

# 2<sup>ND</sup> MINISYMPOSIUM OF THE GRK1708

## ”BACTERIAL STORAGE COMPOUNDS“

15./16.07.2019 Konferenzzentrum Schnarrenberg, Tübingen

### Monday, 15.07.2019

14.00-14.15	Welcome by Dieter Jendrossek and Karl Forchhammer
<b>Session 1</b>	<b>Energy Metabolism</b> Chair: Daniela Keinhörster
14.15-15.15	<b>Peter Lindblad</b> – Uppsala University, Sweden Engineering cyanobacteria for direct chemical and fuel production
15.15-15.35	<b>Khaled Selim</b> Adding a new function to the cyanobacterial inorganic carbon sensor protein SbtB: ATPase activity
15.35-15.50	<b>Coffee break</b>
15.50-16.50	<b>Laura van Niftrik</b> – Radboud University, Netherlands Anammox Bacteria and Anammoxosomes
16.50-17.10	<b>Yu-Ming Huang</b> Mechanisms of Fe(II) oxidation coupled to nitrate reduction in a freshwater enrichment culture: a metagenome-based approach
<b>Session 2</b>	<b>The GRK presents its work I</b> Chair: Hanna Rosigkeit
17.10-17.30	<b>Thomas Hagemann</b> The flagellin protein of <i>E. coli</i> Nissle 1917 has an additional domain that might contribute to protect from inflammation.
17.30-18.10	<b>Graduates' Flash-Talks</b> Carina Rohmer Daniel Männle Eva Bok Markus Burkhardt Naybel Hernandez Niels Neumann Ritu Garg Alicia Engelbrecht
18.10-18.45	<b>Poster session</b> (of the Flash-Talk presenters)
18.45-22.00	<b>Conference Dinner – Botanical Garden (Morgenstelle)</b>

## Tuesday, 16.07.2019

<b>Session 3</b>	<b>Inorganic Inclusions</b> Chair: Naybel Hernandez Perez
09.00-10.00	<b>Dirk Schüler</b> – University of Bayreuth, Germany How microbes make magnets: Biosynthesis of magnetosomes in bacteria
10.00-10.20	<b>Hanna Rosigkeit</b> The function of polyphosphate and the polyphosphate-associated CHAD protein PptA in <i>Ralstonia eutropha</i> H16
10.20-10.40	<b>Celina Frank</b> Formation of Acidocalcisomes (ACs) and Polyphosphate (PolyP) in <i>Agrobacterium tumefaciens</i>
10.40-11.00	<b>Coffee break</b>
<b>Session 4</b>	<b>The GRK presents its work II</b> Chair: Hanna Rosigkeit
11:00-11:20	<b>Daniel Gomez</b> Amyloid-like proteins from in plant microbiome interactions - toxicity and resistance
11.20-12.00	<b>Graduates' Flash-Talks</b> Adrian Schenberger Antje Bauer Benjamin Torres Daniela Keinhörster Johanna Rapp Martin Konnerth Robert Kluj Sook-Ha Fan
12.00-13.00	<b>Lunch Break</b>
13:00-13:40	<b>Poster session</b> (of the Flash-Talk presenters)
<b>Session 5</b>	<b>Carbon Storage Inclusions</b> Chair: Niels Neumann
13.40-14.40	<b>Auxiliadora Prieto</b> – Centro de Investigaciones Biologicas, Spain Polyhydroxydyalkanolate metabolism in <i>Pseudomonas</i>
14.40-15.00	<b>Sofia Doello</b> Awakening of <i>Synechocystis</i> sp. PCC 6803 from nitrogen starvation requires rapid glycogen mobilization and ATP production
15.00-15.20	<b>Coffee break</b>
15.20-16.20	<b>Peter Dürre</b> – University of Ulm, Germany PHB production in clostridia
16.20-16.40	<b>Moritz Koch</b> Converting one biopolymer to another: from glycogen to PHB in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803
16.40	<b>Farewell</b>