

ESIB 2022 Programm

Session ID: green = Focus Bioeconomy, red = Focus Biopharma, white = Out of the box topics

Day 1 – 14th November

ID	Hour	Session	Type
A	10:15 – 11:45	“Horizon Europe” – a mission oriented research program (FP9) More information will follow soon.	Special Session
B	10:15 – 11:45	synBiocarb Glycobiology workshop More information will follow soon.	Special Session
I	10:15 – 11:45	IFPB Session	
Registration Reception & Poster Session			
	12:30	Welcome Address <i>Mathias Drexler (CEO acib), Bernd Nidetzky (CSO acib)</i>	Plenary
01	13:00 – 14:30	Trends in Biopharma – Medicines of the Future The pandemic has impressively demonstrated to us: we urgently need efficient measures to be prepared for health crises of this kind as quickly as possible. What were the most important lessons learned by those who fought on the front lines? And what are the future scenarios in vaccine and drug development? Take part in discussing the most promising trends in biopharma.	Plenary
II	13:00 – 14:30	IFPB Session	
Coffee Break & Poster Session			
02	15:00 – 16:30	Trends in Bioeconomy – Proteins of the Future Meat from the lab and food ingredients produced by microorganisms? Improved material properties through proteins? Society is undergoing a paradigm shift toward a more sustainable future. Our plenary speakers share with us their experiences in their fields - get inspired to new ideas for a circular bioeconomy!	Plenary
III	15:00 – 16:30	IFPB Session	
Coffee Break & Poster Session			
03	17:00 – 18:30	Trends in Policy The European Green deal and the trend toward recycling waste streams and use of new resources also brings significant challenges in the approval of new products. How can this step be met as efficiently as possible? How can decision-makers be involved at an early stage? We take a look at new opportunities in industrial biotechnology and look forward to the perspectives of experts from industry & policy.	Plenary
	18:30 – 19:30	Podium discussion	
IV	17:00 – 19:00	IFPB Session	
	20:30	Gala Academia (Schloßberg)	Social

Day 2 – 15th November

ID	Hour	Session	Type
WORKSHOP SESSION 1			
04	9:00 – 11:00	Vaccines for emerging viral diseases The challenge for emergent viral diseases especially in times of a pandemic is the fast reaction from initial detection of the disease to a protective vaccine. Next to the development of the expression system and production hosts also the design and scale-up of the production process for a vaccine plays an important role in the development chain. How can we streamline and accelerate the development and analytics of production processes for vaccines and other bionanoparticle products (such as vectors for gene or cancer therapy) in the view of the current issues of supply chain shortages.	Parallel Workshop
05		CO₂, the future feedstock for biobased processes We live in a carbon world – life would not be possible without. But carbon has become also one of the biggest problems, we are facing today: climate crisis. Between 2011 and 2020, the yearly CO ₂ emissions caused by human activity exceeded 38 gigatons, while CO ₂ fixation by nature is almost 22 gigatons. To improve the balance of carbon cycle and meet the goals of the European Green Deal, net CO ₂ emissions should be set to zero or even negative by removing CO ₂ from the atmosphere. Using CO ₂ as a new generation feedstock is part of the solution to address the climate crisis while transforming EU into a sustainable resource-efficient, and competitive economy. Let's bring researchers, industrial stakeholders, and policy makers together to discuss CO ₂ -based bioeconomies!	Parallel Workshop
06		IFPB Session	Parallel Workshop
07		Life cycle sustainable Assessment - State of the art and best practice in Biotech Sustainability assessment in all three dimensions -economic, environmental and social- will form the future basis for decisions taken by consumers, funding authorities and investors. What is state of the art from an academic view point, how is the topic handled in best practice in large industries and SME? And what are the latest developments in EU taxonomy approaches for sustainable investment? Take the chance to get insights from top experts in the field. A special focus will be given to social life cycle assessment.	Parallel Workshop
Coffee Break			
08	11:15 – 12:00	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 in a powerful speed presentation.	Plenary
Lunch Break & Poster Session			

