

1ST MINISYMPOSIUM OF THE GRK1708

“STRESS INDUCED METABOLIC PATHWAYS”

24-25.07.2017 Alte Aula, Tübingen

Monday, 24.07.2017

15:00 – 15:15	Welcome from Prof. Forchhammer
Session 1	Stress induced metabolism in <i>Streptomyces</i> Chair: Sook-Ha Fan
15:15 – 16:15	Marta Mendes The yin and yang of oxidative stress in <i>Streptomyces</i> metabolism and development
16:15 – 16:35	Sergii Krysenko Characterization of the polyamine and ethanolamine utilization pathways in <i>S.coelicolor</i> M145
16:35 – 16:50	Coffee-Break
Session 2	Acclimation to long term starvation Chair: Moritz Koch
16:50 – 17:50	Gary Sawers Electron acceptor choice in the aerobic <i>Streptomyces coelicolor</i> : how spores cope with oxygen limitation
17:50 – 18:10	Sofía Doello Roman Resuscitation of <i>Synechocystis</i> sp. PCC 6803 from long-term nitrogen starvation
18:10 – 18:25	Graduates Flash-Talks <ul style="list-style-type: none">• Björn Watzer• Carina Rohmer• Alicia Engelbrecht• Nermin Akduman
18:25 – 18:50	Poster Session
19:30 – 22:30	Conference Dinner –Botanic Garden (Morgenstelle)

Tuesday, 25.07.2017

Session 3	Stress responses of intestinal pathogens Chair: Sergii Krysenko
09:00 – 10:00	Julia Fritz-Steuber The <i>Vibrio cholerae</i> Na ⁺ pump: Function, structure and hormone-triggered ROS production
10:00 – 10:20	Anna Lange <i>E. coli</i> survival strategies during intestinal inflammation

10:20 – 10:35	Coffee-Break
Session 4	Metabolic adaptation in <i>Staphylococcus</i> Chair: Nermin Akduman
10:35 – 11:35	Greg Somerville <i>Staphylococcus aureus</i> metabolic adaptations that permit survival in the presence of daptomycin and vancomycin
11:35 – 11:55	Sebastian Reichert <i>Staphylococcus aureus</i> requires two secondary mutations to bypass <i>mvaS</i> essentiality
11:55 – 12:15	Flash-Talks <ul style="list-style-type: none"> • Sook-Ha Fan • Angelika Jochim • Laura Reinhardt • Shilpa George • Daniela Keinhörster
12:15 – 13:20	Lunch
Session 5	Inorganic carbon utilization Chair: Tomasz Chilczuk
13:20 – 14:20	Tobias Erb CETCH me if you can: Bringing inorganic carbon into life with synthetic CO ₂ fixation
14:20 – 14:40	Khaled Selim The missing cyanobacterial carbon sensor; sensory properties of a novel cell signalling PII-like protein: functional and structural insights
14:40 – 15:00	Coffee-Break
Session 6	Stress acclimation Chair: Sofia Doello
15:00 – 16:00	Erhard Bremer The powerful stress protectants ectoine and hydroxyectoine: how to make them - how to break them
16:00 – 16:20	Maja Semanjski Protein turnover during <i>E. coli</i> persistence and resuscitation
16:20 – 16:40	Flash-Talks <ul style="list-style-type: none"> • Moritz Koch • Tomasz Chilczuk • Eva Bok • Ritu Garg • Dmitry Shvarev
16:40 – 17:40	Poster Session
17:40	Farewell