

Biotechnology News

February 2016

New personnel/quests



Gülden Gorani. Here under supervision of Linda Kanders until June



Neslihan Idil. Guest of Bo Mattiasson, here for 6 months



Paul Bromberger. Guest of Rajni, here for 6 months. Paul is supported by Erasmus+ Traineeship fellowship will work on a project with Lu Chen on a microcompartment structural protein in *Lactobacillus reuteri*.



Mohammad Abu Mursalin Sajib. Guest of Patrick, here for 6 months

Visitors

✓ **Dr. Tarek Dishisha** arrives end of February for a 2 months period to work on the project supported by Evonik.

✓ **Prof. Amelia Kivaisi** from University of Dar-es-Salam will visit us on the 1-3rd of March to discuss a project supported by Sida.

✓ **Leonardo Cobuccio**, Italy. Arriving in March (6 months stay), Rajni

✓ **Fabricio Belgrano**, Brasil. Arriving in March (1 year stay), Rajni

Publications

Shah, N., Patel, A., Ambalam, P., Holst, O., Ljungh, Å., Prajapati, J. (2016) Determination of an antimicrobial activity of *Weissella confusa*, *Lactobacillus fermentum*, and *Lactobacillus plantarum* against clinical pathogenic strains of *Escherichia coli* and *Staphylococcus aureus* in co-culture. **Ann Microbiol** DOI 10.1007/s13213-016-1201-y

T. Dishisha, S.H. Pyo, R. Hatti-Kaul, Bio-based 3-hydroxypropionic- and acrylic acid production from biodiesel glycerol via integrated microbial and chemical catalysis, *Microb. Cell Fact.* 14 (2015), 1.

M. Sayed, T. Dishisha, W.F. Sayed, W.M. Salem, H.A. Temerk, S.H. Pyo, Selective oxidation of trimethylolpropane to 2,2-bis(hydroxymethyl)butyric acid using growing cells of *Corynebacterium sp.* ATCC 21245, *J. Biotechnol.* 221 (2016) 62-69.

S.H. Pyo, R. Hatti-Kaul, Chlorine-free synthesis of organic alkyl carbonates and five- and six-membered cyclic carbonates, *Adv. Synth. Catal.* (2016), DOI 10.1002/adsc.201500654.

M. Sayed, Y. Gaber, A. Bornadel, S.H. Pyo, Multi-steps green process for synthesis of six-membered functional cyclic carbonate from trimethylolpropane by lipase catalyzed methacrylation and carbonation, and thermal cyclization, *Biotechnol. Prog.* (2016), DOI: 10.1002/btpr.220

Farshad Rahimpour, Rajni Hatti-Kaul and Gashaw Mamo

Response surface methodology and artificial neural network modeling of an aqueous two-phase system for purification of a recombinant alkaline active xylanase. *Process Biochemistry* (2016) in press

Amin Bornadel, Rajni Hatti Kaul, Frank Hollman and Selin Kara, Enhancing the productivity of the bi-enzymatic convergent cascade for ϵ -caprolactone synthesis through design of experiments and a biphasic system. *Tetrahedron* 2016 <http://dx.doi.org/10.1016/j.tet.2015.11.054>

MISCELLANEOUS

- F.Y.I – Christina was, on the 28th of January, elected as new deputy safety inspector (followed by Pontus Lundemo) after a unanimous meeting at the division of Biotechnology. 14 people were present.
- We look forward to the upcoming dissertation of Bing Wang. Save the date: Friday the 20th of May!

Last but not least, here are some pictures from the previous Christmas party:



Contributions to the next newsletter (expected out in April):
Please send an e-mail to Emma emma.poaches@biotek.lu.se