



esib / 2016

EUROPEAN SUMMIT OF INDUSTRIAL BIOTECHNOLOGY
GRAZ, AUSTRIA, NOVEMBER 14TH - 16TH

European Summit of Industrial Biotechnology

esib / designed to be

- a **stage** to meet and talk
- a **pivot** for active exchange of news, ideas and trends
- a **hotbed** for innovation
- a **cradle** for fruitful co-operations
- a **cornerstone** of new incentives

the European communication platform for Industrial Biotechnology

Hundreds of scientific conferences per year, dozens of partnering events and fairs – they all provide platforms for scientific presentations and exchange of expertise. esib has not been designed to be another conference among many others or another partnering event among many others. esib has been designed to be a platform for industrial biotechnology in multiple contexts. esib has been designed to encourage all protagonists of industrial biotechnology to think outside the box and in new comprehensive dimensions.

“DESIGN” - the guiding thread of this year’s event unites major contributors to European Industrial Biotechnology under one roof to learn from celebrated experts, executives and entrepreneurs, get new inputs from politics and funding agencies and to develop profitable ideas with prospective partners.

We invite you to seize the opportunity to discuss vital questions and encouraging topics and to be on top of new insights and trends.

esib / science meets economy meets politics

to discuss

- **I**nspiring trends of industrial biotechnology
- **N**ew disruptive technologies and incremental changes
- **N**ovel outcomes and approaches
- **O**utstanding hot topics
- **V**aluable insights in economic and political developments
- **A**wesome new design ideas and products
- **T**rendsetting concepts for funding and financing
- **E**xistential developments in the context of industrial biotechnology

Be part of it – have a voice – renew industrial biotechnology – **INNOVATE**

esib – the European communication platform for Industrial Biotechnology



Sessions 01-02

01 Trends in Science

What are the burning issues in an ever-changing scientific landscape? What are the challenges and needs to be addressed for the future development of industrial biotechnology? Meet a renowned laureate and a senior editor of a scientific journal to discuss the most promising trends in science.

November 14th, 2016 / 14:30 - 15:30 / Plenary

Speakers

Catharine Goodman

Scientific Editor at the Journal of Biological Chemistry, formerly Senior Editor at Nature Chemical Biology

Huimin Zhao

Steven L. Miller Chair Professor, Department of Chemical and Biomolecular Engineering, University of Illinois at Urbana-Champaign

02 Trends in Industry

Academia meets industry and both shape the future trends of industrial biotechnology. Experience the challenges of industrial biotechnology from the points of view of a global player in Europe's biotech industry and of a small but highly innovative company.

November 14th, 2016 / 15:30 - 16:30 / Plenary

Speakers

Klaus Graumann

Head Drug Substance Development, Biopharmaceutical Process and Product Development, Novartis

Manfred Schuster

Founder & CEO, RMB Research GmbH



Sessions 03-04

03 Trends in Biotech Meeting Politics

Scientific research is no longer a matter of ivory towers and industrial plants. Increasingly, politics exerts its influence on the parameters of research and development. – Is this a threat or a chance? Join a discussion about political hopes and scientific scopes.

November 14th, 2016 / 17:00 - 18:00 / Plenary

Speakers

Waldemar Kütt

Head of Unit Biobased Products and Processing, European Commission

Dirk Carrez

Executive Director, Biobased Industries Consortium & Managing Director, Clever Consult

Peter Schintlmeister

Senior Technology Officer Life Sciences, Federal Ministry of Science, Research & Economy

04 Open Science Trends

Open science has left academic spheres and has developed into a concept adopted by funding institutions and political decision makers as a prerequisite for the financing of publicly subsidized research. Although the concept of open science has important implications for the international research landscape, information is scarce. This session will provide information on benefits and shortcomings and offer the possibility to discuss latest trends with experts and decision makers from science and politics.

November 14th, 2016 / 18:00 - 19:00 / Plenary

Speakers

Patrick Danowski

Manager of the Library, Institute of Science and Technology Austria

Catharine Goodman

Scientific Editor at the Journal of Biological Chemistry, formerly Senior Editor at Nature Chemical Biology

Birgit Schmidt

Scientific Manager / Project Coordinator, Göttingen State and University Library

Peter Seitz

Head of Department, Federal Ministry of Science, Research & Economy

Michaela Vignoli

Scientist, Digital Safety, and Security Department, AIT Austrian Institute of Technology



Sessions 05-06

05 Gala Academia

Meet, talk, eat, drink and enjoy an evening accompanied by interesting people! High above the old city center of Graz you will have the chance for networking with visionaries and doers, with decision makers and skeptics. Be part of it! (included in registration fee).

