

Ulrich Förstermann, M.D., Ph.D.
Dr. honoris causa



Curriculum Vitae

Date and place of birth: April 04, 1955 — Hildesheim, Germany

Citizenship: German

Marital status Married to Amélie Biedenkopf-Förstermann, M.D.
3 Children

Business Address Department of Pharmacology, Johannes Gutenberg University Medical Center
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Current position: April 2024 – present Senior Research Professor/Full Professor,
Department of Pharmacology, Johannes
Gutenberg University Medical Center, Mainz,
Germany

Previous positions: April 2013 – March 2024 Chief Scientific Officer, Johannes Gutenberg
University Medical Center, and
Dean, Faculty of Medicine,
Johannes Gutenberg University, Mainz,
Germany

April 2009 – March 2013 Vice President for Research, Johannes
Gutenberg University, Mainz, Germany

June 1993 – March 2024 Professor and Chairman, Department of
Pharmacology, Johannes Gutenberg University
Medical Center, Mainz, Germany

Jan. 1992 – May 1993 Project Director, Vascular Biology Project,
Abbott Laboratories, Abbott Park, Illinois, USA

	May 1991 – Dec. 1991	Senior Group Leader, Signal Transduction Group, Abbott Laboratories, Abbott Park, Illinois, USA
	May 1991 – June 1993	Adjunct Professor of Pharmacology and Clinical Pharmacology, Hannover Medical School, Germany
	April 1989 – April 1991	Visiting Senior Scientist, Abbott Laboratories, Abbott Park, Illinois, USA (fellow of the Heisenberg Foundation, Bonn, Germany; advisor: Dr. Ferid Murad, Nobel Laureate for Physiology or Medicine 1998)
	April 1989 – May 1993	Adjunct Professor of Pharmacology, Northwestern University Medical School, Chicago, IL, USA
	April 1987 – March 1989	Assoc. Professor of Pharmacology and Clinical Pharmacology and Head Physician, Dept. of Clinical Pharmacology, Hannover Medical School, Hannover, Germany
	Nov. 1984 – March 1987	Assist. Professor of Pharmacology, Dept. of Clinical Pharmacology, Hannover Medical School, Hannover, Germany
	Sept. 1980 – Sept. 1984	Postdoctoral Research Fellow, Dept. of Pharmacology, Albert-Ludwig's University, Freiburg, Germany
<i>Major Job Offers (Academia)</i>	April 1992	Professor and Chairman, Dept. of Pharmacology and Toxicology, Johann Wolfgang Goethe University, Frankfurt, Germany (<i>declined</i>)
	February 1993	Professor and Chairman, Dept. of Pharmacology, Johannes Gutenberg University, Mainz, Germany (<i>accepted</i>)
<i>Major Job Offer (Industry)</i>	May 1993	Vice President Cardiovascular Research, Pharmaceutical Discovery, Abbott Laboratories, North Chicago, IL, USA (about 120 staff) (<i>declined</i>)
<i>Education and Degrees:</i>	July 1986	'Habilitation' (German postdoctoral university lecturing qualification in pharmacology), Hannover Medical School, Hannover, Germany
	Dec. 1985	Board Certification in Medical Pharmacology and Toxicology (Certification Board Lower Saxony), valid for all German states and the EU
	May 1980	License to practice medicine in Germany (State of Baden-Wuerttemberg), valid for all German states and the EU

April 1980	M.D., Albert-Ludwigs University Medical School, Freiburg, and Medical Examination Board, State of Baden-Wurtemberg, Germany
June 1980	Ph.D. in pharmacology, "summa cum laude", Dept. of Pharmacology, Albert-Ludwigs University Medical School, Freiburg (Ph.D. equivalent according to World Education Services, New York, NY)
Oct. 1976 – Nov. 1978	Pharmacology research (thesis work), Department of Pharmacology, Albert-Ludwigs University, Freiburg
April 1979 – March 1980	Internship: Municipal Hospital, Lahr, Germany, (surgery; internal medicine; ear, nose and throat)
Oct. 1973 – March 1979	Albert-Ludwigs University Medical School, Freiburg, Germany (medicine)

Fields of Scientific Interest:

