

GRK 1708: Molecular principles of bacterial survival strategies

Retreat in Oberjoch

26 – 28. September 2012

Wednesday, 26.09.2012

- 8:30 Departure in Tübingen
- 11:00 -11:30 Arrival in Oberjoch
- 12:30 Lunch**
- 13:30 – 15:00 Bacterial Survival Strategies I**
- 13:30 – 14:10 *C. Wolz*: SOS response, antibiotic resistance and bacterial cell death
- 14:10 – 14:35 *A. Coskun*: Dps proteins (DNA-binding proteins from starved cells) in the bacterial response to stress conditions
- 14:35- 15:00 *N. Nolle*: Toxin-Antitoxin (TA) systems of Staphylococci
- 15:00 – 15:30 Coffee-break**
- 15:30 – 16:20 Bacterial Survival Strategies II**
- 15:30 – 15:55 *T. Gauger*: Microbial iron cycling
- 15:55 – 16:20 *B. Bálint*: Iron stress in bacteria
- 16:20 – 16:30 Short Break**
- 16:30 – 18:00 **Methods**: List of methods: discussion of the methods and organizing lab-rotation
- 18:30 Dinner**
- 20:00 Get-together**

Thursday, 27.09.2012

- 8:00 – 8:45 Breakfast**
- 8:45 – 10:15 Bacterial Survival Strategies III**
- 8:45 – 9:25 *K. Forchhammer*: Nutrient-starvation induced Chlorosis in Cyanobacteria: A mechanism to survive in "stand-by"
- 9:25 – 9:50 *W. Hauf*: Transcriptomic adaptation of *Synechocystis sp.* PCC6893 to nitrogen starvation
- 9:50 – 10:15 *A. Klotz*: Glycogen with short average chain length enhances bacterial durability
- 10:15 – 10:45 Coffee-break**
- 10:45 – 12:55 Bacterial Survival Strategies IV**
- 10:45 – 11:25 *S. Grond*: Small Natural Product Molecules: Tools to explore new chemistry and biology
- 11:25 – 11:50 *D. Weisbrod*: Survival within the habitat of bacteria, fungi and ants
- 11:50 – 12:15 *S. Rohrer*: Interactions between streptomycetes and other organisms
- 12:15 – 12:55 *R. Sommer*: Nematode – bacterial interactions
- 12:55 Lunch**
- 14:00 – 18:00 Walking-tour
- 18:30 Dinner**
- 19:30 Round table session – brainstorming and discussion

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Friday, 28.09.2012

- 8:00 – 8:45** **Breakfast and leaving rooms**
- 8:45 – 10:55** **Bacterial Survival Strategies V**
- 8:45 – 9:25 *I. Maldener*: A novel role of the cell wall structure in prokaryotic cell differentiation
- 9:25 – 9:50 *R. Perez*: Adaptation to N-stress by forming heterocystin cyanobacteria
- 9:50 – 10:15 *I. Flade*: Fitness factors of **E. coli** – commensal versus pathogenic
- 10:15 – 10:40 *A. Schmidt*: Bacterial survival strategies under different temperatures
- 10:40 – 10:55 Concluding remarks
- 10:40 – 11:15** **Coffee-break and Departure**