



G. Schneider

The author presented on this page has recently published his **10th article** in *Angewandte Chemie* in the last 10 years:

“Deorphaning Pyrrolopyrazines as Potent Multi-Target Antimalarial Agents”: D. Reker, M. Seet, M. Pillong, C. P. Koch, P. Schneider, M. C. Witschel, M. Rottmann, C. Freymond, R. Brun, B. Schweizer, B. Illarionov, A. Bacher, M. Fischer, F. Diederich, G. Schneider, *Angew. Chem. Int. Ed.* **2014**, *53*, 7079–7084; *Angew. Chem.* **2014**, *126*, 7199–7204.

Gisbert Schneider

Date of birth:	October 10, 1965
Position:	Professor in the Department of Chemistry and Applied Biosciences, ETH Zurich
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Education:	1985–1991 Studies in biochemistry and computer science, Freie Universität Berlin 1991–1994 PhD supervised by Prof. Georg Büldt, Freie Universität Berlin 1994–1996 Postdoctoral studies in Stockholm, Cambridge (MA), Berlin, and Frankfurt 1996–2001 Industrial research, F. Hoffmann–La Roche, Basel 2000 Habilitation, University of Freiburg
Research:	Computer-assisted molecular design; drug discovery; adaptive processes
Hobbies:	Electric guitar, swimming

In a spare hour, I ... play the Stratocaster.

The natural talent I would like to be gifted with is ... being really good at playing the Stratocaster.

My favorite books are ... *Treasure Island* by Robert L. Stevenson, and *Gödel, Escher, Bach: An Eternal Golden Braid* by Douglas R. Hofstadter; both left a strong impression on me.

The most important thing I learned from my students is ... to be patient whilst listening.

My science “heroes” are ... Mikhail M. Bongard and Fridtjof Nansen.

My favorite time of day is ... the evening, when quiet sets in and I can let my thoughts roam free.

My favorite musician is ... Eric Clapton.

My favorite painter is ... Wassily Kandinsky.

When I was eighteen I wanted to be ... a rock star or a physician; luckily for everyone involved, I did not follow these roads for too long.

If I could be described as an animal it would be ... my dog, probably.

The secret of being a successful scientist is ... above all, hard work, and a generous dose of self-irony.

If I had one year of paid leave I would ... pick a beautiful spot near the ocean and immerse myself in studying exciting topics at the interface between science and art.

The biggest challenge facing scientists currently is ... to remain resistant to trends.

My 5 top papers:

1. “Peptide design by artificial neural networks and computer-based evolutionary search”: G. Schneider, W. Schrödl, G. Wallukat, E. Nissen, G. Röspeck, J. Müller, P. Wrede, R. Kunze, *Proc. Natl. Acad. Sci. USA* **1998**, *95*, 12179–12184. (Machine learning for adaptive molecular design.)
2. “‘Scaffold-Hopping’ by Topological Pharmacophore Search: A Contribution to Virtual Screening”: G. Schneider, W. Neidhart, T. Giller, G. Schmid, *Angew. Chem. Int. Ed.* **1999**, *38*, 2894–2896; *Angew. Chem.* **1999**, *111*, 3068–3070. (Introduction of the term “Scaffold-Hopping”.)
3. “Virtual Screening for Bioactive Molecules by Evolutionary De Novo Design”: G. Schneider, O. Chomienne-Clement, L. Hilfiger, S. Kirsch, H.-J. Böhm, P. Schneider, W. Neidhart, *Angew. Chem. Int. Ed.* **2000**, *39*, 4130–4133; *Angew. Chem.* **2000**, *112*, 4305–4309. (Pioneering study on automatic, reaction-driven de novo drug design.)
4. “Processing and classification of chemical data inspired by insect olfaction”: M. Schmücker, G. Schneider, *Proc. Natl. Acad. Sci. USA* **2007**, *104*, 20285–20289. (A new concept for the mathematical representation of molecular structures.)
5. “Multi-Objective Molecular De Novo Design by Adaptive Fragment Prioritization”: M. Reutlinger, T. Rodrigues, P. Schneider, G. Schneider, *Angew. Chem. Int. Ed.* **2014**, *53*, 4244–4248; *Angew. Chem.* **2014**, *126*, 4330–4334. (An efficient nature-inspired concept of molecular design.)

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