GENERAL INFORMATION

SPONSORS

Brain AG, Zwingenberg

Evonik Creavis GmbH, Marl

c-LEcta, Leipzig



SUPPORTING ORGANISATIONS



TRAVEL

By train:

Hannover main station (further information: www.bahn.de)

By air:

airport Hannover-Langenhagen

VENUE AND ACCOMMODATION

Stephansstift

Zentrum für Erwachsenenbildung Tagungs- und Gästehaus Hannover Kirchröder Str. 44, 30625 Hannover Germany

SCHEDULE

Beginning:Sunday, 16 July 2017, 2 pmEnd:Wednesday, 19 July 2017, 1 pm

LANGUAGE

The course will be held in English.

APPLICATION

Please send your application to:

DECHEMA-Forschungsinstitut Training department P.O. Box 17 03 52 D-60077 Frankfurt am Main

Phone:+49 69 7564 253Fax:+49 69 7564 414E-mail:gruss@dechema.deInternet:http://dechema-dfi.de/en/biotransformations.html

REGISTRATION FEE

480,-€

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

Deadline: 19 May 2017

4TH SUMMER SCHOOL

16 - 19 July 2017 Hannover / Germany

Biotransformations 2017





TOPIC

Biotransformations have become an important tool in all areas of industry, where high yielding chemo-, regio-, and enantioselective reactions often are critical. Here the following fundamental aspects are in the focus:

- Screening and development of new catalysts considering the specific requirements of a distinct process.
- Efficiency of production systems considering the qualitative and quantitative mass and energy fluxes.
- Reaction engineering based optimisation of bioprocesses considering side reactions and scale-up.
- Development and implementation of new and efficient processes of downstream processing.

Working fields range from microbial screening, enzyme discovery and optimisation of methods via bio-chemo-catalysis, whole cell biotransformations, the use of enzyme cascades to downstream processing methods and economic as well as environmental aspects. Tailor-designed biocatalysts implemented in innovative and optimized processes for industrial purposes can lead to fine chemicals and valuable pharmaceutical intermediates. In order to use the whole potential of modern biotransformations, young scientist from different disciplines have to be educated together in this highly transdisciplinary field. The latter is the main and ambitious goal of the Summer School for Biotransformations in 2017.

TARGET AUDIENCE

Addressed are outstanding PhD students, post-docs (scientists) from academia as well as 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.

PhD students and post-docs should present a poster on their work. Therefore, it is mandatory that all applicants submit a one page abstract.

The number of participants is limited to 70 persons, enabling close interactions of the young academics with leading experts in the field of biotransformation.

At the summer school all accepted posters will be intensively discussed during the poster sessions. As a special feature of the summer school, each poster will be presented by the author in a "2 minute speed lecture" as a part of the official scientific programme.

PROGRAMME

The summer school will open the panel for intensive discussions of PhD-students and young scientists together with experts from both the academic and industrial research and development fields. In interactive and interdisciplinary discussions both opportunities and limitations of novel and innovative processes and tailor-made biocatalysts will be reflected.

MODULES

Protein discovery 2.0:	Tailor-made novel biocatalysts
	De novo design
From dry to wet lab:	In silico modelling
	Structure-function analysis
Multi-purpose biocatalysis:	Enzyme promiscuity
	Non-conventional reactions
Multi-step bioconversion:	Enzyme cascades
	A combined world 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:	Fermentation
	Integrated bio processes
	Enzyme immobilization
	Separation
	Purification
New topics:	Bioelectrosynthesis
	Photobiocatalysis

ORGANISATION COMMITTEE

Jürgen Eck	BRAIN AG, Zwingenberg
Dirk Holtmann	DECHEMA-Forschungsinstitut, Frankfurt
Andreas Liese	Technical University of Hamburg-Harburg
Andreas Schmid	UFZ, Leipzig
Georg Sprenger	University of Stuttgart
Andreas Vogel	c-LEcta, Leipzig

SCIENTIFIC BOARD

Fachgruppe Biotransformationen Vereinigung für Allgemeine und Angewandte Mikrobiologie (VAAM) DECHEMA Gesellschaft für Chemische Technik und Biotechnologie e.V.

Frankfurt am Main

(Fax-No.: +49 69 7564-414)

DECHEMA-Forschungsinstitut Training department P.O. Box 17 03 52 D-60077 Frankfurt am Main

Registration to the DECHEMA summer school 7161	B	Biot
"Biotransformations 2017" Hannover, 16-19 July 2017 Deadline for registration: 19 May 2017		
Participant		
Ms 🗌 Mr 🗌 Title		
Name	Surname	
Company		
Department		
Street/POB		
Code/Place		
Phone/Fax		
Poster abstract is attached		
Invoice address		
Company		
Department		
Street/POB		
Code/Place		

The course fee amounts to \leq 480.-. If we receive a notice of withdrawal at least two weeks prior to the beginning of the course, the participation fee less 10% for administration expenses will be reimbursed. Thereafter, a reimbursement will not be possible.

Place, date

signature + company stamp