

Monday, July 6

Carbohydrates 1	
08:30	Chi-Huey Wong, Academia Sinica, Taipei, Taiwan & Scripps Research Institute, La Jolla, USA <i>Post-translational Glycosylation: Challenges and Opportunities</i>
09:15	Lubbert Dijkhuizen, University of Groningen, Netherlands <i>Tailoring glucosidic bond specificity in glucanucrase enzymes</i>
09:45	Posters and Coffee
Carbohydrates 2	
10:30	Christoph A. Mayer, University of Konstanz, Germany <i>Bacterial Cell Wall- Recycling Metabolism Reveals Carbohydrate Hydrolases with Novel Mechanisms</i>
10:50	Mélanie Hall, Georgia Institute of Technology, Atlanta, USA <i>Substrate-Based Limitations in the Enzymatic Hydrolysis of Cellulose: Crystallinity, Reactivity, and Adsorption</i>
11:10	Patrick Adlercreutz, Lund University, Lund, Sweden <i>Alkyl glycoside synthesis using glycosyl hydrolases</i>
11:30	Lucia Fernandez-Arojo, CSIC, Madrid, Spain <i>Fructooligosaccharide production in a combined-enzyme batch reactor</i>
11:50	Lunch break
Enzyme design 1	
13:30	Peter Kast, ETH Zürich, Switzerland <i>Evolutionary Cycles for Pericyclic Reactions - Or Why We Keep Mutating Mutases</i>
14:00	Alexandre Zanghellini, Arzeda Company, Seattle, USA <i>Computational enzyme design: towards custom-made biocatalysts</i>
14:20	Jürgen Pleiss, University of Stuttgart, Germany <i>Rational design of a minimal P450 monooxygenase library with improved selectivity</i>
14:40	Martina Pavlova, Masaryk University, Brno, Czech Republic <i>Construction of improved biocatalyst by engineering of the access tunnels: A new concept in enzyme engineering</i>
15:00	Anne K. Samland, University of Stuttgart, Germany <i>Changing the substrate scope of Transaldolase B towards non-phosphorylated compounds</i>
15:20	Seda Aksu, Delft University of Technology, Netherlands <i>Catalyst in a Cage: "Pd in Ferritin"</i>
15:40	Posters and Coffee
Cascade reactions	
16:30	Bernd Nidetzky, Graz University of Technology, Austria <i>Biocatalytic process development for the synthesis of carbohydrate-based compatible solutes</i>
16:50	Andreas Liese, Hamburg University of Technology, Germany <i>Process Intensification by Multi-Step Enzyme-Catalyzed Reactions</i>
17:10	Daniela Monti, ICRM, Milano, Italy <i>Five enzymes working in a row to get the one-pot multistep synthesis of steroid derivatives</i>
17:30	Eduardo Garcia-Junceda, CSIC, Madrid, Spain <i>Dihydroxyacetone Kinase from Citrobacter freundii a Useful Tool for the Development of New Biocatalyst for C-C Bond Formation</i>
17:50	Wenjing Fu, Technical University of Denmark, Lyngby, Denmark <i>Process Design of Chemo-enzymatic Synthetic Cascades</i>
18:10	Posters <i>until 19:00</i>

Tuesday, July 7

Biotransformations 1	
08:30	Yasuhisa Asano, Toyoma Prefectural University, Japan <i>Dynamic kinetic resolution of α-aminonitriles and amino acid amides</i>
09:15	Gary Lye, University College London, London, United Kingdom <i>Engineering Tools for Speeding Biocatalyst Evaluation and Bioprocess Design</i>
09:45	Posters and Coffee
Biotransformations 2	
10:30	Mei-Xiang Wang, Chinese Academy of Science, Beijing, China <i>Highly Enantioselective Nitrile Biotransformations in Organic Synthesis</i>
11:00	Wolfgang Kroutil, Graz University, Austria <i>Internal cofactor recycling via a hierarchical network for deracemisation</i>
11:20	Daniel Torres Pazmiño, University of Groningen, Groningen, Netherlands <i>Tuning Baeyer-Villiger Monooxygenases for chemical synthesis</i>
11:40	Matthias Höhne, University of Greifswald, Germany <i>Efficient asymmetric synthesis of 3-Aminopyrrolidines and ω-piperidines with ω-Transaminase</i>
12:00	Lunch break
Biotransformations 3	
13:40	Katja Bühler, Dortmund University of Technology, Germany <i>Biofilms as promising Catalysts for selective Redoxchemistry</i>
14:00	Jun Ogawa, Kyoto University, Japan <i>Enzymatic Synthesis of 4-Hydroxyisoleucine with Novel Dioxygenase and Aldolase</i>
14:20	Natascha Sereinig, DSM, Geleen, Netherlands <i>The Use of Old and Novel Ammonia Lyases for the Synthesis of Pharma Intermediates at Industrial Scale</i>
14:40	Helen Hailes, University College London, United Kingdom <i>Biocatalysis using Transketolase Mutants and an ω-Transaminase: Synthesis of Aromatic Aminodiols</i>
15:00	Anna Fryszkowska, University of Manchester, United Kingdom <i>Application of Pentaerythritol Tetranitrate Reductase for the Asymmetric Bioreduction of C=C Double Bonds</i>
15:20	Tijs Lammens, Wageningen University, Wageningen, Netherlands <i>Glutamic Acid α-Decarboxylase, a Tool for Biorefinery</i>
15:40	Posters and Coffee
Process engineering	
16:30	Emond Magner, University of Limerick, Limerick, Ireland <i>Immobilisation of Enzymes on Porous and Solid Materials</i>
16:50	Robert DiCosimo, DuPont, USA <i>Perhydrolases for In-situ Production of Peracetic Acid</i>
17:10	Ian Archer, Ingenza Ltd., Roslin, United Kingdom <i>An Adaptable Bioprocess to Prepare Unnatural Amino Acids</i>
17:30	Stéphane Emond, CNRS Toulouse, France <i>Bioinspired enzyme encapsulation using chimeric silaffin-like peptides</i>
17:50	Carmen Boeriu, Wageningen University, Wageningen, Netherlands <i>Selective Enzymatic Synthesis of C-Terminal Peptide Amides</i>
18:10	Posters <i>until 19:00</i>

