

List of Publications

Research article and reviews

- (20) A. Riedel, M. Mehnert, C.E. Paul, A.H. Westphal, W.J.H. van Berkel, D. Tischler (2015) Functional characterization and stability improvement of a ‘thermophilic-like’ ene-reductase from *Rhodococcus opacus* 1CP. *Front. Microbiol.* 6:1073.
- (19) M. Oelschlägel, C. Rückert, J. Kalinowski, G. Schmidt, M. Schlömann, D. Tischler (2015) *Sphingopyxis fribergensis* sp. nov., a soil bacterium with the ability to degrade styrene and phenylacetic acid. *Int. J. Syst. Evol. Microbiol.* 65:3008-3015.
- (18) M. Oelschlägel, C. Heiland, M. Schlömann, D. Tischler (2015) Production of a recombinant membrane protein in an *Escherichia coli* strain for the whole cell biosynthesis of phenylacetic acids. *Biotechnol. Rep. (Amst.)* 7:38-43.
- (17) A. Riedel, T. Heine, A.H. Westphal, C. Conrad, P. Rathsack, W.J.H. van Berkel, D. Tischler (2015) Catalytic and hydrodynamic properties of styrene monooxygenases from *Rhodococcus opacus* 1CP are modulated by cofactor binding. *AMB Express* 5:30.
- (16) C.E. Paul, D. Tischler, A. Riedel, T. Heine, N. Itoh, F. Hollmann (2015) Nonenzymatic regeneration of styrene monooxygenase for catalysis. *ACS Catal.* 5:2961-2965.
- (15) M. Oelschlägel, S.R. Kaschabek, J. Zimmerling, M. Schlömann, D. Tischler (2015) Co-metabolic formation of substituted phenylacetic acids by styrene-degrading bacteria. *Biotechnol. Rep. (Amst.)* 6:20-26.
- (14) J.A.D. Gröning, D. Eulberg, D. Tischler, S.R. Kaschabek, M. Schlömann (2014) Gene Redundancy of two-component (chloro)phenol hydroxylases in *Rhodococcus opacus* 1CP. *FEMS Microbiol. Lett.* 361:68-75.
- (13) M. Oelschlägel, J. Zimmerling, M. Schlömann, D. Tischler (2014) Styrene oxide isomerase of *Sphingopyxis* species Kp5.2. *Microbiology (UK)* 160:2481-2491.
- (12) J.A.D. Gröning, S.R. Kaschabek, M. Schlömann, D. Tischler (2014) A mechanistic study on SMOB-ADP1 – an NADH:flavin oxidoreductase of the two-component styrene monooxygenase of *Acinetobacter baylyi* ADP1. *Arch. Microbiol.* 196:829-845.
- (11) M. Oelschlägel, A. Riedel, A. Zniszczoł, K. Szymańska, A.B. Jarzębski, M. Schlömann, D. Tischler (2014) Immobilization of an integral membrane protein for biotechnological phenylacetaldehyde production. *J. Biotechnol.* 174:7-13.

