

Curriculum Vitae

Gudermann, Thomas, Professor Dr. med.

d.o.b. December 07, 1960 in Lippstadt, Germany

Advanced Professional Positions

2008 – present Full Professor and Chair, Walther Straub Institute of Pharmacology and Toxicology, LMU Munich

1999 – 2008 Full Professor and Chair of Pharmacology, University of Marburg

Professional Experience and Postdoctoral Training

1994 – 1999 Junior Investigator, Institute of Pharmacology, Free University of Berlin

1992 – 1994 Clinical and Research Fellow, University Hospital Münster, University of Münster

1989 – 1992 Postdoctoral Fellow, Baylor College of Medicine, Houston, Texas

Academic Education

1998 Habilitation (Pharmacology and Toxicology), Medical Faculty, Free University of Berlin

1997 Boards in Pharmacology and Toxicology

1989 Dr. med, University of Münster and FMGEMS and ECFMG
certificate 1988 License to practice medicine

1981 – 1988 Study of Medicine at University of Münster Medical School and Ben Gurion University, Beer Sheba, Israel

Honors, Awards, Scholarships and Other Qualifications

2020 GT Toxicology Award 2020, German Society of Toxicology

2016 Career Achievement Award, Society of Toxicology (USA), Clinical and Translational Toxicology Speciality Section

2012 Offer of the position as Scientific Director of the German Institute of Human Nutrition (DIfE), Potsdam, Leibniz Institute

2009 Member of the German Academy of Sciences Leopoldina

2004 – 2007 Offers of Full Professorships and First Positions on short lists of the Universities of Basel, Edinburgh, Freiburg, Tübingen

1999 Thyroid Von Basedow Research Prize, German Society of Endocrinology

1994 Schoeller-Junkmann Prize, German Society of Endocrinology

Professional Activities, Memberships

2024 – present Chairman of the Executive Board, M1 – Munich Medicine Alliance

2024 – present Vice Chairman of the Board of Directors (Stiftungsrat), Dr. Pfleger Arzneimittel GmbH, Bamberg

2023 – present Vice Chairman of the Board of Trustees, Wilhelm Sander Stiftung

2023 – present Associate Editor, *Pharmacological Reviews*

2021 – present Dean, Faculty of Medicine, LMU Munich

2020 – present Member of DFG Senate Committee for Experimental Animal Research

2020 – 2024 Speaker of whole Study Section Medicine (“Fachkollegium Medizin”), German Research Foundation (DFG)

2020 – 2024	Speaker of Section 1, Study Section Medicine, German Research Foundation (DFG)
2020 – 2024	Member of DFG Senate Committee for Clinical Research
2019 – present	Member of the Board of Directors (Verwaltungsrat), Dr. Pfleger Arzneimittel GmbH, Bamberg
2018 – present	Spokesperson of Research Training Group “Targets in Toxicology – Deciphering Therapeutic Targets in Lung Toxicology”, GRK 2338
2018 – present	Spokesperson of Elite Master Program “Human Biology – Principles of Health and Disease”, LMU Munich, Faculties of Medicine and Biology
2018 – 2021	Vice Dean, Faculty of Medicine, LMU Munich
2016 – 2024	Elected member of DFG Study Section (“Fachkollegium Medizin”) 205, DFG
2014 – present	Spokesperson of Transregional Collaborative Research Center TRR 152, “TRiPs to Homeostasis – Maintenance of Body Homeostasis by Transient Receptor Potential Channel Modules”, DFG
2012 – 2023	Member of the Scientific Advisory Board, Wilhelm Sander Stiftung
2011 – present	Member of the Scientific Advisory Board, Von-Behring-Roentgen-Stiftung, Frankfurt am Main
2011 – 2018	Member of the Scientific Advisory Board, Robert Bosch Stiftung, Stuttgart
2011 – 2016	DFG Liaison Officer of LMU Munich
2006 – 2011	Scientific Member of the Grants Committee of Collaborative Research Centres, Deutsche Forschungsgemeinschaft (DFG)
2005 – 2008	President of the German Society of Endocrinology

Citation Record

Total citations: 30504; h-index: 93; h-index since 2021: 50

10 most important publications

Chubanov V, Köttgen M, Touyz RM, **Gudermann T**. TRPM channels in health and disease. *Nat Rev Nephrol* 20:175-187, 2024.

