

Prof. Dr. Norbert Sewald

Organic and Bioorganic Chemistry
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born in München, 06.11.1961

married to Dr. Katherina Sewald, two children: Anna (*2006), Marie (*2010)

1981 – 1988	Studies of Chemistry at Technische Universität München
1988 –1991	PhD, TU München with Prof. Dr. Klaus Burger
1991 – 1992	Postdoctoral Fellow with Prof. Sir J.E. Baldwin, Dyson Perrins Laboratory, Oxford University, funded by EU, SCIENCE-Programme
09/1998	Habilitation, Universität Leipzig, funded by Deutsche Forschungsgemeinschaft (until 31. Dec. 1995)
since 1.9.1999	Full Professor, Bielefeld University, Chair of Organic and Bioorganic Chemistry
2001 – 2003	Founding Co-ordinator of the <i>International Graduate School of Chemistry and Biochemistry</i> , Bielefeld University
2003 – 2005	Vice-Rector for Research, Bielefeld University
2006 – 2008	Vice-Dean, Department of Chemistry, Bielefeld University
2006 – 2008	Founding Chairman of the Institute of Biochemistry and Bioengineering, Center for Biotechnology (CeBiTec), Bielefeld University
2008 – 2011	Dean, Department of Chemistry, Bielefeld University
since 2010	Chairman of the Max-Bergmann-Kreis e.V. zur Förderung peptidchemischer Arbeiten

- Member of the Scientific Advisory Board, Leibniz Institute of Plant Biochemistry, Halle/Saale
 - Member of the Technical Committee 09 (Chemistry) of ASIIN (Accreditation Agency for Study Programs in Engineering, Informatics, Natural Sciences and Mathematics)
 - Member of the Scientific Affairs Committee of the European Peptide Society
 - Member of the Review Board 305 (Biological Chemistry and Food Chemistry) of Deutsche Forschungsgemeinschaft
 - Associate Editor of "Beilstein Journal of Organic Chemistry"
 - Associate Editor of "Amino Acids"
 - Associate Editor of "Journal of Amino Acids"
 - Member of the Advisory Board of "Journal of Peptide Science"
 - Member of the Editorial Board of "Pharmaceutical Patents Analyst"
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Research Areas:

Chemically modified peptides | Molecular tools for the life sciences | Isolation, total synthesis and modification of natural products | Functional foldamers

Key publications

1. Conjugates of Modified Cryptophycins and RGD-Peptides Enter Target Cells by Endocytosis
M. Nahrwold, C. Weiß, T. Bogner, F. Mertink, J. Conradi, B. Sammet, R. Palmisano, S. Royo Gracia, T. Preuße, N. Sewald,
J. Med. Chem., **56** (2013) 1853–1864
DOI: 10.1021/jm301346z
2. Synthesis and Conformational Analysis of Efrapeptins
S. Weigelt, T. Huber, F. Hofmann, M. Jost, M. Ritzefeld, B. Luy, C. Freudenberger, Z. Majer, E. Vass, J.-C. Greie, L. Panella, B. Kaptein, Q. B. Broxterman, H. Kessler, K. Altendorf, M. Hollósi, N. Sewald
Chem. Eur. J., **18** (2012) 478–487
DOI: 10.1002/chem.201102134
3. *Helicobacter* exploits integrin for Type IV secretion and kinase activation
T. Kwok, D. Zabler, S. Urman, M. Rohde, R. Hartig, S. Wessler, R. Misselwitz, J. Berger, N. Sewald, W. König, S. Backert
Nature, **449** (2007) 862–866
DOI:10.1038/nature06187
4. β -ACC Containing RGD Peptides Efficiently Inhibit Tumor Cell Adhesion
S. Urman, K. Gaus, Y. Yang, U. Strijowski, S. De Pol, O. Reiser, N. Sewald, *Angew. Chem. Int. Ed.*, **46** (2007) 3976–3978
DOI: 10.1002/ange.200605248
5. Mechanism-Based Tagging of Protein Families – A New Concept in Functional Proteomics
M. C. Hagenstein, J. H. Mussnug, K. Lotte, R. Plessow, A. Brockhinke, O. Kruse, N. Sewald
Angew. Chem. Int. Ed. **42** (2003) 5635–5638
DOI: 10.1002/anie.200352084