

Sunday, 21 June 2009

17:00 – 21:00 Registration

from 18:30 Buffet Supper / Informal get together

Monday, 22 June 2009

07:45 BREAKFAST

08:40 – 08:45 U. Gerland / M. Lässig **Welcome and opening**

08:45 – 09:00 E. Dreisigacker **About the Wilhelm and Else Heraeus Foundation**

09:00 – 09:45 D. Bray **Control of cellular behaviour: insights from bacterial chemotaxis**

09:45 – 10:30 V. Sourjik **Noise, robustness and memory in bacterial chemotaxis**

10:30 – 11:00 COFFEE BREAK

11:00 – 11:45 M. Kollmann **Evolutionary driving forces that shaped the architecture of bacterial signaling pathways**

11:45 – 12:30 M. Vergassola **Biological strategies of motility**

12:30 **Conference photo**

12:45 LUNCH

14:30 – 15:15 M. Leisner **Competence development in *Bacillus subtilis***

15:15 – 16:15 **Oral poster presentations I** (2 min. each)

16:15 – 16:45 COFFEE BREAK

16:45 – 17:30 K. Sneppen **Small molecular networks**

17:30 – 18:30 **Oral poster presentations II** (2 min. each)

19:00 DINNER

from 20:00 **Poster session I**

Followed by a social evening at the invitation of the Wilhelm und Else Heraeus-Stiftung in the "Bürgerstube" at the Physikzentrum

Tuesday, 23 June 2009

- 08:00 BREAKFAST
- 09:00 – 09:45 K. Kruse **Dynamics of Min proteins in vivo and in vitro**
- 09:45 – 10:30 M. Howard **How do bacteria segregate low copy number plasmids?**
- 10:30 – 11:00 COFFEE BREAK
- 11:00 – 11:45 M. Scott **Growth laws and mechanisms of global control in bacteria**
- 11:45 – 12:30 P. Lenz **Quantitative studies of nitrogen assimilation in *E. coli*: from molecules to physiology**
- 12:45 LUNCH
- 14:30 – 15:15 P.R. Ten Wolde **Why walking slower can make you respond faster**
- 15:15 – 16:00 J. Rädler **Dynamics and variance of microbial response and its control by gene regulatory networks**
- 16:00 – 16:30 COFFEE BREAK
- 16:30 – 17:15 L. Mirny **How do proteins find and bind their sites on DNA?**
- 17:15 – 19:00 **Poster session II**
- 19:00 DINNER
- from 20:00 **Poster session II** – continued

Wednesday, 24 June 2009

- 08:00 BREAKFAST
- 09:00 – 09:45 S. Maerkl **Characterizing transcription factor biophysics with microfluidic devices**
- 09:45 – 10:30 V. Mustonen **From fitness landscapes to seascapes: non-equilibrium dynamics of selection and adaptation**
- 10:30 – 11:00 COFFEE BREAK
- 11:00 – 11:45 R. Bundschuh **An evolutionary hypothesis and computational identification of insertional RNA editing sites**
- 11:45 – 12:30 J. Berg **Modelling gene expression dynamics**
- 12:45 LUNCH
- 14:00 – 17:00 **Excursion** (leisurely hike in the vicinity)
- 17:00 – 17:45 S. Tans **The evolution of gene regulation in synthetic microbial systems**
- 17:45 – 18:30 I. Matic **Modulation of mutation rates in bacteria**
- 18:30 DINNER
- 19:30 – 19:45 **Presentation of the best poster awards**
- 19:45 – 20:30 E. van Nimwegen **Laws of prokaryotic genome evolution**
- 20:30 – 21:15 O. Hallatschek **Life on the edge: gene surfing in microorganisms**

Thursday, 25 June 2009

08:00 BREAKFAST

09:00 – 09:45 F. Jülicher **Dynamic organization of epithelia**

09:45 – 10:30 L. Hufnagel **Growth regulation during development:
mechanical interactions**

10:30 – 11:30 COFFEE BREAK / **Focal discussion**

11:30 – 12:15 E. Frey **Bacterial Games - on the role of space and
stochasticity in coevolutionary dynamics**

12:30 LUNCH

End of the seminar and departure