

GENERAL INFORMATION

VENUE AND ACCOMODATION

Haus der Kirche - Evangelische Akademie
Dobler Str. 51
76332 Bad Herrenalb
Germany

SCHEDULE

Beginning: Monday, 15 August 2022
End: Thursday, 18 August 2022

LANGUAGE

All talks, lectures and posters at the Summer School Biotransformation will be presented in English.

REGISTRATION

Register directly via our online registration form or simply and informally by e-mail:

kurse@dechema.de

The summer school is offered by the DECHEMA-Forschungsinstitut, a foundation under civil law, in cooperation with DECHEMA Gesellschaft für Chemische Technik und Biotechnologie e.V. (Society for Chemical Engineering and Biotechnology).

REGISTRATION FEE

incl. accommodation, board, course materials, certificate of attendance, soft drinks and VAT

390,- € PhD students and Post Docs Academia

480,- € Industrial researchers

Registration deadline: 5 July 2022

CONTACT

DECHEMA-Forschungsinstitut
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Further informationen under:
www.dechema-dfi.de/kurse



5TH SUMMER SCHOOL

15.-18. August 2022
Bad Herrenalb / Germany

Biotransformations 2022



Biotransformations have become an important tool in all areas of industry, where high yielding chemo-, regio-, and enantioselective reactions often are critical. To increase efficiency of new biotechnological processes it is important that scientists from the diverse fields of chemistry, biology and process engineering work efficiently together in research and development.

The aim of the Summer School Biotransformations in 2022 is

- » to expand the academic curriculum on biotransformations
- » to educate in interdisciplinary communication of the different fields
- » to bring together young scientists with leading experts from academia and industry

TARGET AUDIENCE

- » PhD students, post-docs (scientists) from academia
- » young industrial researchers at an early stage of their career

Speakers will stay at least for one night to enable an intensive exchange and discussion among all participants about scientific topics and career opportunities. PhD students and post-docs have to contribute a poster and a one page abstract in English presenting their work. Posters will be presented in „2 minute speed lectures“ as a part of the official scientific programme and will also be discussed during poster sessions. The number of participants is limited, enabling close interactions of the young academics with leading experts in the field of biotransformation.

SCIENTIFIC BOARD

Fachgruppe Biotransformationen

Vereinigung für Allgemeine und Angewandte Mikrobiologie (VAAM)

DECHEMA Gesellschaft für Chemische Technik und Biotechnologie e.V.

SUPPORTING ORGANIZATION



SPEAKERS

Bastian Blombach (TU München)
 Lars Förster (Aesculap B. Braun Melsungen AG)
 Matthias Franzreb (KIT)
 Toni Glieder (Graz University of Technology)
 Thomas Haas (Evonik)
 Birte Heckmann (Voice Coach, Team Simone Dorenburg)
 Florian Hollfelder (University of Cambridge)
 Dirk Holtmann (Technische Hochschule Mittelhessen, Gießen)
 Karl-Erich Jäger (Forschungszentrum Jülich)
 Jörn Kalinowski (CeBiTec Universität Bielefeld)
 Selin Kara (Aarhus University)
 Teodoro Laino (IBM Research)
 Andreas Liese (TU Hamburg-Harburg)
 Rasmus Linser (TU Dortmund)
 Maria Lucas (Zymvol, Barcelona)
 Stephan Lütz (TU Dortmund)
 Jan Marienhagen (FZ Jülich)
 Elke Nevoigt (Jacobs University Bremen)
 Alexander Pelzer (BRAIN AG)
 Jörg Pietruszka (Heinrich-Heine-Universität Düsseldorf)
 Kersten Rabe (Karlsruhe Institute of Technology)
 Katrin Rosenthal (TU Dortmund)
 Martin Schürmann (InnoSyn B.V.)
 Georg Sprenger (Universität Stuttgart)
 Andreas Vogel (C-LEcta)
 Christian Willrodt (BASF)

SPONSORS



MODULES

Protein discovery 2.0:

Tailor-made novel biocatalysts
 De novo design

From dry to wet lab:

In silico discovery and modelling
 Structure-function analysis

Multi-purpose biocatalysis:

Enzyme promiscuity
 Non-conventional reactions

Multi-step bioconversion:

Enzyme cascades
 combination of chemo- and biocatalysis

Pimp the production host:

Strain development
 Pathway engineering
 Synthetic Biology

Higher-Faster-Further:

Enzyme engineering & optimisation
 Directed evolution
 Rational design

From reaction to process:

Retrosynthesis
 Integrated bio processes
 Enzyme immobilization
 Gas fermentation
 Purification

New topics:

PET degradation
 Cryo-EM
 Microbial electrosynthesis
 H₂ biotechnology