16th EUROPEAN CONGRESS ON BIOTECHNOLOGY
13-16 July 2014 • EICC • Edinburgh • Scotland
Organised by The European Federation of Biotechnology
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16th European Congress on Biotechnology – Detailed Agenda

Key

Plenary Session	Symposium	Highlight Event	Keynote Speaker

Sunday 13 July

10:00 – 14:30	**Workshop: Industrial biotechnology from fundamentals to practice.** Organised by the Austrian Centre for Industrial Biotechnology (ACIB)	**10:30 – 12:40** **Workshop: YEBN communications workshop** Supported by the Scottish Universities Life Science Alliance (SULSA)	
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** Opening lecture: How to get biotechnology to work for us *Prof. Anne Glover, Chief Scientific Adviser to European Commission* Plenary lecture: Synthetic Biology for Synthetic Chemistry *Prof. Jay Keasling, University of California, Berkeley*
19:00 – 20:30	**WELCOME RECEPTION (CROMDALE HALL, LEVEL -2)**		

Monday 14 July

09:00 – 10:00				**Biochemical Engineering Journal Young Investigator Award lecture** A glimpse into the future of mammalian cell culture process development: innovative approaches to impact time to clinic, product quality, and cost of process development and commercial manufacturing *Chetan Goudar, Amgen USA*
10:00 – 10:30	**REFRESHMENTS AND EXHIBITION (CROMDALE HALL, LEVEL -2)**			
10:30 – 12:30	**Symposium 1: Stem cell applications and gene therapies: where are we?**	**Symposium 2: Plants for the production of high value chemicals**	**Symposium 3: Glycobiotechnology**	**Symposium 4: Robust biocatalysts for the production of novel bio-based products**
10:30	Keynote: Engineering synthetic stem cell niches *Matthias Lutolf (Lausanne, CH)*	Keynote: Cultured cambial meristematic cells as a source of plant natural products *Gary Loake (Edinburgh, UK)*	Keynote: Glycoarrays as tools in glycobiotechnology *Sabine Flitsch (Manchester, UK)*	Keynote: Molecular design of transglucosidases for polysaccharide and oligosaccharide synthesis *Pierre Monsan (Toulouse, FR)*
11:00	A quick potency assay for osteogenic and chondrogenic differentiation of adipose derived stem cells *Eleni Oberbauer (Vienna, AT)*	Molecular marker-assisted selection and pyramiding effect of major QTLs for cotton fiber strength *Youlu Yuan (Beijing, CN)*	Risk assessment of feed additives of microbial origin in the European Union *Jaime Aguilera (EC Brussels, BE)*	Structural studies on transaminase enzymes and applications in biocatalysis *J Littlechild (Exeter, UK)*
11:15	Repeated systemic administration of human adipose-derived stem cells attenuate diabetic nephropathy in the rats *Xue-Yuan Bai (Beijing, CN)*	The CO_2 microalgae biorefinery: high value products and biofuels using halophilic microalgae in the "D-Factory" *Patricia Harvey (London, UK)*	*Pichia pastoris* GlycoDelete: the way out when N-glycans are a burden *Bram Laukens (Gent, BE)*	Current developments on the engineering of *Escherichia coli* biofilms for enzymatic biosynthesis of halotryptophans *Isaac Vizcaino-Caston (Birmingham, UK)*
11:30	Producing and harvesting culture-derived platelets with functional activity from blood stem cells *William Miller (Northwestern U., USA)*	Exploiting nature's chemists: high value bioactive compounds from algae *Christine Edwards (Robert Gordon University, Aberdeen, UK)*	Enzymatic remodelling of chitin for agrochemical applications *Rémi Chambon (CNRS Paris, FR)*	Structural and biochemical characterization of two novel enzymes with promiscuous ene-reductase activity *Tea Pavkov-Keller (Graz, AT)*
11:45	Adipose derived stem cells respond to *in vitro* extracorporeal shockwave treatment with increased stemness and multipotency *Christina Schuh (Vienna, AT)*	Use of synthetic biology in creating high-value metal nanoparticles from phytoremediated waste *Matthew Edmundson (Edinburgh, UK)*	Polysaccharides production by autotrophic cultures of microalgae *Antonio Marzocchella (Naples, IT)*	Lessons on directed evolution of hydrolases and glucose oxidase *Ulrich Schwaneberg (Aachen, DE)*
12:00	Engineering bacteria for the discovery of potential therapeutic compounds against protein misfolding diseases *Georgios Skretas (Athens, GR)*	Gene isolation and its identification of salinity stress on *G.hirsutum L.* *Wuwei Ye (CAAS, CN)*	Synthesis of potential prebiotics using *Pseudomonas syringae* DC3000 levansucrase Lsc3 *Triinu Visnapuu (Tartu, EE)*	Immobilization of carbonic anhydrase for biomimetic CO_2 capture in slurry absorber *Sara Peirce (Naples, IT)*

