



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 *Coffee & Networking*
- 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 *Lunch*

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 *Aspergillus niger*
- 03:30pm **Bischof R.** Genome Wide Transcriptional Response to Industrially Relevant (hemi-)Cellulase Inducing Substrates in *Trichoderma reesei*
- 03:55pm *Coffee & Networking*

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-Sialyltransferase from *Pasteurella dagmatis*, Carrying a Natural Ser-to-Thr Substitution
- 06:10pm *Poster Session & Meet Your Industry Partner (including Dinner)*
- 08:00pm *Poster Prize Award*



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*