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## Expertise

Stefan Weiß is a post-doctoral researcher at the Austrian Centre of Industrial Biotechnology and currently located at the Department of Agrobiotechnology of the University of Natural Resources and Life Sciences (BOKU), Vienna. During his doctoral studies he received the *Sustainable Energy Innovation Award 2011* for the project innovation “*Microbial Advanced Biorefinery*” at the University of Technology, Graz (Austria), where he accomplished his thesis and viva voce examination on “Investigations on zeolites in anaerobic biogas production processes” in 2012. He studied biology at the University of Rostock (Germany), defending his diploma thesis on the “Influence of hemicellulolytical microorganisms on the production of biogas” under supervision of Prof. Georg M. Guebitz and Prof. Gabriele Berg in 2009. Post-graduate studies under supervision of Prof. Rudolf Braun at the BOKU, IFA Tulln, paved the way for his present activity area.

## Key publications related to the COST action

1. **S. Weiß**, M. Lebuhn, D. Andrade, A. Zankel, M. Cardinale, R. Birner-Gruenberger, W. Somitsch, B.J. Ueberbacher, G.M. Guebitz (2013) Activated zeolite - suitable carriers for microorganisms in anaerobic digestion processes? *Applied Microbiology & Biotechnology*, Vol. 97 (7), 3225-3238
2. **S. Weiß**, A. Zankel, M. Lebuhn, S. Petrak, W. Somitsch, G.M. Guebitz (2011) Investigation of microorganisms colonising activated zeolites during anaerobic biogas production from grass silage *Bioresource Technology*, Vol. 102 (6), 4353-4359
3. **S. Weiß**, M. Tauber, W. Somitsch, R. Meincke, H.Müller, G. Berg, G.M. Guebitz (2010) Enhancement of biogas production by addition of hemicellulolytic bacteria immobilised on activated zeolite *Water Research*, Vol. 44 (6), 1970-1980
4. R. Braun, B. Drosch, G. Bochmann, **S. Weiß**, R. Kirchmayr (2009) Recent Developments in Bio-Energy Recovery through Fermentation, In: H. Insam, I. Franke-Whittle, M. Goberna (Eds.), *Microbes at Work: From Wastes to Resources*, Springer, Berlin, Heidelberg; ISBN 978-3-642-04042-9, p. 329