

Das **Institut für Biochemie** lädt gemeinsam mit dem Ortsverband der
Gesellschaft Deutscher Chemiker zu einem

K o l l o q u i u m d e r G D C h

Großer Hörsaal des Instituts für Biochemie

Felix-Hausdorff-Str. 4, Greifswald

Donnerstag, 15. März 2018, 17 Uhr c.t.

Prof. Dr. Anett Schallmeyer

TU Braunschweig, Institut für Biochemie

spricht zum Thema:

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

Abstract:

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 β -substituted alcohols, and β -etherases for the selective cleavage of β -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.

Einladender

Prof. Dr. Uwe Bornscheuer

PD Dr. Heike Kahlert

Vorsitzende des Ortsverbandes der GDCh