


## Curriculum Vitae: Gerd Ulrich Nienhaus

1959	born in Cologne	
1977	High School Diploma (Abitur); Gymnasium Attendorn	
1977 – 1983	Studies of Physics, Universität Münster	
1982 – 1983	Hard- and Software Developer, Systec GmbH, Münster	
1983	Diplom-Physiker	
1983	Research Associate, Institut für Angewandte Physik, Universität Münster	
1983	Research Associate, Institut für Physikalische Chemie, Universität Münster	
1984	Research Associate, Max-Planck-Institut für Biochemie, Martinsried	
1984 – 1989	Research Associate, Institut für Physikalische Chemie, Univ. Münster	
1988	Ph. D., Universität Münster (summa cum laude). Dissertation title: <i>Investigation of protein structure and dynamics: x-ray and <math>\gamma</math>-ray scattering with spatially sensitive proportional counters (translated from German)</i>	
1990	Postdoctoral Research Associate, University of Illinois at Urbana-Champaign (UIUC)	
1991	Visiting Research Assistant Professor, UIUC	
1992 – 1996	Assistant Professor of Physics, UIUC	
1993 – 1996	Assistant Professor of Biophysics, UIUC	
1996 – 1997	Associate Professor of Physics and Biophysics, UIUC	
1996 – 2009	Chair Professor (C4) and Director, Institute of Biophysics, Universität Ulm	
1997 –	Adjunct Professor of Physics, UIUC	
1999	Visiting Professor, Stanford University	
2002 – 2006	Dean of Studies in Physics, Universität Ulm	
2005 – 2006	Vice Dean, Faculty of Natural Sciences, Universität Ulm	
2009 –	Chair Professor (W3) and Director, Institute of Applied Physics, Karlsruhe Institute of Technology (KIT)	
2012 – 2015	Vice Dean, Faculty of Physics, KIT	

### Appointments and Honors

1988	Ph. D. Prize, Universität Münster
1990 – 1991	Feodor Lynen Fellow of the Alexander von Humboldt Foundation
1994	Fellow, Center for Advanced Study, UIUC
1998	Fellow, American Physical Society (APS)
1999 – 2004	Treasurer, German Biophysical Society (DGfB)
2001	Fellow, Institute of Physics (IoP, London)
2002 – 2005	Secretary of Commission C6 (Biological Physics) of IUPAP (International Union of Pure and Applied Physics)
2003	Fellow, American Association for the Advancement of Science (AAAS)
2005 – 2008	Vice-President of the German Biophysical Society (DGfB)
2005 – 2008	Chairman of Commission C6 (Biological Physics) of IUPAP
2006 – 2008	Associate Member of Commission C3 (Statistical Physics) of IUPAP
2006 – 2008	Associate Member of Affiliated Commission AC4 (Med. Physics) of IUPAP
2006	Cooperation Prize Science-Industry, Universität Ulm

2006 – 2011	Member of the Scientific Council, John von Neumann Institute for Computing (NIC), Jülich, Germany
2007 – 2011	Member of the Executive Board of the German Physical Society (DPG) for Higher Education and Junior Scientists
2007 – 2011	Spokesman, Conference of Physics Departments in Germany (KFP)
2007 – 2011	Council Member, Conference of the Mathematical and Natural Sciences Faculties in Germany (MNFT)
2008 – 2020	Consultant, Abbott Laboratories, Abbott Park, Illinois
2008 – 2016	Member of the Grant Review Board "Foundations of Biology and Medicine, Section 1: Biochemistry, Biophysics, Structural Biology and Bioinformatics" of the German National Science Foundation (DFG)
2008 – 2014	Council Member, Intl. Union of Pure and Applied Biophysics (IUPAB).
2008 – 2014	Inter-Union Delegate of IUPAP to IUPAB
2008 – 2011	Member of the Board of ASIIN e.V. (Accreditation Agency for Study Programs in Engineering, Informatics, Natural Sciences and Mathematics)
2008 – 2014	Member of the Board of ASIIN Consult GmbH
2009 – 2010	President of the German Biophysical Society (DGfB)
2009 – 2014	Member of the Board of the Division of Physics in Life Science, European Physical Society (EPS)
2010 – 2014	Member of the Advisory Board, Intl. Grad. School in Mol. Medicine, U Ulm
2011	Prize for Excellent Teaching in the Faculty of Physics (Fakultätslehrpreis), Karlsruhe Institute of Technology (KIT)
2011 – 2014	Vice President of the German Biophysical Society (DGfB)
2012 – 2014	Deputy Chairman of the Board of ASIIN e.V. (Accreditation Agency for Study Programs in Engineering, Informatics, Natural Sciences and Mathematics)
2012 – 2021	Member of the Committee for the Allocation of Alexander von Humboldt Foundation Research Awards, Alexander von Humboldt Foundation
2019 –	Fellow of the Max Planck School of Photonics (MPSP)
2021	Werner Heisenberg Medal of the Alexander von Humboldt Foundation