- (10) M.M.E. Huijbers, S. Montersino, A.H. Westphal, D. Tischler, W.J.H. van Berkel (2014) Flavin dependent monooxygenases. Arch. Biochem. Biophys. 544:2-17.
- (9) D. Tischler, P. Zwicker, R. Schwabe, J.A.D. Gröning, S.R. Kaschabek, M. Schlömann (2013) pShuffle, a plasmid for *in vitro* evolution. AJCMicrob. 1:14-21.
- (8) D. Tischler, M. Schlömann, W.J.H. van Berkel, G.T. Gassner (2013) FAD C(4a)-hydroxide stabilized in a naturally fused styrene monooxygenase. FEBS Lett. 587:3848-3852.
- (7) D. Tischler, S. Niescher, S.R. Kaschabek, M. Schlömann (2013) Trehalose-phosphate synthases OtsA1 and OtsA2 of *Rhodococcus opacus* 1CP. FEMS Microbiol. Lett. 342:113-122.
- (6) D. Tischler, J.A.D. Gröning, S.R. Kaschabek, M. Schlömann (2012) One-component styrene monooxygenases: an evolutionary view on a rare class of flavoproteins. Appl. Biochem. Biotechnol. 167:931-944.
- (5) M. Oelschlägel, J.A.D. Gröning, D. Tischler, S.R. Kaschabek, M. Schlömann (2012) Styrene oxide isomerase of *Rhodococcus opacus* 1CP, a highly stable and considerable active enzyme. Appl. Environ. Microbiol. 78:4330-4337.
- (4) S. Montersino, D. Tischler, G.T. Gassner, W.J.H. van Berkel (2011) Catalytic and structural features of flavoprotein hydroxylases and epoxidases. Adv. Synth. Catal. 353:2301-2319; and as ChemInform Abstract, ChemInform 43:2.
- (3) J.A.D. Gröning, D. Tischler, S.R. Kaschabek, M. Schlömann (2010) Optimization of a genome-walking method to suit GC-rich template DNA from biotechnological relevant Actinobacteria. J. Basic Microbiol. 50:499-502.
- (2) D. Tischler, R. Kermer, J.A.D. Gröning, S.R. Kaschabek, W.J.H. van Berkel, M. Schlömann (2010) StyA1 and StyA2B from *Rhodococcus opacus* 1CP: a multifunctional styrene monooxygenase system. J. Bacteriol. 192:5220-5227.
- (1) D. Tischler, D. Eulberg, S. Lakner, S.R. Kaschabek, W.J.H. van Berkel, M. Schlömann (2009) Identification of a novel self-sufficient styrene monooxygenase from *Rhodococcus opacus* 1CP. J. Bacteriol. 191:4996-5009.

Oral and poster presentation

- (69) J. Zimmerling, K. Szymańska, M. Schlömann, D. Tischler (2015) Immobilized phenylacetaldehyde dehydrogenase as proper biocatalyst for the biotechnological production of

phenylacetic acids. Oral Presentation. 5th International Scientific Conference Applied Natural Sciences, Jasná, Low Tatras, Slovak Republic.

(68) M. Mehnert, S. Vater, D. Tischler (2015) Screening of soil bacteria for metallophores. Oral Presentation. 5th International Scientific Conference Applied Natural Sciences, Jasná, Low Tatras, Slovak Republic.

(67) J. Qi, D. Tischler, M. Schlömann (2015) Biochemical characterization of a novel azoreductase from *Rhodococcus opacus* 1CP. Poster P10-015, 40th FEBS Meeting, Berlin.

(66) D. Tischler, M. Mehnert, T. Heine, R. Schwabe (2015) Bacterial solvent extraction. Invited Oral Presentation. 66. Berg- und Hüttenmännischer Tag (BHT), Freiberg.

(65) J. Zimmerling, D. Tischler, M. Schlömann, M. Oelschlägel (2015) Characterization of phenylacetaldehyde dehydrogenases of *E. coli* K-12 and *S. fribergensis* Kp5.2. Oral Presentation, Environmental Biotechnology Meeting, Gliwice.

(64) R. Schwabe, A. Ballmann, M. Schlömann, G. Levican, O. Wiche, K. Leppchen-Fröhlich, M. Meyer, D. Tischler (2015) Isolation and detection of siderophores from *Gordonia rubripertincta* CWB2. Oral Presentation, Environmental Biotechnology Meeting, Gliwice.

(63) J. Zimmerling, D. Tischler, M. Schlömann, M. Oelschlägel (2015) Enzymatic production of uncommercial aldehydes and their conversion by aldehyde dehydrogenases. Poster at ASM annual meeting, New Orleans.

(62) T. Heine, A. Ballmann, C. Rückert, J. Kalinowski, M. Schlömann, D. Tischler (2015) Genome and transcriptome of *Gordonia rubripertincta* CWB2. Poster at ASM annual meeting, New Orleans.

(61) D. Tischler, J. Qi, J.A.D. Gröning, T. Heine, A. Riedel, J. Zimmerling, C. Irmscher, S. Sablowski, M. Oelschlägel, S.R. Kaschabek, C. Rückert, J. Kalinowski, M. Schlömann (2015) The genome of *Rhodococcus opacus* 1CP - reconstruction of degradation pathways of aromatic compounds. Oral Presentation, EMV08, VAAM annual meeting, Marburg.

