



S. A. Sieber

Stephan A. Sieber

Date of birth:	March 19, 1976
Position:	Professor of Chemistry, Technische Universität München
E-mail:	stephan.sieber@tum.de
Homepage:	http://www.oc2.ch.tum.de
Education:	2001 Diploma, University of Marburg 2004 PhD with Prof. Mohamed A. Marahiel, University of Marburg 2004 Postdoctoral position with Prof. Benjamin F. Cravatt at The Scripps Research Institute, La Jolla
Awards:	2004 Friedrich Weygand Award; 2008 Innovation Prize of the BioRegions in Germany; 2009 Arnold Sommerfeld Award; 2011 ERC starting grant
Research:	Bacterial pathogenesis, proteomics, natural product targets
Hobbies:	Biking, hiking, kayaking, skiing, opera

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

"The Mechanism of Caseinolytic Protease (ClpP) Inhibition": M. Gersch, F. Gut, V. Korotkov, J. Lehman, T. Böttcher, M. Rusch, C. Hedberg, H. Waldmann, G. Klebe, S. A. Sieber, *Angew. Chem.* **2013**, 125, 3083–3088; *Angew. Chem. Int. Ed.* **2013**, 52, 3009–3014.

I lose track of time when ... I climb a mountain.

My biggest motivation is ... to reach the summit.

The most exciting thing about my research is ... working with motivated and talented students.

Guaranteed to make me laugh is ... watching The Simpsons.

My worst nightmare is ... to come home and find my wife watching Germany's Next Top Model.

The best advice I have ever been given is ... be patient.

I can never resist ... cashew nuts.

My top three films of all time are ... Gran Torino, Mulholland Drive, and Pulp Fiction.

My favorite food is ... Caesar Salad.

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

My favorite place on earth is ... the island of Rügen in the Baltic sea.

If I were not a scientist, I would be ... a basketball player.

I chose chemistry as a career because ... I was not good enough to play basketball.

My best investment was ... a mass spectrometer.

My 5 top papers:

1. "β-Lactones as Privileged Structures for the Active-Site Labeling of Versatile Bacterial Enzyme Classes": T. Böttcher, S. A. Sieber, *Angew. Chem.* **2008**, 120, 4677–4680; *Angew. Chem. Int. Ed.* **2008**, 47, 4600–4603. (My first independent research paper that shows the versatility of β-lactones.)
2. "β-Lactones as Specific Inhibitors of ClpP Attenuate the Production of Extracellular Virulence Factors of *Staphylococcus aureus*": T. Böttcher, S. A. Sieber, *J. Am. Chem. Soc.* **2008**, 130, 14400–14401. (Shows how β-lactones can be used to inhibit bacterial virulence.)
3. "A Conformational Switch Underlies ClpP Protease Function": S. R. Geiger, T. Böttcher, S. A. Sieber, P. Cramer, *Angew. Chem.* **2011**, 123, 5867–5871; *Angew. Chem. Int. Ed.* **2011**, 50, 5749–5752. (Gives structural and conformational insights into a crucial virulence regulator.)
4. "Duocarmycin Analogues Target Aldehyde Dehydrogenase 1 in Lung Cancer Cells": T. Wirth, K. Schmuck, L. F. Tietze, S. A. Sieber, *Angew. Chem.* **2012**, 124, 2928–2931; *Angew. Chem. Int. Ed.* **2012**, 51, 2874–2877. (Shows that natural products sometimes have unexpected targets.)
5. "The Mechanism of Caseinolytic Protease (ClpP) Inhibition": M. Gersch, F. Gut, V. Korotkov, J. Lehman, T. Böttcher, M. Rusch, C. Hedberg, H. Waldmann, G. Klebe, S. A. Sieber, *Angew. Chem.* **2013**, 125, 3083–3088; *Angew. Chem. Int. Ed.* **2013**, 52, 3009–3014. (Emphasizes the power of collaborative research to address complex questions.)

DOI: 10.1002/anie.201303078