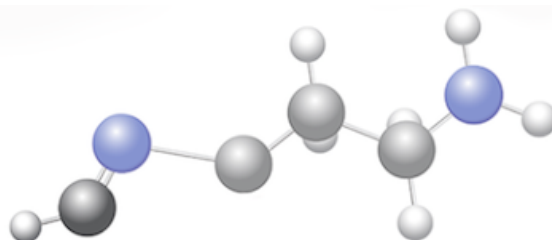


# 4th Multistep Enzyme Catalyzed Processes Congress MECP18

Trondheim, Norway - March 19-22, 2018



## PROGRAMME

**Monday March 19, 2018**

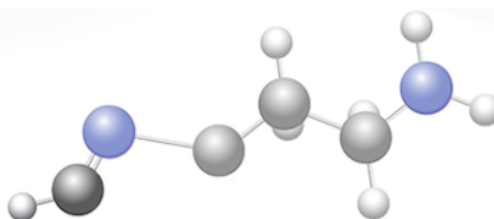
**Registration is open from 14.00-16.00 in Hotel reception.**

Mari Bergan Hansen and Guro Buas Austli will walk the hotel guests to the University at 16.15 (7 min walk)

<b>17:00-17:30</b>	Welcome and Opening of the Conference Elisabeth Jacobsen, Chair of MECP18 Ola Lund Renolen, Deputy Mayor of Trondheim Øyvind Weiby Gregersen, Dean of Faculty of Natural Sciences, NTNU Trondheimssolistene v/ Alex Robson, violin and Mona Spigseth, piano	NTNU Auditorium R1
<b>Session chair: Eirik Sundby, NTNU, Trondheim, Norway</b>		
<b>17:30-18:30</b>	BIOCAT lecture: Arieh Warshel, Professor, Distinguished Nobel Laureate, University of Southern California, Los Angeles, CA, USA <b>How do enzymes work and how do they not work</b>	NTNU R1
<b>18:30-18:40</b>	Short break	
<b>18:40-19:40</b>	Kurt Faber, Professor, Department of Chemistry, University of Graz, Graz, Austria <b>Multienzyme-cascades for the functionalization of fatty acids</b>	NTNU R1
<b>19:40-19:50</b>	Dancing show KOM OG DANS. Irene Bjærum, Tom Bjærum, Per Tore Granrusten, Ingrid Svare Granrusten, Karoline Egholm, Paul Espen Pedersen, Mona Gjelstad, Malin Sandvik, Adele Aunvik, Terje Aunvik, Leander Aunvik and Cathrine Aunvik.	NTNU R1
<b>19:50-22:00</b>	Welcome Reception auditorium R1. Vine and small food	

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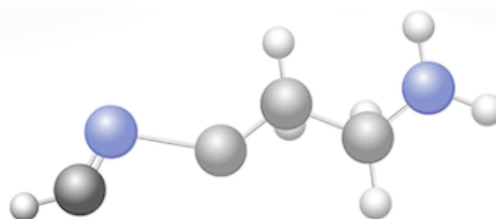


