

## Thursday, May 7<sup>th</sup> 2020

9.00 - 10.30	Registration
10.30 - 10.45	Opening ceremony
<b>10.45 - 13.00</b>	<b>Biocatalysis in non-conventional media</b>
10.45 - 11.30	<b><i>Selin Kara, Aarhus University, Aarhus, Denmark</i></b> Exploring the potential of (photo)biocatalytic reactions in non-conventional media (PL)
11.30 - 11.50	<b><i>Maria H. Ribeiro, Universidade Lisboa, Portugal</i></b> Enzymatic development of lipoaminoacids in non-conventional media
11.50 - 12.10	<b><i>Tom A. Ewing, Wageningen University &amp; Research, The Netherlands</i></b> Enzymatic synthesis of fatty acid derivatives in organic solvents and oil-water emulsions
12.10 - 12.30	<b><i>Janne M. Naapuri, Aalto University, Finland</i></b> Enzymatic halocyclization of allenic alcohols – Multi-catalytic one-pot processes in micellar medium
12.30 - 12.50	<b><i>Madalina Tudorache, University of Bucharest, Romania</i></b> Biocatalysis for waste glycerol valorization as glycerol carbonate, glycidol and polyglycidol
13.00 - 14.30	Lunch
<b>14.30 - 17.35</b>	<b>BNCM: from lab to industrial scale</b>
14.30 - 15.15	<b><i>Martin Schürmann, InnoSyn BV, Geleen, The Netherlands</i></b> Aqueous to almost water-free biocatalytic process to oxy-functionalised products using aldolases, hydratases and oxidoreductases (PL)
15.15 - 15.35	<b><i>Ariana Causevic, Lund University, Sweden, and 2AAK AB, Malmö, Sweden</i></b> Design of a control system for pushing the equilibrium and on-line measurement of enzyme activity in a solvent free transesterification reaction
15.35 - 15.55	<b><i>Jürgen Pleiss, University of Stuttgart, Germany</i></b> Simulation of thermophysical properties of deep eutectic solvents
15.55 - 16.15	<b><i>Gonzalo de Gonzalo, Universidad de Sevilla, Spain</i></b> Natural deep eutectic solvents as non-conventional media for oxidative biocatalysts
16.15 - 16.35	<b><i>Rebecca Hollenbach, Karlsruhe Institute of Technology, Germany</i></b> Limiting factors and optimization of glycolipid synthesis in deep eutectic solvents
16.35 - 16.55	<b><i>Marina Cvjetko Bubalo, University of Zagreb, Croatia</i></b> Designing a biocatalytic process involving deep eutectic solvents: lipase-catalysed synthesis of ( <i>R</i> )-1-phenylethanol as a case study
16.55 - 17.15	<b><i>Robert Kourist, Graz University of Technology, Austria</i></b> Enzymatic decarboxylation in deep eutectic solvents: from stability engineering to application in continuous flow
17.15 - 17.35	<b><i>Andreas Liese, Hamburg University of Technology, Germany</i></b> Biotransformation in DES as neat reactant
17.45 - 19.30	Welcome “Aperitivo”