November 14th, 2016 / 20:30 / Social

06 Design versus Introduction of New Products

How are new products designed? Which strategies lead to the actual introduction of new products into the market? The fantasy of scientists is nearly unlimited. However, many conceived products never reach the customers. Why? Where are the obstacles? Join representatives from industry and science in their quest for new functionalities and innovative products.

November 15th, 2016 / 09:30 - 12:00 / Workshop

Speakers

Michael S. Belegatis

Innovation Manager, ESIM Chemicals GmbH

Paola Branduardi

Professor in Chemistry of Fermentation and Industrial Microbiology, University of Milano-Bicocca

Michael Hammerschmid

CEO, Syconium Lactic Acid GmbH

Alex Patist

Senior Director, BioProcess Technology, Genomatica

Matthias Steiger

Senior Researcher acib GmbH, Systems Biology & Microbial Cell Factories



07 Cascade Design and Metabolic Engineering

Environmental challenges, lack of money, lack of time – those catchwords all scientists probably know from their work. Many approaches have been made to overcome the flaws traditional chemistry often encompasses. The combination of several enzymatic transformations in concurrent one-pot processes is one way. Interested in learning more? Join us for a session with international experts from science and industry giving new insight in the use of this technique for the synthesis of non-natural compounds and in metabolic engineering for natural compounds.

November 15th, 2016 / 09:30 - 12:00 / Workshop

Speakers

Andreas Liese

Head of Institute of Technical Biocatalysis, Hamburg University of Technology

Steffen Schaffer

Director Synthetic Biology, Evonik Creavis GmbH

Andreas Schmid

Head of Department Solar Materials & MiKat (Center for Biocatalysis), Helmholtz-Centre for Environmental Research GmbH – UFZ Leipzig

Nicholas J. Turner

Professor of Chemical Biology, University of Manchester



Session 08

08 Designing Cooperations in Europe

Research in industrial biotechnology is not a one-man show. The greatest asset in an application for public funds is the strength and quality of a consortium. But how to get in touch with the right people? Managers from European biotech clusters & big consortia as well as representatives from funding agencies will exchange ideas on how to build and manage world-leading consortia on the basis of best practice examples. Be part of it!

November 15th, 2016 / 09:30 - 12:00 / Workshop

Speakers

Dirk Carrez

Executive Director, Biobased Industries Consortium & Managing Director, Clever Consult

Rita Litauszky

Unit for Life Sciences, ERC & Marie Curie, Austrian Promotion Agency (FFG)

Manfred Kircher

Chairman Advisory Board, CLIB 2021; Chairman Advisory Board KADIB

Jonathan Kua

Group Director, IDG, A*Star, Agency for Science, Technology and Research

Arjen Van Kampen

Senior Consultant Chemistry & Biotechnology, PNO Consultants



Sessions 09-10

09 Designing Trends – Interactive (World Café)

Bubbling with ideas? Let's talk about them! Discuss your insights and concepts. Stimulate each other during lively face-to-face discussions in small groups. Be guest in our World Café, take a seat and be part of designing future trends.

November 15th, 2016 / 13:30 - 15:30 / Workshop & World Café / Social

10 Designing Stars

A star is born – so the saying goes. But this can only happen in a fertile environment with much dedication of all people involved and maybe some secret ingredients. Let's disclose the secret and ask those who have already parented a star! An open discussion with successful scientists and entrepreneurs from big pharma and industrial biotechnology will give you not only the chance to learn about necessary attributes for success but also about challenges and obstacles you may encounter on your route. Be inspired!

November 15th, 2016 / 13:30 - 15:30 / Workshop

Speakers

Andreas Grassauer

CEO and Co-Founder, Marinomed Biotechnologie GmbH

Gerda Redl

CEO & Patent Attorney, REDL Life Science Patent Attorneys

Arne Skerra

Professor of Biological Chemistry, Technical University of Munich

Huimin Zhao

Steven L. Miller Chair Professor, Department of Chemical and Biomolecular Engineering, University of Illinois at Urbana-Champaign



Sessions 11-12

11 Designing Nature

We all host them – they are a part of us: microorganisms. They are a key factor for health and holobiont functioning. Thus, during the past years their importance was demonstrated for a wide range of organisms. Nevertheless, there's much more to know about their beneficial effects. Join us for latest insights into their most complex networks and learn and discuss how engineering and bioprospecting of the microbiome provide and enormous potential for biotechnological applications.