12:15	Computational prediction of associations between psoriasis, rheumatoid arthritis and osteoarthritis *Tuba Sevimoglu (Marmara, TR)*	Characterization of thermostable peroxidase from *Aegle marmelos* and its immobilization *Brijesh Pandey (Lucknow, IN)*	7-Hydroxydehydronuciferine induces human melanoma A375.S2 autophagy and apoptosis and inhibits metastasis in vitro and in vivo *Hui Min Wang (Kaohsiung, CN)*	Engineering of pyranose 2-oxidase for modified oxygen reactivity *Dagmar Brugger (BOKU, Vienna, AT)*
12:30 – 13:30	**LUNCH AND EXHIBITION (CROMDALE HALL, LEVEL -2)**			
13:15 – 15:00	**POSTER SESSION - ODD NUMBERS (STRATHBLANE HALL AND KILSYTH, LEVEL 0)**		**13:30 – 14:30** **Highlight event: Governance, risk and responsible innovation**	**13:15 -14:45** **Highlight event: Publications workshop: How to get your science published**
15:00 – 16:00	**Symposium 5: Synthetic biology**	**Symposium 6: Assimilation of CO_2, CO and CH_4 into biobased products**	**Symposium 7: Applications of metabolic modelling**	**Symposium 8: Industrial biotechnology of natural and synthetic polymers**
15:00	Keynote: Design and production of new-to-nature antimicrobials by synthetic biology *Oscar Kuipers (Groningen, NL)*	Keynote: Microbial fixation of CO_2 in water bodies and in drylands to combat climate change, soil loss and desertification *Roberto de Philippis (Florence, IT)*	Keynote: Making use of metabolic models – *In-silico* driven design and engineering of industrial microorganisms *Christoph Wittmann (Braunschweig, DE)*	Keynote: Green polymer processing with enzymes *Georg Gübitz (Graz, AT)*
15:30	Synthetic transcription factors allow regulon wide control and shifting the Nitrogen/Carbon balance in bacteria *Jorg Schumacher (Imperial, London, UK)*	Microalgal biofuels from native biological resource of Pearl River Delta *Maurycy Daroch (Peking, CN)*	Design of optimally constructed metabolic networks of minimal functionality *David Ruckerbauer (ACIB Vienna, AT)*	Open mixed cultures for bioethanol production from lignocellulosic materials *Davide Dionisi (Aberdeen, UK)*
15:45	Cofactor uptake in 1,2-propanediol metabolising microcompartments *Matthias Mayer (Kent, UK)*	Exploring the potential of microalgae for bioenergy production *Frank Baganz (UC London, UK)*	What is the relationship between intracellular and extracellular metabolites? The theory of "metabolic overflow" put into test *Silas Villas-Boas (Aukland, NZ)*	Strategies for enzymic functionalization of synthetic polymers *Enrique Herrero Acero (ACIB, Vienna, AT)*
16:00 – 16:30	**REFRESHMENTS AND EXHIBITION (CROMDALE HALL, LEVEL -2)**			
16:30 – 17:30	**Symposium 5 (cont'd)**	**Symposium 6 (cont'd)**	**Symposium 7 (cont'd)**	**Symposium 8 (cont'd)**
16:30	Use of transporter plug-ins in building effective microbial cell factories for chemical and fuel production *Christopher Grant (UC London, UK)*	Development of luminescent photobioreactors for improved microalgae cultivation *Seyedeh Fatemeh Mohsenpour (Heriot-Watt Edinburgh, UK)*	Towards genome-scale metabolic pathway analysis: metabolome integration allows efficient enumeration of elementary flux modes in metabolic networks *Jürgen Zanghellini (ACIB Vienna, AT)*	Influence of nutritional and physicochemical variables in PHB production from raw glycerol by a wild *Bacillus megaterium* strain *Carolina Guzman Luna (Rio Grande do Sol, BR)*
16:45	Novel tuneable gene expression systems based on orthogonal riboswitches *Neil Dixon (Manchester, UK)*	Identification of new auxiliary enzymes for the hydrolysis of lignocellulose *Oriana Salazar (Santiago, CL)*	Genome scale metabolic modeling of recombinant protein producing yeasts: Prediction of process parameters and metabolic engineering targets for efficient production *Diethard Mattanovich (BOKU Vienna, AT)*	Value-added carotenoid production in the pennate diatom *Phaeodactylum tricornutum* with light emitting diode based photobioreactors *Weiqi Fu (UC San Diego, USA)*

