



Curriculum Vitae Professor Dr. Bärbel Friedrich



Name: Bärbel Friedrich
Born: 29 July 1945, Göttingen

Main research interests: Synthesis, structure and function of hydrogenase enzymes; Protein-catalyzed assembly of metal co-factors; Biological hydrogen production; Functional genome research of lithoautotrophic bacteria

Academic and Professional Career

since 2008 Scientific director of the Alfred Krupp Institute of Advanced Studies in Greifswald, Germany
1994 - 2013 Full Professor (C4) in Microbiology at the Humboldt-University, Berlin, Germany
1985 - 1994 Full Professor (C4) in Microbiology at the Free University Berlin, Germany
1983 Habilitation in Microbiology at the Georg-August University Göttingen, Germany
1977 - 1984 Research Associate at the Institute of Microbiology, Göttingen, Germany
1975 - 1976 Postdoctoral fellow at the Institute of Technology (MIT), Cambridge, USA
1973 Doctorate in Microbiology, University of Göttingen, Germany
1965 - 1970 Study of Biology at the Georg-August-University Göttingen (Diploma in Biology), Germany

Project coordination, Membership in collaborative research projects (Selection)

2009 - 2013 GenoMik-Transfer – Application-oriented Research on Non-Pathogenic microorganisms for Health, Nutrition and Ressource-Efficient Industry Production, “Autotrophic production of fine chemicals and specifically labeled biocompounds in *Ralstonia eutropha*”, funded by the Federal Ministry of Education and Research (BMBF)
2009 - 2012 BMBF project „Design of Natural Light-driven H₂-Production from molecular to Mass-Fermentation“

- 2007 - 2012 DFG Cluster of Excellence “Unifying Concepts of Catalysis”, TP B1 “Structure-function analysis of oxygen tolerant hydrogenases”
- 2006 - 2009 BMBF project “Metabolic engineering of the hydrogen bacterium *Ralstonia eutropha* H16: Production of biomolecules using hydrogen”
- 2005 - 2008 BMBF project “Molecular basis for a biotechnological and biomimetic approach of H₂ production”
- 2000 - 2009 DFG collaborative research project “Protein-Cofactor Interactions in Biological Processes” “Bacterial [NiFe]-hydrogenases: key reactions of the biological activation of molecular hydrogen”
- 1999 - 2003 COST Action 841 (EC) “Biological and Biochemical Diversity of Hydrogen Metabolism”
- 1994 - 2000 Coordinator of the DFG priority program “Molecular analysis of regulatory networks in bacteria”
- 1990 - 1999 Collaborative research project on regulatory structures of nucleic acids and proteins

Functions in Scientific Societies and Committees (Selection)

- 2009 - 2012 Evaluation Board, Polish-German Scientific Award Copernicus
- 2007 - 2010 Joint Committee for the Sino-German Center for Research Promotion, German Research Foundation (DFG)
- 2007 - 2010 Member of the Scientific Advisory Council at the Robert Koch Foundation
- 2005 - 2015 Vice President of German National Academy of Sciences Leopoldina
- 2004 - 2008 Member of the Scientific Advisory board at the Center of infectious diseases, University of Würzburg, Germany
- 2004 - 2008 Member of the Scientific Advisory Board at the Foundation “Alfried Krupp Kolleg Greifswald”
- 2003 - 2009 Nomination Committee for the Leibniz Award
- 2003 - 2005 Member of the German Federal Parliament Enquete Committee “Ethical and legal aspects of modern medicine”
- 2001 - 2004 Member of the Foundation Council “Max-Delbrück-Centre for molecular medicine”
- 2001 - 2004 Member of presidential committee “Gesellschaft Deutscher Naturforscher und Ärzte”
- 1997 - 2003 Vice President of the German Research Foundation (DFG)
- 1997 - 1999 Member of the Federal Science Council
- 1991 - 2001 Member of the Heisenberg Committee, German Research Foundation (DFG)
- 1985 - 1989 Vice President of the Association of General and Applied Microbiology (VAAM)

Honours and Awarded Memberships (Selection)

since 2019	Honorary Member of the Vereinigung für Allgemeine und Angewandte Mikrobiologie (VAAM)
2016	Leopoldina Medal of Merit
2013	Arthur Burkhardt Prize
2013	Order of Merit (Verdienstkreuz am Bande) of the Federal Republic of Germany
2010	Guest Lecture Award „Frontiers in Biological Chemistry“, Max-Planck-Society
since 2000	Corresponding member of the Academy of Science in Göttingen, Germany
since 1997	Corresponding member of the North Rhine-Westphalia Academy of Science
since 1994	Member of the German National Academy of Sciences Leopoldina
since 1994	Member of the Berlin-Brandenburg Academy of Sciences, Germany
1975	Research fellowship awarded by the German Research Foundation (DFG)