

# 3<sup>rd</sup> Annual Systems Microscopy Consortium meeting and Technical review meeting

June 1-3, 2014

Stockholm, Sweden

Venue: Skogshem och Wijk, Lidingö, Stockholm

Lecture hall: Wijken

## Sunday, June 1<sup>st</sup>

	<b>Arrival</b>
16.30-18.30	<b>Visit to Millesgården</b> Guided tour
19.00-19.40	<b>New “Associate Member”</b> <b>Rafael Edgardo Carazo Salas, University of Cambridge</b> <b>“Discovering the genes, pathways &amp; systems-level interactions that control cellular morphogenesis “</b> Chair: Staffan Strömblad
19.40-20.00	<b>Uri Alon-guitar</b> <b>“Love and fear in the lab”</b> A guitar discussion of the subjective and emotional aspects of doing science
20.00	<b>MINGLING with light meal</b>

# Monday, June 2<sup>nd</sup>

8.50-9.00	Welcome: Staffan Strömblad
	<b>Session 1: "Advanced computer vision techniques in biology"</b> <i>Chair: Yin Cai and Julius Hossain</i>
9.00-9.50 (40+10) min	<i>Invited Speaker: Dr Jean-Christophe Olivo-Marin, Institut Pasteur</i> <b>" Quantitative Cell Dynamics "</b>
9.50-10.10 (15+5) min	<i>Speaker: Christophe Sommer, IMBA</i> <b>"Phenotype discovery by outlier detection in high-content screening"</b>
10.10-10.30 (15+5) min	<i>Speaker: Julius Hossain, EMBL</i> <b>"Towards a 4D computational model of the dividing human cell"</b>
10.30-11.00	<b>COFFEE</b>
	<b>Session 2: " Mechanical sensing in cell migration "</b> <i>Chair: Joseph Barry</i>
11.00-11.50 (40+10) min	<i>Invited Speaker: Dr. Erik Danen, Leiden University</i> <b>" Integrin signaling in control of cancer growth and metastasis"</b>
11.50-12.10 (15+5) min	<i>Speaker: Pablo Hernandez Varas, Karolinska Institutet</i> <b>"Role of vinculin-mediated force transmission in adhesion complex regulation"</b>
12.10-12.30 (15+5) min	<i>Speaker: Michiel Fokkelman, Leiden University</i> <b>"An Imaging-based Tumor Cell Migration Phenotypic RNAi-screen to Identify Novel Candidate metastasis genes"</b>
12.30-12.50 (15+5)	<i>Speaker: Ariel Livne, Weizmann Institute</i> <b>"Cell reorientation under cyclic stretching"</b>
13.00-14.30	<b>LUNCH/ SAB meeting with EB members</b>

	<p><b>Session 3: “ “Molecular networks for Systems Microscopy”</b>  <i>Chair: Pablo Hernandez Varas and Aurelio Moya Garcia</i></p>	
<p><b>14.30-15.20</b>  <b>(40+10) min</b></p>	<p><i>Invited Speaker: Dr. <b>Uri Alon</b>, Weizmann Institute of Science</i>  <b>“Noise genetics: inferring motility proteins by correlating motion phenotype and protein levels in individual living cells “</b></p>	
<p><b>15.20-15.40</b>  <b>(15+5) min</b></p>	<p><i>Speaker: Vasiliki-Maria Rogkoti, Leiden University</i>  <b>“An integrated Systems Microscopy and Transcriptomics analysis identifies gene signatures of breast cancer tumor cell migratory and invasive behavior”</b></p>	
<p><b>15.40-16.00</b>  <b>(15+5) min</b></p>	<p><i>Speaker: Bernd Fischer, EMBL</i>  <b>“Estimating directed epistatic interactions from multi-phenotype combinatorial RNAi data”</b></p>	
<p><b>16.00-16.50</b>  <b>(40+10) min</b></p>	<p><i>Invited Speaker: Davide Danovi, King's College London</i>  <b>“High content screening of stem cells for drug discovery and disease modelling”</b>  <i>Chair: Gabriella Rustici</i></p>	
<p><b>17.00-19.00</b></p>	<p><b>Coffee / Poster Session</b></p>	<p><b>(18.30)</b>  <b>Steering committee meeting</b></p>
<p><b>19.30</b></p>	<p><b>DINNER</b></p>	

## Tuesday, June 3<sup>rd</sup>

9.00-9.05	Sasa Jenko-Technical Review meeting
9.05-9.40 (25 +10) min	Systems Microscopy NoE: Aims and goals Management, Dissemination and Training <b>Staffan Strömblad</b> /Karolinska Institutet
9.40-10.30 (40+10) min	“Systems Biology Analysis of Cell Division” <b>Jan Ellenberg</b> /EMBL
<b>10.30-11.00</b>	<b>COFFEE</b>
11.00-11.30 (20+10) min	“Systems Biology Analysis of Cell Migration” <b>Benny Geiger</b> /Weizmann Institute
11.30-12.00 (20+10) min	“Multidimensional Quantitative Analysis of Cell Images for Systems Microscopy” <b>Zvi Kam</b> /Weizmann
12.00-12.30 (20+10) min	“Translational applications and outcome of Systems Microscopy” <b>Olli Kallioniemi</b> /FIMM-UH
<b>12.30-14.00</b>	<b>LUNCH</b>
14.00-14.30 (20-10) min	“Development and application of a public database for systems microscopy” <b>Alvis Brazma</b> /EMBL-EBI
14.30-15.20 (40+10) min	“Data analysis and modelling for understanding systems through microscopy” <b>Wolfgang Huber</b> /EMBL
15.20	European commission-Sasa Jenko, Project Officer
15.40	Closing remarks: Staffan Strömblad
<b>16.30</b>	<b>DEPARTURE-Buss to airport</b>