November 15th, 2016 / 16:00 - 16:45 / Plenary

Speakers

Davide Bulgarelli

Principal Investigator, School of Life Sciences Reception University of Dundee

Massimo Marzorati

Business Development Director & Co-Founder, ProDigest

12 Designing Sweeties

Life is sweet, but what will the sweet future of life bring? Sugars or saccharides are essential components of all living things. Can glycochemistry be a solution for challenges we might be facing in future? Join the discussions and learn about the outstanding progress in glycochemistry. Experts from academia and industry will address future perspectives of glycosylation reactions based on industrial relevance and market potential.

November 15th, 2016 / 16:45 - 17:30 / Plenary

Speakers

Tom Desmet

Associate Professor (Head Lecturer), Center for Industrial Biotechnology and Biocatalysis

Timo Koch

Head of Innovation Center, Pfeifer & Langen GmbH



Sessions 13-14

13 Designing Networks

Seize the opportunity to meet a large number of people in short time. Get to know new people, get to know new aspects of well-known colleagues, broaden your horizons, leave the beaten tracks and establish a basis for more detailed conversations. Or simply find an interesting companion for the evening event afterwards. Briefly: Speed Dating for professionals and students.

November 15th, 2016 / 18:00 - 19:30 / Activity

14 Chilling Life Science

Let the day fade away with snacks and cocktails and good company. Enjoy yourselves; it's time to chill!

November 15th, 2016 / 21:00 / Social



Sessions 15-16

15 Biotech Breakfast

Let the day begin! Breakfast is the most important meal of the day so let's get together and start the last day of our summit with a delicious, typical Styrian breakfast to delight body & soul.

November 16th, 2016 / 08:30 - 10:00 / Social & Poster

16 Designing Proteins for Competitive (Bio)processes

In this session, we will address current trends and future perspectives in protein engineering for the design of tailor-made proteins, and their application e.g. in efficient (bio)processes, in the development of new products and many more. Insights by representatives from industry will be combined/balanced with academic aspects.

November 16th, 2016 / 10:00 - 12:00 / Workshop

Speakers

Miguel Alcade

Researcher, Directed Enzyme Evolution Laboratory, Department of Biocatalysis, Institute of Catalysis and Petrochemistry, CSIC

Robert Kourist

Juniorprofessor of Microbial Biotechnology, Ruhr University Bochum

Arne Skerra

Professor of Biological Chemistry, Technical University of Munich

TBA

Industry



Sessions 17-18

17 In-silico Analysis and Design

During the past years biotechnology and biology have been undergoing constant changes. -omics technologies have transformed biology into a data-rich and data-driven discipline. This enormous challenge requires smart approaches for the correct interpretation of such multilevel and complex datasets. In a circle of experts we will try to find answers to burning questions and find innovative approaches to enable applications of these tools.

November 16th, 2016 / 10:00 - 12:00 / Workshop

Speakers

Friedrich Leisch

Professor & Head of Institute of Applied Statistics and Computing, University of Natural Resources and Life Sciences Vienna

Lars Nielsen

Professor & Chair of Biological Engineering, Australian Institute for Bioengineering and Nanotechnology (AIBN)

18 Design of Translation

Research, development, and production – the route from an innovative concept in science to its application in industry is challenging. We are confronted with two worlds speaking different languages and belonging to different cultures. How can a cross-cultural understanding be reached? How can academic results be transferred to industry? And which roles have politics and the funding institutions? Join the discussion and listen to answers to these burning questions from experts from industry, science and politics.

November 16th, 2016 / 10:00 - 12:00 / Workshop

Speakers

Michael Binder

Director for Strategy, Austrian Research Promotion Agency (FFG)

Klaus Graumann

Head Drug Development, Biopharmaceutical Process and Product Development, Novartis

Milton Hearn

Professor of Chemistry & Director of the Australian Research Council Special Research Center for Green Chemistry, Monash University Australia

Jonathan Kua

Group Director, IDG, A*STAR, Agency for Science, Technology and Research



Sessions 19-20

19 Science Flash

You have an idea you want to place on the market? You have an outstanding new finding you want to present? Be precise and be to the point, convince a jury in a powerful speed presentation.