(60) M. Mehnert, A. Riedel, M. Schlömann, D. Tischler (2015) Salt bridges affect the temperature stability of the ene reductase OYERo2 from *Rhodococcus opacus* 1CP. Poster BTP09, VAAM annual meeting, Marburg.

(59) C.O. Esuola, T. Heine, O.O. Babalola, M. Schlömann, D. Tischler (2015) Identification and characterization of a novel diamine monooxygenase from *Gordonia* sp. CWB2. Poster EMP09, VAAM annual meeting, Marburg.

- (58) T. Heine, C. Conrad, G. Gassner, M. Schlömann, D. Tischler (2015) Back to nature - biosynthesis of indigoid dyes. Oral Presentation, BTV13, VAAM annual meeting, Marburg.
- (57) M. Oelschlägel, A. Riedel, A. Zniszczoł, K. Szymańska, A.B. Jarzębski, M. Schlömann, D. Tischler (2015) Immobilization of an integral membrane protein for biotechnological application. Poster BTP06, VAAM annual meeting, Marburg.
- (56) D. Tischler (2015) Oxidoreductases for biocatalysis - from screening to function. Oral Presentation, Invited Seminar, DECHEMA, Frankfurt/Main.
- (55) G. Retamal, N Valdés, J. Rivera, D. Tischler, M. Schlömann, G. Levicán (2014) Primer análisis de la secuencia genómica de la actinobacteria resistente a arsénico *Rhodococcus erythropolis* cepa S43. Poster CLP3-10, SOMICH congress, La Serena, Chile.
- (54) R. Schwabe, A. Ballmann, M. Schlömann, G. Levican, D. Tischler (2014) Siderophore from *Gordonia* sp. CWB2. Poster P16, 2nd Transnational GETGEOWEB Workshop, Freiberg.
- (53) J. Qi, D. Tischler, M. Schlömann (2014) Biochemical characterization of an azoreductase from *Rhodococcus opacus* 1CP. Poster P10, 2nd Transnational GETGEOWEB Workshop, Freiberg.
- (52) C.O. Esuola, T. Heine, O.O. Babalola, M. Schlömann, D. Tischer (2014) Cloning, overexpression and biochemical characterization of a novel N-hydroxylating monooxygenase (NHMO) from *Gordonia* sp. CWB2. Poster P7, 2nd Transnational GETGEOWEB Workshop, Freiberg.
- (51) M. Oelschlägel, S.R. Kaschabek, J. Zimmerling, M. Schlömann, D. Tischer (2014) Application of styrene-degrading bacteria for the co-metabolic production of substituted phenylacetic acids. Oral Presentation, 2nd Transnational GETGEOWEB Workshop, Freiberg.
- (50) C.E. Paul, D. Tischler, A. Riedel, T. Heine, N. Itoh, F. Hollmann (2014) Mimicking nature: Asymmetric epoxidation and sulfoxidation by an artificial cofactor. Oral Presentation, 2nd Transnational GETGEOWEB Workshop, Freiberg.
- (49) T. Heine, A. Riedel, A.H. Westphal, W.J.H. van Berkel, M. Schlömann, D. Tischer (2014) The N-terminus of SMO reductases influences the activity and specificity. Oral Presentation, 2nd Transnational GETGEOWEB Workshop, Freiberg.
- (48) A. Riedel, M. Mehnert, M. Schlömann, D. Tischer (2014) The ene reductases from *Rhodococcus opacus* 1CP. Oral Presentation, 2nd Transnational GETGEOWEB Workshop, Freiberg.
- (47) D. Tischler, A.H. Westphal, C. Rückert, J. Kalinowski, T. Heine, A. Riedel, J.A.D. Gröning, S.R. Kaschabek, W.J.H. van Berkel, M. Schlömann (2014) Screening a *Rhodococcus* genome for oxidative biocatalysts. Oral Presentation, 2nd Transnational GETGEOWEB Workshop, Freiberg.

