

Oulu Bio Imaging (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 09:00 - 16:00.

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.

Session1

- 09:45-10:10 **Janne 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**, OU: Pre-clinical micro-ultrasound imaging
- 11:00-11:25 **Tomi Pitkääho**, OU: Digital holographic microscopy in determination of cyst's degree of density.

11:25 – 12:15 *Lunch*

Session 2:

- 12:15-12:40 **Janne Ihalainen**, 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 **Veli-Pekka Ronkainen**, BCO: Advanced light microscopy modalities at BCO.
- 13:30-13:55 **Santtu Heinilehto**, MNT center OU: X-ray photoelectron spectroscopy (XPS) in Chemical Surface Analysis.

14:00–14:30 *Coffee and posters*

Session 3:

- 14:30-14:55 **Matti Kinnunen**, OU: Photoacoustic excitation and imaging of guided waves along bone covered with tissue phantom.
- 14:55–15:20 **Gabriela Lorite**, OU: Atomic Force Microscopy: Principles and Application in Biosciences.
- 15:20-15:45 **Esa Rahtu**, OU: *tbd*

Closing of the OBI Day

- 15.45-16.00 Open discussion on the future strategies to develop local imaging infra-structures and their integration to the national and European imaging networks.