17:00	Signal transduction engineering: a powerful platform technology for enhancing secondary metabolite production *Jian-Jiang Zhong (Shanghai, CN)*	Engineering biofuel producing microbes for efficient hemicellulose utilisation using synthetic biology *Gavin Thomas (York, UK)*	Use of a novel combinatorial genetics platform to rapidly clone, express and select target biocatalytic activities for multigenic metabolic pathway optimization *Ian Fotheringham (Ingenza, Midlothian, UK)*	Antibacterial and antifungal activity of charcoal materials and microwave radiation *Hee Jin Yang (Myongji, KR)*
17:15	Development of two continuous genome engineering strategies for efficient microbial evolution *Zhen Cai (Chinese Academy of Sciences, CN)*	Economic assessment of microbial lipids for biodiesel production: competitiveness with microalgae and agricultural plant oils *Ho Nam Chang (KAIST, Daejeon, KR)*	Methanol – a potential carbon source for *Corynebacterium glutamicum* *Sabrina Witthoff (Jülich, DE)*	Polyhydroxyalkanoates production by aerobic mixed microbial cultures using crude glycerol *Paulo Costa Lemos (Lisbon, PT)*
17:45 – 19:45	**17.30 – 19.00** **POSTER RECEPTION – EVEN NUMBERS (STRATHBLANE HALL AND KILSYTH, LEVEL 0)**			**Highlight event: Bioeconomy** Keynote: Building a European Bioeconomy *Eveline Lecoq, (European Commission)* Keynote: Addressing global policy challenges through technology: an OECD perspective *Jacqueline Allan (OECD, France)* Keynote: Asia Bioeconomy and Biobusiness: current scenario and future prospects, *Satyahari Dey (IIT, Kharagpur, IN)*

