

Biotechnology News

October / November 2014



Coming guests & researchers

Following guest researchers are arriving on 1st of November:

Cao Xi from China /Patrick

Mohammad Ibrahim from Egypt / Rajni

Here for 6 months to complete the project on polyhydroxyalkanoates he was involved in during his previous stay. He is supported by a fellowship from Egypt.

Farshad Rahimpour from Iran / Rajni

Will come on a 1 year sabbatical supported by his university in Iran.

Current:

Tove Rydén Sonesson is doing an internship together with Purac AB at our department

Recent and current dissertations:

Serena Bisagni, 24th of October

Julia Wolska, 14th of November

Peter Falck, 21st of November



Save the date:

Traditional winter holiday dinner!

Eat, drink and mingle....

Thursday the 11th of December



(More information coming)

New publications:

Linda Kanders, Areskoug T., Schneider Y., Ling D., **Punzi M.** and Beier M. 2014. **Impact of seeding on the start-up of one-stage deammonification MBBRs** *Environmental Technology* 35(22):2767-73

Mahadhy, A., Mamo, G., StåhlWernersson, E., Mattiasson, B., Hedström, M., (2014). **PCR-Free Ultrasensitive Capacitive DNA-sensor for Selective Detection and Quantification of Enterobacteriaceae DNA.** *Journal of Analytical & Bioanalytical Techniques* (accepted).

Berillo D. and **Volkova N.,** 2014. **Preparation and physicochemical characteristics of macroporous hydrogel based on gelatin and oxidized dextran.** *Journal of Polymer Science Part A: Journal of Polymer Science Part A: Polymer Chemistry*, 49(14), 4855-4868.

K Berger, **P Falk,** C Karlsson, U Nilsson, U Axling, **C Grey,** H Stålbrand, **E Nordberg Karlsson,** M Nyman, C Holm, **P Adlercreutz.**
Cereal byproducts have prebiotic potential in mice fed a high-fat diet. *J. Agric. Food Chem.* 8169-8178 (2014)

T Börner, K Roger, **P Adlercreutz**
Hydrophobic complexation promotes enzymatic surfactant synthesis from alkyl glucoside/cyclodextrin mixtures. *ACS Catal.* 4, 2623-2634 (2014)

P Lundemo, **E Nordberg Karlsson,** **P Adlercreutz**
Preparation of two glycoside hydrolases for use in micro-aqueous media. *J. Mol. Catal. B:Enzymatic* 108, 1-6 (2014)

G Rehn, **P Adlercreutz,** **C Grey**
Supported liquid membrane as a novel tool for driving the equilibrium of ω -transaminase catalyzed asymmetric synthesis. *J. Biotechnol.* 179, 50-55 (2014)

P Falck, A Aronsson, **C Grey,** H Stålbrand, **E Nordberg Karlsson,** **P Adlercreutz**
Production of arabinoxylan-oligosaccharide mixtures of varying composition from rye bran by a combination of process conditions and type of xylanase. *Bioresource Technology*10.1016/j.biortech.2014.09.139

Roya R.R. Sardari, **Tarek Dishisha,** **Sang-Hyun Pyo** and **Rajni Hatti-Kaul.** **Semicarbazide-functionalized resin as a new scavenger for *in-situ* recovery of 3-hydroxypropionaldehyde during biotransformation of glycerol by *Lactobacillus reuteri*.** Accepted for publication in *Journal of Biotechnology*.

