

Biotechnology News

December 2014

New Head of Division

Olle Holst has been elected as Head of Division and Maria Andersson as Deputy Head for the period 2015-2017

Postdoc

- As you may have noticed, Rosa Aragao has joined as a postdoc. She will be studying biological process of biomass degradation with a focus on anaerobic microorganisms.
- Linda has received an international post doc grant from the Swedish Research Council of 1 050 000 SEK per year during three years for her postdoc project entitled: "Role and change of dissolved organic matter during oxidative water treatment: from competition to prediction of micropollutant abatement". Linda will spend two years at Eawag: Swiss Federal Institute of Aquatic Science and Technology in Dübendorf, Switzerland, after which she returns to Sweden and Lund University to undertake the third and the final year. Linda plans to leave for Switzerland in February 2015 and terminates her employment here at Biotechnology by the end of January

Erasmus/Master Student

An Erasmus student, Dan Kucera from Brno University of Technology, Czech Republic will come in mid-January. Niklas Olsson, a Master student at SLU will also come to do an advanced course on anaerobic cellulolytic systems during early 2015. Both will work with Rosa Aragao.

Recent and current dissertations:



Julia Wolska, 14th of November

Peter Falck, 21st of November

**CONGRATULATIONS
TO BOTH!**



- Maryam Latifian, 12th of February 2015
- Ally Mahadhy, 25th of February 2015

Grants

Following persons have received grants:

- Patrick Adlercreutz and Peter Falck, from Antidiabetic food centre, 1 year of 700'000 Skr
- Linda Önnby, from Swedish Research Council, 3 years á 1'050'000 Skr/year
- Eva Nordberg Karlsson, from VR, 4-year project of 3,48 MSkr and from Lantmännens forskningsstiftelse, 1 year of 0,4 MSkr
- Also, Marisa have received approximately 90'000 Skr for equipment and instruments from Fysiografen

New publications:

Patel, A., Prajapati, J.B., Holst, O., Ljungh, Å. (2014) Determining probiotic potential of exopolysaccharide producing lactic acid bacteria isolated from vegetables and traditional Indian fermented food products. **Food Bioscience 5:** 27-33

Wolska, J., Holst, O., Adlercreutz, P., Jonkers, J. (2014) Standardized method for the Holmen pellet tester (NHP100) as a tool for evaluating the physical quality of fish feed. **Aquaculture Research** DOI: 10.1111/are.12637

Acceleration of α -Synuclein Aggregation by Exosomes, Marie Grey, Christopher J. Dunning, Ricardo Gaspar, Carl Grey, Patrik Brundin, Emma Sparr and Sara Linse, *Journal of Biological Chemistry (accepted)*, 2014

Nges, I.A., Wang, B., Cui, Z., and Liu, J. 2014. Digestate liquor recycle in minimal nutrients-supplemented anaerobic digestion of wheat straw. **Biochemical Engineering Journal. In Press, DOI: 10.1016/j.bej.2014.11.023**

Moshi, A.P., Ken, M., Hosea, M., Emrode E., Mshandete, A.M., and Nges, I.A. 2014. Production of bioethanol from wild cassava *Manihot glaziovii* through various combinations of hydrolysis and fermentation in stirred tank bioreactors. *British Journal Of Biotechnology*, In Press, 2014_BBJ_1391.

Tarek Dishisha, Mohammad H A Ibrahim, Victor H Cavero, Maria Teresa Alvarez and Rajni Hatti Kaul Improved propionic acid production from glycerol: combining cyclic batch and sequential batch fermentations with optimal nutrient composition. *Bioresource Technology* 176, 80-87 (2015)

Villagomez R, Hatti-Kaul R, Sterner O, Almanza G, Linares-Pastén JA (2014) Effect of Natural and Semisynthetic Pseudoguianolides on the Stability of NF- κ B:DNA Complex Studied by Agarose Gel Electrophoresis. *PLOS ONE*. DOI. 10.1371/journal.pone.0115819

Faryar R, Linares-Pastén JA, Immerzeel P, Mamo G, Andersson M, Stålbrand H, Mattiasson B, Nordberg Karlsson E (2014). Production of prebiotic xylooligosaccharides from alkaline extracted wheat straw using the K80R-variant of a thermostable alkali-tolerant xylanase. *Food and Bioproducts Processing*

Thank you all for a fun and festive Christmas dinner on December the 11th!
Food, gifts and games. ☺ And thanks to Emanuel, Bing, Lu & Emma for the arrangements!



Last but not least,

We want to thank Rajni for serving as Head of the Department for the past 8 years!



