Curriculum vitae

Name	**Roland Seifert, MD, PhD**	
Researcher ID	G-3189-2013	
Date and place of birth	December 5, 1960, Berlin, Germany	
Nationality	German	
Current position	Tenured Full Professor and Director, Institute of Pharmacology, Centre of Pharmacology and Toxicology, Hannover Medical School (MHH)	
Email	seifert.roland@mh-hannover.de	
Homepage	https://www.mhh.de/pharmakologie	
Graduate and post-graduate academic education	1979-1985 1983-1985 1986 1992	Medical School, Free University of Berlin, Germany Fellow of the German National Merit Foundation MD degree in Medicine (graduation with honors) PhD degree in Pharmacology (”Habilitation“) on ”Histamine receptors in HL-60 leukemia cells”.
Postgraduate medical education	1986-1995 1991 since 2005	Pharmacology and Toxicology, Free University of Berlin (Prof. Dr. Günter Schultz) Accreditation as Specialist for Pharmacology and Toxicology by the Medical Board Berlin (Facharzt) Authorization to conduct postgraduate education in Pharmacology and Toxicology for physicians
Scientific career	1986-1995 1995-1998 1998-2004 2004-2008 since 2008 since 2019	Postdoc with Prof. Dr. Günter Schultz, Institute of Pharmacology, Free University of Berlin Postdoc with Dr. Brian Kobilka (Nobel Laureate for Chemistry 2012), Howard Hughes Medical Institute, Stanford University, Palo Alto, CA, USA Associate Professor for Pharmacology and Toxicology at the University of Kansas (KU), Lawrence, KS, USA (tenure awarded in 2004) Full Professor and Chairman, Department of Pharmacology and Toxicology, University of Regensburg, Germany Full Professor and Director, Institute of Pharmacology, Hannover Medical School (MHH), Germany Head of the Research Core Unit Metabolomics, Hannover Medical School (MHH), Germany
Research awards	April 1999 May 1999 May 2002 January 2023 October 2023	”New Faculty Award”, University of Kansas ($ 5,000 for research on ”G-protein coupling of the histamine H_2-receptor”) ”J. R. and Inez Jay Award” of the Higuchi Biosciences Center of the University of Kansas ($ 30.000 for research on ”Probes of G-protein conformational states”) ”J. R. and Inez Jay Award” of the Higuchi Biosciences Center of the University of Kansas ($ 30.000 for research on ”Molecular and behavioral analysis of Lesch-Nyhan syndrome”) Poulsson medal 2022 of the Norwegian Society of Pharmacology and Toxicology PHOENIX Pharmacy Science award for the work on the sGC activator cinaciguat (link to PubMed)

