Microbiology of Biopolymer Formation and Degradation  
Stuttgart-Vaihingen (Eulenhof), April, 29.-30. 2024  

April, 29.  
13.00 Registration  
14.00 Opening/Welcome  

D. Jendrossek/B. Christen  

Session 1: Bacterial Polyhydroxyalkanoates  
14.15 – 14.45 Auxiliadora Prieto, CSIC, Madrid: Whether Outside or Inside the Cell, the Bacterial Capacity to Degrade PHA  
14.50 – 15.10 Rene Handrick, HBC Biberach: From the Mystery of PhaZ7 to the Optimization of Biopharmaceutical Production - a Journey Through the World of Applied (Life) Sciences*  
15.15 – 15.35 Stephanie Schulze, Lab Automation Network, Tübingen: PHA Depolymerases and Carbonosomes in R. eutropha  
15.40 – 16.00 Manfred Zinn, Hes.so, Sion, CH: Sustainable Production of PHA from CO₂ with Ralstonia eutropha  
16.05 – 16.20 Leticia Labriola, Fibers365: PHB from Agricultural Streams  

16.20 – 17.00 Coffee break  

17.00 – 17.30 Karl Forchhammer, University Tübingen: PHB in Cyanobacteria  
17.35 – 17.55 Stanislav Obruca, Brno University, CZE: Novel Functions of PHB in Bacteria  
18.00 – 18.25 Janina Berg, Orgentec Diagnostika GmbH, Heidelberg: ppGpp and its Connection with PHB Metabolism in R. eutropha  
18.30 – 18.55 Andreas Schirmer, Genomatica, San Diego, USA: A German Microbiologist’s 25-Year Journey Inside the US Biotech Industry  

19.00 Dinner  

April 30.  

Session 1: Bacterial Polyhydroxyalkanoates, continued  
08.30 – 09.00 B. Rehm, Griffith Institute, Brisbane, Australia, (online)  
From PHA Synthase to Biomedical Products  
09.05 – 09.35 George Chen, Tsinghua University, Beijing, China: Next Generation Industrial Biotechnology (Online or in presence)  

Session 2: Bacterial Organelles and Prokaryotic cell biology  
09.40 – 10.10 Dirk Schüler, University Bayreuth: How Microbes Make Organelles: What We Have Learned about Magnetosome Biosynthesis in Magnetotactic Bacteria  
10.15 – 10.40 Daniel Pfeiffer, University Bayreuth: Magnetic Navigation in Bacteria: Microbial cell Biology of M. gryphiswaldense  

10.45 – 11.30 Coffee break  

Session 3: Sustainable Products, isoprenoids and novel enzymes from bacteria  
11.30 – 11.55 Bernhard Hauer, Stuttgart: Versatility of Squalene Hopene Cyclases  
12.00 – 12.20 Karin Förster-Fromme, Curetis-AG, Holzgerlingen: The Atu-Pathway, Catabolism of Acyclic Terpenes in Pseudomonas  

13.00 – 14.20 Lunch and group photo
Session 3: Sustainable Products, isoprenoids and novel enzymes from bacteria continued
14.20 – 14.45 Jakob Birke, ecoSPECS GmbH, Biberach: Rubber Oxygenase RoxB versus Latex Clearing Protein
15.15 – 15.40 Marius Bürger, University Stuttgart, How Polyisoprenoids Bind to the Active Site in Rubber Oxygenases.

15.40 – 16.30 Coffee

Session 4: Polyphosphate in bacteria
16.30 – 17.00 Lisa Racki, Scripps Research Institute, USA: (online) Polyphosphate Condensates as Drivers and Passengers in Bacterial Chromatin Dynamics
17.05 – 17.35 Jennie Hildenbrand, University Stuttgart, Unexpected Properties of PolyP Kinases in R. eutropha and A. tumefaciens

Session 5: USTUTT-IMB: Past and Future Contributions to Teaching and Research in Basic and Applied Microbiology
17.40 – 18.00 Reinhard Braaz, Roche, Penzberg/K. Abu-Aisha, German University of Cairo University Stuttgart and German University at Cairo
18.05 – 18.25 Georg Sprenger, University Stuttgart: Institute of Microbiology 2002-2022
18.30 – 18.50 Beat Christen, University Stuttgart: The Future of the Institute of Microbiology

18.50 Dieter Jendrossek Closing
20.00 Dinner in the Pullmann Hotel