

## 8<sup>th</sup> EMBO Young Investigator Programme Meeting

### PROGRAMME

Wednesday, 18 June 2008

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- ✂ 12:00      **Light Lunch**  
13:00      Welcome (Gerlind Wallon and Hermann Bujard)

#### Session I: Cell Cycle – Chair: Arp Schnittger

- 13:15 – 13:30    Philippe Pasero - Maintenance of replication fork integrity at natural pause sites  
13:30 – 13:45    Vincenzo Costanzo - Studying cell cycle and genome stability using a cell-free system  
13:45 – 14:00    Arp Schnittger - Cell cycle control and development  
14:00 – 14:15    Christian Häring (EMBL) – Mitotic chromosome structure and dynamics  
☕ 14:15 – 14:45    **Coffee Break**

#### Session II: Chromatin structure, genome stability & genetic information – Chair: François-Xavier Barre

- 14:45 – 15:00    Kristian Vlahovicek (IG) - Codon usage in metagenomes  
15:00 – 15:15    François-Xavier Barre - Topological management of the two Vibrio chromosomes by a common FtsK-dependent Xer recombination pathway  
15:15 – 15:30    Paloma Más - A functional link between rhythmic changes in chromatin structure and the Arabidopsis biological clock

#### Session III: RNA Structure and function – Chair: Javier Martínez

- 15:30 – 15:45    Javier Martínez - Identification of new factors in RNA silencing  
15:45 – 16:00    René Ketting - Small RNA functions in germ cells  
16:00 – 16:15    Petr Svoboda (IG) - Maternal mRNA degradation  
16:15 – 16:30    Richard Stefl (SG) - ADAR2 recognizes non-canonical elements of RNA double helix  
16:30 – 16:45    Teresa Carlomagno (EMBL) – Intermolecular interactions studied by NMR  
✂ 16:45 – 17:15    **Coffee Break – wine, beer and soft drinks**  
  
17:15 – 18:45    Parallel round table discussion (wine, beer and soft drinks)  
19:00      **Dinner in EMBL Canteen**

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Thursday, 19 June 2008

#### Session IV: Signalling – Chair: Giles Oldroyd

- 09:00 – 09:15    Vítězslav Bryja (IG) - Achieving specificity in the Wnt signalling  
09:15 – 09:30    Attila Remenyi (IG) - Specificity of protein-protein interactions in MAP kinase networks  
09:30 – 09:45    Giles Oldroyd - Specificity in symbiosis signalling  
09:45 – 10:00    Agnieszka Dobrzyń (IG) - Lipids in insulin resistance development  
10:00 – 10:15    Miguel Del Pozo - Caveolin-1 in Anchorage – dependent cell cycle progression  
10:15 – 10:30    Michael Boutros - Dissecting Cellular Signalling Networks



 10:00 – 10:45 **Coffee Break (Group Photograph)**

**Session V: Immunology – Chair: Annette Oxenius**

10:45 – 11:00 Annette Oxenius - Innate and adaptive immunity to Legionella pneumophila infection


11:00 – 11:15 Philippe Bousso - Cellular orchestration of T cell responses in vivo

**Session VI: Systems – Chair: Jussi Taipale**

11:15 – 11:30 Jussi Taipale - Systems Biology of Cancer

11:30 – 11:45 Victor Sourjik - Noise and robustness in the bacterial chemotaxis network

11:45 – 12:00 Jan Lohmann - Regulatory networks of plant stem cell control

 12:00 – 13:30 **Lunch**

**Session VII: Devo – Chair: Pascale Zimmermann**

13:30 – 13:45 Pascale Zimmermann - Syntenin, a small but essential and multi-tasking PDZ protein in vertebrates

13:45 – 14:00 Ervin Welker (SG) - Detecting native-folds in mixtures of disulfide-bond-containing proteins


14:00 – 14:15 Miltos Tsiantis - Towards understanding evolution of leaf development pathways

14:15 – 14:30 Thomas Hummel - Patterning the Drosophila Olfactory System

14:30 – 14:45 Marco Milán - Growth control in the Drosophila wing: an interplay between Notch and Wingless


14:45 – 15:00 Nicolas Tapon - Control of epithelial integrity by Drosophila Src signalling

15:00 – 15:15 Holger Gerhardt - Controlling sprouting angiogenesis: a tale of leaders and followers

 15:15 – 15:30 **Coffee Break**

15:30 – 15:45 Gergely Szakacs (IG) - Targeting Multidrug Resistant Cancer

15:45 – 16:45 YIP Feedback

 16:45 – 17:00 **Coffee Break**

**Session VIII: Evo – Chair: Henrik Kaessmann**

17:00 – 17:15 Henrik Kaessmann - RNA-based gene duplication

17:15 – 17:30 Irina Stancheva - Gene silencing by DNA methylation and MBD family proteins

17:30 – 18:30 EMBO Editors discussion session

 19:00 **Depart for dinner in Molkenkur**

**Friday, 20 June 2008**

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**Session IX: Structural Biology – Chair: Oliver Einsle**

09:00 – 09:15 Fabrizio Chiti - Analysis of the aggregation propensity of the human proteome

09:15 – 09:30 Carsten Janke - The role of tubulin polymodifications in microtubule functions

09:30 – 09:45 Volkhard Helms - Bioinformatics of Helical Transmembrane Proteins: TMX and MINS

09:45 – 10:00 Andrzej Dziembowski (IG) - Novel endonuclease activity of the exosome complex

 10:00 – 10:30 **Coffee Break**





- 10:30 – 11:00 João Morais Cabral (IG) - The crystal structure of an ion channel  
11:00 – 11:15 Marcin Nowotny (IG) - Structural Studies of RNase H, from substrate recognition to catalysis  
11:15 – 11:30 Oliver Einsle - TBA  
11:30 – 11:45 Krzysztof Ginalski - TBA  
11:45 – 12:00 Bojan Žagrović (IG) - Helical signature motif in the fiber diffraction patterns of random walks  
11:45 – 13:00 **Lunch**

### **Session X: Neurobiology – Chair: Sandrine Etienne-Manneville**

- 13:00 – 13:15 Sandrine Etienne-Manneville - Intercellular contacts and cell polarity  
13:15 – 13:30 Tibor Harkany - Endocannabinoid signaling in the developing brain  
13:30 – 13:45 Francesca Peri (EMBL) - Microglia: the guardians of the developing brain  
13:45 – 14:00 Arzu Çelik (IG) - TBA  
14:00 – 15:30 Discussion Session: Future of Scientific Publishing – Ernst Hafen (ETH Zürich) and Les Grivell (EMBO)  
**Departure**

Parallel round table discussion topics

- Lab management/personnel management (chair: Fabrizio Chiti)
- In vivo imaging (chair: Attila Remenyi)
- Cell Cycle (chair: Arp Schnittger)
- High throughput genomic technologies (chair: Philippe Pasero)

IG – Installation Grantee

SG – Startup Grantee

As at 13 June 2008