

Program

Science Days

September 10 – 12, 2013 Graz, Austria



Tuesday, September 10, 2013

03:00pm *Registration*

03:50pm **Opening**

04:00pm **Goodman C.** Publishing in Nature Journals
Senior Editor
Nature Chemical Biology, Cambridge, USA

Surface Biotechnology Gain Sustainability

04:30pm **Gübitz G.** Directing Natural Enzymes to Synthetic Polymeric Substrates

05:10pm **Przylucka A.** Recombinant Hydrophobin Production by Three Microbial Cell Factories

05:35pm **Schiffer D.** Polymers as Enzyme Substrates for Infection Diagnosis and as Matrices for Wound Treatment

06:10pm *Poster Session & Meet Your Industry Partner (including Dinner)*



Wednesday, September 11, 2013

Biocatalysis for a Biobased Economy

09:00am	Faber K. Challenges & Opportunities in Biotransformations
09:40am	Gruber M. Biocatalytic Thiol Alkylation
10:05am	Wilding B. Exploring the Active Binding Site of Nitrile Reductases
10:30am	<i>Coffee & Networking</i>
11:00am	Tasnadi G. Ene-Reductases for Asymmetric C=C Bond Reductions
11:25am	Wuensch C. Biocatalytic Carboxylation of Aromatics and Asymmetric Hydration of Styrenes
11:50am	Simon R. Enzymatic Transamination for Asymmetric Synthesis
12:15am	Napora-Wijata K. The Natural Way to a Natural Product – Microbial Production of 3- Hydroxytyrosol
12:40am	<i>Lunch</i>

Metabolic Modelling & Systems Biology for Intensified Production

02:00pm	Sauer M. Metabolic Engineering for Sustainable Chemical Production
02:40pm	Nair G. Automated Strain Improvement Using a Genetic Algorithm
03:05pm	Steiger M. Analyzing the Impact of Compartmentalization on Organic Acid Production in <i>Aspergillus niger</i>
03:30pm	Bischof R. Genome Wide Transcriptional Response to Industrially Relevant (hemi-)Cellulase Inducing Substrates in <i>Trichoderma reesei</i>
03:55pm	<i>Coffee & Networking</i>

From Structure to New Function

04:25pm	Steiner K. The Potential of Metalloenzymes in Biocatalysis
05:05pm	Gruber C. Chasing Enzymatic Promiscuity by Exploring Empty Space
05:30pm	Schmölzer K. Characterization of a Multifunctional α 2,3-Sialyl-transferase from <i>Pasteurella dagmatis</i> , Carrying a Natural Ser-to-Thr Substitution
06:10pm	<i>Poster Session & Meet Your Industry Partner (including Dinner)</i>
08:00pm	<i>Poster Prize Award</i>



Thursday, September 12, 2013

Materials and Processes for Biomanufacturing

- 09:00am **Jungbauer A.** Giant Porous Polymer Nanomembranes for Biotech Applications
- 09:40am **Dürauer A.** Mass Transfer and Kinetics of Protein Renaturation Applied in μ - and Lab Scale
- 10:05am **Hahn R.** Microparticles for Fast Capture of Proteins from Culture Broth
- 10:30am *Coffee & Networking*

Cells and Proteins to Meet Industries Needs

- 11:00am **Borth N.** Genome Scale Science for CHO Cells
- 11:40am **Glieder A.** Synthetic Parts for Protein Expression by *Pichia pastoris*
- 12:05am **Klanert G.** Comparison of a Chimeric and the Endogenous miR-221~222 Cluster in CHO Cells
- 12:30am *Lunch*
- 01:30pm **Delic M.** Redox Regulation in ER and Cytosol During Oxidative Protein Folding and ER Stress
- 01:55pm **Heel T.** Directed Evolution of Terpene Cyclases
- 02:20pm **Marisch K.** Expressing a Cytochrome P450 Fusion Protein in *Escherichia coli* Fedbatch Cultivations
- 02:45pm **Zachow C.** New Concepts for Bioprocess Development and Knowledge Transfer to Unexplored Bioresources
- 03:10pm *Closing of the Science Days*