



## Novel enzymes for biocatalytic applications: Selective epoxide ring-opening and lignin depolymerisation

Welcome Horst BISCHOF Univ.-Prof. Dipl.-Ing. Dr.techn.,  
Vice Rector Research

Talk Anett SCHALLMEY Prof. Dr.,  
Head and Professor for Biochemistry at the Institute for Biochemistry,  
Biotechnology and Bioinformatics, TU Braunschweig

Drink and Snacks

## Discussion on Gender Challenges and Opportunities for Careers in Academia

Moderation Robert KOURIST Univ.-Prof. Dr.rer.nat.,  
Head of the Institute of Molecular Biotechnology, TU Graz

Friday, March 2nd 2018, 10:00 am

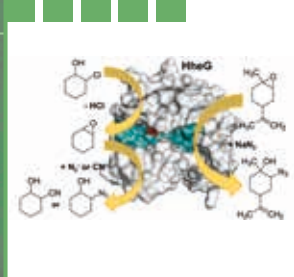
Graz University of Technology

Presentation: Lecture Room E 3.1, Petersgasse 12, ground floor

Discussion: Seminar Room BKEG053, Petersgasse 14, ground floor

Free admission

Registration at [teilnahme@TUGraz.at](mailto:teilnahme@TUGraz.at)



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Forum *Technik und Gesellschaft*  
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## About the event

Public sequence databases contain an ever growing collection of yet unexplored enzyme sequences that can be of great avail for biocatalysis. Using different database mining approaches, we have significantly increased the number of available halohydrin dehalogenases for the selective synthesis of  $\beta$ -substituted alcohols, and  $\beta$ -etherases for the selective cleavage of  $\beta$ -O-4 aryl ether bonds in lignin. An overview on the in silico identification and biochemical characterization of those enzymes will be presented as well as examples for their biocatalytic application and protein engineering.

## About the speaker

Anett Schallmeyer studied Biochemistry at the University of Greifswald in Germany. In 2007, she obtained her doctorate in Biotechnology with Prof. Uwe Bornscheuer at the University of Greifswald. After a 2-years postdoctoral training with Prof. Dick Janssen at the Groningen Biomolecular Sciences and Biotechnology Institute at the University of Groningen (Netherlands), she was appointed Junior Professor for Biocatalysis at the RWTH Aachen University (Germany) in 2009. In February 2014, she was appointed Associate Professor for Biocatalysis at the Van t'Hoff Institute for Molecular Sciences at the University of Amsterdam (Netherlands). Since October 2014, Anett Schallmeyer is Professor for Biochemistry at the Institute for Biochemistry, Biotechnology and Bioinformatics at the Technische Universität Braunschweig, Germany. Her research interests cover the identification, application and optimization of novel enzymes for the synthesis of fine chemicals and pharmaceuticals as well as the biocatalytic valorization of biomass.

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