- **Signaling by cGAMP**
- **Oxidative stress in the vasculature, pro- and antioxidative enzyme systems and their pharmacological manipulation**
- Pharmacological interference with oxidative stress in the vasculature
- Pharmacological control of vascular gene expression (NO synthase genes, cyclooxygenase genes, others)
- Novel functions of nitric oxide
- **NO- and guanylyl cyclase-mediated signal transduction in physiology and pathophysiology**
- **Enzymology of NO synthases**
- Nitrovasodilators
- Mechanisms of vasoconstriction and vasodilation
- Cyclooxygenases, Icosanoids

<i>Awards and Scholarships:</i> May 2024	Honorary doctorate from Pham Ngoc Thach University of Medicine Hồ Chí Minh City (Saigon), Vietnam
Oct. 2017	'Ariëns Award' of the 'Nederlandse Vereniging voor Farmacologie – Dutch Pharmacological Society' for groundbreaking research in molecular pharmacology
July 2014	'Rodolfo Paoletti Medal for Distinction in European Pharmacology' (awarded by EPHAR – The Federation of European Pharmacological Societies)
April 1989 - May 1991	Heisenberg Research Scholarship, Deutsche Forschungsgemeinschaft – German Research Foundation, Bonn, Germany
Oct. 1989	Rudolph Schoen Award 1989 (awarded by the Hannover Medical School, Hannover, Germany)
March 1986	Fritz Kuelz Award 1986 in Pharmacology (awarded by the German Society of Pharmacology and Toxicology)

	Dec. 1979	Goedecke/Warner Lambert Research Award 1979 (awarded by the Albert-Ludwigs University Medical School, Freiburg, Germany)
<i>Research Grants and Support:</i>	1995 – 1997 2008 – 2010	Several Research Grants from the Ministry of the Environment of the State of Rhineland-Palatinate (Germany)
	1998 – 2010	Several Research Grant from the Fund for Scientific and Medical Research of the State of Rhineland-Palatinate
	Jan. 1998 – Dec. 2007	2 – 3 own projects within the Collaborative Research Center 553 "Nitric Oxide: Generator and Effector Systems" of the German Research Foundation (DFG), Bonn, Germany
	1989 – 1993 (Chicago) and 1993 – 1994 (Mainz)	Research support from Abbott Laboratories, Abbott Park, Illinois, USA
	1985 – 1987	Collaborative Research Center "Eicosanoids" of the German Research Foundation (DFG), Bonn, Germany (1 project)
	1984 – 1990	Individual Research Grants, German Research Foundation (DFG), Bonn, Germany
	1980 – 1984	Collaborative Research Center "Brain Research" of the German Research Foundation (DFG), Bonn, Germany (participation in the project of Dr. Georg Hertting)
<i>Science Management:</i>	Jan. 1998 – Dec. 2007	Chairman/Speaker of the Collaborative Research Center 553 "Nitric Oxide: Generator and Effector Systems" of the German Research Foundation (DFG), Bonn, Germany, ~€ 2.3 Million/year
	April 1998 – Dec. 2008	Chairman of the Coordinating Committee of the 'Center for Natural Sciences and Medicine' (NMFZ) of the Johannes Gutenberg University, Mainz, an organization for intramural research funding with an annual budget of € 800,000 and > 20 staff positions.
	since Jan. 2009	Member of the Coordinating Committee of the 'Research Focus Vascular Prevention' of the Johannes Gutenberg University, Mainz, Germany
	since Sept. 2010	Member of the Board of the 'Center for Thrombosis and Hemostasis' Mainz (funded by the Federal Ministry for Education and Research, Germany)

	2005 – 2011	Vice-Chairman of the 'Deutschen Gesellschaft für Pharmakologie' (German Society for Pharmacology)
	June 2010 – July 2012	President of EPHAR (Federation of European Pharmacological Societies), the umbrella organization of European Pharmacological Societies
	since 1993	Organizer and co-organizer of various scientific Meetings and Symposia, e.g. ... the Annual Meeting of the 'German Societies for Experimental and Clinical Pharmacology and Toxicology' in Mainz (17 Meetings with approx. 1000 participants each); ... the '3 rd International Meeting on the Biochemistry and Molecular Biology of NO' in Los Angeles 1998 (approx. 400 participants); ... the 'IUPHAR Symposium on the Pharmacology of NO' in Munich 1998 (approx. 300 participants), etc.
<i>Scientific Advisory Boards:</i>	1996 – 2006	Member of the Scientific Advisory Board of the 'Interdisciplinary Center for Clinical Research (IZKF) of the University of Münster, Germany
	since 1999	Member of the Scientific Advisory Board of the Institute of Biotechnology and Drug Research (ibwf) at the Technical University of Kaiserslautern, Germany
	2009 – 2013	Member of the Board of Directors of the 'Institute for Microtechnology Mainz' (IMM), Mainz, Germany
	since 2011	Member of the Board of Directors of the 'Institute for Translational Oncology' (TRON), Mainz, Germany
<hr/> <i>Grant Reviewer:</i>	since 1993	German Research Foundation - Deutsche Forschungsgemeinschaft (>5 individual grant applications per year and several Collaborative Research Centers) Austrian Science Fund (FWF; including Collaborative Research Centers) Swiss National Science Foundation (SNSF) Institut National de la Santé et de la Recherche Médicale (INSERM, France) German-Israeli Foundation (GIF)

