T. Ward

Thomas R. Ward

Date of birth:	January 8, 1964
Position:	Professor of Bioinorganic Chemistry, University of Basel
E-mail:	thomas.ward@unibas.ch
Homepage:	http://www.chemie.unibas.ch/~ward/
Education:	1983–1987 Diploma in chemistry, University of Fribourg 1991 PhD with Profs. L.-M. Venanzi and D. Seebach, ETH Zurich 1991–1992 Postdoc with Prof. R. Hoffmann, Cornell University 1992 Postdoc with Prof. C. Floriani, University of Lausanne
Awards:	**2000** Swiss National Science Foundation Professorship; **2005** Medal of the Czech Academy of Sciences
Current research interests:	Artificial metalloenzymes, in vivo catalysis, artificial photosynthesis, synthetic biology, redox-active ligands
Hobbies:	Rowing, singing, personal development

*The author presented on this page has recently published his **10th article** in Angewandte Chemie in the last 10 years:*
"Redox-Active Ligands in Catalysis": V. K. K. Praneeth, M. R. Ringenberg, T. R. Ward, *Angew. Chem.* **2012**, *124*, 10374–10380; *Angew. Chem. Int. Ed.* **2012**, *51*, 10228–10234.

I can never resist … fresh sushi with a cup of green tea.

My greatest achievement has been … our three wonderful kids.

The best advice I have ever been given is … "the future is in bioinorganic chemistry" (Prof. A. Merbach).

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

The downside of my job is … the thousand urgent administrative issues that distract me from my passion for research.

My top three films of all time are … Himmel über Berlin, Good Will Hunting, A Beautiful Mind.

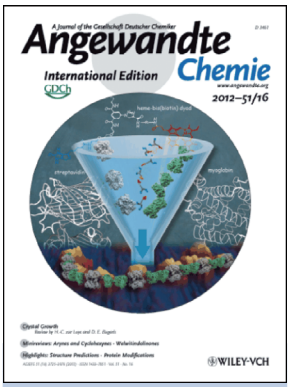
My favorite music album is … "The Concert in Central Park" by Simon & Garfunkel.

The most important thing I learned from my parents is … "It is risky to put anything or anyone else in charge of your happiness".

My favorite place on earth is … our terrace, facing Lake Neuchâtel and the Bernese Oberland.

I chose chemistry as a career because … I was looking for something different from what my five sisters and brother had selected … I ended up doing what my father did!

My best investment was … my Montblanc fountain pen bought in 1983.



The work of T. Ward has been featured on the cover of Angewandte Chemie:
"Chemically Programmed Supramolecular Assembly of Hemoprotein and Streptavidin with Alternating Alignment": K. Oohora, S. Burazerovic, A. Onoda, Y. M. Wilson, T. R. Ward, T. Hayashi, *Angew. Chem.* **2012**, *124*, 3884–3887; *Angew. Chem. Int. Ed.* **2012**, *51*, 3818–3821.

My 5 top papers:

1. "Edge-Bridged Tetrahedral Geometry of Five Coordinate d^0 Complexes, Relatives of the Bent $[MCp_2L_3]$ Family: A Theoretical and Structure-Correlation Study": T. R. Ward, H.-B. Bürgi, F. Gilardoni, J. Weber, *J. Am. Chem. Soc.* **1997**, *119*, 11974–11985. (My Roald Hoffmann heritage.)
2. "An Iron-Based Molecular Redox Switch as a Model for Iron Release from Enterobactin via the Salicylate Binding Mode": T. R. Ward, A. Lutz, S. P. Parel, J. Ensling, P. Gütlich, P. Buglyó, C. Orvig, *Inorg. Chem.* **1999**, *38*, 5007–5017. (My entry voucher to the bioinorganic community.)
3. "Tailoring the Active Site of Chemzymes by Using a Chemogenetic Optimization Procedure: Towards Substrate-Specific Artificial Hydrogenases Based on the Biotin–Avidin Technology": G. Klein, N. Humbert, J. Gradinaru, A. Ivanova, F. Gilardoni, U. E. Rusbandi, T. R. Ward, *Angew. Chem.* **2005**, *117*, 7942–7945; *Angew. Chem. Int. Ed.* **2005**, *44*, 7764–7767. (The definitive proof of the chemogenetic optimization potential of artificial metalloenzymes.)
4. "Synthetic cascades are enabled by combining biocatalysts with artificial metalloenzymes": V. Köhler, Y. M. Wilson, M. Dürrenberger, D. Ghislieri, E. Churakova, T. Quinto, L. Knörr, D. Häussinger, F. Hollmann, N. J. Turner, T. R. Ward, *Nature Chem.* **2013**, *5*, 93–99. (The potential of artificial metalloenzymes in synthetic biology.)
5. "Biotinylated Rh(III) Complexes in Engineered Streptavidin for Accelerated Asymmetric C–H Activation": T. K. Hyster, L. Knörr, T. R. Ward, T. Rovis, *Science* **2012**, *338*, 500–503. (True enzyme behavior for an abiotic transformation.)

DOI: 10.1002/anie.201208430