IbSB 2014 Program

Thursday 25 September

12.00	oo Registration opens			
13.00	Openi	ing		
Sessio	on: Ima	nge-derived Models of Spatial Organization		
13.10-13.55		Robert F. Murphy , Carnegie Mellon University and Albert Ludwig University of Freiburg		
		Image-derived spatiotemporal models of subcellular organization differentiation and perturbation		
13.55-1	14.40	Jean-Christophe Olivo-Marin, Institut Pasteur		
		Colocalisation analysis of biomolecules		
14.40-	15.00	Thomas Zerjatke, Technical University Dresden		
		Comparison of image-based measures on spatial heterogeneity in ESC colonies		
15.00-	15.30	Coffee break		
Sessio	on: Aut	comated Image Segmentation and Classification		
15.30-1	16.15	Stephen J. McKenna, University of Dundee		
		Automating the analysis of histopathology images		
16.15-1	6.35	Haiyue Yu, University of Oxford		
		Automatic assessment of immuno-fluorescent tissue image quality using a machine learning approach		
16.35-1	16.55	Adrian Friebel, University of Leipzig		
		Quantification of liver tissue by image processing		
16.55-1	17.15	Stefan Helfrich, Forschungszentrum Jülich GmbH		
		Investigating single-cell growth of microbial cell factories: is counting cells enough?		
17.20		Poster session and harbecue		

Friday 26 September

Session: Cell Tracking Approaches		
09.00-09.45	Karl Rohr, University of Heidelberg, BIOQUANT, IPMB, and DKFZ	
	Tracking and registration for automatic analysis of live cell image data	
09.45-10.05	Damian Stichel, University of Heidelberg	
	Analysis of migrating NSCLC cells using particle image velocimetry	
10.05-10.25	Konstantin Thierbach, Technical University Dresden	
	Cell tracking accuracy - quantification and consequences	
10.25-10.55	Coffee break	
Session: Analysis of Image-derived Cell Shape and Migration		
10.55-11.40	Till Bretschneider, University of Warwick	
	Mapping amoeboid cell migration	
11.40-12.00	Zoltan Cseresnyes, German Rheumatism Research Center (DRFZ)	
	Fourier transform-based fast characterization of cell shapes as a tool for intelligent classification of cells in intravital microscopy	
12.00-12.20	Marco Körner, Friedrich Schiller University of Jena	
	Behavioral classification of cells by observing their spatial dynamics: a self-similarity approach	
12.20-13.45	Lunch break	
Session: Image-derived Models of Cellular Dynamics and Interactions		
13.45-14.30	Joost Beltman, Netherlands Cancer Institute	
	Analyzing and modelling immune cell migration	
14.30-14.50	Szymon Stoma, INRIA and ETH Zürich	
	Image-based modeling of drug delivery in HeLa multicellular spheroids	
14.50-15.10	Jan Hasenauer, Helmholtz Zentrum München	

Model-based outliers treatment in image-based systems biology:

filtering vs. noise model

Closing

15.10