Teaching awards	2002, 2005	Undergraduate Teaching Excellence Award, KU
	2010, 2012, 2013, 2014, 2015, 2016, 2017, 2018 2019, 2020, 2021, 2022, 2023	Best Teacher Award from the medical students, MHH
Research topics	• G-protein-coupled receptors (particularly histamine receptors) • Cyclic nucleotides (particularly non-canonical cNMPs) • Mass-spectrometric analysis of histamine metabolites and cyclic nucleotides • Pharmaceutical market, drug safety, and drug approval • Traditional medicines, botanicals, dietary supplements • Pharmacology and society • History of pharmacology • Scientometrics	
Publications (PubMed) (as per May 2024)	• 290 peer-reviewed original publications (first authorship: 29; co-authorship: 102; senior authorship: 159) • 53 peer-reviewed reviews (first authorship: 23; co-authorship: 7; senior authorship: 23) • 23 peer-reviewed editorials, letters, commentaries, correspondences (first authorship: 17; co-authorship: 1; senior authorship: 5) • 60 book articles, 11 congress contributions/reports, 138 postgraduate educational articles for scientists, 65 scientific book reviews • Textbook for medical students "Basiswissen Pharmakologie" (2018) ISBN 978-3-662-56302-1 (softcover), ISBN 978-3-662-56303-8 (eBook) • Textbook for medical students "Basic Knowledge of Pharmacology" (2019) ISBN 978-3-030-18898-6 (hardcover), ISBN 978-3-030-18899-3 (eBook) • Textbook for medical students "Basiswissen Pharmakologie", 2nd edition (2021) ISBN 978-3-662-60503-5 (softcover), ISBN: 978-3-662-60504-2; (eBook) • Book for the general public "Medikamente leicht erklärt" (2021) ISBN 978-3-662-62329-9 (softcover), ISBN 978-3-662-62330-5 (eBook) • Book for the general public "Drugs easily explained" (2022) ISBN 978-3-031-12187-6 (softcover) ISBN: 978-3-031-12188-3 (eBook)	
Bibliometric analysis (as per May 6, 2024)	• Cumulative impact factor: 1.732,282 • Average impact factor: 5.668	
Citation metrics (as per March 6, 2024) **Source:** www.webofscience.com	Web of Science Core Collection metrics: • Total documents: 358 (Web of Science), of which 349 are listed in the Web of Science Core Collection • Sum of times cited (Web of Science Core Collection): 11,159 • h-index: 56 (Web of Science Core Colletion)	

Editorial activities	2005	Book ”G-Protein-Coupled Receptors“ together with Prof. Wieland (Mannheim, Germany)
	2007-2014	Associate Editor of *J. Pharmacol. Exp. Ther.*
	2011-2014	Associate Editor of *PLoS One*
	since 2014	Member of the Editorial Board of *J. Biol. Chem.*
	2014-2015	Associate Editor of *Naunyn Schmiedeberg's Archives of Pharmacology*
	since 2016	Editor-in-chief of *Naunyn Schmiedeberg's Archives of Pharmacology*
	2017	*Handbook of Experimental Pharmacology* “Non-canonical cyclic nucleotides” (volume 238) and “Histamine in health and disease” (volume 241), the latter volume together with Prof. Hattori (Toyama, Japan)
	Since 2021	Editor of the “Arzneiverordnungs-Report” (German prescription drug report) together with Wolf-Dieter Ludwig and Bernd Mühlbauer
Reviewing activities	• Reviewer for research funding organisations including the German Research Foundation (DFG, Germany), Wellcome Trust (GB), American Heart Association (USA), National Institutes of Health (USA), National Science Foundation (USA), Centre National de la Recherche Scientifique (France), Telethon Foundation (Italy), German-Israel Foundation • Reviewer for leading scientific journals including *Nature, Science, Mol. Pharmacol., Trends Pharmacol. Sci., J. Neurochem., J. Biol. Chem., Mol. Pharmacol., Proc. Natl. Acad. Sci. USA, Biochem. Pharmacol (*Advisory Editorial Board 2004-2007*), NS Arch. Pharmacol. (*Advisory Editorial Board 2004-2007*).*	
Mentoring activities	2007-2010	Liaison officer to the Max-Weber program within the German Merit Foundation
	since 2022	Liaison officer to the German Academic Scholarship Foundation
Activities within the German Society for Pharmacology and Toxicology (DGPT)	2008-2020	Chair of the Postgraduate Education Committee of the German Society for Pharmacology and Toxicology
	since 2011	DGPT representative participating in the update of the guideline for the treatment of anaphylaxia
	since 2012	Member of the Executive Board of the German Society for Pharmacology (DGP)
	2021-2023	Vice President of the German Society for Pharmacology (DGP)
	since 2024	President of the German Society for Pharmacology (DGP)
Academic self-administration	2002-2004	Radiation safety officer of the University of Kansas
	2005-2007	Chief executive officer of the Institute of Pharmacy of the University of Regensburg
	2011-2019	• Member of the academic section IV of the MHH
	2011-2017	• Chairman of the Doctoral Candidate Admissions Board for Theoretical Medicine at the MHH
	since 2018	Coordinator for the development of exam questions in the field of pharmacology at the Federal Institute for Medical and Pharmaceutical Exam Questions (IMPP) in Mainz
Postgraduate teaching	since 2011	Lectures for the German Society of Pharmacy

