

TOPIM 2010 - Imaging Systems Biology

	Monday, 8 February	Tuesday, 9 February	Wednesday, 10 February	Thursday, 11 February	Friday, 12 February
08:00	BREAKFAST				
SESSION	HOT TOPICS		HOT TOPICS		HOT TOPICS
09:00 - 09:45	Introduction SSC	Michael K. Richardson (Leiden, Netherlands): "Imaging of living zebrafish embryos in a microfluidics lab-on-chip"	Jason Crain (Teddington, UK): "Imaging of Host Pathogen Interactions: CARS and Multiphoton microscopy"	Philippe Bastiaens (Dortmund, Germany): "Imaging the spatial organization of signalling networks"	Nadine Peyrieras (Gif sur Yvette, France): "In toto imaging for the reconstruction of embryogenesis multiscale dynamics"
09:45 - 10:30	Opening Lecture by Hans Werner Mewes (Munich, Germany): "Systems Biology from Molecular Knowledge to Images"	Elena Kardash (Münster, Germany): "In vivo imaging of cell migration in Zebrafish"	Jost Enninga (Paris, France): "Functionalized fluorescence microscopy to correlate the internalization of invasive pathogens with the induced host immune responses"	Norbert Rolland (Grenoble, France): "Subcellular and subplasmidial proteomics to study intracellular trafficking of proteins"	Paul Bourguine (Paris, France): "Reconstructing multi-scale dynamics in morphogenesis of living systems"
10:30 - 11:00					
11:00 - 11:45	Short introductory presentation by each participant (1-2 minutes each)	John Lock (Huddinge, Sweden): "A Systems Microscopy Analysis of Cell Adhesion and Migration - Applications to Novel Adhesion Biology"	Soeren-Oliver Deininger (Bremen, Germany): "High Resolution MALDI Molecular Imaging of Rat Testis"(TBC)	Marius Ueffing (Tübingen, Germany): "Modest attempts to cross dimensions: moving towards 4D approaches to analyse protein networks over space and time"	Marc Birtwistle (Dublin, Ireland): "Systems Modeling of Epidermal Growth Factor and Nerve Growth Factor Signaling in PC12 Cells Based on Interaction Proteome Data: New Insights into Transient vs. Sustained ERK Activation" (#7) Katrin Büther (Münster, Germany): "Bimodal Molecular Imaging of the Endothelin-A-Receptor Expression in Murine Thyroid Cancer Xenografts using Small Animal PET and Optical Imaging" (#14) Karin Radrich (Neuherberg, Germany): "Fluorescent Molecular Tomography provides quantitative spatio-temporal resolution of specific molecular processes and diseases" (#40)
11:45 - 12:00	Francesca Arena (Torino, Italy): "Poly-beta-Cyclodextrin based Platform for pH mapping via a ratiometric 19F/1H MRI method" (#33)	Eric Marijn Wielhouwer (Leiden, Netherlands): "Multipurpose BioChip: A novel 4D image and data acquisition technology for drug discovery" (#22)	Andrea Starsichova (Münster, Germany): "Characterization of atherosclerosis and myocardial infarction in a scavenger receptor class B member 1 deficient, hypomorphic apolipoprotein E mouse model" (#11)	James Bagnall (Liverpool, UK): "Intracellular signalling dynamics of Hypoxia-Inducible Factors" (#8)	Maria Athellogou (Munich, Germany): "Multimodal Image Data Analysis and Quantification" (#42)
12:00 - 12:15	Kristine Schauer (Paris, France): "Construction of probabilistic density maps for micropatterned cells: a computational imaging approach to systematically study the global cellular architecture of endomembranes" (#3)	Pavel Tomancak (Dresden, Germany): "Systematic analysis of gene expression patterns in Drosophila embryonic development" (#38)	Julia Lindquist (Turku, Finland): "The intermediate filament nestin as a regulator of myogenic differentiation" (#37)	Denise Bakstad (Liverpool, UK): "Investigation of the Dynamic Behaviour of p100 and p105 in Single Cells" (#12)	CONCLUSION SSC
12:15 - 12:30		Masanari Takamiya (Karlsruhe, Germany): "Visualization of zebrafish cornea development" (#13)	J.M. Liang (Hong Kong): "Ca2+ Response to Acupuncture-induced Acoustic Waves in Cells: More Insights into the Roles of Transient Receptor Potential Channels (I+2)" (#1+2)	Thomas Viel (Cologne, Germany): "Dynamic evolution of angiogenesis dependent and independent brain tumor models presenting the tumoral heterogeneity observed in human" (#6)	
12:30	LUNCH				
13:30					
14:00					
15:00					
16:00					
SESSION	HOT TOPICS		HOT TOPICS		HOT TOPICS
17:00 - 17:45	Julie Plastino (Paris, France): "Actin and Major Sperm Protein cytoskeleton assembly for motility"	Dimitris Kalamatianos (Maynooth, Ireland): "Image analysis for automated live-cell imaging"	Bob van de Water (Leiden, Netherlands): "Quantitative imaging-based functional genomics screening in cancer research"	Julio Vera (Rostock, Germany): "Meta-analysis of strategies for mathematical modelling and data integration in cancer signalling systems biology"	
17:45 - 18:30	Antonio Rosato (Florence, Italy): "Mechanistic systems biology of metal ions in cells"	Hermann Schillers (Münster, Germany): "AFM in Biomedicine: Imaging and Beyond"	Xavier Gidrol (Grenoble, France): "Kinome-targeted siRNA screen identifies kinases regulating the differentiation/proliferation balance of prostate cancer cells"	Alexander von Kriegsheim (Glasgow, UK): "Modelling MAPK crosstalk"	
18:30 - 19:15	Claire Wilhelm (Paris, France): "Intracellular magnetic nanoparticles to image and manipulate the cell"	Violaine See (Liverpool, UK): "Single live cell imaging to capture cell to cell heterogeneity and unravel the fine tuning of gene transcription"	Wim Vermeulen (Rotterdam, Netherlands): "DNA repair and transcription in living tissue"	Poster presentation	
19:15 - 19:30	Delphine Fayol (Paris, France): "Magnetic cell patterning for tissue engineering applications" (#5)	Louise Ashall (Liverpool, UK): "Heterogeneity of NF-kappaB oscillations observed in live cells can be explained by transcriptional delay" (#36)	Sandra Zovko (Leiden, Netherlands): "An siRNA-based high throughput microscopy screen to identify regulators of cell-matrix adhesion dynamics in breast cancer cells" (#9)		
19:30	DINNER				
20:30					