

23rd SFB 680 Seminar day on **Microbial Evolution**

23.6.2016

- VENUE:** Institute for Theoretical Physics (New Building), Zülpicher Str. 77a
- 14:00 **Berenike Maier**, Welcome address
- 14:05 **Hinrich Schulenburg**, Christian-Albrechts-Universität zu Kiel, Rapid de novo evolution of bacterial resistance to antibiotic combinations
- 14:50 **Mark Zwart**, Universität zu Köln, Chance and necessity in the evolution of antibiotic resistance
- 15:20 **Joachim Krug**, Universität zu Köln, Causes of epistasis in Fisher's geometric model
- 15:50** **Coffee break**
- 16:30 **Daniel Rozen**, Universität Leiden, Working towards understanding antibiotics outside of the clinic
- 17:15 **Torsten Held**, Universität zu Köln, Evolutionary limits to microbial complexity
- 17:45 **Karin Mitosch**, IST Austria, Klosterneuburg, Antibiotics-induced cross-protection at the single-cell level
- 18:30 Dinner (Catered buffet)**

24.6.2016

- VENUE:** **Biocenter**, Zülpicher Str. 47b, Lecture Hall Ground Floor
- 09:00 **Tobias Bollenbach**, IST Austria Klosterneuburg, Quantitative determinants of antibiotic resistance evolution
- 09:45 **Fernanda Pinheiro**, Universität zu Köln, Fitness effects of lateral gene transfer
- 10:15 **Nadzeya Kouzel**, Universität zu Köln, Horizontal gene transfer in bacterial biofilms
- 10:45** **Coffe break**
- 11:05 **Tin Yau Pang**, Heinrich-Heine-Universität Düsseldorf, Analysis of *Escherichia coli* ancestral metabolic networks reveals past adaption
- 11:35 **Prasanna Bhogale**, Universität zu Köln, How does the lactose-uptake system switch?
- 12:05 **Christian Kost**, Max Planck Institute for Chemical Ecology Jena, Adaptive gene loss drives the evolution of metabolic dependencies within microbial communities
- 13:00** **Lunch (Light sandwich)** at the Institute for Theoretical Physics (New Building)