- (46) J.A.D. Gröning, D. Tischler, S.R. Kaschabek, M. Schlömann (2014) SMOB, the NADH:FAD oxidoreductase of the two-component styrene monooxygenases system in *Acinetobacter baylyi* ADP1: biochemical and fluorimetric properties. Poster FTP23, VAAM annual meeting, Dresden; Poster P8, 2nd Transnational GETGEOWEB Workshop, Freiberg.
- (45) M. Mehnert, A. Riedel, D. Tischler, M. Schlömann (2014) A new “thermophilic-like” ene reductase from *Rhodococcus opacus* 1CP. Poster BTP29, VAAM annual meeting, Dresden; Poster P13, 2nd Transnational GETGEOWEB Workshop, Freiberg.
- (44) T. Heine, A. Riedel, R. Schwabe, L. Siegel, K. Friebe, J.A.D. Gröning, S.R. Kaschabek, M. Schlömann, D. Tischler (2014) Evolution of the styrene monooxygenase StyA1/StyA2B from *Variovorax paradoxus* EPS and its biotechnological applications. Oral Presentation, ProcessNet/DECHEMA – Annual Biotechnology meeting, Aachen.
- (43) D. Tischler, E. Morrison, C. Roth, S.R. Kaschabek, N. Sträter, M. Schlömann, W.J.H. van Berkel, G.T. Gassner (2014) Mechanistic and structural insights from a unique flavoprotein monooxygenase: StyA1 and StyA2B from *Rhodococcus opacus* 1CP. Oral Presentation and Poster Presentation, 18th International Symposium on Flavins and Flavoproteins, Pechaburi.
- (42) T. Heine, A. Riedel, A.H. Westphal, W.J.H. van Berkel, M. Schlömann, D. Tischler (2014) Redesign of a styrene monooxygenase reductase StyB. Poster, 18th International Symposium on Flavins and Flavoproteins, Pechaburi.
- (41) C.E. Paul, D. Tischler, N. Itoh, F. Hollmann (2014) From styrene to enantiopure phenylethanol derivatives: a chemo-enzymatic cascade. Poster, Gordon Research Conference: Biocatalysis, Smithfield.
- (40) M.M.E. Huijbers, A.H. Westphal, D. Tischler, W.J.H. van Berkel (2014) Flavin dependent monooxygenases. Poster, OxiZymes, Vienna.
- (39) A. Riedel, T. Heine, A.H. Westphal, W.J.H. van Berkel, M. Schlömann, D. Tischler (2014) Characterization of styrene monooxygenase systems from *Rhodococcus opacus* 1CP. Poster, OxiZymes, Vienna.
- (38) T. Heine, A. Riedel, K. Tucker, M. Oelschlägel, R. Schwabe, J.A.D. Gröning, S.R. Kaschabek, G.T. Gassner, W.J.H. van Berkel, M. Schlömann, D. Tischler (2014) Classification of styrene monooxygenases. Oral Presentation, OxiZymes, Vienna.
- (37) C.O. Esuola, O.O. Babalola, M. Schlömann, D. Tischler (2014) Biocatalytic potentials of some Baeyer Villiger monooxygenases (BVMOs). Poster at MiCom - International Conference on Microbial Communication, Jena.

