

Monday – March 28, 2022

11:00 – 13:00 Registration	
13:00	Welcome and Opening Remarks Prof. Dr. Harald Gröger , Bielefeld University, Germany – Chairperson and Local Host of IBPRO2022 Prof. Dr. Selin Kara , Aarhus University, Denmark – Co-chairperson IBPRO2022 and INTERfaces MSCA-ITN Coordinator
SESSION 1: Enzyme discovery and design for industrial applications Session Chairs: Prof. Per Berglund (KTH, Sweden); Dr. Anke Hummel (Bielefeld University, Germany) and MSc. Nicolette Czarniewicz (ESR of INTERfaces)	
13:30 – 14:10 (online)	Invited Lecture: Prof. Dr. Rebecca Buller Engineering Fe(II)/α-Ketoglutarate-Dependent Halogenases and Desaturases Professor for Chemical and Biotechnological Methods, Systems and Processes, Zurich University of Applied Sciences, ZHAW, Switzerland
14:10 – 14:30	Engineering Fatty Acid Photodecarboxylase for Modulating Substrate Specificity Asst. Prof. Dr. Bekir Engin Eser , Aarhus University, Denmark
14:30 – 14:50	Enzymatic anti-markovnikov oxidation of unactivated, aliphatic alkenes by directed evolution of cytochrome p450 MSc. Cindy Klaus , Bielefeld University, Germany
14:50 – 15:10	Poster Pitch Session (4 pitches a 5 min)
15:10 – 15:40	Coffee Break
15:40 – 16:20	Invited Lecture: Dr. Erika Tassano Application of genome mined Fe(II)/KG dioxygenases in drug discovery Principal Scientist, Novartis, Switzerland
16:20 – 16:40	Cell-free immobilized multi-enzyme systems; from the design to the application Res. Prof. Dr. Fernando López-Gallego , CICbiomaGUNE, Spain
16:40 – 17:00	Preparative biocatalytic transformations with white-rot fungi and their mechanisms Dr. Tatyana S. Zhuk , Justus-Liebig-University Giessen, Germany
17:00 – 18:00	Podium Discussion on Industry Careers I Moderators: MSc. Luisa Merz (ESR of INTERfaces) and MSc. Nicoletta Cascelli (ESR of INTERfaces)
18:00 – 19:00	Poster Session No I – even numbers
19:00	WELCOME PARTY Venue: Center for Interdisciplinary Research (ZiF)

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SESSION 2: Heterogenization of biocatalysts with tailor made materials

Chairs: Dr. Juan Manuel Bolivar (Complutense University of Madrid, Spain),
MSc. Hannah Bork (Bielefeld University, Germany) and MSc. Antía Pintor (ESR of INTERfaces)