WORKSHOP SESSION 2			
09	13:30 – 15:30	Meat of the Future Current animal based agriculture for the production of meat products contributes to Global Warming, bears inherent inefficiencies (less calories per hectare of land than plant based food), and violates animal welfare. Biotechnology may become the key to a benign production of food that satisfies human craving for the “meaty taste”. Let’s compare the different approaches to substitute animal grown meat and receive some guidance for biotechnology research how to engage.	Parallel Workshop
10		Next generation downstream processing The pressure caused by time to market has increased in the biopharmaceutical development. The need for platform processes became very urgent and new strategies of downstream processing are of utmost importance for purification of new modalities or to intensify legacy processes. There is no platform purification process for non-mab proteins available. How can we solve these challenges? And how can we ensure a carbon neutral biomanufacturing? We discuss solutions such as the development of new ligands for affinity chromatography, new ways for enzymatic processing of fusion proteins and radical change of chromatography materials. More efficient downstream processing will help to establish carbon neutral biomanufacturing.	Parallel Workshop
11		IFPB Session	Parallel Workshop
12		Pichia Session	Parallel Workshop
Coffee Break			
WORKSHOP SESSION 3			
13	16:00 – 18:00	Technical implementation of clean meat protein production Cultivated Meat has great potential for an environmentally neutral solution for the production of meat. Its development in the last decade was truly remarkable, but it is still to overcome multiple technical hurdles before becoming a reality. What are these hurdles and how can industrial biotechnology help?	Parallel Workshop
14		IFPB Session	Parallel Workshop
15		Pichia conference	
16		Producing Trends in Citizen Science – Science & Arts Doing science with citizens? Including science in arts? Bubbling with ideas? Let’s talk about them! This year we will talk about creative approaches to express scientific content through art and to enable DIY research. Discuss crazy ideas. Stimulate each other during lively face-to-face discussions in small groups. Be guest in our interactive roundtable, take a seat and be part of producing future trends.	Interactive Roundtable
Poster Session & Reception			
17	18:15 – 19:45	Science Meets Economy B2B Matchmaking Event Are you looking for new collaborative partnerships? The matchmaking event organised by the SFG and the Enterprise Europe Network is a unique opportunity to generate new business contacts and to develop new ideas. Select interesting prospective partners and pre-book 15-minute meetings with them in advance of the event. The meetings are arranged in advance and participation is requested in the course of the registration process: https://esib2022.b2match.io/	Matchmaking
		esib Poster Session	

		IFPB Poster Session	
		Pichia Poster session	
	21:00	Chilling Life Science (Dom im Berg)	Social

Day 3 – 16th November

ID	Hour	Session	Type
18	8:30 – 10:00	Biotech Breakfast & Poster Session 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. (included in registration fee)	Social & Poster Session
WORKSHOP SESSION 4			
19	10:00 – 12:00	Process intensification in biopharmaceutical manufacturing In this session the trends and challenges of process intensification and continuous manufacturing of biopharmaceuticals will be discussed. One focus will be the process integration of upstream and downstream processing and how processes are optimized in small scale. The other focus will be on the impact of process intensification on economic and environmental sustainability and on carbon footprint. Case studies will be presented.	Parallel Workshop
20		Building a new future: CO2-based bioprocesses – A researcher perspective The increasing release of CO2 has had already observable effects on our climate. More than ever, innovative ideas are needed to reintegrate the potent greenhouse gas CO2 in-to a circular bioeconomy and to ensure sustainable energy and material sources for the next generations. There is hope, however, that we can harness the power of biology to create opportunities from our very big pollution problem. To achieve net zero, we need a circular carbon economy based on CO2, that, with the help of biology, enables the direct conversion into chemicals that are used to manufacture the materials of our daily life. But how can we harness biology's synthetic ability to turn atmospheric CO2 into these products? And how can we bring this to industrial scale? Join in and get a clearer picture of the key researcher activities to create value from CO2.	Parallel Workshop
21		Digitalization of enzyme engineering While the impact of computational methods on enzyme engineering is still significant, the potential of recent developments such as the <i>de novo</i> prediction of protein structures and machine-learning guided protein engineering represents a paradigm change, improving dramatically the possibilities to optimize existing biocatalysts and to create entirely new reactivities. Let's discuss different approaches and their impact on the way how we investigate and engineer biological systems for biotechnology and biocatalysis. A main focus will lie on novel protein engineering platforms that will ultimately become an integral part of academic and industrial biocatalysis in the following years.	Parallel Workshop
22		Pichia conference	Parallel Workshop
Coffee Break			
23	12:15 – 13:00	Science Flash	Plenary

		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 in a powerful speed presentation.	
Lunch Break & Poster Session			
24	14:00 – 15:30	Closing Lecture “Bridging Tomorrow” Join in and have a look to the upcoming trends in biotechnology for the next decades. What are the visions of the industry and which disruptive technologies might influence or support the missions of tomorrow? Let’s shed a light on innovative views from representatives in the field of industrial biotechnology.	Plenary
	15:30	Closing Remarks esib	
25	14:00 – 16:00	Pichia Session	
Coffee Break			
26	16:30– 18:00	Pichia Session	Plenary
	19:00	Pichia Dinner powered by Validogen	Social