Israel Science Foundation (ISF)
 Research Grants Council, Hong-Kong
 National University of Singapore, Faculty of
 Medicine
 The Hebrew University of Jerusalem
 Ad hoc reviewer for numerous private
 foundations

<i>Teaching:</i>	since 1985	Lectures and seminars in general pharmacology and drug therapy for students of medicine and dentistry in all areas of pharmacology
	1980 – 1984 and 1993 – 1994	Seminars and lectures of pharmacology and toxicology for pharmacy students, biology students, and chemistry students

<i>Memberships:</i>	since 1991	American Society for Pharmacology and Experimental Therapeutics
	since 1991	German Society for Cardiovascular Research
	since 1987	German Society of Biological Chemistry
	since 1980	German Society of Pharmacology and Toxicology
	since 2001	American Heart Association

<i>Reviewer for Periodicals:</i>	since 1993	British Journal of Pharmacology
	since 1992	Endothelium
	since 1992	Neuroscience Letters
	since 1991	Molecular Pharmacology
	since 1990	Proceedings of the National Academy of Sciences, USA
	since 1990	Circulation Research
	since 1989	Journal of Clinical Investigation
	since 1988	Canadian Journal of Physiology and Pharmacology
	since 1987	Circulation
	since 1985	European Journal of Pharmacology (incl. Mol. Pharmacol. Section)
	since 1984	Naunyn-Schmiedeberg's Archives of

		Pharmacology
	since 2003	Journal of Molecular Medicine
<i>Editorial Boards:</i>	1985 – 2001	Naunyn-Schmiedeberg's Archives of Pharmacology
	1992 – 2006	Endothelium
	2002 – 2004	Journal of Biochemistry
<i>Associate Editor:</i>	since 1996	NITRIC OXIDE, Biology and Chemistry
<i>Book Editor:</i>	2022	Co-editor and co-author of the German Pharmacology Textbook: Allgemeine und spezielle Pharmakologie und Toxikologie (K. Aktories, V. Flockerzi, <u>U. Förstermann</u> , F. Hofmann), 13th Ed. , Elsevier Publishers, Munich, Germany
	2017	Co-editor and co-author of the German Pharmacology Textbook: Allgemeine und spezielle Pharmakologie und Toxikologie (K. Aktories, <u>U. Förstermann</u> , F. Hofmann, K. Starke), 12th Ed. , Elsevier Publishers, Munich, Germany
	2013	Co-editor and co-author of the German Pharmacology Textbook: Allgemeine und spezielle Pharmakologie und Toxikologie (K. Aktories, <u>U. Förstermann</u> , F. Hofmann, K. Starke), 11th Ed. , Elsevier Publishers, Munich, Germany
	2009	Co-editor and co-author of the German Pharmacology Textbook: Allgemeine und spezielle Pharmakologie und Toxikologie (K. Aktories, <u>U. Förstermann</u> , F. Hofmann, K. Starke), 10th Ed. , Elsevier/Urban & Fischer Publishers, Munich, Germany
	2004	Co-editor and co-author of the German Pharmacology Textbook: Allgemeine und spezielle Pharmakologie und Toxikologie (K. Aktories, <u>U. Förstermann</u> , F. Hofmann, K. Starke), 9th Ed. , Elsevier/Urban & Fischer Publishers, Munich, Germany
	2001	Co-editor and co-author of the German Pharmacology Textbook: Allgemeine und spezielle Pharmakologie und Toxikologie (W. Forth, D. Henschler, W. Rummel, <u>U. Förstermann</u> , K. Starke), 8th Ed. , Urban & Fischer Publishers, Munich, Germany