November 16th, 2016 / 12:30 - 13:30 / Plenary

Speakers

TBA in final program

20 Industrial Biotechnology 2.0

What are, or might become, disruptive technologies in industrial biotechnology and how might they influence the development of the field? Join us to discuss future trends and developments in a visionary environment.

November 16th, 2016 / 14:30 - 16:00 / Plenary

Speakers

Helene Fastrup Kildegaard

Senior Researcher and Co-PI, Novo Nordisk Foundation Center for Biosustainability

Rainer Schneider

Associate Professor of Biochemistry, University of Innsbruck & Key Researcher acib GmbH

Nigel Titchener-Hooker

Professor of Biological Chemistry, Dean of Faculty of Engineering Sciences, University College London



Timetable Day 1

14th November

Industrial Biotechnology – The Big Trends

HOUR	ID	SESSION	SESSION TYPE
12:30		Registration Reception & Poster Session	
14:00		Welcome Address	Plenary
14:30	01	Trends in Science	Plenary
15:30	02	Trends in Industry	Plenary
16:30		Coffee Break & Poster Session	
17:00	03	Trends in Biotech Politics	Plenary
18:00	04	Open Science Trends	Plenary
20:30	05	Gala Academia	Social



Timetable Day 2

15th November

Designing Industrial Biotechnology

HOUR	ID	SESSION	SESSION TYPE
09:30 - 12:00		Workshop Session 1	
	06	Design versus Introduction of New Products	<i>Parallel Workshop</i>
	07	Cascade Design and Metabolic Engineering	<i>Parallel Workshop</i>
	08	Designing Cooperations in Europe	<i>Parallel Workshop</i>
12:00 - 13:30		Lunch Break & Poster Session	
13:30 - 15:30		Workshop Session 2	
	09	Designing Trends – Interactive (World café)	<i>Parallel Workshop</i>
	10	Designing Stars	<i>Parallel Workshop</i>
15:30 - 16:00		Coffee Break & Poster Session	
16:00 - 17:30		Plenary Session „Hot Design“	
16:00	11	Designing Nature	<i>Plenary</i>
16:45	12	Designing Sweeties	<i>Plenary</i>
16:00		Closed Strategy Board	<i>Closed session for Consortium Members</i>
17:30 - 18:00		Coffee Break & Poster Session	
18:00 - 19:30	13	Designing Networks	<i>Activity</i>
21:00 - 24:00	14	Chilling Life Science	<i>Social</i>



Timetable Day 3

16th November

Designing Industrial Biotechnology

HOUR	ID	SESSION	SESSION TYPE
08:30 – 10:00	15	Biotech Breakfast	<i>Social & Poster</i>
10:00 - 12:00		Workshop Session 3	
	16	Designing Proteins for Competitive (Bio)processes	<i>Parallel Workshop</i>
	17	In-silico Analysis and Design	<i>Parallel Workshop</i>
	18	Design of Translation	<i>Parallel Workshop</i>
12:00 - 12:30		Coffee Break & Poster Session	
12:30 – 16:00		Plenary „Bridging Tomorrow“	
	19	Science Flash	<i>Plenary</i>
13:30		Lunch Break & Poster Session	
14:30	20	Industrial Biotechnology 2.0	<i>Plenary</i>
16:00		Closing Note	<i>Plenary</i>



Biotech in the Heart of Europe



The European Summit on Industrial Biotechnology (esib) is going to take place in Graz/ Austria. The second largest city of Austria is a fascinating, beautiful and nice place. With more than 900 years of history, visitors get in touch with ancient knights, a vibrating cultural scenery that ranges from classics to modern approaches, greatly tasting food and an inspiring night life. Additionally, with 9 universities and colleges Graz is an internationally acknowledged place of science and research.

Find more information about Graz at:
www.graztourismus.at/en

The conference will take place at the Messecongress Graz, which is centrally located in walking distance from the picturesque old town:

Messe Congress Graz Betriebsgesellschaft m.b.H.

Messeplatz 1
8010 Graz
Austria
<http://www.mcg.at/messegraz.at/en/>

Contact

Are you curious about the European Summit of Industrial Biotechnology or interested in attending or sponsoring it? Don't hesitate and ask us:

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