Tuesday 15 July

09:00 – 10:00				**Plenary lecture: Prosthetic gene networks for biomedical applications** *Prof. Martin Fussenegger, Department of Biosystems Science and Engineering, ETH Zürich*
10:00 – 10:30	**REFRESHMENTS AND EXHIBITION REFRESHMENTS AND EXHIBITION (CROMDALE HALL, LEVEL -2)**			
10:30 – 12:30	**Symposium 9: Biomarkers and diagnostic tools**	**Symposium 10: Biowaste biorefinery for a more sustainable bioeconomy**	**Symposium 11: Nanotechnology: new biological applications**	**Symposium 12: Stress responses in microbial bioprocessing**
10:30	Keynote: Designing nanomaterials for ultrasensitive biosensing *Molly Stevens (Imperial London, UK)*	Keynote: Biowaste biorefinery for a more sustainable and biobased food industry *Fabio Fava (Bologna, IT)*	Keynote: Design, structure and assembly of superparamagnetic core-shell nanoparticles *Erik Reimhult (BOKU, Vienna, AT)*	Keynote: Mechanisms of protein folding and quality control in bacteria *Bernd Bukau (Heidelberg, DE)*
11:00	Antibodies by design *Peter Tessier (Rensselaar Polytechnic Inst., USA)*	Development of an advanced biorefinery concept based on valorization of pulp and paper industry waste streams *Apostolis Koutinas (Athens, GR)*	Production and characterization of HIV-1 virus-like particles using transient gene expression in mammalian cells. *Sonia Gutiérrez-Granados (UAB, ES)*	Engineering customised cell signalling circuits and their biotechnological applications *Baojun Wang (Edinburgh, UK)*
11:15	Engineering cofactor specificity of methyltransferases *Martin Tengg (Graz, AT)*	Biotechnological conversion of spent coffee grounds into polyhydroxyalkanoates *Stanislav Obruca (Brno, CZ)*	Bacterial microcompartments moving into the world of biotechnology *Stefanie Frank (Kent, UK)*	Stochastic activation of the GlpR-controlled glp gene cluster in *Pseudomonas putida* KT2440 results in a bistable growth pattern on glycerol *Pablo Ivan Nikel (CNB-CSIC, Madrid, ES)*
11:30	Synthetic bioreporters for detection of environmental pollutants *Jan Roelof van der Meer (Lausanne, CH)*	Extraction of the protein fraction of dry distillers grains with solubles, implementing biocatalytic and chemical methods *Maria Villegas Torres (UC London, UK)*	Protein supramolecular engineering – applications in biotechnology *Patrick Shahgaldian (Muttenz, CH)*	The adaptation of the intestinal sulphate reducing bacterium, *Desulfovibrio desulfuricans*, to nitrosative stress induced by nitric oxide *Matthew Faulkner (Birmingham, UK)*
11:45	A homogeneous quenching resonance energy transfer assay for H-Ras activation cycle monitoring and inhibitor screening *Kari Kopra (Turku, FI)*	Succinic acid production from raw materials by *Actinobacillus succinogenes* *Christophe Roca (Lisbon, PT)*	Biological production of stable copper nanoparticles *Nikolaos Pantidos (Edinburgh, UK)*	Origins of *Escherichia coli* growth rate and cell shape changes at high external osmolality *Teuta Pilizota (Edinburgh, UK)*
12:00	Association of apolipoprotein E gene polymorphism with serum lipid levels *Sehrish Fatima (Karachi, PK)*	Enhanced welan gum production using cane molasses as substrate by *Alcaligenes* sp. ATCC31555	Insight into the physiological role of a compartmentalised ferritin like protein in *Rhodospirillum rubrum*	Engineering global regulator cAMP receptor protein (CRP) of *E. coli* for improved biobutanol tolerance

