

OBSERVING THE INVISIBLE - NOVEL IMAGING HORIZONS

August 10th 2011, Mauno Koivisto Auditorium, BioCity

Opening

9:00 John Eriksson, Åbo Akademi University, Turku

- *An overview of Biocenter Finland Imaging network and Turku BioImaging*

A taste of Imaging in Finland; from molecules to men (chair Olli Gröhn)

9:15 Pekka Hänninen, Laboratory of Biophysics, University of Turku

- *High resolution imaging in Turku*

9:30 Cecilia Sahlgren, Turku Centre for Biotechnology

- *Novel probes for optical imaging and cellular tracking in vivo*

9:45 Diana Toivola, Åbo Akademi University, Turku

- *In vivo imaging of colitis in mice*

10:00 Pirjo Nuutila, University of Turku and Turku Univ Hospital PET Centre

- *Overview of PET Imaging in Turku*

10:15 Coffee

10:30 Olli Gröhn, University of Eastern Finland

- *MRI of Small Animals, UEF*

10:45 Elina Ikonen, Institute of Biomedicine, University of Helsinki

- *Imaging lipids in living cells and tissues*

A taste of the National Biophotonics Imaging Platform Ireland (chair Michael Courtney)

11:00 Brian Harvey, Dept of Molecular Medicine, Royal College of Surgeons Ireland

- *Overview of National Biophotonics Imaging Platform, Ireland*

- *Combined electrophysiology and fluorescence imaging*

11:30 Martin Leahy, Dept of Physics, UL and recently appointed Chair of Applied Physics, NUIG

- *Microcirculation Imaging*

11:45 Jochen Prehn, Dept of Physiology and Medical Physics, Royal College of Surgeons Ireland

- *Apoptosis signaling, FRET, high throughput*

12:00 Peter Dockery, Dept of Anatomy, National University of Ireland Galway (NUIG)

- *Stereology Research within NBIP*

12:15 Paul Whelan, CIPA, Dublin City University (DCU)

- *Computer Aided Detection for Biomedical (Cellular) Applications*

12:30 Hugh Byrne, Focas Institute, Dublin Institute of Technology (DIT)

- *Cell, tissue spectroscopic imaging with Raman/FTIR*

12:45 Lunch

A taste of Chicago (chair John Eriksson)

14:00 Hao Zhang, Northwestern University, Chicago, USA

- *Functional photoacoustic microscopy for high-resolution and noninvasive in vivo imaging*

14:45 Teng-Leong Chew, Northwestern University Feinberg School of Medicine, Chicago, USA

- *Integrating imaging and vascular engineering to visualize tumor invasion*

15:15 Coffee

Mixing it up (chair Elina Ikonen)

15:30 Thomas Frodl, Psychiatry, School of Medicine, Trinity College Dublin (TCD)

- *Neuroimaging genetics*

15:45 Patrice Mollard, CNRS, France

- *Cellular in vivo imaging with long range objectives and optogenetic tools*

16:00 Kieran Mc Dermott, University College Cork (Neuroscience)

- *BioSciences Imaging Centre in UCC: imaging the nervous system in development and repair*

16:15 Eleanor Coffey, Turku Centre for Biotechnology

- *Multimodal imaging of neuronal function*

16:30 Michael Courtney, University of Eastern Finland

- *Automated imaging to dissect stress activated protein kinase function in neurons*

16:45 Daniel Abankwa, Turku Centre for Biotechnology

- *A novel switch in Ras*