

NGFN Meeting, November 10th – 11th, 2007 (DKFZ Heidelberg)

Programme

Saturday, November 10th, 2007

8:30 – 9:00 am **Welcome:** **Otmar D. Wiestler**, Scientific Director, DKFZ
Peter Lange, Director-General Life Sciences-Research for Health, BMBF
Stefan Schreiber, Speaker NGFN Project Committee

Symposium I: Genetic Medicine (Chairs: Peter Propping and Max Baur)

9:00 – 9:45 am **Keynote: Mike Owen**, Department of Psychological Medicine, Cardiff University, UK
9:45 – 10:00 am **Monika Stoll**: Living in a box: Three cosegregating genes determine heart failure
10:00 – 10:15 am **Andre Franke**: Unravelling common susceptibility loci of complex inflammatory diseases by the joint analysis of 1000k genome-wide association study (GWAS) datasets of seven distinct disorders
10:15 – 10:30 am **Rami Abou Jamra**: Association studies of variation of the FAT gene in 3 bipolar affective disorder samples
10:30 – 10:45 am **Thomas Wuttke**: Neutralization of a negative charge in the S1-S2 region of the KV7.2 (KCNQ2) channel affects voltage-dependent activation in neonatal epilepsy
10:45 – 11:15 am *Coffee Break*

Symposium II: Chronic Inflammation in the Development of Complex Diseases (Chairs: Hugo Katus und Trinad Chakraborty)

11:15 – 12:00 am **Keynote: Karin DeVisser**, The Netherlands Cancer Institute, Amsterdam, NL
12:00 – 12:15 am **Ria Baumgrass**: Control of regulatory T cell induction by the TGF-beta specific transcriptional repressor TGIF
12:15 – 12:30 am **Jochen Hess**: S100-RAGE signaling in chronic inflammation and tumour development
12:30 – 12:45 am **Philip Rosenstiel**: A role for membrane-bound CD147/EMMPRIN in NOD2-mediated recognition of bacterial cytoinvasion
12:45 – 1:00 pm **Gregor Bein**: Toll-like receptor (TLR) 7 and TLR9 signaling in type I interferon driven inflammatory diseases
1:00 – 3:00 pm *Lunch Break and Poster Session I*
1:30 – 3:00 pm **Illumina Workshop**: From Whole Genome to Whole Solution, Disease Analysis Tools for the Next Generation

Symposium III: Animal, Cellular and Tissue Models in Translational Research (Chairs: Martin Hrabé de Angelis and Erich Wanker)

3:00 – 3:45 pm **Keynote: Anton Berns**, The Netherlands Cancer Institute, Amsterdam, NL
3:45 – 4:00 pm **Christian Maercker**: High-content screening in cell chips based on electric cell-substrate impedance sensing
4:00 – 4:15 pm **Helmut Fuchs**: Systemic analysis of mouse mutants at the German Mouse Clinic
4:15 – 4:30 pm **Markus Morkel**: Dissecting regulatory networks controlling EMT and mesoderm formation in the mouse embryo
4:30 – 4:45 pm **Philipp Kahle**: DJ-1 C-terminal helix-kink-helix motif and oxidizable residues essential for protein stability and apoptosis signal-regulating kinase-1 interaction
4:45 – 5:15 pm *Coffee Break*

Symposium IV: Quality Management and Technology Transfer (Chairs: Stefan Wiemann and Christian Stein)

5:15 – 5:30 pm **Stefan Wiemann**: The MIACA minimum information guideline for cellular assays and systems biology
5:30 – 5:45 pm **Ruprecht Kuner**: Microarray technology: Extracting novel scientific knowledge by comparison and integration of independent studies across different platforms
5:45 – 6:00 pm **Stefan Dübel**: SMP "Antibody Factory" – Recombinant antibodies for proteome research
6:00 – 6:10 pm **Isabel von Korff**: Technology transfer and the NGFN: results and achievables
6:10 – 6:20 pm **Christian Stein**: Connectivity between Academia and NGFN Research

Evening Lecture

6:30 – 6:45 pm **Introduction by Peter Propping**, University of Bonn, D
6:45 – 7:30 pm **Wolfgang van den Daele**: Science in society – Research in genetics is not really free
7:30 pm - open end: *Get-Together and Poster Session I*

Sunday, November 11th, 2007

Symposium V: Quantitative Biology and Systems Genetics

(Chairs: Hans Lehrach and Chris Turck)

- 9:00 – 9:45 am **Keynote: Lars Steinmetz**, EMBL Heidelberg, D
- 9:45 – 10:00 am **Stephanie Bechtel**: A Genome-wide RNAi screen to identify modulators of human P38 signalling
- 10:00 – 10:15 am **Gudrun Brockmann**: Structural model analysis for adiposity in mice
- 10:15 – 10:30 am **Christian Löbke**: Application of Reverse Phase Protein Microarrays for Network Analysis in Cell Lines and Solid Tumors
- 10:30 – 10:45 am **Hans Lehrach**: Second generation sequencing
- 10:45 – 1:00 pm **Lunch Break and Poster Session II**

- 11:00 – 12:00 am **Affymetrix Workshop**: Rapid high-resolution karyotyping by combining genome-wide SNP-mapping- with genome-wide exon expression arrays: An applied systems biology approach for cancer research

- 12:00 – 1:00 pm **febit Workshop**: febit for fast, flexible, focused microarray technology. Think outside the blue box: Profiling of miRNAs & other small, non-coding RNAs

Symposium VI: The Way to Medical Systems Biology

(Chairs: Stefan Schreiber and Werner Mewes)

- 1:00 – 1:45 pm **Keynote: Joe Nadeau**, Case Western Reserve University, Cleveland, USA
- 1:45 – 2:00 pm **Dorit Arlt**: From whole genome siRNA screens to systems biology: The glycosaminoglycan degradation pathway in cancer metastasis
- 2:00 – 2:15 pm **Silke Sperling**: Cardiac transcription networks - interplay between epigenetic and genetic factors
- 2:15 – 2:30 pm **Walter Schubert**: The human TOPONOME project: Translating the cellular protein network code into efficient therapies
- 2:30 – 2:45 pm **Sascha Losko**: A Data Mining Solution for Biomedical Knowledge Discovery and Prediction – The Biomax BioXM™ Knowledge Management Environment and Viscosity® Data Mining Technologies
- 2:45 – 3:00 pm **Özgür Sahin**: Modeling of G1/S transition in ErbB2-overexpressing and Trastuzumab-resistant breast cancer using combinatorial RNAi
- 3:00 pm **Concluding Remarks: Martin Hrabé de Angelis**, Speaker NGFN Project Committee