



C. M. Niemeyer

The author presented on this page has recently published his **25th article** since 2000 in *Angewandte Chemie*: “Dendritic DNA Building Blocks for Amplified Detection Assays and Biomaterials”: U. Feldkamp, B. Saccà, C. M. Niemeyer, *Angew. Chem.* **2009**, 121, 6110–6114; *Angew. Chem. Int. Ed.* **2009**, 48, 5996–6000.



C. M. Niemeyer has featured on the cover of *Angewandte Chemie*:

“Nanohybrids Composed of Quantum Dots and Cytochrome P450 as Photocatalysts”: B. I. Ipe, C. M. Niemeyer, *Angew. Chem.* **2006**, 118, 519–522; *Angew. Chem. Int. Ed.* **2006**, 45, 504–507.

Christof M. Niemeyer

Date of birth:	November 2nd, 1962
Position:	Full Professor of Biological and Chemical Microstructuring, TU Dortmund (Germany)
Education:	1984–1989 Chemistry, Philipps University, Marburg (Germany) 1990–1992 PhD with Prof. M. T. Reetz, Max-Planck Institut für Kohlenforschung, Mülheim (Germany) 1992 Postdoc with Prof. R. W. Read, University of New South Wales, Sydney (Australia) 1993–1994 Postdoc with Prof. C. R. Cantor, Center for Advanced Biotechnology, Boston University, Boston (USA) 1994–2000 Habilitation in organic chemistry, University of Bremen (Germany) 2002–Present Technische Universität Dortmund
Professional associations:	2000 Cofounder of Chimera Biotech GmbH 2004–2007 Group leader at ISAS - Institute for Analytical Sciences, Dortmund 2008–Present Max-Planck Fellow at the Max-Planck Institut für Molekulare Physiologie, Dortmund
Awards:	Postdoctoral fellowship from the Studienstiftung des deutschen Volkes, Habilitation award for Biotechnology of DECHEMA, Max-Planck Fellowship
Current research interests:	Development of methods for the synthesis and characterization of hybrid bioconjugates comprised of protein, nucleic acid, and nanoparticle building blocks as well as design and optimization of their self-assembly and molecular-recognition properties; applications of the hybrids in molecular nanosciences, catalysis, and bioanalytics

The biggest challenge facing scientists is ... to solve the most urgent problems of humanity—the replacement of fossil fuels and supply of drinking water.

My biggest inspiration is ... listening to music in the great outdoors.

In ten years time I will be ... hopefully as happy with my life as I am now.

When I was eighteen I wanted to be ... a veterinarian.

The most significant scientific advance of the last 100 years has been ... the development of molecular biology.

If I could be anyone for a day, I would be ... Pharaoh Cheops, to learn about the Egyptian lifestyle and how the pyramids were actually built.

If I could have dinner with three famous scientists from history, they would be ... Leonardo DaVinci, Albert Einstein, and Linus Pauling.

My first experiment was ... the swelling of gummi bears in water (a systematic study).

If I wasn't a scientist, I would be ... a scuba-diving trainer on a tropical island—gorgeous but probably just pie-in-the-sky imagination.

The secret of being a successful scientist is ... solid training and preservation of naive imagination.

I would have liked to have discovered ... the polymimetic liquid-metal alloy used to coat the endoskeleton of Terminator T-1000.

The part of my job which I enjoy the most is ... the freedom to focus research on anything I wish to.

My 5 top papers:

1. “Oligonucleotide-Directed Self-Assembly of Proteins: Semisynthetic DNA-Streptavidin Hybrid Molecules as Connectors for the Generation of Macroscopic Arrays and the Construction of Supramolecular Bioconjugates”: C. M. Niemeyer, T. Sano, C. L. Smith, C. R. Cantor, *Nucl. Acids Res.* **1994**, 22, 5530–5539.
2. “Covalent DNA-Streptavidin Conjugates as Building Blocks for Novel Biometallic Nanostructures”: C. M. Niemeyer, W. Bürger, J. Peplies, *Angew. Chemie* **1998**, 110, 2391–2395; *Angew. Chem. Int. Ed.* **1998**, 37, 2265–2268.
3. “DNA-Directed Assembly of Bienzymic Complexes From In Vivo Biotinylated NAD(P)H:FMN Oxidoreductase and Luciferase”: C. M. Niemeyer, J. Koehler, C. Wuerdemann, *ChemBioChem* **2002**, 3, 242–245.
4. “Nanohybrids Composed of Quantum Dots and Cytochrome P450 as Photocatalysts”: B. I. Ipe, C. M. Niemeyer, *Angew. Chem.* **2006**, 118, 519–522; *Angew. Chem. Int. Ed.* **2006**, 45, 504–507.
5. “Detecting Antigens by Quantitative Immuno-PCR”: C. M. Niemeyer, M. Adler, R. Wacker, *Nature Protocols* **2007**, 2, 1918–1930.

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