**Tuesday March 20, 2018**

<b>Session chair: Roland Wohlgemuth, Chairman ESAB, Switzerland</b>		
<b>09:00 – 09:45</b>	John Ward, Department of Biochemical Engineering, University College London, London, United Kingdom <b>Multistep enzyme cascades to novel benzyloisoquinoline alkaloids</b>	Hotel
<b>09:45 – 10:00</b>	Short break	
<b>10:00 – 10:30</b>	Joseph Sperl, Chair of Chemistry of Biogenic Resources, Technical University Munich, Straubing, Germany <b>Reaction design for the compartmented combination of heterogeneous and enzyme catalysis</b>	Hotel
<b>10:30 – 11:00</b>	Armando Cordova, Mid Sweden University, Sundsvall, Sweden <b>Sustainable cascade synthesis of primary amines and amides by combination of chemical and enzyme catalysts</b>	Hotel
<b>11:00 – 11:30</b>	Coffee break Poster session	Hotel
<b>11:30 – 12:00</b>	Martina Pohl, Forschungszentrum Jülich GmbH, IBG-1: Biotechnology, Jülich, Germany <b>Halotag<sup>®</sup>-fusion enzymes for in situ immobilization in flow</b>	Hotel
<b>12:00 – 12:30</b>	Anne Zaparucha, Génomique Métabolique, Genoscope, Institut François Jacob, CEA, CNRS, Univ. Evry, Univ. Paris-Saclay, Evry, France <b>Enzymatic cascade synthesis of chiral building-blocks from L-Lysine</b>	Hotel
<b>12:30 – 13:00</b>	Marielle Lemaire, Clermont Université, Université Blaise Pascal, France <b>Aldolases in sustainable processes: amazing substrate scope and cascade implementation</b>	
<b>13:00 – 14:30</b>	Lunch Hotel Restaurant	
<b>Session chair: Per Berglund, KTH, Stockholm, Sweden</b>		
<b>14:30 – 15:15</b>	Vladimír Křen, Institute of Microbiology of the Czech Academy of Sciences, Laboratory of Biotransformation, Prague, Czech Republic <b>Multienzymatic grafting and trimming of glycosylated natural products</b>	Hotel
<b>15:15 – 15:45</b>	Coffee break Poster session	Hotel
<b>15:45 – 16:15</b>	Madalina Tudorache, University of Bucharest, Department of Organic Chemistry, Biochemistry and Catalysis, Bucharest, Romania <b>One-pot system based on enzyme oxi-copolymerization of monolignols for designing the lignin-composites</b>	Hotel
<b>16:15 – 16:45</b>	Shau-Wei Tsai, Institute of Biochemical and Biomedical engineering, Chang Gung University, Taoyuan City, Taiwan <b>Lipase-catalyzed synthesis of optically pure 2-phenylcyclopropylcarboxylic acid</b>	Hotel
<b>16:45 – 17:05</b>	Hiroki Fujioka, Amano Enzyme Europe Limited, Roundway House, Cromwell Park, Chipping Norton, United Kingdom <b>Amano's biotransformation enzymes for chiral synthesis</b>	
<b>19:15 – 20:30</b>	Free concert in Nidaros Cathedral. See special invitation for information.	Nidaros Cathedral

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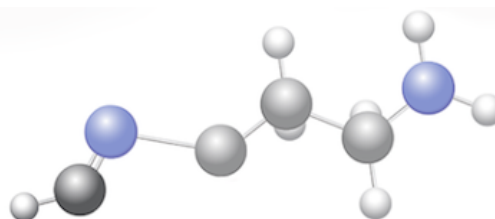