Friday, May 8<sup>th</sup> 2020

<b>9.00 - 13.00</b>	<b>Multiphase biocatalytic systems</b>
9.00 - 9.45	<b><i>Fernando Lopez Gallego, CIC biomaGUNE, San Sebastian, Spain</i></b> Design and fabrication of multi-functional heterogeneous biocatalysts for cell-free biosynthesis of amines and alcohols (PL)
9.45 - 10.05	<b><i>Ulf Hanefeld, Technische Universiteit Delft, The Netherlands</i></b> Water activity as parameter to identify lipases
10.05 - 10.25	<b><i>Ayelet Fishman, Technion-Israel Institute of Technology, Israel</i></b> Comparing protein engineering approaches to improve lipase stability in methanol
10.25 - 10.45	<b><i>Mehdi D. Davari, RWTH Aachen University, Germany</i></b> How to engineer enzymes for catalysis in non-conventional media: insights from combined molecular dynamics simulation and directed evolution study
10.45 - 11.30	Coffee break
11.30 - 11.45	<b><i>Marco Manqiagalli, University of Milano-Bicocca, Italy</i></b> Insight into effects of polar co-solvents on <i>Candida antarctica</i> lipase B
11.45 - 12.00	<b><i>Jan-Dirk Spöring, Forschungszentrum Jülich, Germany, and RWTH Aachen University, Germany</i></b> Single- and multi-step enzymatic transformations in micro-aqueous reaction environment
12.00 - 12.15	<b><i>Hao Liang, Beijing University of Chemical Technology, China</i></b> Solving the H <sub>2</sub> O <sub>2</sub> by-product problem using a catalase-mimicking nanozyme cascade to enhance glycolic acid oxidase
12.15 - 12.30	<b><i>Cristina Carucci, University of Limerick, Ireland, and University of Cagliari, Italy</i></b> Co-immobilisation of alcohol dehydrogenase (ADH) and nicotinamide adenine dinucleotide (NAD <sup>+</sup> ) on metal organic frameworks (MOF)
12.30 - 12.45	<b><i>Alvaro Cruz-Izquierdo, Purolite, United Kingdom</i></b> High performance synthetic resins for immobilised lipase applications in solvent free systems
13.00 - 14.30	Lunch
<b>14.30 - 16.30</b>	<b>Poster session</b> Coffee table & snacks
16.30 - 17.30	<b><i>Frances H. Arnold</i></b> <b><i>Nobel Laureate in Chemistry 2018</i></b> <b><i>California Institute of Technology Pasadena, USA</i></b> Innovation by evolution: bringing new chemistry to life (KL)
20.00	Getting together – Social activities

## Saturday, May 9<sup>th</sup> 2020

<b>9.00 - 12.35</b>	<b>Flow-based bioprocesses</b>
9.00 - 9.45	<b><i>Bernd Nidetzky, Graz University of Technology, Graz, Austria</i></b> Process intensification for enzymatic transformations in flow (PL)
9.45 - 10.00	<u><i>José Coloma</i></u> , <i>Delft University of Technology, The Netherlands, and Universidad Laica Eloy Alfaro de Manabí, Ecuador</i> Probing batch and continuous flow reactions in organic solvents: <i>Granulicella tundricula</i> hydroxynitrile lyase (GtHNL)
10.00 - 10.15	<u><i>Martina L. Contente</i></u> , <i>University of Nottingham, United Kingdom</i> Flow-based enzymatic synthesis of melatonin and other high value tryptamine derivatives: a five-minute intensified process
10.15 - 10.30	<u><i>Sebastian C. Cosgrove</i></u> , <i>University of Manchester, United Kingdom</i> Improvement of biocatalyst performance using continuous flow
10.30 - 10.45	<u><i>Fabio Tonin</i></u> , <i>Delft University of Technology, The Netherlands</i> Enzymatic synthesis of UDCA in continuous flow: challenges and solutions
10.45 - 11.30	Coffee break
11.30 - 11.50	<u><i>Polona Žnidaršič-Plazl</i></u> , <i>University of Ljubljana, Slovenia</i> Enzymatic microreactors utilizing ionic liquids and organic solvents
11.50 - 12.05	<u><i>Ana I. Benítez Mateos</i></u> , <i>University of Bern, Switzerland, and University of Nottingham, United Kingdom</i> Continuous flow synthesis of <i>L</i> -pipecolic acid: biocatalysis towards pharmaceutical production
12.05 - 12.20	<u><i>Francesca Tentori</i></u> , <i>Politecnico di Milano, Italy</i> Continuous-flow biocatalytic process for the synthesis of the best stereoisomers of the commercial fragrances leather cyclohexanol (4-isopropylcyclohexanol) and woody acetate (4-( <i>tert</i> -butyl)cyclohexyl acetate)
12.20 - 12.35	<u><i>Carmen G. Boeriu</i></u> , <i>Wageningen Food &amp; Biobased Research, The Netherlands</i> Enzymatic synthesis of novel biobased aliphatic-aromatic copolyesters
<b>12.40 - 13.20</b>	<b>Solvent-free reaction systems</b>
12.40 - 13.20	<b><i>Lucia Gardossi, Università di Trieste, Trieste, Italy</i></b> Solvent-free enzymatic polycondensation for functional and renewable polyesters (PL)
13.20 - 13.30	Concluding remarks
13.30 - 14.30	Light lunch