Nadezhdin KD, Correia L, Narangoda C, Patel DS, Neuberger A, **Gudermann T**, Kurnikova MG, Chubanov V*, Sobolevsky AI*. Structural mechanisms of TRPM7 activation and inhibition. *Nat Commun* 4:2639, 2023. *corresponding authors

Kollewe A, Chubanov V, Tseung FT, Correia L, Schmidt E, Rössig A, Zierler S, Haupt A, Müller CS, Bildl W, Schulte U, Nicke A, Fakler B*, **Gudermann T***. The molecular appearance of native TRPM7 channel complexes identified by high-resolution proteomics. *Elife* 10:e68544, doi: 10.7554/eLife.68544. 2021. *corresponding authors

Erdogmus S, Storch U, Danner L, Becker J, Winter M, Ziegler N, Wirth A, Offermanns S, Hoffmann C, **Gudermann T***, Mederos y Schnitzler M*. Helix 8 is the essential structural motif of mechanosensitive GPCRs. *Nat Commun* 10:5784, doi: 10.1038/s41467-019-13722-0, 2019. *corresponding authors

Mittermeier L, Demirkhanyan L, Stadlbauer B, Breit A, Recordati C, Hilgendorff A, Matsushita M, Braun A, Simmons DG, Zakharian E, **Gudermann T***, Chubanov V*. TRPM7 is the central gatekeeper of intestinal absorption essential for postnatal survival. *Proc Natl Acad Sci USA* 116:4706-4715, doi: 10.1073/pnas.1810633116, 2019. *corresponding authors

Storch U, Forst AL, Pardatscher F, Erdogmus S, Philipp M, Gregoritza M, Mederos Y Schnitzler M and

- Gudermann T.** Dynamic NHERF interaction with TRPC4/5 proteins is required for channel gating by diacylglycerol. *Proc Natl Acad Sci USA* 114:E37-E46, 2017.
- Weissmann N, Sydykov A, Kalwa H, Storch U, Fuchs B, Mederos y Schnitzler M, Brandes RP, Grimminger F, Meissner M, Freichel M, Offermanns S, Veit F, Pak O, Krause KH, Schermuly RT, Brewer AC, Schmidt HH, Seeger W, Shah AM, **Gudermann T***, Ghofrani HA, Dietrich A*. Activation of TRPC6 channels is essential for lung ischemia-reperfusion-induced lung edema in mice. *Nat Commun* 3:649, doi: 10.1038/ncomms1660, 2012. *senior authors
- Hinkes B, Wiggins RC, Gbadegesin R, Vlangos CN, Seelow D, Nürnberg G, Garg P, Verma R, Chaib H, Hoskins BE, Ashraf S, Becker C, Hennies HC, Goyal M, Wharram BL, Schachter AD, Mudumana S, Drummond I, Kerjaschki D, Waldherr R, Dietrich A, Ozaltin F, Bakkaloglu A, Cleper R, Basel-Vanagaite L, Pohl M, Griebel M, Tsygin AN, Soylu A, Müller D, Sorli CS, Bunney TD, Katan M, Liu J, Attanasio M, O'toole JF, Hasselbacher K, Mucha B, Otto EA, Airik R, Kispert A, Kelley GG, Smrcka AV, **Gudermann T**, Holzman LB, Nürnberg P, Hildebrandt F. Positional cloning uncovers mutations in PLCE1 responsible for a nephrotic syndrome variant that may be reversible. *Nat Genet* 38:1397-1405, 2006.
- Hofmann T, Schaefer M, Schultz G, **Gudermann T.** Subunit composition of mammalian transient receptor potential channels in living cells. *Proc Natl Acad Sci SA* 99:7461-7466, 2002.
- Hofmann T, Obukhov AG, Schaefer M, Harteneck C, **Gudermann T**, Schultz G. Direct activation of human TRP6 and TRP3 channels by diacylglycerol. *Nature* 397:259-263, 1999.