



Jülich 2017: Towards biohybrid systems: Biology meets Engineering

Wednesday, 04.10.2017

09:00 registration

09:30 Welcoming Speech (Noske, Schwaneberg, Wiechert)

09:50 KeyNote - "Systems Biocatalysis for Metabolite Synthesis" (Roland Wohlgemuth)

10:30 "Precaution First? Towards an Ethical Framework for Emerging Biotechnologies" (Peter Dabrock)

10:50 Coffee@Posters

11:20 "Adapting biomolecules to the needs of machines - examples from antibody engineering" (Stefan Dübel)

11:40 "Biologisierung von Werkstoffen: Integration von biologischen Funktionalitäten in Polymere am Beispiel von Membranen" (Alexander Böker)

12:00 "The Golgi Glycan Factory (GGF) Optimized enzyme cascades for glycoconjugate synthesis" (Lothar Elling)

12:20 "Automated, feedback-guided, simulation-assisted Enzyme Engineering" (Uwe Jandt)

12:40 Lunch@Posters

14:00 "Protein Engineering for Biohybrid Systems" (Ulrich Schwaneberg)

14:20 "New synthetic biology approaches: "one-shot" stoichiometric expression of biosynthetic pathway enzymes with activity-independent fluorescence detection, in the bacterium *Rhodospirillum rubrum*" (Robin Ghosh)

14:40 "Bottom-up design and reconstitution of energy regeneration infrastructure of an artificial cell" (Tanja Vidakovic-Koch)

15:00 "Molecular expression parameters relevant for functionally recoding synthetic genes" (Hubert Bernauer)

15:20 Coffee@Posters

15:50 "Next generation 3D Printing of Glass: The emergence of enabling materials" (Bastian Rapp)

16:10 "Analytics for the Leibniz Research Cluster: Bio/synthetic multifunctional micro production units - novel ways of compound development" (Erik Freier)

16:30 "The making of a living morphogenic membrane system" (Philippe Bastiaens)

16:50 "Techniques for the Production and functional Analysis of Membrane Proteins" (Stefan Kubick)

17:10 Staffelstab-Übergabe

17:30 end