



M. Müller

The author presented on this page has published his **10th article** since 2000 in *Angewandte Chemie*:

"Diversity-Oriented Production of Metabolites Derived from Chorismate and Their Use in Organic Synthesis": J. Bongaerts, S. Esser, V. Lorbach, L. Al-Momani, M. A. Müller, D. Franke, C. Grondal, A. Kurutsch, R. Bujnicki, R. Takors, L. Raeven, M. Wubbolts, R. Bovenberg, M. Nieger, M. Schürmann, N. Trachtman, S. Kozak, G. A. Sprenger, M. Müller, *Angew. Chem.* **2011**, 123, 7927–7932; *Angew. Chem. Int. Ed.* **2011**, 50, 7781–7786.

Michael Müller

Date of birth:	February 6, 1966
Position:	Professor of Pharmaceutical and Medicinal Chemistry, University of Freiburg (Germany)
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Education:	1991 Diplom in Chemistry, University of Bonn (Germany) 1995 PhD with Prof. Wolfgang Steglich, Organic Chemistry, LMU Munich (Germany) 1996–1997 Postdoctoral fellow with Prof. Heinz G. Floss, University of Washington (USA) 2002 Habilitation, Organic Chemistry and Bioorganic Chemistry, University of Bonn
Awards:	2001 Synthesis/Synlett Journal Award; 2002 ORCHEM Award for Younger Scientists; 2007 Medal of the "Wissenschaftlichen Gesellschaft Freiburg"; 2011 Instructional Development Award of the University of Freiburg (together with Prof. Thorsten Friedrich and Prof. Thomas Kenkmann)
Current research interests:	Our research focuses on the elucidation and development of biomimetic concepts for application in the synthesis of natural products and bioactive compounds. Central themes are biosynthetic studies, asymmetric enzyme catalysis, diversity-oriented synthesis of bioactive compounds, cofactor-dependent enzymes (thiamine diphosphate and NADP), and regio- and stereoselective oxidative phenol coupling.
Hobbies:	Sports with friends

My favorite place on earth is ... where my family is.

My best investment was ... a Colnago racing bike.

The most significant scientific advance of the last 100 years has been ... the dishwasher.

The most amusing chemistry adventure in my career was ... the synthesis of the starting compound after a five-step synthesis sequence.

My favorite author (fiction) is ... Goethe.

My favorite song/piece of music is ... "Blowin' in the wind" by Bob Dylan.

The best advice I have ever been given is ... to attend secondary school.

The worst advice I have ever been given was ... to leave secondary school.

The best stage in a scientist's career is ... now.

The most important thing I learned from my parents is ... humility.

Guaranteed to make me laugh is ... our little daughter.

My 5 top papers:

1. "Highly Regio- and Enantioselective Reduction of 3,5-Dioxocarboxylates": M. Wolberg, W. Hummel, C. Wandrey, M. Müller, *Angew. Chem.* **2000**, 112, 4476–4478; *Angew. Chem. Int. Ed.* **2000**, 39, 4306–4308. (Starting point towards the development of polyketide synthesis without using PKS.)
2. "Development of a Donor–Acceptor Concept for Catalytic Asymmetric Cross-Coupling Reactions of Aldehydes: The First Asymmetric Cross-Benzoin Condensation": P. Dünkemann, D. Kolter-Jung, A. Nitsche, A. S. Demir, P. Siegert, B. Lingen, M. Baumann, M. Pohl, M. Müller, *J. Am. Chem. Soc.* **2002**, 124, 12084–12085. (Establishment of the catalytic asymmetric cross-benzoin condensation 120 years after Emil Fischer's first report on this reaction.)
3. "Unselective Phenolic Coupling of Methyl 2-Hydroxy-4-methoxy-6-methylbenzoate—A Valuable Tool for the Total Synthesis of Natural Product Families": D. Drochner, W. Hüttel, M. Nieger, M. Müller, *Angew. Chem.* **2003**, 115, 961–963; *Angew. Chem. Int. Ed.* **2003**, 42, 931–933. (Biomimetic diversity-oriented organic synthesis of a range of different natural products.)
4. "The Enzymatic Asymmetric Conjugate Umpolung Reaction": C. Dresen, M. Richter, M. Pohl, S. Lüdeke, M. Müller, *Angew. Chem.* **2010**, 122, 6750–6753; *Angew. Chem. Int. Ed.* **2010**, 49, 6600–6603. (Development of an enzymatic asymmetric Stetter reaction.)
5. "Diversity-Oriented Production of Metabolites Derived from Chorismate and Their Use in Organic Synthesis": J. Bongaerts et al., *Angew. Chem.* **2011**, 123, 7927–7932; *Angew. Chem. Int. Ed.* **2011**, 50, 7781–7786. (Biogenic use of a metabolic branching point in the biosynthesis of different metabolites for the microbial production of several natural and "non-natural" products.)

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