- (36) D. Tischler, A. Riedel, T. Heine, J.A.D. Gröning, S.R. Kaschabek, M. Schlömann, A.H. Westphal, W.J.H. van Berkel, G.T. Gassner (2014) Styrene Monooxygenases of *Rhodococcus opacus* 1CP: An Evolutionary View Consolidated by Biochemical Investigations. Poster at ASM annual meeting, Boston.
- (35) C.O. Esuola, T. Heine, O.O. Babalola, S.O.S. Akinyemi, M. Schlömann, D. Tischler (2014) Production of fine chemicals from microbial enzymes for horticultural crops development. Poster at 29th International Horticultural Congress, Brisbane.
- (34) T. Heine, K. Tucker, C. Conrad, M. Schlömann, G.T. Gassner, D. Tischler (2013) Artificially fused monooxygenases. Oral Presentation at Mini Symposium WBox2: Redox Biocatalysis, Wageningen.
- (33) A. Riedel, A.H. Westphal, M. Schlömann, W.J.H. van Berkel, D. Tischler (2013) Enoate reductases from *Rhodococcus opacus* 1CP. Oral Presentation at Mini Symposium WBox2: Redox Biocatalysis, Wageningen.
- (32) D. Tischler, Jingxian Qi, T. Heine, A. Riedel, M. Oelschlägel, M. Schlömann, W.J.H. van Berkel (2013) Functional annotation of biocatalysts. Oral Presentation at Mini Symposium WBox2: Redox Biocatalysis, Wageningen.
- (31) A. Riedel, M. Mehnert, T. Heine, S.R. Kaschabek, M. Schlömann, D. Tischler (2013) Development of industrial biocatalysts for enantioselective sulfoxidations and asymmetric reduction reactions. Poster at Wissenschaftsforum Chemie 2013, Chemie – Element unseres Lebens, Darmstadt.
- (30) D. Tischler, J.A.D. Gröning, S.R. Kaschabek, M. Schlömann (2013) SMOB of *Acinetobacter baylyi* ADP1: phylogenetic relatedness and substrate binding mechanism indicate this protein not to belong to classical two-component styrene monooxygenases. Poster at FEMS – 5th Congress of European Microbiologists, Leipzig.
- (29) C. Conrad, K. Kunze, A. Matura, M. Schlömann, K.-H. van Pée, D. Tischler (2013) DypA and DypB, two dye-decolorizing peroxidases of *Rhodococcus opacus* 1CP. Poster at FEMS – 5th Congress of European Microbiologists, Leipzig.
- (28) D. Tischler, J. Qi, C. Conrad, A. Riedel, T. Heine, M. Oelschlägel, J.A.D. Gröning, S.R. Kaschabek, K. Kunze, A. Matura, K.-H. van Pée, M. Schlömann (2013) The genome of *Rhodococcus opacus* 1CP: An arsenal of oxidoreductases for biocatalysis. Poster at International Ambassador Lounge, ASM annual meeting, Denver.
- (27) D. Tischler (2013) Functional annotation, a possibility to identify novel biocatalysts. Invited Oral Presentation, Deutsche Bundesstiftung Umwelt, Osnabrück.
- (26) M. Oelschlägel, J. Zimmerling, A. Riedel, M. Schlömann, S.R. Kaschabek, D. Tischler (2013) Identification of novel styrene oxide isomerases from soil bacteria for biotechnological aldehyde

production. Poster IBP004, VAAM annual meeting, Bremen; Poster P14, 2nd Transnational GETGEOWEB Workshop, Freiberg.

(25) D. Tischler, S. Niescher, S.R. Kaschabek, M. Schlömann (2013) Trehalose-phosphate synthases of *Rhodococcus*. Poster FTP002, VAAM annual meeting, Bremen.

(24) S. Montersino, A. Westphal, D. Tischler, W.J.H. van Berkel (2012) Functional annotation of flavoproteins from genomes. Oral Presentation, 1st Transnational Workshop on Genomics and Transcriptomics in Geobiotechnology and White Biotechnology, Freiberg.

(23) M. Oelschlägel, J. Zimmerling, A. Riedel, M. Schlömann, S.R. Kaschabek, D. Tischler (2012) Identification of styrene oxide isomerases for the biotechnological production of phenylacetaldehyde(s) . Poster, 1st Transnational Workshop on Genomics and Transcriptomics in Geobiotechnology and White Biotechnology, Freiberg.

(22) C. Roth, D. Tischler, M. Schlömann, N. Sträter (2012) Structural studies on a novel styrene monooxygenase system. Poster, 1st Transnational Workshop on Genomics and Transcriptomics in Geobiotechnology and White Biotechnology, Freiberg.

(21) D. Tischler, A. Riedel, T. Heine, J.A.D. Gröning, S.R. Kaschabek, M. Schlömann (2012) The flavoproteome of *Rhodococcus opacus* 1CP: a rich source of biocatalysts. Poster, Symposium on Actinobacteria within soils, Münster. Poster, 1st Transnational Workshop on Genomics and Transcriptomics in Geobiotechnology and White Biotechnology, Freiberg. Poster, 5th Saxon Biotechnology Symposium, Dresden.

