

EMBO|EMBL Symposium: Structure and Dynamics of Protein Network 13 - 16 October 2011

Day 1: Thursday 13 October 2011

15:00 - 17:00 Arrival & Registration
17:15 - 17:30 Welcome
17:30 - 18:30 Keynote Session Peter E. Wright, The Scripps Research Institute - "*Promiscuous liaisons: functional interactions of intrinsically disordered proteins in signaling networks*"
18:30 - 20:00 Session 1 - Signalling Networks and Circuits – Information networks
18:30 - 19:00 Garry Nolan, Stanford School of Medicine - "*Systems immunology at the single cell level*"
19:00 - 19:30 Philippe Bastiaens, MPI for Molecular Physiology - *to follow*
19:30 - 20:00 Suzanne Gaudet, Harvard Medical School - "*Life in the balance: variability in cellular responses to death-inducing ligands*"
20:00 - 21:30 Dinner
21:00 - 23:00 Roof Top Lounge

Day 2: Friday 14 October 2011

09:00 - 10:15 Session 1 (cont) - Signalling Networks and Circuits – Information networks
09:00 - 09:30 Giulio Superti-Furga, Center for Molecular Medicine of the Austrian Academy of Sciences - *to follow*
09:30 - 10:00 Marko Kaksonen, EMBL - "*Dynamics of clathrin-mediated endocytosis in yeast*"
10:00 - 10:15 Kenji Maeda, EMBL - "*A map of non-vesicular lipid transport in Saccharomyces cerevisiae uncovered using tandem affinity purification-tag strains*"
10:15 - 10:45 Coffee Break
10:45 - 11:45 Session 1 (cont) - Signalling Networks and Circuits – Information networks
10:45 - 11:15 Anne-Claude Gavin, EMBL - "*A systematic screen for protein–lipid interactions in Saccharomyces cerevisiae*"
11:15 - 11:30 Angelika Harbauer, Freiburg University - "*Mitochondrial protein biogenesis is regulated by cytosolic kinases*"
11:30 - 11:45 Evangelia Petsalaki, SLRI, Mount Sinai Hospital - "*Systematic study of the role of human RhoGAPs/GEFs in the spatio-temporal control of Rho signaling specificity*"
11:45 - 14:00 Lunch
14:00 - 15:45 Session 2 - Structure-Based Networks
14:00 - 14:30 Patrick Aloy, Institute for Research in Biomedicine - "*A network medicine approach to human disease*"
14:30 - 15:00 Martin Beck, EMBL - "*Investigating human nuclear pore composition by targeted proteomics*"
15:00 - 15:15 Guido Capitani, Paul Scherrer Institute - "*An evolutionary method for distinguishing biological interfaces from crystal contacts: applications to structure-based networks*"
15:15 - 15:45 Coffee Break
15:45 - 17:30 Session 2 - Structure-Based Networks
15:45 - 16:15 Tanja Kortemme, University of California, San Francisco - "*Design and engineering of proteins, interactions and networks*"
16:15 - 16:45 Eva Wolf, MPI of Biochemistry - "*Actions and interactions of circadian clock proteins*"
16:45 - 17:15 Philip Selenko - Leibniz Institute of Molecular Pharmacology (FMP Berlin) "*Cellular PTMs and Conformational Plasticity of Protein Network Hubs*"
17:15 - 17:30 Guillermo Montoya, CNIO - "*Crystal structure of the open conformation of the mammalian chaperonin CCT in complex with tubulin*"
17:30 - 19:30 Poster Session 1 (Helix A)
19:30 - 21:00 Dinner
20:30 - 23:00 Roof Top Lounge

Day 3: Saturday 15 October 2011

09:00 - 14:45 Session 3 - From Quantitative Network to Cell Biology – Cell Biology of Protein Networks
09:00 - 09:30 Ian Cheeseman, Whitehead Institute and Department of Biology, MIT - "*Anatomy of a kinetochore: Building a microtubule attachment site*"
09:30 - 10:00 François Nédélec, EMBL - "*Effective spatial organization from simple cytoskeletal elements*"

10:00 - 10:15 Victor Sourjik, University of Heidelberg - *"Robust information processing in bacterial chemotaxis"*
10:15 - 10:45 Coffee Break
10:45 - 12:00 Session 3 (cont) - From Quantitative Network to Cell Biology – Cell Biology of Protein Networks
10:45 - 11:15 Marino Zerial, MPI of Molecular Cell Biology and Genetics - *"Systems analysis of endosomal transport and signalling"*
11:15 - 11:45 Jussi Taipale, University of Helsinki - to follow
11:45 - 12:00 Alejandro Granados, Universidad Nacional Autónoma de México - *"Information processing in the signaling network of B. subtilis"*
12:00 - 14:00 Lunch
14:00 - 14:45 Session 3 - From Quantitative Network to Cell Biology – Cell Biology of Protein Networks
14:00 - 14:30 Lucas Pelkmans, University of Zurich - *"Functional and molecular diversification of the endocytic pathways and their cell-to-cell variability"*
14:30 - 14:45 Markku Varjosalo, ETH Zurich - *"Charting the human kinome interactome"*
14:45 - 15:15 Coffee Break
15:15 - 16:15 Keynote Session Tom Kirchhausen, Harvard Medical School - *"Dynamics of endocytosis "*
16:15 - 17:15 Keynote Session Tony Pawson, Samuel Lunenfeld Research Institute Mt. Sinai Hospital - *"Post-translational modifications in the assembly of regulatory protein networks"*
17:15 - 19:15 Poster Session 2 (Helix A)
19:15 - 00:00 Dinner & Party

Day 4: Sunday 16 October 2011

09:00 - 12:30 Session 4 - Multiscale analysis and integration of Cellular Networks
09:00 - 09:30 Chris Bakal, The Institute of Cancer Research - *"Information Processing During Cellular Morphogenesis"*
09:30 - 10:00 John Briggs, EMBL - *"Studying dynamic membrane budding processes by correlating light and electron microscopy"*
10:00 - 10:30 Natasa Przulj, Imperial College London - *"Network topology complements sequence as a source of biological information"*
10:30 - 11:00 Coffee Break
11:00 - 12:30 Session 4 (cont) - Multiscale analysis and integration of Cellular Networks
11:00 - 11:30 Ben Lehner, CRG Centre for Genomic Regulation - *"Dynamics of genetic interaction networks"*
11:30 - 12:00 Aurelien Roux, University of Geneva - *"Essential elastic and shape parameters govern the dynamics and energetics of dynamin-mediated membrane fission"*
12:00 - 12:15 Oleksiy Kovtun, Institute for Molecular Bioscience - *"All in vitro approach to deciphering assembly of multisubunit protein complexes"*
12:15 - 12:30 Zoe Hilioti, Centre for Research and Technology Hellas (CERTH) - *"Mapping of signaling events during collective life formation"*
12:30 - 12:45 Closing Remarks