

11th EMBO Young Investigator Programme Meeting

P R O G R A M M E

Monday, 16 May 2011

09:30 – 10:00 Welcome - Gerlind Wallon and Maria Leptin

Session I: Computational biology

10:00 - 10:15 Kristian Vlahovicek - TBC
10:15 - 10:30 Matthias Selbach - Genome-wide parallel quantification of mRNA and protein levels and turnover in mammalian cells
10:30 - 10:45 Ben Lehner - Predicting the phenotypes of individuals
10:45 - 11:00 Fyodor Kondrashov - The geometry of sequence space
11:00 - 11:15 Wolfgang Huber (EMBL) - Mapping genetic interactions

☇ 11:15 - 11:45 **Coffee Break**

Session II: Structural biology

11:45 - 12:00 Luca Jovine - 3D structure of Sperm Receptor ZP3 and the molecular basis of gamete interaction at fertilization
12:00 - 12:15 David Komander - Specificity in the ubiquitin system
12:15 - 12:30 Daniel Wilson - Lost in translation
12:30 - 12:45 Marcin Nowotny - Structural studies of bacterial nucleotide excision repair protein UvrA

✕ 12:45 -13:45 **Lunch**

Session III: Cell and tissue architecture

13:45 - 14:00 Erik Sahai - Cancer cell invasion in complex environments
14:00 - 14:15 Edwina McGlenn (EMBL Melbourne, Australia) - TBC
14:15 - 14:30 Taija Makinen - Morphogenesis of the lymphatic vascular system
14:30 - 14:45 Benjamin Hogan (University of Queensland) - Characterising novel regulators of vascular development in zebrafish

14:45 - 15:15 **EMBL Core Facilities - Christian Boulin & Vladimir Benes (GeneCore)**

☇ 15:15 - 15:45 **Coffee Break**

Session IV: Proteins and biochemistry

15:45 - 16:00 Agnieszka Chacinska - Disulfide bond formation in mitochondria - nothing by chance
16:00 - 16:15 Andrzej Dziembowski - Structural features of the THO complex facilitating its hromatin recruitment for co-transcriptional mRNP formation
16:15 - 16:30 Stepanka Vanacova - Architecture of the TRAMP4 complex: insights into RNA binding, protein-protein interactions and exosome recruitment
16:30 - 16:45 Maja Köhn (EMBL) - Investigation of phosphatases using chemical biology tools
16:45 - 17:00 Kausik Chakraborty (Institute of Genomics and Integrative Biology, Delhi) - TBC

17:00 - 18:30 **EMBO Update**

✕ 18:30 - 19:30 **Dinner (EMBL Canteen)**

19:30 - 21:00 **After-dinner drinks (EMBL Operon Foyer)**

Tuesday, 17 May 2011

Session V: Neurobiology

- 09:00 - 09:15 Mikael Simons - Myelin biogenesis in the central nervous system
09:15 - 09:30 Beatriz Rico - On the assembly of neural circuits: from axon development to synapse formation
09:30 - 09:45 Ertugrul Kilic - The effects of vascular endothelial growth factor on survival and brain plasticity after cerebral ischemia
09:45 - 10:00 Giles Hardingham - Control of degenerative processes in neurons
10:00 - 10:15 Andre Fischer - Epigenome plasticity in neurodegenerative diseases
10:15 - 10:30 Tiago Outeiro - Protein misfolding: from the bedside to the bench
10:30 - 10:45 Michelle Adams - Cognitive aging and its relationship to synaptic structure and function

☇ 10:45 - 11:15 **Coffee Break**

Session VI: Genome regulation and stability

- 11:15 - 11:30 Gernot Längst - Regulation of chromatin structure by ciRNA's
11:30 - 11:45 Davide Corona - Chromatin remodeling regulation by ncRNA
11:45 - 12:00 Marc Bühler - Emerging roles of RNAi in genome regulation
12:00 - 12:15 Lars Jansen - Epigenetic centromere inheritance
12:15 - 12:30 Madalena Tarsounas - Cellular responses to DNA damage and uncapped telomeres

✕ 12:30 - 14:00 **Group Photo and Lunch**

Session VII: Stem cells and proliferation control

- 14:00 - 14:15 Cedric Blanpain - Epithelial stem cells during homeostasis and cancer initiation
14:15 - 14:30 Lolitika Mandal (Indian Institute of Science Education and Research, Mohali) - Characterization of signalling components of Drosophila haematopoiesis
14:30 - 14:45 Eugene Berezikov - Experimental potential of the regenerating flatworm *Macrostomum lignano*
14:45 - 15:00 Viljar Jaks - Hair follicle as a model for adult stem cell biology
15:00 - 15:15 Eric So - TBC
15:15 - 15:30 Jesus Gil - Cell-nonautonomous senescence

☇ 15:30 - 16:00 **Coffee Break**

Session VIII: Transcription

- 16:00 - 16:15 Duncan Odom - Evolution of transcriptional regulation in mammals
16:15 - 16:30 Arnold Kristjuhan - Distribution of elongating RNA Polymerase II complexes in transcribed gene locus
16:30 - 16:45 Tomasz Wilanowski - Grainyhead-like transcription factors
16:45 - 17:00 Jason Carroll - Understanding Estrogen Receptor function in breast cancer
17:00 - 17:15 Luisa Figueiredo - Histone H1 modulates antigenic variation in African trypanosomes

17:15 **Meet the EMBO Editors** - Bernd Pulverer

✕ 19:30 **Dinner in the Linde**

Wednesday, 18 May 2011

Session IX: Cell division

- 09:00 - 09:15 Monica Bettencourt-Dias - Centrosome biogenesis and evolution
09:15 - 09:30 Monica Gotta - Centrosome maturation and spindle positioning
09:30 - 09:45 Christian Haering (EMBL) - Organizing chromosomes for mitosis
09:45 - 10:00 Adele Marston - Coupling chromosome disjunction to spindle assembly during meiosis
10:00 - 10:15 Patrick Meraldi - The metaphase plate
10:15 - 10:30 Juan Martin-Serrano - Mechanisms of functional specificity within the ESCRT machinery
10:30 - 10:45 Martin Anger - Chromosome segregation and aneuploidy in mammalian oocytes
10:45 - 11:00 Sophie Martin - Cell morphogenesis and cell cycle in fission yeast
11:00 - 11:30 **Coffee Break**

Session X: Metabolism

- 11:30 - 11:45 Almut Schulze - Regulation of cell metabolism by PI3-kinase/Akt signalling and its role in cell growth and transformation
11:45 - 12:00 Romeo Ricci - Transactivating properties of hairless in adipocyte differentiation
12:00 - 12:15 Pawel Bednarek - How plants generate chemical diversity? Tryptophan derived metabolites in the immunity of Brassicaceae species
12:15 - 12:30 Cory Dunn - Genetic requirements of cells lacking a mitochondrial genome
12:30 - 12:45 Aurelio Teleman - Insulin signaling in Drosophila
12:45 - 13:00 Alena Krejci - Notch signalling at the context of cellular metabolism
✕ 13:00 - 14:00 **Lunch**
14:00 - Coffee in the Operon Foyer / departures

As at 6th May 2011