(20) M. Oelschlägel, J.A.D. Gröning, S.R. Kaschabek, M. Schlömann, D. Tischler (2012) The genome of *Rhodococcus opacus* 1CP: redundancy and versatility. Oral Presentation, Symposium on Actinobacteria within soils, Münster.

(19) D. Tischler, P. Zwicker, R. Schwabe, J.A.D. Gröning, S.R. Kaschabek, M. Schlömann (2012) Construction of pShuffle: a plasmid for *in vitro* evolution of styrene monooxygenases. Poster 1467, ASM annual meeting, San Francisco.

(18) T. Heine, C. Conrad, J.A.D. Gröning, S.R. Kaschabek, D. Tischler, M. Schlömann (2012). Artificial fusion of a two-component styrene monooxygenase. Poster OTP005, VAAM annual meeting, Tübingen; Poster and Oral P.14 presentation at DECHEMA: Catalyzing Bio-Economy - Biocatalysts for Industrial Biotechnology, Frankfurt.

(17) M. Schlömann, D. Tischler, M. Oelschlägel, S.R. Kaschabek, J. Kipry, C. Wiacek (2011) Environmental microbiology: from purification of environmental compartments to generation of valuable products. Oral Presentation, New Horizons in Biotechnology, Trivandrum, India.

- (16) S. Montersino, D. Tischler, W.J.H. van Berkel (2011) New flavin-dependent oxidative biocatalysts. Abstract, Biotrans 2011, Giardini Naxos, Sicilia.
- (15) M. Oelschlägel, J.A.D. Gröning, D. Tischler, S.R. Kaschabek, M. Schlömann (2011) The styrene oxide isomerase from *Rhodococcus opacus* 1CP - an active and stable enzyme with high biotechnological potential. Oral Presentation, 1 st European Congress of Applied Biotechnology, Berlin.
- (14) D. Tischler, R. Kermer, J.A.D. Gröning, S.R. Kaschabek, W.J.H. van Berkel, M. Schlömann (2011) Enantioselective epoxidation and sulfoxidation with the flavoprotein monooxygenase StyA1-StyA2B from *Rhodococcus opacus* 1CP. Oral Presentation, 1 st European Congress of Applied Biotechnology, Berlin.
- (13) W.J.H. van Berkel, S. Montersino, D. Tischler, S.R. Kaschabek, M. Schlömann, G.T. Gassner (2011) Flavins on the move: flavoprotein hydroxylases and epoxidases. Oral Presentation, 17th International Symposium on Flavins and Flavoproteins, Berkeley.
- (12) D. Tischler, J.A.D. Gröning, S.R. Kaschabek, W.J.H. van Berkel, M. Schlömann, G.T. Gassner (2011) StyA1/StyA2B, a unique styrene monooxygenase: oxidative half-reactions of epoxidase components. Oral Presentation (invited), 17th International Symposium on Flavins and Flavoproteins, Berkeley.
- (11) E. Morrison, A. Kantz, P. Chandrasekaran, S. Liao, B. Singh, D. Tischler, M. Sazinsky, G.T. Gassner (2011) Mechanism of FAD reduction and transport in the two-component flavoenzyme, styrene monooxygenase from *Pseudomonas putida* S12. Poster, 17th International Symposium on Flavins and Flavoproteins, Berkeley.
- (10) D. Tischler, S.R. Kaschabek, G.T. Gassner (2011) Oxidative half-reactions of the styrene monooxygenase StyA1-StyA2B from *Rhodococcus opacus* 1CP. Poster, 17th International Symposium on Flavins and Flavoproteins, Berkeley.
- (9) D. Tischler, R. Kermer, J.A.D. Gröning, S.R. Kaschabek, M. Schlömann (2011) StyA1-StyA2B: a unique Monooxygenase from *Rhodococcus opacus* 1CP. Poster 329, ASM annual meeting, New Orleans.
- (8) M. Oelschlägel, J.A.D. Gröning, D. Tischler, S.R. Kaschabek, M. Schlömann (2011) A remarkable stable and active styrene oxide isomerase from *Rhodococcus opacus* 1CP with high biotechnological potential. Oral Presentation GWV002, VAAM annual meeting, Karlsruhe.
- (7) W.J.H. van Berkel, S. Montersino, D. Tischler, S.R. Kashabek, M. Schlömann (2010) Novel flavin-dependent monooxygenases. Abstract, COST FP0602 meeting: Biotechnical processing of lignocellulosic raw materials, Çeşme.

