

Curriculum Vitae

Alexander Dietrich, Prof. Dr. rer. nat.
born: April 2nd, 1962 in Leverkusen, Germany, married, two sons

Present Address

Ludwig-Maximilians-University-Munich
Walther-Straub-Institute for Pharmacology and Toxicology
School of Medicine, Member of the German Center for Lung Research (DZL),
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University Education

09/1988 - 12/1991 PhD at the German Cancer Research Center, Heidelberg,
1988 Diploma in Biology, Ruprecht-Karls-University, Heidelberg.
10/1981 - 07/1988 Studies of Biology at the Johannes-Gutenberg-University, Mainz and Ruprecht-Karls-University, Heidelberg.

Scientific Career

2010 Professor at the Ludwig-Maximilians-University Munich
2008 Extraordinary “apl.” Professor at the Philipps-University Marburg
2004 “Habilitation” for Pharmacology, Philipps-University Marburg
2000-2004 Research Assistant at the Institute of Pharmacology and Toxicology of the Philipps-University Marburg (Head: Prof. Thomas Gudermann)
1999-2000 Research Assistant at the Department of Anesthesiology, University of California at Los Angeles, USA (PI: Prof. Lutz Birnbaumer)
1997-1999 DFG-Research Fellow at the Department of Anesthesiology, University of California at Los Angeles, USA (PI: Prof. Lutz Birnbaumer)
1994-1997 Research Assistant at the Institute of Pharmacology and Toxicology of the University of Ulm (Head: Prof. Peter Gierschik)
1992-1994 Post-Doc at the Department of Molecular Pharmacology; German Cancer Research Center, Heidelberg (Head: Prof. Peter Gierschik)

Awards and Honours

2012/2021/2025 Teaching awards of the Medicak Faculty LMU-Munich
05.10.2007 Galenus-von-Pergamon-Award (Kat-B) for “Classical transient receptor potential channel 6 (TRPC6) is essential for hypoxic pulmonary vasoconstriction and alveolar gas exchange” together with Prof. Dr. N. Weißmann, Giessen.

Citation Record

12576 citations; h-index: 61; h-index since 2021: 34 (Source Google Scholar, March 2026)

Top 10 selectec publications:

Alt, P., Müller, I., Kiefmann, M., Gudermann, T., Kuebler, W.M., Griese, M., Staab-Weijnitz, C.A., **Dietrich, A.** (2026). Transient receptor potential vanilloid 4 (TRPV4) channels mediate pulmonary surfactant protein A and D secretion. *Am J Resp Cell Mol Biol* in press, doi 10.1093/ajrcmb/aanag023.

Schaller, L., Kiefmann, M., Gudermann, T., **Dietrich A.** (2025). TRPV2 channels facilitate pulmonary endothelial barrier recovery after ROS-induced permeability. *Redox Biol* 85:103720 doi: 10.1016/j.redox.2025.103720.

Rajan S, Shalygin A, Gudermann T, Chubanov V, *Dietrich A.* (2024). TRPM2 channels are essential for regulation of cytokine production in lung interstitial macrophages. *J Cell Physiol* 239(11):e31322 (2024). doi: 10.1002/jcp.31322.

Geiger, F., Zeitlmayr, S., Staab-Weijnitz, C.A., Rajan, S., Breit, A., Gudermann, T., Dietrich, A. (2023). An Inhibitory Function of TRPA1 Channels in TGF- β 1-driven Fibroblast to Myofibroblast Differentiation. *Am J Resp Cell Mol Biol* 68: 314. DOI: 10.1165/rcmb.2022-0159OC

Wierer, M., Werner, J., Wobst, J., Kastrati, A., Cepele, G., Aherrahrou, R., Sager, H.B., Erdmann, J., Dichgans, M., Flockerzi, V., Civelek, M., **Dietrich, A.**, Mann, M., Schunkert, H., Kessler, T. (2021). Deep proteomic profiling of neointima formation identifies the cation channel TRPC6 as a target to prevent in-stent restenosis after coronary stenting. *Eur. Heart J.* 42:1773-1785. doi: 10.1093/eurheartj/ehab140.

Weber, J., Rajan, S., Schremmer, C., Chao, Y.K., Krasteva-Christ, G., Kannler, M., Yildirim, A.Ö., Brosien, M., Schredelseker, J., Weissmann, N., Grimm, C., Gudermann, T., **Dietrich, A.** (2020). TRPV4 channels are essential for alveolar epithelial barrier function as protection from lung edema. *JCI Insight* 5:e134464. doi: 10.1172/jci.insight.134464.

Weissmann, N., Sydykov, A., Kalwa, H., Storch, U., Fuchs, B., Mederos y Schnitzler, M., Brandes, R.P., Grimminger, F., Meissner, M., Freichel, M., Offermanns, S., Veit, F., Pak, O., Krause, K.-H., Schermuly, R.T., Brewer, A.C., Schmidt, H.H.H.W., Seeger, W., Shah, A.M., Gudermann, T., Ghofrani, H.A. & **Dietrich, A.** (2012). Activation of TRPC6 channels is essential for ischemia–reperfusion-induced lung edema in mice. *Nature Commun* 3: 649.

Weissmann*, N., **Dietrich*, A.**, Fuchs, B., Kalwa, H., Ay, M., Dumitrascu, R., Olschewski, A., Mederos y Schnitzler, M., Ghofrani, H.A., Schermuly, R.T., Pinkenburg, O., Seeger, W., Grimminger, F. and Gudermann, T. (2006). Classical transient receptor potential channel 6 (TRPC6) is essential for hypoxic pulmonary vasoconstriction and alveolar gas exchange. *Proc. Natl. Acad. Sci. U.S.A.* **103**, 19093-19098. * **equal contributing and corresponding authors**

Hinkes, B., Wiggins, R.C., Gbadegesin, R., Vlangos, C.N., Seelow, D., Nürnberg, G., Garg, P., Verma, R., Chaib, H., Hoskins, B. E., Ashraf, S., Becker, C., Hennies, H.C., Goyal, M., Wharram, B., Schachter, A.D., Drummond, I., Kerjaschki, D., Waldherr, R., **Dietrich, A.**, Ozaltin, F., Bakkaloglu, A., Cleper, R., Basel-Vanagaite, L., Pohl, M., Griebel, M., Tsygin, A.N., Soyulu, A., Muller, D., Katan, M., Liu, J., Attanasio, M., O'Toole, J.F., Hasselbacher, K., Mucha, B., Otto, E.A., Airik, R., Kispert, A., Kelley, G.G., Smrcka, A.V., Gudermann, T., Holzman, L.B., Nürnberg, P. and Hildebrandt, F., (2006). Positional cloning of *PLCE1* mutations as the first cause of a nephrotic syndrome variant which may be reversible. *Nature Genetics* **38**, 1397-1405.

Weil, D., Wang, I., **Dietrich, A.**, Poustka, A., Weissenbach, J., and Petit, C. (1994). Highly homologous loci on the X and Y chromosomes are hot spots for ectopic recombinations leading to XX maleness. *Nature Genetics* **7**, 414-419.