9:00 – 9:40	Invited Lecture: Dr. rer. nat habil. Jan von Langermann Crystallization-based process intensification of biocatalytic reactions Group Leader Biocatalytic Synthesis, University of Rostock, Germany
9:40 – 10:00	Immobilized UPO applied for (photo)biocatalytic hydroxylations in non-conventional media Dr. Markus Hobisch, Aarhus University, Denmark
10:00 – 10:20 (online)	Continuous transamination in microreactors with immobilized biocatalysts Prof. Polona Žnidaršič-Plazl, University of Ljubljana, Slovenia
10:20 – 10:50	Coffee Break
10:50 – 11:30 (online)	Invited Lecture: Dr. Alessandra Basso Applications of immobilized enzymes in pharma, food, and fine chemical manufacture of high value compounds in industry LifeTech Manager, Purolite, United Kingdom
11:30 – 11:50 (online)	Advanced catalyst carrier structures based on solid oxides: light in weight but strong in impact Dr. Jonas Gorauskis, Instituto de Nanociencia y Materiales de Aragon (INMA), Spain
11:50 – 12:10	Surface engineering of transaminases to tailor protein immobilization on microreactors ESR MSc. Nicolette Czarniewicz, CICbiomaGUNE, Spain; Micronit, Netherlands
12:10 – 13:40	Lunch Break with Lunch Talk Getting Published in 2022 and Beyond: How to Adapt to a Rapidly Changing Publication Landscape Dr. Ruben Ragg, Editor-in-Chief, ChemBioChem
SESSION 3: Intensification of heterogenized bioprocesses: Cascades and flow Chairs: Research Prof. Fernando López-Gallego (CICbiomaGUNE, Spain), MSc. Laura Maria Bernhard (Bielefeld University, Germany) and MSc. Nicoletta Cascelli (ESR of INTERfaces)	
13:40 – 14:20 (online)	Invited Lecture: Prof. Dr. Francesca Paradisi Packed-bed reactors to boost multi-step biocatalysis in flow Pharmaceutical and Bioorganic Chemistry, University of Bern, Switzerland
14:20 – 14:40	Enzymatic transamination of a prochiral ketone in a membrane flow system MSc. Julie Østerby Madsen, Technical University of Denmark, Denmark
14:40 – 15:00	Sweet cascades Prof. Dr. Ulf Hanefeld, Delft University of Technology, Netherlands
15:00 – 15:20	Bio-based production of metaraminol with integration of reactive in situ product removal MSc. Laura Grabowski, Institute of Bio- and Geosciences -Biotechnology, Forschungszentrum Jülich GmbH, Germany

15:20 – 15:35	Coffee Break
15:35 – 16:15 (online)	Invited Lecture: Dr. Alba Diaz-Rodriguez Accelerating The Adoption of Biocatalysis In the Pharmaceutical Industry Scientific Investigator, GlaxoSmithKline (GSK), United Kingdom
16:15 – 17:15	Poster Session No II – odd numbers
17:40	Bus transfer to the dinner venue
18:00	CONFERENCE DINNER Venue: Brauhaus, Hagenbruchstraße 8, 33602 Bielefeld

Wednesday - March 30th, 2022

SESSION 4: Out-of-the-box methods: Future trends in biocatalysis?

Chairs: Assoc. Prof. Dr. Vicente Gotor-Fernández (University of Oviedo, Spain) / MSc. Luisa Koch (Bielefeld University, Germany), MSc. Luisa Merz (ESR of INTERfaces)

9:00 – 9:40	Invited Lecture: Dr. Martin Schürmann Beyond Hydrolases and NAD(P)H recycling: co-factor supply and regeneration for industrial biocatalysis Principal Scientist, InnoSyn B.V., Netherlands
9:40 – 10:00	Enzymatic glycolipid synthesis in non-conventional media Dr. Rebecca Hollenbach, Karlsruhe Institute of Technology, Germany
10:00 – 10:20	Smart surface enhancement of additively manufactured structures for biocatalytic applications MSc. Daniela Eixenberger, Hamburg University of Technology, Germany
10:20 – 10:50	Coffee Break
10:50 – 11:10	Intensification and molecular engineering of photosynthesis-driven biocatalytic redox reactions Prof. Dr. Robert Kourist, Graz University of Technology, Austria
11:10 – 11:50 (online)	Invited Lecture: Prof. Dr. Bernhard Hauer Engineering cyclase enzymes for industrial biocatalysis Head of the Technical Biochemistry Department Institute of Biochemistry and Technical Biochemistry, University of Stuttgart, Germany
11:50 – 12:30	Colloquium/Round table Future trends in biocatalysis Chairs: Dr. habil. Pablo Domínguez de María (Sustainable Momentum, Spain) and MSc. Philipp Petermeier (ESR of INTERfaces)
12:30 – 12:50	Poster Awards and INTERfaces Scholarship Award
12:50 – 13:00	Closing Remarks Prof. Dr. Harald Gröger , Bielefeld University, Germany – Chairperson and Local Host of IBPRO2022 Prof. Dr. Selin Kara , Aarhus University, Denmark – Co-chairperson IBPRO2022 and INTERfaces MSCA-ITN Coordinator