

Ulrich Förstermann, M.D., Ph.D.



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*Curriculum Vitae*

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*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* Chief Scientific Officer, Johannes Gutenberg University Medical Center, and  
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<b><i>Current position:</i></b>	<b>April 2013 – present</b>	<b>Chief Scientific Officer, Johannes Gutenberg University Medical Center, and Dean, Faculty of Medicine, Johannes Gutenberg University, Mainz, Germany</b>
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<i>Previous positions:</i>	April 2009 – March 2013	Vice President for Research, Johannes Gutenberg University, Mainz, Germany
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	June 1993 – present	Professor and Chairman, Department of Pharmacology, Johannes Gutenberg University Medical Center, Mainz, Germany (currently on leave of absence)
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	Jan. 1992 – May 1993	Project Director, Vascular Biology Project, Abbott Laboratories, Abbott Park, Illinois, USA
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	May 1991 – Dec. 1991	Senior Group Leader, Signal Transduction Group, Abbott Laboratories, Abbott Park, Illinois, USA
	May 1991 – June 1993	Adjunct Professor of Pharmacology, Hannover Medical School, Germany
	April 1989 – April 1991	Visiting Senior Scientist, Abbott Laboratories, Abbott Park, Illinois, USA ( <i>fellow of the Heisenberg Foundation, Bonn, Germany; advisor: Dr. Ferid Murad, Nobel Laureate for Physiology or Medicine 1998</i> )
	April 1989 – May 1993	Adjunct Professor of Pharmacology, Northwestern University Medical School, Chicago, IL, USA
	April 1987 – March 1989	Assoc. Professor of Pharmacology, 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
Major Job Offers (Academia)	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> )
Major Job Offer (Industry)	May 1993	Vice President Cardiovascular Research, Pharmaceutical Discovery, Abbott Laboratories, North Chicago, IL, USA (about 120 staff) ( <i>declined</i> )
Education and Degrees:	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-Württemberg), 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-Württemberg, 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:*

- **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

*Awards and Scholarships:*

Oct. 2017	‘Ariëns Award’ of the ‘Nederlandse Vereniging voor Farmacologie – Dutch Pharmacological Society’ for groundbreaking research molecular pharmacology
July 2014	‘Rodolfo Paoletti Medal for Distinction in European Pharmacology’ (awarded by EP HAR – 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)

*Research Grants and Support:*

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)
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<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, ~€ 2.1 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 <sup>rd</sup> 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

<i>Grant Reviewer:</i>	since 1993	<p>German Research Foundation - Deutsche Forschungsgemeinschaft (&gt;5 individual grant applications per year and several Collaborative Research Centers)</p> <p>Austrian Science Fund (FWF; including Collaborative Research Centers)</p> <p>Swiss National Science Foundation (SNSF)</p> <p>Institut National de la Santé et de la Recherche Médicale (INSERM, France)</p> <p>German-Israeli Foundation (GIF)</p> <p>Israel Science Foundation (ISF)</p> <p>Research Grants Council, Hong-Kong</p> <p>National University of Singapore, Faculty of Medicine</p> <p>The Hebrew University of Jerusalem</p> <p>Ad hoc reviewer for numerous private foundations</p>
<i>Teaching:</i>	<p>since 1985</p> <p>1980 – 1984 and 1993 – 1994</p>	<p>Lectures and seminars in general pharmacology and drug therapy for students of medicine and dentistry in all areas of pharmacology</p> <p>Seminars and lectures of pharmacology and toxicology for pharmacy students, biology students, and chemistry students</p>
<i>Memberships:</i>	<p>since 1991</p> <p>since 1991</p> <p>since 1987</p> <p>since 1980</p> <p>since 2001</p>	<p>American Society for Pharmacology and Experimental Therapeutics</p> <p>German Society for Cardiovascular Research</p> <p>German Society of Biological Chemistry</p> <p>German Society of Pharmacology and Toxicology</p> <p>American Heart Association</p>
<i>Reviewer for Periodicals:</i>	<p>since 1993</p> <p>since 1992</p> <p>since 1992</p> <p>since 1991</p> <p>since 1990</p> <p>since 1990</p> <p>since 1989</p> <p>since 1988</p>	<p>British Journal of Pharmacology</p> <p>Endothelium</p> <p>Neuroscience Letters</p> <p>Molecular Pharmacology</p> <p>Proceedings of the National Academy of Sciences, USA</p> <p>Circulation Research</p> <p>Journal of Clinical Investigation</p> <p>Canadian Journal of Physiology and Pharmacology</p>

	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), <b>13<sup>th</sup> Ed.</b> , 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), <b>12<sup>th</sup> Ed.</b> , 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), <b>11<sup>th</sup> Ed.</b> , 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), <b>10<sup>th</sup> Ed.</b> , Elsevier/Urban & Fischer Publishers 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), <b>9<sup>th</sup> Ed.</b> , Elsevier/Urban & Fischer Publishers 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), <b>8<sup>th</sup> Ed.</b> , Urban & Fischer Publishers, Munich, Germany

<i>Publications/Citations</i> (see lists of publications):	since 1979	≥ 225 Refereed journal articles ≥ 53 Reviews and editorials (mostly invited) ≥ 54 Scientific book chapters, ≥ 23 textbook chapters >600 Scientific abstracts as of January 2019 Number of <b>Citations</b> : > 48,000 (Google Scholar) <b>Hirsch-Index:</b> <b>107</b> (Google Scholar)
<i>Scientific Lectures:</i>	since 1984	> 150 Invited lectures at International Meetings and Symposia > 70 Invited lectures at universities of German-speaking countries, at > 30 at US universities and at universities in Japan, Singapore, China, Hong-Kong and Taiwan. > 50 invited lectures at European and US pharmaceutical companies
<i>Languages:</i>		Fluent in English, German and French

Mainz, Germany, June 2022



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