### Ten Selected Publications\*

- Nienhaus, G. U., Heinzl, J., Huenges, E., & Parak, F., Protein Crystal Dynamics Studied by Time-Resolved Analysis of X-Ray Diffuse Scattering, **Nature** 338 (1989) 665-666.
- Ostermann, A., Waschipky, R., Parak, F. G., & Nienhaus, G. U., Ligand Binding and Conformational Motions in Myoglobin, **Nature** 404 (2000) 205-208.
- Wiedenmann, J., Ivanchenko, S., Oswald, F., Schmitt, F., Röcker, C., Salih, A., Spindler, K.-D., & Nienhaus, G. U., EosFP, A Fluorescent Marker Protein with UV-Inducible Green-to-Red Fluorescence Conversion, **Proc. Natl. Acad. Sci. USA** 101 (2004) 15905-15910.
- Nienhaus, K., Nienhaus, G. U., Wiedenmann, J., & Nar, H., Structural Basis for Photo-Induced Protein Cleavage and Green-to-Red Conversion of Fluorescent Protein EosFP, **Proc. Natl. Acad. Sci. USA** 102 (2005) 9156-9159.
- Hedde, P. N., Fuchs, J., Oswald, F., & Nienhaus, G. U., On-line Image Analysis Software for Photoactivation Localization Microscopy, **Nature Methods** 6 (2009) 689-690.
- Röcker, C., Pötzl, M., Zhang, F., Parak, W. J., & Nienhaus, G. U., A Quantitative Fluorescence Study of Protein Monolayer Formation on Colloidal Nanoparticles, **Nature Nanotechnology** 4 (2009) 577-580.
- Fuchs, J., Boehme, S., Oswald, F., Hedde, P. N., Krause, M., Wiedenmann, J., & Nienhaus, G. U., Imaging Protein Movements in Live Cells with Super-resolution Using mlrisFP, **Nature Methods** 7 (2010) 627-630.
- Manz, C., Kobitski, A.Y., Samanta, A., Keller, B. G., Jäschke, A., & Nienhaus, G. U., Single-Molecule FRET Reveals the Energy Landscape of the Full-Length SAM-I Riboswitch, **Nature Chem. Biol.** 13 (2017) 1172-1178.
- Gao, P., Prunsche, B., Zhou, L., Nienhaus, K., & Nienhaus, G. U., Background Suppression in Fluorescence Nanoscopy with Stimulated Emission Double Depletion, **Nature Photonics** 11 (2017) 163-169.
- Sunbul, M., Lackner, J., Martin, A., Englert, D., Hacene, B., Grün, F., Nienhaus, K., Nienhaus, G. U., & Jäschke, A., Super-resolution RNA Imaging Using a Rhodamine-binding Aptamer with Fast Exchange Kinetics, **Nature Biotechnology** 39 (2021) 686-690.

\*See <https://publons.com/researcher/2712554/gerd-ulrich-nienhaus/> for a comprehensive list.