- (6) D. Tischler, R. Kermer, J.A.D. Gröning, S.R. Kaschabek, W.J.H. van Berkel, M. Schlömann (2010) StyA1/StyA2B: A novel FAD-dependent styrene monooxygenase system from *Rhodococcus opacus* 1CP. Oral Presentation, OxiZymes & 9 th International Symposium on Peroxidases, Leipzig.
- (5) J.A.D. Gröning, D. Tischler, S.R. Kaschabek, M. Schlömann (2010) Extending DANN sequence information of two styA1/styA2B gene clusters by adapting SiteFinding-PCR to strains of *Rhodococcus opacus*. Poster FTP42, VAAM annual meeting, Hannover.
- (4) D. Tischler, R. Kermer, J.A.D. Gröning, S.R. Kaschabek, W.J.H. van Berkel, M. (2010) StyA1 from *Rhodococcus opacus* 1CP: A single oxygenase component which retrieves reducing equivalents from a self-sufficient monooxygenase StyA2B. Poster BTP15, VAAM annual meeting, Hannover.
- (3) D. Tischler, R. Kermer, J.A.D. Gröning, S.R. Kaschabek, W.J.H. van Berkel, M. Schlömann (2010) StyA1-StyA2B: A novel and highly efficient FAD-dependent monooxygenase from *Rhodococcus opacus* 1CP. Poster BTP03, VAAM annual meeting, Hannover.
- (2) D. Tischler, D. Eulberg, S. Lakner, W.J.H. van Berkel, S.R. Kaschabek, M. Schlömann (2009) StyA2B from *Rhodococcus opacus* 1CP, the first active representative of self-sufficient styrene monooxygenases. Poster PX41, VAAM annual meeting, Bochum.
- (1) D. Tischler (2008) Identification of novel one-component styrene monooxygenases via sequence-based metagenome-screening and analysis of their suitability for the highly efficient production of optically pure styrene oxide. Oral Presentation, Workshop on environmental evaluation and eco-efficiency sponsored by Deutsche Bundesstiftung Umwelt, Düsseldorf.

Book chapters, proceedings, and theses

- (15) M. Schlömann, S. Schopf, D. Tischler, M. Mühling (2015) Biohydrometallurgy - a research area being new for Freiberg with the relevance for metal winning and purification of mine waters (Biohydrometallurgie – ein für Freiberg neues Arbeitsgebiet mit Bedeutung für Metallgewinnung und für die Reinigung von Bergbauwässern). In ..., Ed. by U. Gross, Freiberg.
- (14) D. Tischler (2015) Microbial styrene degradation. SpringerBriefs in Microbiology. DOI: 10.1007/978-3-319-24862-2. Supported by M. Oelschlägel, A. Riedel, T. Heine, J. Zimmerling.
- (13) D. Tischler, M. Oelschlägel, J. Zimmerling, M. Schlömann (2015) Neue Wege in der Weißen Biotechnologie. ACAMONTA - Zeitschrift für Freunde und Förderer der Technischen Universität Bergakademie Freiberg. 22. Jahrgang. Invited Report.

- (12) D. Tischler, A. Riedel, R. Schwabe, L. Siegel, K. Friebe, T. Heine, A.D. Göring, S.R. Kaschabek, M. Schlömann (2014) Evolution der Styrol-Monooxygenase StyA1/StyA2B aus *Variovorax paradoxus* EPS und seine biotechnologische Anwendung. Special Issue: ProcessNet-Jahrestagung 2014 und 31. DECHEMA-Jahrestagung der Biotechnologen, Vol. 86: 9, 1406–1407
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