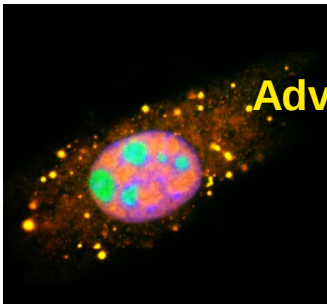
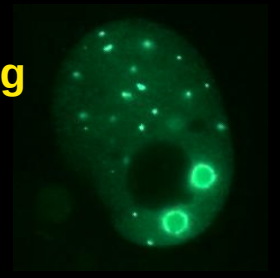




Advanced Technologies in Biological Imaging Biomedicum Helsinki

University of Helsinki, October 26-31, 2006



Thursday, October 26, 2006

Opening of the symposium

- 9.00 Marikki Laiho (University of Helsinki, Helsinki, Finland)
Welcome remarks

Session 1 Live cell imaging

Chair: Elina Ikonen (University of Helsinki, Helsinki, Finland)

- 9.00 Timo Zimmerman (EMBL, Heidelberg, Germany)
Live cell imaging
- 9.45 Rushika Perera (Yale University, New Haven, CT, USA)
Live cell imaging and membrane traffic
- 10.30 *Coffee break, exhibit viewing*
- 11.00 Annemieke Walker (Invitrogen, CA, USA)
Qdot® nanocrystals and dyes for live cell imaging
- 11.30 Maxime Dahan (Laboratoire Kastler Brossel, Paris, France)
Quantum dots for analysis of cellular trafficking
- 12.15 Emmet McCormack (University of Bergen, Bergen, Norway)
In vivo optical imaging

13.00 *Lunch break*

Session 2 Fluorescent fusion proteins and spectral imaging

Chair: Marikki Laiho (University of Helsinki, Helsinki, Finland)

- 14.00 Vsevolod Belousov (Evrogen JSC, Moscow, Russia)
Novel photoactivatable, phototoxic and sensory fluorescent proteins
- 14.30 René Hessling (Carl Zeiss, Göttingen, Germany)
Spectral imaging and spectral unmixing
- 15.00 *Coffee break, exhibit viewing*

Session 3 Advanced imaging tools

Chair: Marikki Laiho (University of Helsinki, Helsinki, Finland)

- 15.30 Kirsten Bacia (Max-Planck Institute, Dresden, Germany)
Fluorescence correlation spectroscopy for quantifying molecular dynamics
- 16.15 Rainer Heintzmann (King's College London, London, UK)
Recent advances in high-resolution light microscopy
- 17.00 End of first day

Friday, October 27

Session 4 High Content Microscopy

Chair: Anne Vaahtokari (University of Helsinki, Helsinki, Finland)

- 9.00 Stephen Wong (Harvard Medical School, Boston, MA, USA)
Statistical analysis of high-content screening data
- 9.45 Eberhard Krausz (Max-Planck Institute, Germany)
High-content screening for genome-wide functional analysis of human kinases
- 10.30 Annemieke Walker (Invitrogen, CA, USA)
Fluorescent imaging solutions for high-content screening
- 11.00 *Coffee break, exhibit viewing*

Session 5 Project presentations

Chair: Anne Vaahtokari (University of Helsinki, Helsinki, Finland)

- 11.30 Four presentations to be selected 15 min each
- 12.30 *Lunch break*

Session 6 Image analysis and reconstruction

Chair: Mika Hukkanen (University of Helsinki, Helsinki, Finland)

- 13.30 Pasi Kankaanpää (University of Turku, Turku, Finland)
3D image analysis and visualization
- 14.15 Olli Yli-Harja (Technical University of Tampere, Tampere, Finland)
Computational imaging
- 15.00 Jason Swedlow (University of Dundee, Dundee, Scotland)
Open Microscopy Environment
- 16.00 End of the symposium

October 30-31, 2006 Practical training course for 16 students

Course teachers: Mikko Liljeström (MIU/CIU), Ville-Veikko Oksa (MIU), and Anne Vaahtokari (MIU)

Image analysis - Live cell imaging - High content screening - Confocal imaging

More information: www.miu.helsinki.fi/seminars.htm

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University of Helsinki**