Wednesday, July 8

Biosynthesis	
08:30	Hung-Wen Liu, University of Texas, Austin TX, USA <i>Studies of the Biosynthesis of Spinosyns in Saccharopolyspora spinosa</i>
09:15	Ludger Wessjohann, Leibniz Institute of Plant Biochemistry Halle and University of Halle, Germany <i>Enzymatic CC coupling: understanding prenyldiphosphate transferring enzymes</i>
09:45	Posters and Coffee
Biotransformations 4	
10:30	Richard LLOYD, Chirotech Technology Ltd., Dr. Reddy's, Cambridge, United Kingdom <i>Biocatalytic routes to (1R,2S)-1-Amino-2-vinylcyclopropanecarboxylic acid derivatives: key intermediates for Hepatitis C virus NS3 protease inhibitors</i>
10:50	Vlada Urlacher, University of Stuttgart, Germany <i>Development of recombinant whole cell biocatalysts based on cytochrome P450 monooxygenases</i>
11:10	Danny Brodkorb, Max-Planck-Institut Bremen, Germany <i>First enzymatic insight in anaerobic monoterpenes degradation. Characterization of the first initial steps.</i>
11:30	Martina Pohl, University of Düsseldorf, Germany <i>A new R-selective hydroxynitrile lyase with an α/β-hydrolase fold</i>
11:50	Posters
13:00	Lunch break Excursions

Thursday, July 9

Metabolic engineering	
08:30	Jay Keasling, <i>University of California at Berkeley, USA</i> <i>Synthetic Biology for Synthetic Chemistry</i>
09:15	Claudia Schmidt-Dannert, <i>University of Minnesota, USA</i> <i>Engineering Microbes for Biosynthesis and Bioenergy Applications</i>
09:45	Posters and Coffee
Directed evolution 1	
10:30	Andrew Griffiths, <i>ISIS Strasbourg, France</i> <i>Miniaturising the laboratory in droplets</i>
11:00	Denis Wahler, <i>Protéus SA, Nîmes, France</i> <i>Directed evolution of a 13-hydroperoxide lyase</i>
11:20	Michael Puls, <i>Evocatal GmbH</i> <i>Enantioselective biosynthesis of hydroxyketones catalyzed by novel glycerol dehydrogenases</i>
11:40	Y-H Percival Zhang, <i>Virginia Tech, Blacksburg VA, USA</i> <i>Production of 12 H₂ per glucose equivalent of cellulosic materials or starch and water: An out-of-the-box solution for the hydrogen economy</i>
12:00	Lunch break
Directed evolution 2	
13:40	Margit Winkler, <i>Research Centre Applied Biocatalysis, Graz, Austria</i> <i>New redox enzymes for drug metabolite synthesis</i>
14:00	Fabrice Lefevre, <i>LibraGen, Toulouse, France</i> <i>Addressing Evolving Needs in Fine Chemistry by Competitive Bioprocesses</i>
14:20	Cintia Milagre, <i>University of Campinas, Campinas, Brazil</i> <i>Understanding the natural and metagenomic enzymatic biodiversity at the molecular level</i>
14:40	Melanie Schürmann, <i>Jülich Chiral Solutions, Jülich, Germany</i> <i>Improvement of chemical processes: From Screening of Biocatalysts to large scale Production</i>
15:00	Anett Kirschner, <i>University of Groningen, Groningen, Netherlands</i> <i>Characterization and directed evolution of the Baeyer-Villiger mono-oxygenase BmoF1 from <i>Pseudomonas fluorescens</i> DSM50106</i>
15:20	Jianfeng Jin, <i>Delft University of Technology, Netherlands</i> <i>A novel Hydratase from <i>Alicyclophilus denitrificans</i> DSMZ 14773</i>
15:40	Posters and Coffee
Enzyme Design 2	
16:30	Dörte Gocke, <i>Heinrich-Heine University Düsseldorf, Germany</i> <i>Rational design for (S)-selective mixed benzoin condensation</i>
16:50	Andreas Bommarius, <i>Georgia Institute of Technology, Atlanta, USA</i> <i>Stabilization of biocatalysts via the Structure-guided Consensus Method: glucose DH and beta-lactam acylases</i>
17:10	Gerrit J. Poelarends, <i>University of Groningen, Netherlands</i> <i>4-Oxalocrotonate Tautomerase: A Small Promiscuous Template for Natural and Laboratory Evolution of New Enzymes</i>
17:30	Posters <i>until 18:15</i>
19:30	Congress dinner Lecture & Poster awards Closing ceremony