		Jufang Wang (Guangzhou, CN)	*Jon Marles-Wright (Edinburgh, UK)*	*Rongrong Jiang (Nanyng TU, SG)*
12:15	Comparative large scale microRNA expression profiles of cynomolgus monkeys, rat and human reveal miR-182 associated with T2D *Hongli Du (Guangzhou, CN)*	Investigating the biomass modifying and degrading enzymatic toolbox of *Aspergillus japonicus var aculeatus* FEC 156 with quantitative proteomics and new generation sequencing tools *George Anasontzis (Chalmers, Göteborg, SE)*	Catalytic properties improvements of *Alcaligenes faecalis* nitrilase by self-assembly induced aggregation *Shuang Li (Guangzhou, CN)*	Heat shock at higher cell densities improves the translocation of measles virus hemagglutinin into the yeast endoplasmic reticulum *Rimantas Slibinskas (Vilnius, LT)*
12:30	Probiotics fermented soymilk treatment decreases blood lipid, and ameliorates high-fat diet-induced liver injury in mice *Yuhua Wang (Jilin, CN)*			
12:30 – 15:00	**LUNCH AND EXHIBITION (CROMDALE HALL, LEVEL -2)**			
	POSTER PRESENTATIONS – EVEN NUMBERS (STRATHBLANE HALL AND KILSYTH, LEVEL 0)	**13:15– 14:45** **Highlight event: advances in omic technologies**	**13:30 - 14:30** **Highlight event: careers workshop How to manage your career post-qualification**	**13:15 – 14:30** **Sponsored symposium**
		Integrating omics to study human biology and disease *Mathias Uhlen*		Recent developments in scaling down and using single use probes for measuring the live cell concentration by dielectric spectroscopy *Pardip Sandhar (Aber Ins. UK)* Scale-down study of oscillations in oxygen and substrate supply for *Corynebacterium glutamicum* *Marco Oldiges (Jülich, DE)* Automated development of recombinant bioprocesses – from vision to mission *Florian Glauche, TU-Berlin, D* Scale up of chito-oligomer production via bacterial fermentation *Hendrik Waegeman (Bio Base Europe)*
15:00 – 16:00	**Symposium 13: Biomedical research**	**Symposium 14: Plant genetic engineering**	**Symposium 15: Recombinant protein production**	**Symposium 16: Bioprocessing**
15:00	Keynote: Bacteria fabricate 3D scaffolds for organ regeneration	Keynote: Genetic engineering of secondary metabolism for plant	Keynote: Getting a grip on complexes: tools and technologies for multiprotein	Keynote: Bacterial enzymes for lignin degradation: production of aromatic

	Paul Gatenholm (Chalmers, Göteborg, SE)	protection *John Pickett (Rothampstead, UK)*	complex research *Dr Imre Berger (Grenoble, FR)*	chemicals from lignocellulose *Tim Bugg (Bath, UK)*
15:30	Enzyme immobilized polymeric biomaterials *Mukesh Doble (Madras, IN)*	Transcriptome and small RNA sequencing analysis of a new dwarf mutant in *Gossypium hirsutum* L *Xiongming Du (Huazhong, CN)*	Making life better for *Escherichia coli* cells that produce toxic membrane proteins *Dimitra Gialama (Athens, GR)*	Keynote: Quantitative single cell analysis of isolated microbes in controlled microenvironments *Andreas Schmid (Dortmund, DE)*
15:45	Osteoblast cell proliferation on magnesium-substituted hydroxyapatite coatings *Kursat Kazmanli (Istanbul, TR)*	Understanding the interactions between plant biotic and abiotic stress through characterization of microRNA effectors in jute (*Corchorus* spp.)-*Macrophomina phaseolina* interaction system *Lalit Kharbikar (Barrackpore, IN)*	Population heterogeneity in *Pseudomonas putida* analyzed on the single cell level using proteomics and digital PCR *Michael Jahn (Dortmund, DE)*	
16:00 – 16:30	**REFRESHMENTS AND EXHIBITION (CROMDALE HALL, LEVEL -2)**			
16:30 – 17:30	**Symposium 13 (cont'd)**	**Symposium 14 (cont'd)**	**Symposium 15 (cont'd)**	**Symposium 16 (cont'd)**
16:30	Bone regeneration through facile binding of bone graft substitute particles using mussel adhesive protein *Hyung Joon Cha (Gyeongsangbuk-do, KR)*	Can plant still be a major and cost-effective source for the supply of artemisinin, the most potent anti-malaria drug? *Kexuan Tang (Shanghai, CN)*	Synthesis of antibacterial bacteriophage proteins in microalgae *Laura Stoffels (UC London, UK)*	Continuous precipitation of recombinant antibodies from CHO cell culture supernatant by calcium-phosphate flocculation and cold ethanol precipitation *Nikolaus Hammerschmidt (ACIB Vienna, AT)*
16:45	The stabilisation of red blood cells in a powdered form *Krishnaa Mahbubani (Cambridge, UK)*	Comparative evaluation o bacterialdversity from GM andnon-GM maize rhizosphere *Naseer Ahmad (COMSATS, Islamabad, PK)*	Integrative '-omic' approach to explore molecular mechanism of miRNA engineered Chinese hamster ovary cell. *Vaibhav Jadhav (BOKU Vienna, AT)*	Modelling of mixing and microbial growth in bubble column bioreactors using computational fluid dynamics *Dale McClure (Sydney, AU)*
17:00	Stable aqueous solutions of keratin polypeptides: their properties in solution and at interfaces *Fang Pan (Manchester, UK)*	Recombinant protein expression in the chloroplast of the green microalga *Chlamydomonas reinhardtii*: a case study using a novel green fluorescent protein as a reporter *Stephanie Braun Galleani (UC London, UK)*	Investigating the physiological effect of increased heterologous gene dosage in *Pichia pastoris* using transcriptomics *Elena Camara (UAB, ES)*	DIisposable hollow fibre bioreactors for high cell density virus production in continuous mode *Felipe Tapia (Magdeburg, DE)*
17:15	Trehalolipid biosurfactants from *Rhodococcus ruber* with anti-adhesive and immunomodulatory activities *Maria Kuyukina (Perm State U., Moscow, RU)*	Engineering barley for increased drought resistance *Ivo Frébort (Olomouc, CZ)*	Enhanced membrane protein expression by engineering increased intracellular membrane production *Katrien Claes (VIB Gent, BE)*	Bioprocess strategies for production of xylanase on agro-residual products with *Aureobasidium pullulans* *Sirma Yegin (Ege Univ., Izmir, TK)*

