



H.-D. Arndt

Hans-Dieter Arndt

Date of birth:	April 6, 1971
Position:	Full professor of Organic Chemistry, Friedrich-Schiller-Universität, Jena (Germany)
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Education:	1997 Diploma studies in Chemistry, University of Marburg (Germany) 2002 Doctorate with Ulrich Koert, Humboldt University at Berlin (Germany) 2004 Postdoctoral fellow with Peter B. Dervan, Caltech, Pasadena (USA)
Awards:	2004 Emmy-Noether Fellow (DFG); 2007 Thieme Journal Award; 2010 DECHEMA Natural Products Young Investigator Award; 2010 Orchem Prize (GDCh)
Current research interests:	Research interests center on bioactive molecular scaffolds—often inspired by natural products research and structures. Synthetic methodology, complex molecule synthesis, peptides. Chemical biology of anti-infectives and gene regulation.
Hobbies:	Hiking and mountaineering, cooking, politics (the latter rather percipient)

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

“NMR Structures of Thio-strepton Derivatives for Characterization of the Ribosomal Binding Site”: H. R. A. Jonker, S. Baumann, A. Wolf, S. Schoof, F. Hiller, K. W. Schulte, K. N. Kirschner, H. Schwalbe, H.-D. Arndt, *Angew. Chem.* **2011**, 123, 3366–3370; *Angew. Chem. Int. Ed.* **2011**, 50, 3308–3312.

Guaranteed to make me laugh is ... a ridiculous accumulation of buzzwords. Science really can be fun at times!

What I look for first in a publication is ... the figures.

My favorite piece of research is ... the discovery of the structure of DNA, which laid the foundation for molecular biology.

My favorite place on earth is ... probably somewhat secluded.

I chose chemistry as a career because ... of its unique dedication to the creation and understanding of novel matter.

If I were not a scientist, I would be ... an engineer or an airline pilot.

The best stage in a scientist's career is ... when curiosity, motivation, and ability are not absorbed by duty.

The best advice I have ever been given is ... “Make it happen!” (Peter Dervan).

I can never resist ... backtracking questions from a talented student.

If I could go back in time and do any experiment, it would be ... Eratosthenes' determination of the earth's circumference.

The downside of my job is ... obscene demands on personal time—of course always for the greater good.

My favorite song is ... “Mercedes Benz” (Janis Joplin).

My 5 top papers:

1. “Small Molecule Modulators of Transcription”: H.-D. Arndt, *Angew. Chem.* **2006**, 118, 4664–4673; *Angew. Chem. Int. Ed.* **2006**, 45, 4552–4560. (Short review, maybe a little ahead of time.)
2. “Peptide-Embedded Heterocycles by Mild Single and Multiple Aza-Wittig Ring Closures”: M. Riedrich, S. D. Harkal, H.-D. Arndt, *Angew. Chem.* **2007**, 119, 2755–2758; *Angew. Chem. Int. Ed.* **2007**, 46, 2701–2703. (Fundamental proof-of-concept study.)
3. “Regioselective De Novo Synthesis of Cyanohydroxypyridines with a Concerted Cycloaddition Mechanism”: J.-Y. Lu, J. Keith, W.-Z. Shen, M. Schürmann, H. Preut, T. Jacob, H.-D. Arndt, *J. Am. Chem. Soc.* **2008**, 130, 13219–13221. (Directed reaction optimization study inspired by theory.)
4. “Molecular Determinants of Microbial Resistance to Thiopeptide Antibiotics”: S. Baumann, S. Schoof, M. Bolten, C. Haering, M. Takagi, K. Shin-ya, H.-D. Arndt, *J. Am. Chem. Soc.* **2010**, 132, 6973–6981. (Comprehensive chemical-biology SAR investigation.)
5. “Antiplasmodial Thiostrepton Derivatives: Proteasome Inhibitors with a Dual Mode of Action”: S. Schoof, G. Pradel, M. N. Aminake, B. Ellinger, S. Baumann, M. Potowski, Y. Najajreh, M. Kirschner, H.-D. Arndt, *Angew. Chem.* **2010**, 122, 3389–3393; *Angew. Chem. Int. Ed.* **2010**, 49, 3317–3321. (Pioneering “off”-target identification study for a thiopeptide antibiotic, with unexpected but well-fitting outcome.)

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