

European Light Microscopy Initiative (ELMI)
5-8 June 2012
KU Leuven

Provisional Program:

Tuesday, 5 June 2012

16.00 - 18.00	Arrival and registration
18.00 - 18.15	Welcome
18.15 - 19.45	Keynote lecture Paul Wiseman McGill
20.00	Dinner

Wednesday, 6th June 2012

Session 1: Frontiers of microscopy & Super-resolution (Mike Heilemann)

08.45 - 09.15	<i>Nanoscale imaging of receptor organization and dynamics in neuronal excitatory synapses</i> Daniel Choquet (Bordeaux)
09.15 - 09.45	<i>Single-molecule fluorescence in bacterial cells</i> Achillefs Kapanidis (Oxford)
09.45 - 10.00	Abstract Presentation 1
10.00 - 10.15	Abstract Presentation 2
10.15 - 10.45	<i>Advances in Fluorescence Super-resolution Biplane FPALM and STED Microscopy</i> Jörg Bewersdorf (Yale)
10.45 - 11.15	Coffee Break

Session 2: Probes and Sensors (Johan Hofkens)

11.15 - 11.45	<i>Engineering a colourful next generation of genetically encoded probes and sensors.</i> Robert E. Campbell (British Columbia)
11.45 - 12.15	Johan Hofkens (K.U.Leuven)
12.15 - 12.30	Abstract Presentation 3
12.30 - 12.45	Abstract Presentation 4
12.45 - 13.15	<i>Switchable fluorescent proteins for RESOLFT live cell nanoscopy</i> Stefan Jakobs (MPI Goettingen)
13.15 - 14.30	Lunch
14.30 - 17.30	Workshops
18.00 - 18.45	Eurobioimaging: Status Quo
19.00 - 20.00	Poster Session with Drinks and Snacks
(18.45 - 20.00)	Steering Committee Meeting)

Thursday, 7th June 2012

Session 3: Systems Microscopy (Rainer Pepperkok)

- 08.45 - 09.15 *High throughput Microscopy to Study Membrane Traffic and Organelle Biogenesis in Mammalian Cells*
Rainer Pepperkok (EMBL)
- 09.15 - 09.45 *Fluorescence lifetime imaging for cell biology, high content analysis and clinical diagnosis*
Paul French (Imperial College)
- 09.45 - 10.00 Abstract Presentation 5
- 10.00 - 10.45 Jennifer Russinova (VIB)
- 10.45 - 11.15 Coffee Break

Session 4: Correlative techniques AFM, EM, etc (Paul Verkade)

- 11.15 - 11.45 Lucy Collinson (LRI, London)
- 11.45 - 12.15 Paul Verkade (Bristol)
- 12.15 - 12.45 Abstract Presentation 6
- 12.45 - 13.00 Abstract Presentation 7
- 13.00 - 13.45 *New approaches for correlated LM and 3D EM applied to MULTISCALE CHALLENGES: Bridging Gaps in Knowledge and Understanding*
Keynote 2 Mark Ellisman (San Diego)
- 13.45 - 14.45 Lunch
- 14.45 - 18.00 Workshops
- 18.00 - 00.00 Social Event

Friday, 8th June 2012

Session 5: Analysis (Jason Swedlow)

- 08.45 - 09.15 *From intelligent screening microscopes to integrated knowledge*
Urban Liebel (KIT)
- 09.15 - 09.45 *Open Hardware and Software approach to Selective Plane Illumination Microscopy*
Pavel Tomancak (MPI Dresden)
- 09.45 - 10.00 Abstract Presentation 8
- 10.00 - 10.30 Evelyne Friederich (Luxemburg)
- 10.15 - 10.45 Coffee Break

Session 6: Biology seen anew, Optogenetics & Manipulation

- 10.45 - 11.15 *Studying the Function of Neural Circuits in small brains*
Emre Yaksi (NERF, Leuven)
- 11.45 - 12.00 Abstract Presentation 9
- 12.00 - 12.15 Abstract Presentation 10
- 12.15 - 12.45 *Direct observation of single dyneins diffusing and interacting with microtubules in vivo*
Iva Tolic-Norrelykke (MPI Dresden)
- 12.45 Sandwich Lunch

Session 7: 3-D, intra vital & living samples (Holger Gerhardt)

- 13:30-14:00 *Infrared multiphoton microscopy: deep insights into tumor progression and resistance.*
Peter Friedl (Radboud)
- 14:00-14:30 Spencer Shorte (Parasite Institut Pasteur)
- 14:30-14:45 Abstract Presentation 11
- 14.45-15.00 Abstract Presentation 12
- 15:00 Concluding remarks