17:45 – 19:15	**18:00 – 19:30** **Highlight Event: Living in a post-antibiotic era: the challenge of disease resistance** This event is open to the public	**Highlight Event: Future collaborations of AFOB-EFB and MOU signing ceremony**	**17:30 – 19:00** **POSTER RECEPTION – ODD NUMBERS (STRATHBLANE HALL AND KILSYTH, LEVEL O)**	**Symposium 21: Biodegradation and biomediation**
17:45	(See page X for details)	Open meeting organised by the Asian Federation of Biotechnology (See page X for details)		Bioremediation for resource recovery *Louise Horsfall (Edinburgh, UK)*
18:00				Arsenic bioremediation potential of novel bacterial strains isolated from As contaminated groundwater of West Bengal, India *Pinaki Sar (Kharagpur, IN)*
18:15				Reduction of hexavalent chromium using combination of nanoscale zero-valent iron and biological treatment in-situ *Tomáš Cajthaml (Prague, CS)*
18:30				Isolation of PAH dwelling Penicillium for application in bioremediation processes *Elisabet Aranda (CSIC Barcelona, ES)*
18:45				Potential of ectomycorrhizal fungus *Pisolithus tinctorius* to tolerate and to degrade trifluoroacetate into fluoroform *Paula Castro (Porto, PT)*
19:00				Is sulfonamide bacteriostatic biodegradation a new bacterial resistance mechanism? Benjamin Ricken (Muttenz, CH)
19:30 – 23:00	**GALA DINNER (JOHN HOPE GATEWAY, ROYAL BOTANIC GARDEN EDINBURGH)** (See page X for details)			