## Wednesday March 21, 2018

<b>Session chair: Jennifer Littlechild, ESAB, University of Exeter, United Kingdom</b>		
09:00 – 09:45	Nicholas J. Turner, School of Chemistry, Manchester Institute of Biotechnology, University of Manchester, United Kingdom <b>Design and evolution of new biocatalysts for enantioselective synthesis</b>	Hotel
09:45 – 10:00	Short break	Hotel
10:00 – 10:30	Florian Rudroff, Institute of Applied Synthetic Chemistry, TU Wien, Vienna, Austria <b>Substrate independent high-throughput assay for the quantitative assessment of carboxylic acid reductase activity in living cells</b>	Hotel
10:30 – 11:00	Clara Oberhauser, Institute of Organic Chemistry, Leibniz Universität Hannover, Germany <b>Novel macrocycles through biotransformation with terpene cyclases</b>	Hotel
11:00 – 11:30	Coffee break Poster session	Hotel
11:30 – 12:00	Elisabetta Brenna, Dipartimento di Chimica, Materiali ed Ingegneria Chimica “Giulio Natta”, Politecnico di Milano, Milano, Italy <b>Synthesis of chiral building blocks by one-pot procedures using redox enzymes</b>	Hotel
12:00 – 12:30	Fabio Parmeggiani, Manchester Institute of Biotechnology, University of Manchester, Manchester, United Kingdom <b>New chemoenzymatic and multienzymatic routes towards amino acids and amino sugars</b>	Hotel
12:30 – 13:00	Gonzalo de Gonzalo, Departamento de Química Orgánica, Universidad de Sevilla, Sevilla, Spain <b>Pd(0)calb-clea as bifunctional catalyst for the dynamic kinetic resolution of amines</b>	Hotel
13:00 – 14:30	Lunch Hotel Restaurant	Hotel
<b>Session chair: Nicholas J. Turner, University of Manchester, United Kingdom</b>		
14:30 – 15:15	Dörte Rother, Forschungszentrum Jülich GmbH, Institute of Bio- and Geosciences, Jülich, Germany <b>Modular synthetic enzyme cascades – from catalyst selection to reaction design</b>	Hotel
15:15 – 15:45	Reinhard Oegg, Forschungszentrum Jülich GmbH, Biotechnology, Jülich, Germany <b>Atom- and step efficient cascade design to all stereoisomers of anetole-1,2-diol including downstream processing</b>	Hotel
15:45 – 16:15	Coffee break Poster session	Hotel
<b>Session chair: Eduardo Garcia-Junceda, CSIC, Madrid, Spain</b>		
16:15 – 17:00	Sergio Riva, Istituto di Chimica del Riconoscimento Molecolare, C.N.R., Milano, Italy <b>multistep biotransformations: from multifunctional substrates to cascade enzymatic reactions</b>	Hotel
17:00 – 17:30	Poster session	Hotel
19:00-22:00	Conference dinner Scandic Nidelven Hotel	Scandic Nidelven Hotel

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**Thursday March 22, 2018**

<b>Session chair: Dörte Rother, Forschungszentrum Jülich GmbH, Jülich, Germany</b>		
<b>09:00 – 09:45</b>	William Finnigan, Department of Biosciences, Exeter, United Kingdom <b>The construction and validation of a process model for a seven enzyme biotransformation</b>	Hotel
<b>09:45 – 10:00</b>	Short break	Hotel
<b>10:00 – 10:30</b>	Thorleif Anthonen, Department of Chemistry, Norwegian University of Science & Technology, Trondheim, Norway <b>Biocatalysis for synthesis of enantiopure drugs</b>	Hotel
<b>10:30 – 11:00</b>	Coffee break Poster session	Hotel
<b>11:00 – 11:30</b>	Ryszard Ostaszewski, Institute of Organic Chemistry, Polish Academy of Sciences, Warsaw, Poland <b>Interfacing chemical and enzymatic steps for multicomponent reactions</b>	Hotel
<b>11:30 – 12:00</b>	Saadet Alpdagıtas, Department of Biology, Faculty of Science, Van Yuzuncu Yil University, Tusba, Van, Turkey and Department of Bioengineering, Faculty of Chemistry and Metallurgy, Yildiz Technical University, Esenler, Istanbul, Turkey <b>A novel NADPH regenerator for industrial biocatalysis</b>	Hotel
<b>12:00 – 12:30</b>	Angela Ruales-Salcedo, Grupo de Investigación en Aplicación de Nuevas Tecnologías, Departamento de Ingeniería Química, Universidad Nacional de Colombia, Campus La Nubia, Manizales, Colombia <b>Development of multi-enzyme process for gluconic acid production from cellulose</b>	Hotel
<b>12:30 – 12:45</b>	Dörte Rother Information about MECP2020 Aachen, Germany	Hotel
<b>12:45 – 12:55</b>	<b>End of conference and Farewell Words Elisabeth Jacobsen/Roland Wohlgemuth</b>	Hotel
<b>12:55 – 13:05</b>	Mikael Friberg, Update from Merck, Merck Sigma-Aldrich, Denmark	Hotel
<b>13:05 – 14:30</b>	Lunch Hotel Restaurant	
<b>End of conference</b>		