

3rd Summer-School „Microbes, Host and Infection“

Program

Organisation: GRK 1708 and IGIM, Tübingen

Venue: Haus auf der Alb, Bad Urach

Monday, 23.07.2018

10:45	Bus Departure to Bad Urach
12:00 – 13:00	Arrival and Lunch
13:00 – 13:30	Registration
13:30 – 13:45	Welcome: Andreas Peschel and Karl Forchhammer
13:45 – 17:00	Session 1: Secondary Metabolite Chair: Daniela Keinhörster, Laura Reinhardt
13:45 – 14:30	Paul Williams, University of Nottingham, UK Alkylquinolones and <i>Pseudomonas aeruginosa</i> : a tale of regulatory networks, multi-functional signals and antibacterial targets
14:30 – 14:50	Moritz Koch, AG Forchhammer Metabolic Engineering strategies for an increased PHB production in Cyanobacteria
14:50 – 15:10	Petra Horvatek, AG Wolz The stringent response is involved in oxidative stress response in <i>Staphylococcus aureus</i>
15:10 – 15:30	Coffee-Break
15:30 – 16:15	Andriy Luzhetskyy, University of Saarbrücken, Germany Biosynthetic potential of actinobacteria: bridging in silico and in vivo
16:15 – 16:35	Celina Frank, AG Jendrossek Structural and functional diversity of alpha-proteobacterial acidocalcisome
16:35 – 16:55	Alicia Engelbrecht, AG Kaysser Proteasome inhibitors from <i>Nocardia</i> spp. and their role during pathogen survival
16:55 – 17:10	Khaled Selim, AG Forchhammer The Missing Cyanobacterial Inorganic Carbon Sensor; PII-like signaling protein SbtB integrates the cAMP sensing to modulate the inorganic carbon response
18:00 – 19:00	Dinner
19:00 – 20:00	Poster Session (Session 1+2)
afterwards	Get together

Tuesday, 24.07.2018

7:45 – 8:30	Breakfast
8:30 – 11:40	Session 2: Anti-Infectives Chair: Carina Rohmer, Petra Horvatek
8:30 – 9:15	Gerd Sutter, LMU Munich, Germany Modified Vaccinia virus Ankara: a research tool for poxvirology and vaccine development
9:15 – 9:35	Huanhuan Wang, AG Götz Polycyclic polyprenylated acylphloroglucinols: an emerging class of non-peptide-based MRSA and VRE-active antibiotics
9:35 – 9:55	Katharina Wex, AG Brötz-Oesterhelt Reporter strain-based screening approach for the identification of new antibacterial compounds
9:55 – 10:15	Coffee-Break
10:15 – 11:00	Benjamin Mordmüller, ITM Tübingen, Germany Antimalarial drugs
11:00 – 11:20	Daniel Hörömpöli, AG Brötz-Oesterhelt Negamycin utilizes multiple uptake pathways for bacterial cell entry
11:20 – 11:40	Katrin Klein, AG Stubenrauch Regulation of IFN-kappa expression in normal and HPV+ keratinocytes by TGT-beta and ERK1/2
12:00 – 13:00	Lunch
13:00 – 16:10	Session 3: Microbiome / Host-Pathogen Interactions Chair: Katrin Klein, Sofia Doello
13:00 – 13:45	Kiran Patil, EMBL Heidelberg, Germany Impact of non-antibiotic drugs on gut bacteria
13:45 – 14:05	Shilpa George, AG Wolz Quorum sensing "cheaters" within <i>Staphylococcus aureus</i> populations are selected under aerobic growth
14:05 – 14:25	Silke Malmshaimer, AG Wagner Uncovering the principles of type 4 secretion of membrane proteins in <i>Legionella pneumophila</i>
14:25 – 14:45	Coffee break
14:45 – 15:30	Michael Blaut, Dife Potsdam, Germany The intestinal microbiome – another organ
15:30 – 15:50	Przemyslaw Olejnik, AG Schwarz Oxygen-dependent regulation of a diguanylate cyclase and alginate synthesis in <i>Pseudomonas aeruginosa</i>
15:50 – 16:10	Carolin Schoetensack, AG Gille Myeloid Suppressor Cells accumulate in Breast Milk, are functional active and are induced by components of the Breast Milk

16:10 – 17:40	Posters and Coffee (Session 3+4)
17:45 – 18:15	Guided Tour Haus auf der Alb (optionally)
18:30	Cocktails and Barbecue

Wednesday, 25.07.2018

7:45 – 8:30	Breakfast
8:30 – 12:00	Session 4: Adaptation and Fitness Chair: Niels Neumann, Yu-Ming Huang
8:30 – 9:15	Clara Chan, University of Delaware, USA How microbes make minerals: challenges and adaptations of biomineralization
9:15 – 9:35	Daniela Keinhörster, AG Wolz Redefining the promoter architecture of the capsular biosynthesis gene cluster in <i>Staphylococcus aureus</i>
9:35 – 9:55	Sofia Doello, AG Forchhammer Deciphering the glycogen mobilization strategy that enables reuscitation of a dormant cyanobacterium from chlorosis
9:55 – 10:15	Dmtry Shvarev, AG Maldener DevBCA homologues represent a new group of ABC-dependent transporters in <i>Anabaena</i> sp. PCC 7120
10:15 – 10:30	Coffee break
10:30 – 11:15	Camilo Barbosa, University of Kiel, Germany Evolution of antibiotic hypersensitivity and its implications for treatment
11:15 – 12:00	Ulrike Mäder, University of Greifswald, Germany Termination factor Rho of <i>Staphylococcus aureus</i> : From control of antisense transcription to influencing virulence gene expression
12:00 – 12:10	Poster Awards and Farewell
12:10 – 13:10	Lunch
13:30	Bus Departure to Tübingen