Wednesday 15 July

09:00 – 11:00	Symposium 17: Development of new vaccines and antimicrobials	Symposium 18: Exploitation of metagenomics for environmental and biocatalytic applications	Symposium 19: Evolutionary strategies for cell factory development	Symposium 20: Systems biocatalysis
09:00	Keynote: Insect cell technology as a vaccine producing platform *Paula Alves (ITQB, PT)*	Keynote: Metagenomics: mining for novel catalysts *Elizabeta Bonch-Osmolovskaya (Moscow, RU)*	Keynote: Evolutionary and reverse metabolic engineering of *Saccharomyces cerevisiae* *Jack Pronk (TU-Delft, NL)*	Keynote: Combination of the two "worlds": chemo- and biocatalysis towards multi-step one-pot processes *Harald Gröger (Bielefeld, DE)*
09:30	Engineering of factor H binding protein, a key vaccine antigen for the prevention of meningococcal disease *Hayley Lavender (Oxford, UK)*	Metagenomics unveils bacterial and fungal communities response to mycoremediation of polychlorinated biphenyl-contaminated soil *Tatiana Stella (Prague, CZ)*	Adaptive evolution of *Saccharomyces cerevisiae* to early stage of an alcoholic fermentation *Ana Mangado (ICVV/CSIC, ES)*	Keynote: Engineering artificial metabolisms *in vitro* *Wolf-Dieter Fessner (Darmstadt, DE)*
09:45	Antimicrobial properties of sophorolipids produced by *Candida bombicola* ATCC 22214 against Gram positive and Gram negative bacteria. *Mayri Alejandra Diaz De Rienzo (Manchester, UK)*	Mining alginate lyases in sediment metagenomes from four geographically distant cold coastal environments *Hebe Dionisi (CENPAT-CONICET, Buenos Aires, AR)*	Genome dynamics of the human embryonic kidney 293 (HEK293) lineage in response to cell biology manipulations *Morgane Boone (VIB Gent, BE)*	
10:00	Tailoring *Streptomyces*: producing novel minor groove binder antibiotics *Emilio Cortes Sanchez (Strathclyde, UK)*	Designed sensor cells for direct detection of microbial colonies with target enzyme activities on solid plates *Haseong Kim (KRIBB, Daejeon, KR)*	Versatile and stable vectors for efficient gene expression in *Ralstonia eutropha* H16 *Petra Koefinger (TU-Graz, AT).*	Expanding the diversity of diketopiperazines biosynthesized by cyclodipeptide synthases *Isabelle Jacques (SIMORPO, Fontenay-aux-Roses, FR)*
10:15	Progesterone biosynthesis by combined action of adrenal steroidogenic and mycobacterial enzymes in fast growing mycobacteria *Nicolai Strizhov (Moscow, RU)*	Metagenomic analysis of microbial community in petroleum refinery waste using next generation sequencing and assessment of bioremediation potential *Sufia Kazy (Durgapur, IN)*	Novel human kidney epithelial cell line in pharmaceutical biotechnology *Lukas Fliedl (ACIB Vienna, AT)*	Improving the performance of coupled racemase/acylase systems: new structural insights and novel tools for high-throughput screening. *Guiomar Sanchez Carron (Edinburgh, UK)*
10:30	DNA vaccine expressing ubiquitin-conjugated multi-fragments antigens protects BALB/c mice against *Toxoplasma gondii* infection *Hua Cong (Shandong, CN)*	Bioconversion of lignocellulosic hydrolysates: strategies to overcome the inhibitory effects at high gravity processes *Charilaos Xiros (Chalmers, Göteborg, SE)*	*De novo* production of geranic acid with *Pseudomonas putida* *Jens Schrader (DECHEMA RI, Frankfurt,DE)*	Artificial enzyme cascade to the polymer building block ω-amino caproic acid *Wolfgang Kroutil (Graz, AT)*
10:45	Cyanobacteria *Nostoc* sp. SI-SN from hypersaline lake produces C-Phycoerythrin with potent antioxidant and DNA protection activity. *Saadia Ijaz (Multan, PK)*		High-throughput nL-reactor screening for antimicrobial peptides *Steven Schmitt (ETH Zürich, CH)*	Uncovering the broader roles of redox partner proteins for cytochrome P450 enzymes *Shengying Li (Quindao, CN)*
11:00	Proteome-wide analysis of the functional roles of bacilysin biosynthesis in *Bacillus subtilis*			

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	Gulay Ozcengiz (METU, Ankara, TR)			
11:00 – 11:30	**REFRESHMENTS AND EXHIBITION (CROMDALE HALL, LEVEL -2)**			
11:30 – 12:30				**Plenary lecture: Bio-based production of chemicals, fuels and materials by metabolically engineered microorganisms**
				Prof. Sang Yup Lee, Korea Advanced Institute of Science and Technology
12:30 – 13:00				**Closing ceremony and awards presentations**