

Annual Congress Biotechnologie 2020+

Preliminary program | October 4th, 2018 at Fraunhofer-Forum Berlin

»Biological Transformation: Cutting-Edge Technologies in Biomanufacturing«

09:00 Registration

09:30 *Welcome addresses*

Dr. Patrick Dieckhoff
Fraunhofer-Gesellschaft

Andrea Noske
Bundesministerium für Bildung und
Forschung, BMBF

Keynote presentation

Prof. Dr. Christine Lang
Bioökonomierat

10:15 Coffee Break (15 min)

10:30 *Session 1 - Lighthouse Projects*

»MaxSynBio - Avenues towards creating cells from the bottom up«

»Micro-scale production of industrially relevant molecules«

»Structure-based design of versatile biosensors for small molecules«

»Molecules off the conveyor belt«

Dr. Patrick Dieckhoff

Dr. Seraphine Wegner
Max Planck Society

Dr. Vito Valiante
Leibniz Association

Prof. Dr. Michael Bott
Helmholtz Association

Prof. Dr. Frank Bier
Fraunhofer-Gesellschaft

11:30 Break (5 min)

11:35 *Panel discussion (in german)*

12:30 Lunch (45 min)

13:15 *Session 2 - Automated and Molecular Systems in Biotechnology*

»Modular molecular systems in biotechnology«

»How the automated lab can contribute to design the digital cell
and new bioprocesses«

»KnowVolution: Redesigning proteins for innovations
in catalysis and material science«

Dr. Stefan Kubick

Dr. Stefan Schiller
Albert-Ludwigs-University of Freiburg

Prof. Dr. Peter Neubauer
Technische Universität Berlin

Prof. Dr. Ulrich Schwaneberg
RWTH Aachen

14:00 Postersession & Coffee (30 min)

14:30 *Session 3 - Synthetic Biology*

»Bionics beyond the Macroscopic World: from Biosynthesis to Bioactivity«

»Smart Membrane Compartments«

»Expanding the Synthetic Scope towards Industrial Chemicals through
Combination of Chemocatalysis and Biotechnology«

»Bioswitches, robotics and biodigitalization for synthetic biology«

Dr. Stefan Kubick

Prof. Dr. Michael Müller
Albert-Ludwigs-University of Freiburg

Prof. Dr. Reinhard Lipowsky
Max Planck Institute of Colloids and
Interfaces

Prof. Dr. Harald Gröger
University of Bielefeld

Prof. Dr. An-Ping Zeng
Hamburg University of Technology

15:45 Postersession & Coffee (30 min)

16:15 *Session 4 - Glyco Biotechnology*

»N-glycans, a diagnostic tool for ovarian cancer«

»The Golgi Glycan Factory (GGF) - Optimized enzyme cascades
for glycoconjugate synthesis«

»Tailored Systems for High Performance Glycoanalysis
in Golgi Glycan Factory 2.0«

»Cell-free Synthesis and Functional Analysis of Membrane
Proteins and Glycoproteins«

Prof. Dr. Frank Bier

Prof. Dr. Véronique Blanchard
Charité - Virchow Klinikum

Prof. Dr. Lothar Elling
RWTH Aachen

Dr. Erdmann Rapp
Max Planck Institute for Dynamics of
Complex Technical Systems Magdeburg

Dr. Stefan Kubick
Fraunhofer Institute for Cell Therapy and
Immunology, Branch Bioanalytics and
Bioprocesses

17:15 Final Statements

17:30 End