H.-A. Wagenknecht

*The author presented on this page has recently published his **10th article** since 2000 in Angewandte Chemie:* "Helical Arrangement of Porphyrins along DNA: Towards Photoactive DNA-Based Nanoarchitectures": H.-A. Wagenknecht *Angew. Chem.* **2009**, *121*, 2878–2881; *Angew. Chem. Int. Ed.* **2009**, *48*, 2838–2841.

Hans-Achim Wagenknecht

Date of birth:	September 7th, 1968
Nationality:	German
Position:	Professor for Organic Chemistry, University of Regensburg (Germany)
Education:	1989–1995 Chemistry, University of Freiburg i. Br. (Germany) 1995–1998 PhD with W.-D. Woggon, University of Basel (Switzerland) 1998–2000 Postdoc with of J. K. Barton, California Institute of Technology, Pasadena (USA) 2000–2003 Habilitation with H. Kessler, Technical University of Munich (Germany)
Professional associations:	2003–2005 Privatdozent, Technical University of Munich 2005–Present Professor, University of Regensburg
Awards:	**2001** Thieme Synthesis-Synlett Journal Award, **2003** Research Award of the Dr. Otto-Röhm-Gedächtnisstiftung, **2004** ORCHEM Award of the Liebig-Vereinigung (German Chemical Society), **2005** Bioorganic Chemistry Award of the Hellmut-Bredereck-Foundation, **2006** Grammaticakis-Neumann Award of the Swiss Chemical Society
Current research interests:	1) Bioorganic chemistry: synthetic nucleic acid and peptide chemistry. 2) Functional nucleic acid architectures: fluorescence, electron transfer, energy transfer, multichromophores, photo-DNAzymes, DNA-carbon nanotube conjugates, DNA-nanoparticle conjugates, RNA labels, chemical biology, photocatalysis
Hobbies:	Photography, biking, and hiking

A good work day begins with … a new and exciting experimental result.

The biggest challenge facing chemists is … to understand the results and to convince other chemists that the unexpected chemical product was in fact desired.

My favorite subject at school was … music.

When I wake up I … prepare two bottles of milk for my little boys, make breakfast for the whole family, and try to read the daily newspaper.

In my spare time I … enjoy the time with my wife and my children; typically I realize how unimportant the newest scientific results are in comparison.

My favorite food is … a dinner either cooked by myself or served in a nice restaurant in the black forest area, together with wine from the Kaiserstuhl region (Baden-Württemberg, Germany).

My hobbies are … photography–creating pictures as personal memories.

The part of my job which I enjoy the most is … the creativity that enables chemists to design molecules for a huge variety of different purposes.

My biggest motivation … originates from the very few chemical experiments that actually yield the expected result or product.

The most significant advance in chemistry in the past century was … the discovery of the structure of the DNA double helix.

My 5 top papers:

1. "Perylene Bisimide Dimers as Fluorescent 'Glue' for DNA and for Base-Mismatch Detection": D. Baumstark, H.-A. Wagenknecht, *Angew. Chem.* **2008**, *120*, 2652–2654; *Angew. Chem. Int. Ed.* **2008**, *47*, 2652–2654.
2. "Base Pair Motions Control the Rates and Efficiencies of Reductive and Oxidative DNA Charge Transfer": L. Valis, Q. Wang, M. Raytchev, I. Buchvarov, H.-A. Wagenknecht, T. Fiebig, *Proc. Natl. Acad. Sci.* **2006**, *103*, 10192–10195.
3. "Electron Transfer Processes in DNA: Mechanisms, Biological Relevance and Applications in DNA Analytics": H.-A. Wagenknecht, *Nat. Prod. Rep.* **2006**, *23*, 973–1006.
4. "Real-Time Spectroscopic and Chemical Probing of Reductive Electron Transfer in DNA": P. Kaden, E. Mayer-Enthart, A. Trifonov, T. Fiebig, H.-A. Wagenknecht, *Angew. Chem.* **2005**, *117*, 1662–1666; *Angew. Chem. Int. Ed.* **2005**, *44*, 1636–1639.
5. "Phenanthridinium as an Artificial DNA Base and Charge Donor in DNA": N. Amann, R. Huber, H.-A. Wagenknecht, Angew. Chem. **2004**, *116*, 1881–1883; *Angew. Chem. Int. Ed.* **2004**, *43*, 1845–1847.

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