

PROGRAMM SCHEDULE – BERLIN SUMMER RETREAT 2012
(long talks: 45 min + 15 min discussion, regular talks: 25 + 10, short talks: 15 + 5)

Thursday, 28 June 2012

07:30 Departure with bus shuttle from MDC Campus to Hotel Doellinsee

09:00 – Registration + Coffee

09:45 – 10:00 **Nikolaus Rajewsky (MDC) /Klaus Rajewsky (MDC)**
Welcome & Thesis Presentation

Session I – Systems Biology

Session Chair: N. Rajewsky

10:00 – 11:00 **Fabio Piano (New York University)**
Genetic networks in development and evolution

11:00 – 12:00 **Stephen Cohen (Institute of Molecular and Cell Biology, Singapore)**
Genetic dissection of microRNA functions

12:00 – 12:20 Coffee Break

12:20 – 12:55 **Nikolaus Rajewsky (MDC)**
Gene regulation by small RNAs and RNA binding proteins

12:55 – 13:15 **Alex Löwer (MDC)**
We are all individuals: The importance of studying heterogeneity in single cells

13:15 – 15:00 Lunch break

Session Chair: M. Landthaler

15:00 – 15:20 **Markus Landthaler (MDC)**
The mRNA-proteome and its global occupancy profile on protein-coding transcripts

15:20 – 15:40 **Filippos Kironomos (Theoretical Physics, University of Cologne)**
How to model post-transcriptional regulation and get away with it

15:40 – 16:00 Coffee break

16:00 – 16:35 **Norbert Hübner (MDC)**
Systems Genetics – genetic dissection of quantitative molecular and cardiometabolic phenotypes

16:35 – 16:55 **Nils Blüthgen (Charité)**
Systematic quantification of feedback regulation in EGFR signal transduction

17:00 Group photo Session

from 19:00 Dinner

Friday, 29 June 2012

Session II – Mouse Genetics & Cancer

Session Chair: K. Rajewsky

- 08:30 – 09:30 **Allan Bradley (WTS Institute, Cambridge, UK)**
Genetic screens in embryonic stem cells
- 09:30 – 10:30 **Neal Copeland (MHR Institute, Houston, Texas)**
Harnessing transposons for cancer gene discovery
- 10:30 – 10:50 Coffee Break
- 10:50 – 11:25 **Claus Scheidereit (MDC)**
Experimental and computational analysis of regulatory nodes in NF-kappaB signalling
- 11:25 – 12:00 **Klaus Rajewsky (MDC)**
Mouse models of oncogene cooperation and miRNA control
- 12:00 – 14:00 Lunch Break

Session Chair: M. Reth

- 14:00 – 14:20 **Matthias Merkenschlager (MRC London)**
Global analysis of transcription factor targets in the context of B cell lineage specification and progression identifies Ikaros proteins as drivers of pre-B cell differentiation
- 14:20 – 14:40 **Dean Felsher (Stanford University)**
Modeling and predicting oncogene addiction
- 14:40 – 15:00 **Matthew Poy (MDC)**
The regulatory role of Argonaute2 in the pancreatic β -cell secretome
- 15:00 – 15:20 Coffee Break
- 15:20 – 16:20 **Michael Reth (MPI Freiburg)**
Synthetic biology of receptor signaling
- 17:00 – 20:00 Archery (“Bogenschiessen”)
- 20:00 Dinner

Saturday, 30 June 2011

Session III – Mouse Genetics, Synthetic Biology & Diseases

Session Chair: U. Ohler

- 09:00 – 10:00 **Uwe Ohler (Duke University/MDC)**
Deciphering human transcription regulation: from individual sites to cell type expression
- 10:00 – 10:20 Coffee Break
- 10:20 – 10:55 **Carmen Birchmeier (MDC)**
Nrg1 signaling, mRNA translation and myelination
- 10:55 – 11:30 **Thomas Willnow (MDC)**
Mathematic modeling of amyloidogenic processing in Alzheimer's disease
- 11:30 – 12:00 **Panel Discussion**
- from 12:30 Lunch
- 14:30 Departure with bus shuttle from Hotel Doellnsee to MDC Campus