



J. S. Dickschat

Jeroen S. Dickschat

Date of birth:	June 3, 1977
Position:	Professor of Organic Chemistry, University of Bonn
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Education:	2002 Diploma in chemistry, University of Braunschweig 2002–2005 PhD with Prof. Stefan Schulz, University of Braunschweig 2005–2008 Postdoctoral stays in with Prof. Rolf Müller (Universität des Saarlandes) and with Prof. Peter Leadlay (University of Cambridge)
Awards:	2008 Emmy Noether Fellowship, Deutsche Forschungsgemeinschaft; 2014 DECHEMA Early-Career Researcher Prize
Current research interests:	Natural product chemistry: biosynthesis of terpenes, microbial volatiles, enzyme mechanisms, structure elucidation
Hobbies:	Cooking, hiking, traveling

The author presented on this page has published more than **10 articles** in *Angewandte Chemie* in the last 10 years, including: "Identification of Intermediates in the Biosynthesis of PR Toxin by *Penicillium roqueforti*": R. Riclea, J. S. Dickschat, *Angew. Chem. Int. Ed.* **2015**, 54, 12167; *Angew. Chem.* **2015**, 127, 12335.

If I were not a scientist, I would be bored.

My motto is "Keep it short!"

My most exciting discovery to date has been the enzymatic synthesis of completely ^{13}C -labeled terpenes.

My favorite author (fiction) is Max Frisch (*Homo Faber*).

I like refereeing because I have to study in detail the work of excellent colleagues.

The most significant scientific advance of the last 100 years has been the development of quantum mechanics by Heisenberg and others.

The biggest problem that scientists face is the development of a grand unified theory.

My favorite piece of research is the "Specification of Molecular Chirality" by Cahn, Ingold, and Prelog. Highly logical.

If I could have dinner with three famous scientists from history, they would be Max Planck, Albert Einstein, and Werner Heisenberg.

If I could go back in time and do any experiment, I would visit the first successful trial of time travel.

I would have liked to have discovered the polymerase chain reaction.

My 5 top papers:

1. "Conformational Analysis, Thermal Rearrangement, and EI-MS-Fragmentation Mechanism of (1-(10)*E,4E,6S,7R*)-Germacradien-6-ol by ^{13}C -Labeling Experiments": P. Rabe, L. Barra, J. Rinkel, R. Riclea, C. A. Citron, T. A. Klapschinski, A. Janusko, J. S. Dickschat, *Angew. Chem. Int. Ed.* **2015**, 54, 13448; *Angew. Chem.* **2015**, 127, 13649. (The enzymatic synthesis of completely ^{13}C -labeled sesquiterpenes for simple structural elucidation by ^{13}C , ^{13}C COSY NMR experiments.)
2. "Structures and Biosynthesis of Corvol Ethers—Sesquiterpenes from the Actinomycete *Kitasatospora setae*": P. Rabe, K. A. K. Pahirulzaman, J. S. Dickschat, *Angew. Chem. Int. Ed.* **2015**, 54, 6041; *Angew. Chem.* **2015**, 127, 6139. (Labeling techniques for enzyme-mechanistic studies on terpene cyclases.)
3. "Induced-Fit Mechanism in Class I Terpene Cyclases": P. Baer, P. Rabe, K. Fischer, C. A. Citron, T. A. Klapschinski, M. Groll, J. S. Dickschat, *Angew. Chem. Int. Ed.* **2014**, 53, 7652; *Angew. Chem.* **2014**, 126, 7783. (Compares a bacterial terpene cyclase in open and closed conformations.)
4. "The Stereochemical Course and Mechanism of the IspH Reaction": C. A. Citron, N. L. Brock, P. Rabe, J. S. Dickschat, *Angew. Chem. Int. Ed.* **2012**, 51, 4053; *Angew. Chem.* **2012**, 124, 4129. (Two long-disputed mechanisms of the enzyme IspH could be distinguished.)
5. "Terpenoids are Widespread in Actinomycetes: A Correlation of Secondary Metabolism and Genome Data": C. A. Citron, J. Gleitzmann, G. Laurenzano, R. Pukall, J. S. Dickschat, *ChemBioChem* **2012**, 13, 202. (Summarizes the identification of terpenes from 35 species.)

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