

6th Oulu BioImaging (OBI) Day, June 1st 2017

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: Thu, June 1st, 2017, at 9:00 - 16:00.

Location: Saalasti Hall, University Main Building, Linnanmaa Campus.

Study credits: 0.3 ECTS (participation only) - 0.8 ECTS (participation + poster), [registration here](#) by May 18th

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PROGRAM

Session 1, Chair: Lauri Eklund

- 9:00-9:10 Jukka Riekk, Dean of Faculty of Information Technology and Electrical Engineering, University of Oulu: Welcoming speech
- 9:10-9:15 Lauri Eklund, University of Oulu: Opening Oulu Bioimaging Day
- 9:15-9:30 Sinikka Eskelinen, University of Oulu: Past, current and future perspectives of Oulu BioImaging
- 9:30-9:55 Zeev Zalevsky, Bar-Ilan University, Israel: Usage of light for remote and simultaneous "hearing" of many physiological parameters
- 9:55 – 10:15 *Sponsored Coffee*

Session 2, Chair: Alexey Popov

- 10:15-10:40 Jerome Thevenot, University of Oulu: Medical applications of thermal imaging
- 10:40-11:05 Teemu Myllylä, University of Oulu: Towards continuous monitoring of the glymphatic system of the human brain
- 11:05-11:30 Ilya Skovorodkin, University of Oulu: Challenges and solutions in high resolution 4D confocal imaging of multicellular embryonic tissues and organoids
- 11:30 – 12:30 *Lunch Break & Posters*

Session 3, Chair: Seppo Vainio

- 12:30-12:55 Ilkka Pölönen, University of Jyväskylä: Hyperspectral imaging in the diagnosis of skin cancer
- 12:55-13:20 Saad Ullah Akram, University of Oulu: Cell tracking via proposals generation and selection
- 13:20-13:45 Aleksei Tiulpin, University of Oulu: Deep learning for medical image analysis
- 13:45-14:10 Ronald Sroka, Laser-Forschungslabor, University Hospital Munich, Germany: Fluorescence diagnostics and photodynamic therapy
- 14:10 – 14:30 *Sponsored Coffee & Posters*

Session 4, Chair: Vesa Kiviniemi

- 14:30-14:55 Tatiana Novikova, Ecole Polytechnique, Palaiseau, France: Polarimetry for biomedical research
- 14:55-15:20 Anne Heikkinen, University of Oulu: Collagen XIII deficiency in mice models congenital myasthenic syndrome type 19
- 15:20-15:45 Timo Tuovinen, Oulu University Hospital: CV mapping of fMRI data in different brain diseases
- 15.45-16.00 The best poster award and closing the day