



16th European Congress on Biotechnology - Congress Programme

13 - 16 July 2014, Edinburgh International Convention Centre, Edinburgh, UK

(updated 1 March 2014)

Sunday 13 July	10:00 - 13:00 Young European Biotech Network (YEBN) workshop		10:00 - 14:30 Workshop: Industrial biotechnology from fundamentals to practice. Organised by the Austrian Centre for Industrial Biotechnology (ACIB)	
10:00 - 16:45			14:50 - 16:45 Workshop: Biomolecular technology of proteins Organised by BioToP - The international PhD programme on protein biotechnology at BOKU Vienna	
17:00 - 19:00	Opening Ceremony <i>Prof. Anne Glover, Chief Scientific Advisor to European Commission</i> <i>Prof. Jay Keasling, University of California, Berkeley</i>			
19:00 - 20:30	Welcome Reception, EICC			
Monday 14 July	Biochemical Engineering Journal Young Investigator Award			
9:00 - 10:00				
10:00 - 10:30	Break			
10:30 - 12:30	<p>Symposium 1: Stem cell applications and Gene therapies: where are we? <i>Keynote: Engineering synthetic stem cell niches, Matthias Lütolf (Switzerland)</i></p>	<p>Symposium 2: Plants for production of high value chemicals. <i>Keynote: Gary Loake (UK)</i></p>	<p>Symposium 3: Glycobiotechnology. <i>Keynote: Glycoarrays as tools in glycobiotechnology, Sabine Flitsch (UK)</i></p>	<p>Symposium 4: Robust biocatalysts for the production of novel bio-based products. <i>Keynote: Molecular design of transglucosidases for polysaccharide and oligosaccharide synthesis, Pierre Monsan (France)</i></p>
12:30 - 15:00	Lunch, Poster Presentations and Satellite Meetings			
13:30 - 14:30	Publications Workshop			
15:00 - 17:00	<p>Symposium 5: Synthetic biology replacements for antibiotics. <i>Keynote: Design and production of new-to-nature antimicrobials by synthetic biology, Oscar Kuipers (Netherlands)</i></p>	<p>Symposium 6: Assimilation of CO₂, CO and CH₄ into biobased products. <i>Keynote: Microbial fixation of CO₂ in water bodies and in drylands to combat climate change, soil loss and desertification, Roberto de Philippis (Italy)</i></p>	<p>Symposium 7: Applications of metabolic modelling. <i>Keynote: Making use of metabolic models – In-silico driven design and engineering of industrial microorganisms, Christoph Wittmann (Germany)</i></p>	<p>Symposium 8: Industrial biotechnology of natural and synthetic polymers. <i>Keynote: Gerald Gübitz (Austria)</i></p>
16:00 - 16:30	Break			
16:30 - 17:30	Symposium 5 (cont'd)	Symposium 6 (cont'd)	Symposium 7 (cont'd)	Symposium 8 (cont'd)
17:45 - 19:45	Bioeconomy <i>Keynotes: John Bell, Director of the Bioeconomy Directorate European Commission</i> <i>Jacqueline Allan (France)</i> <i>Satyahari Dey (India)</i>			



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Tuesday 15 July	Plenary: Prosthetic gene networks for biomedical applications <i>Prof. Martin Fussenegger, Department of Biosystems Science and Engineering, ETH Zürich</i>			
9:00 - 10:00				
10:00 - 10:30	Break			
10:30 - 12:30	Symposium 9: Biomarkers and diagnostic tools. <i>Keynote: Designing nanomaterials for ultrasensitive biosensing, Molly Stevens (UK)</i>	Symposium 10: Biowaste biorefinery for a more sustainable bioeconomy. <i>Keynote: Biowaste biorefinery for a more sustainable and biobased food industry, Fabio Fava (Italy)</i>	Symposium 11: Nanotechnology: new biological applications. <i>Keynote: Design, structure and assembly of superparamagnetic core-shell nanoparticles, Erik Reimhult (Austria)</i>	Symposium 12: Stress responses in microbial bioprocessing. <i>Keynote: Mechanisms of protein folding and quality control in bacteria, Bernd Bukau (Germany)</i>
12:30 - 15:00	Lunch, Poster Presentations and Satellite Meetings			
15:00 - 16:00	Symposium 13: New biomedical materials. <i>Keynote: Bacteria fabricate 3D scaffolds for organ regeneration, Paul Gatenholm (Sweden)</i>	Symposium 14: Plant genetic engineering. <i>Keynote: Genetic engineering of secondary metabolism for plant protection, John Pickett (UK)</i>	Symposium 15: Folding and secretion of recombinant proteins. <i>Keynote: Dr Imre Berger (France)</i>	Symposium 16: Bioprocessing. <i>Keynotes: Bacterial enzymes for lignin degradation: production of aromatic chemicals from lignocellulose, Tim Bugg (UK), and Andreas Schmid (Germany)</i>
16:00 - 16:30	Break			
16:30 - 17:30	Symposium 13 (cont'd)	Symposium 14 (cont'd)	Symposium 15 (cont'd)	Symposium 16 (cont'd)
19:30 - 23:30	Gala Evening			
Wednesday 16 July	Symposium 17: Development of new vaccines. <i>Keynote: Insect cell technology as a vaccine producing platform, Paula Alves (Portugal)</i>	Symposium 18: Exploitation of metagenomics for environmental and biocatalytic applications. <i>Keynote: Metagenomics: mining for novel catalysts, Elizabeta Bonch-Osmolovskaya (Russia)</i>	Symposium 19: Evolutionary strategies for cell factory development. <i>Keynote: Evolutionary and reverse metabolic engineering of Saccharomyces cerevisiae, Jack Pronk (Netherlands)</i>	Symposium 20: Systems biocatalysis. <i>Keynote: Harald Gröger (Germany)</i>
9:00 - 11:00				
11:00 - 11:30	Break			
11:30 - 12:30	Plenary: Bio-based production of chemicals, fuels and materials by metabolically engineered microorganisms <i>Prof. Sang Yup Lee, Korea Advanced Institute of Science and Technology</i>			
12:30 - 13:00	Closing Ceremony and Awards Presentations			