Congress organization	2010-2016	Biannual cCMP meetings (Hannover Germany)
	2014	Congress chairman of the 80th annual meeting of the German Society for Pharmacology and Toxicology (DGPT), Hannover, April 1-3, 2014
	2025	Congress chairman of the 10th German Pharm-Tox Summit/ 91st annual meeting of the German Society for Pharmacology and Toxicology (DGPT), Hannover
Public relations activities	since 2011	TV and radio interviews on pharmacology-related topics
	since 2011	Writer of scientific paper reviews, journal club contributions and book reviews for *Biospektrum*
Academic life	since 2013	Senator for cultural affairs of the MHH
	since 2017	First oboist of the German Philharmonic Orchestra of Physicians (Bundesärztephilharmonie)
	since 2021	President of the German Philharmonic Orchestra of Physicians (Bundesärztephilharmonie)

The 10 most important publications

1. **Seifert, R.**, Hoshino, J., Kröger, H.: Nicotinamide methylation. Tissue distribution, developmental and neoplastic changes. *Biochim. Biophys. Acta* **801**, 259-264 (1984): First peer-reviewed paper of my career.
2. **Seifert, R.**, Höer, A., Schwaner, I., Buschauer, A.: Histamine increases cytosolic Ca^{2+} in HL-60 promyelocytes *via* H_2-receptors with an unique agonist/antagonist profile and induces functional differentiation. *Mol. Pharmacol.* **42**, 235-241 (1992): Important basis for PhD degree ("Habilitation").
3. **Seifert, R.**, Wenzel-Seifert, K., Lee, T. W., Gether, U., Sanders-Bush, E., Kobilka, B. K.: Different effects of $G_s\alpha$ splice variants on β_2-adrenoreceptor-mediated signaling: The β_2-adrenoreceptor coupled to the long splice variant of $G_s\alpha$ has properties of a constitutively active receptor. *J. Biol. Chem.* **273**, 5109-5116 (1998): Most important paper of my post-doc time at Stanford University.
4. Gille, A., Lushington, G. H., Mou, T.-C., Doughty, M. B., Johnson, R. A., **Seifert, R.**: Differential inhibition of adenylyl cyclase isoforms and soluble guanylyl cyclase by purine and pyrimidine nucleotides. *J. Biol. Chem.* **279**, 19955-19969 (2004): New pharmacological concept for the inhibition of signal-transducing enzymes.
5. **Seifert, R**.: cCMP and cUMP: emerging second messengers. *Trends Biochem. Sci.* **40**: 8-15 (2015): Postulate of new second messenger molecules.
6. Dessauer CW, Watts VJ2, Ostrom RS, Conti M, Dove S, **Seifert R**. International Union of Basic and Clinical Pharmacology. CI. Structures and Small Molecule Modulators of Mammalian Adenylyl Cyclases. *Pharmacol Rev,* **69**, 93-139 (2017): Summary of a major part of my research from the past 15 years.
7. **Seifert R.** Rethinking Pharmacological Nomenclature. *Trends Pharmacol Sci*, **39,** 785-797 (2018): New concept for the rational designation of drug classes.
8. **Seifert R.** Basic Knowledge of Pharmacology, Springer, Cham (2019): Modern and concise pharmacology textbook using modern nomenclature.
9. **Seifert R.** Basiswissen Pharmakologie, 2. Auflage, Springer, Heidelberg (2021): Modern and concise textbook in German language using modern nomenclature.
10. **Seifert R.** Medikamente leicht erklärt, Springer, Heidelberg (2021): Book on drugs for the general public. Also available as English version (Drugs easily explained, Springer, Cham (2022)