

7th EMBO Young Investigator Programme Meeting

PROGRAMME

Wednesday, 13 June 2007



12:00 **Light Lunch**
13:00 Welcome (Gerlind Wallon, Frank Gannon, Hermann Bujard)

Session I: Immunology and Disease – Chair: Annette Oxenius

13:15 – 13:27 Antonella Viola - The T cell immunological synapse
13:27 – 13:39 Devrim Gözüaçik - Autophagy as a cellular stress and programmed cell death mechanism
13:39 – 13:51 Maria Rescigno - Role of Dendritic cells in bacterial handling in the gut
13:51 – 14:03 Annette Oxenius - Immunity to infections
14:03 – 14:15 Elena A. Levashina - Mosquito immune responses against malaria parasites
14:15 – 14:27 Nesrin Özören - Inflammasome Activation and Disease



14:30 – 15:15 **Coffee Break**

Session II: Structural Biology – Chair: Oliver Einsle

15:15 – 15:27 Krzysztof Ginalski - Structure and function prediction for uncharacterized and poorly annotated proteins
15:27 – 15:39 Tim Clausen - Regulation of the sigma E stress-response by the DegS protease
15:39 – 15:51 Matthias Bochtler - Restriction endonucleases that resemble MthI, a component of the DNA repair machinery
15:51 – 16:03 Oliver Einsle - Structure of Acetylene Hydratase
16:03 – 16:15 Raimund Dutzler - The regulatory domains of ClC chloride channels and transporters.
16:15 – 17:27 Round table discussions: Structural Biology, Laboratory Management and Systems Biology
17:27 – 18:39 Meet the EMBO Journal Editor



Dinner

Thursday, 14 June 2007

Session III: Gene Expression and Genomics – Chair: Gernot Längst



09:00 – 09:12 Jérôme Cavallé - Imprinted small RNA genes
09:12 – 09:24 Petr Svoboda - Long dsRNA expression in mammalian cells.
09:24 – 09:36 Katja Sträßer - A novel player in translation???
09:36 – 09:48 Irina Stancheva - Gene silencing by DNA methylation in cancer
09:48 – 10:00 Philippe Pasero - Single-molecule analysis of eukaryotic DNA replication and genomic instability
10:00 – 10:12 Lumir Krejci - Molecular dissection of Rad52 mediator activity
10:12 – 10:24 Andrzej Dziembowski - Structure and activity of the exosome complex.
10:24 – 10:36 Olivier Voinnet - RNA silencing in eukaryotes



10:40 – 11:15 **Coffee Break**

11:15 – 11:27 Bruno Klaholz - Integrative structure-function study of complexes involved in gene expression regulation.




- 11:27 – 11:39 Arnold Kristjuhan - Displacement of nucleosomes during elongation of RNA Polymerase II.
- 11:39 – 11:51 Gernot Längst - Positioning nucleosomes on the DNA. Evidence for the existence of a chromatin remodeling code
- 11:51 – 12:03 Dirk Schübeler - Targets and function of DNA methylation in mammalian genomes
- 12:03 – 12:15 François Fuks - Mechanisms of DNA methylation and its intimate link with histone modifications
- 12:15 – 12:27 Anton Wutz - Xist sorts chromatin for restricting dosage compensation to one specific chromosome
- 12:27 – 12:39 Sigal Ben-Yehuda - Scanning the chromosome for lesions at the onset of sporulation in *Bacillus subtilis*
-  12:45 – 14:00 **Lunch**
- 14:00 – 15:15 Discussion Session: Chair – Frank Gannon - How best to foster institutional excellence: bottom-up or top-down?
-  15:15 – 15:30 **Coffee Break**


Session IV: DNA repair – Chair: Vincenzo Costanzo

- 15:30 – 15:42 Simon Boulton - Sensing and repair of DNA damage in S-phase
- 15:42 – 15:54 John Rouse – TBA
- 15:54 – 16:06 Vincenzo Costanzo - DNA damage response and genome stability: The role of ATM, ATR and the Mre11 complex

Session V: Evo/Devo – Chair: Henrik Kaessmann

- 16:10 – 16:22 Kristian Vlahovicek - Codon usage bias at the level of microbial communities
- 16:22 – 16:34 Santiago Elena - TBA
- 16:34 – 16:46 Henrik Kaessmann - Birth of New Genes in the Human Genome
- 16:46 – 16:58 Miltos Tsiantis - Evolution of leaf development
- 16:58 – 17:10 Jozsef Mihaly - *Drosophila* Rab23 is a PCP gene involved in the regulation of wing hair number
- 17:10 – 17:22 Kevin Mitchell - Bidirectional semaphorin signaling in neural development.
-  17:25 – 17:45 **Coffee Break**


Session VI: Cancer Biology – Chair: Jean-Christophe Marine

- 17:45 – 17:57 Bruno Silva-Santos - Innate mechanisms of tumour immunosurveillance
- 17:57 – 18:09 Johanna Ivaska - Integrins as negative regulators of RTK signalling
- 18:09 – 18:21 Jean-Christophe Marine - Dissecting the p53 tumor suppressor pathway using the mouse as a model system
-  18:30 – 19:00 Women in Science: YIPs under survey – Gerlind Wallon
Dinner in Heidelberg




Friday, 15 June 2007

Session VII: Systems Biology – Chair: Jussi Taipale

- 09:00 – 09:12 Victor Sourjik - Signalling in bacterial chemotaxis as an example of evolutionary optimization
09:12 – 09:24 Dirk Bumann - System-level analysis of Salmonella-host interactions.
09:24 – 09:36 Jussi Taipale - TBA
09:36 – 09:48 Michael Boutros - Systematic Analysis of Wnt Signaling Pathways
09:48 – 10:00 Jan Lohmann - Regulatory networks of plant stem cell control
10:00 – 10:12 Michael Stumpf - Thrifty genes
 10:15 – 11:00 **Coffee Break**

Session VIII: Cell Biology – Chair: Karim Labib

- 11:00 – 11:12 Karim Labib - Copying chromosomes and cutting cells
11:12 – 11:24 Buzz Baum - cell shape through the cell cycle
11:24 – 11:36 Krisztina Káldi - Light dependent phosphorylation of clock components in Neurospora crassa
11:36 – 11:48 Marko Kaksonen - Dynamics of Endocytic Machinery
11:48 – 12:00 Luca Scorrano - Keeping ER and mitochondria together
12:00 – 12:12 Ruth Palmer - TBA
12:12 – 12:24 Axel Behrens - Transcriptional control by MAP kinases
 12:25 – 13:45 **Lunch**
13:45 – 14:30 Frank: EMBO etc
14:30 – 15:30 Round table discussions: Immunology & Disease, Gene expression and repair
Afternoon / evening off