila , Specim: Hyperspectral imaging.
13:05-13:30	Santtu Heinilehto , MNT center OU: X-ray photoelectron spectroscopy (XPS) in chemical surface analysis.
13:30-13:55	Alessandra Scarpellin , Nikon: Nikon's solutions for high-resolution imaging of mesoscopic-scale biological specimens.

13:55 – 14:30 *Coffee and posters*

Session 3:

14:30-14:55	Veli-Pekka Ronkainen , BCO: Advanced light microscopy modalities at BCO.
14:55-15:20	Matti Kinnunen , OU: Photoacoustic excitation and imaging of guided waves along bone covered with tissue phantom.
15:20-15:45	Gabriela Lorite , OU: Atomic Force Microscopy: Principles and application in biosciences.
15:45-16:10	Esa Rahtu , OU: Computer vision methods for cancer classification and malaria detection from microscopic images.

Closing of the OBI Day

16:10-16:30	Open discussion on the future strategies to develop local imaging infrastructures and their integration to the national and European imaging networks.
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