

Biotechnology News

January 2017

New personnel/guests



Welcome **Sara Lind Jónsdóttir**,
New PhD student at the division of
Biotechnology within a Formas project.
Under supervision of Rajni
Co-supervisors: Patrick & Sang-Hyun



Sara Santesson, candidate
with Eva & Javier

Renske Bouma will soon start her master thesis under the supervision of Patrick. The topic will be production of emulsifiers from industrial side streams.

PUBLICATIONS

- Li C, Strömberg S, Liu G, Nges IA, Liu J. Assessment of regional biomass as co-substrate in the anaerobic digestion of chicken manure: Impact of co-digestion with chicken processing waste, seagrass and Miscanthus. *Biochemical Engineering Journal* 2017; 118C, 1-10
- Ying Zhou, Chao Li*, Ivo Achu Nges, Jing Liu
The effects of pre-aeration and inoculation on solid-state anaerobic digestion of rice straw. *Bioresource Technology*, 2017; 224, 85-93
- Chen L, Bromberger PD, Nieuwenhuijs G, Hatti-Kaul R (2016) Redox Balance in *Lactobacillus reuteri* DSM20016: Roles of Iron-Dependent Alcohol Dehydrogenases in Glucose/ Glycerol Metabolism. *PLoS ONE* 11(12): e0168107
- Börner, T., Rämisch, S., Reddem, E. R., Bartsch, S., Vogel, A., Thunnisen, A.-M. W. H., Adlercreutz, P. & Grey, C. 2016. Explaining Operational Instability of Amine Transaminases: Substrate-Induced Inactivation Mechanism and Influence of Quaternary Structure on Enzyme–Cofactor Intermediate Stability. *ACS Catalysis*, 1259-1269
- Sang-Hyun Pyo, Pengrui Wang, Wei Zhu, Henry Hwang, John Jamison Warner, Shaochen Chen, Continuous Optical 3D Printing of Green Aliphatic Polyurethanes, *ACS Appl. Mater. Interfaces* 9 (2017), 836–844

MISCELLANEOUS

- ✓ Rajni has been granted 3.6 million kronor for 3 years from Vetenskapsrådet for development research in the area of antimicrobial resistance.
- ✓ Eva and Patrick got one planning grant each within Vinnova's strategic innovation area "Bioinnovation".
- ✓ Patrick has received a grant from SSF together with the fats and oils company AAK to finance an industrial PhD student.
- ✓ A volume on **Anaerobes in Biotechnology** edited by Rajni Hatti-Kaul, Gashaw Mamo and Bo Mattiasson for the series Advances in Biochemical Engineering/Biotechnology is published by Springer.



Make sure to join as:

Mahmoud Sayed presents his mid-term seminar
"Sustainable value chain and pathways around polyols from renewable resources for a bio-based economy", **Monday the 6th of February at 13.00**

As well as **Chao Li** presents his mid-term seminar on **Tuesday the 28th of February at 10.15**
"Applications and development of batch fermentation test for feedstock and process optimization"

Both in lecture room G, floor 0 at Kemicentrum

Thank you all for a really nice Christmas party (December 7th).
Great company, good food and fun games! 😊



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