

Curriculum Vitae

Alexander Dietrich, Prof. Dr. rer. nat.
d.o.b. April 2nd, 1962, in Leverkusen, Germany

University Education

2004 “Habilitation” for Pharmacology, Philipps-University Marburg
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 (W2) at the Ludwig-Maximilians-University Munich
2008 Extraordinary “apl.” Professor at the 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 Teaching Awards of the Medical 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

9823 citations, h-index: 56, h-index since 2017: 35 (Source: Google Scholar, September 13 2022)

Top 10 selected publications:

Jiang T, Samapati R, Klassen S, Lei D, Erfinanda L, Jankowski V, Simmons S, Yin J, **Dietrich A**, Gudermann T, Adam D, Schaefer M, Jankowski J, Flockerzi V, Nüsung R, Uhlig S, Kuebler WM. Stimulation of the EP 3 receptor causes lung edema by activation of TRPC6 in pulmonary endothelial cells. *Eur. Respir. J.* 21; 2102635 (2022). doi: 10.1183/13993003.02635-2021.

Wierer M, Werner J, Wobst J, Kastrati A, Cepele G, Aherrahrou R, Sager HB, Erdmann J, Dichgans M, Flockerzi V, Civelek M, **Dietrich A**, Mann M, Schunkert H, Kessler T.. 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 (2021). doi: 10.1093/eurheartj/ehab140.

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

Bröker-Lai J, Kollwe A Schindeldecker B, Pohle J, Nguyen Chi V, Mathar I, Guzman R, Schwarz Y, Lai A, Weißgerber P, Schwegler H, **Dietrich A**, Both M, Sprengel R, Draguhn A, Köhr G, Fakler B, Flockerzi V, Bruns D, Freichel M. Heteromeric channels formed by TRPC1, TRPC4 and TRPC5 define hippocampal synaptic transmission and working memory. *EMBO J.* 36:2770-2789 (2017).

Camacho Londoño JE Tian, Q, Hammer K, Camacho Londoño J, Rei J, Oberhofer M, Mannebach S, Mathar I, Philipp S, Tabellion W, Schweda F, **Dietrich A**, Kästner L, Laufs U, Birnbaumer L, Flockerzi V, Freichel M, Lipp P.. A background Ca²⁺ entry pathway mediated by TRPC1/TRPC4 is critical for development of cardiac hypertrophy. *Eur. Heart J.* 36: 2257-2266 (2015).

Griesi-Oliveira K, Acab A, Gupta AR, Sunaga DY, Chailangkarn T, Nicol X, Nunez Y, Walker MF, Murdoch JD, Sanders SJ, Fernandez TV, Ji W, Lifton RP, Vadasz E, **Dietrich A**, Pradhan D, Song H, Ming G-I, Guoe X, Haddad G, Marchetto MCN, Spitzer N, Passos-Bueno MR, State MW, Muotri AR. Modeling non-syndromic autism and the impact of TRPC6 disruption in human neurons. *Mol. Psychiatry* 20: 1350- 1365 (2015).

Malczyk M, Veith C, Fuchs B, Hofmann K, Storch U, Schermuly RT, Witzentrath M, Ahlbrecht K, Fecher-Trost C, Flockerzi V, Ghofrani HA, Grimminger F, Seeger W, Gudermann T, **Dietrich A***, Weissmann, N*. Classical transient receptor potential channel 1 in hypoxia-induced pulmonary hypertension *Am. J. Resp. Crit. Care. Med.* 188: 1451-1459 (2013)

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Tauseef M, Knezevic N, Chava KR, Smith M, Sukriti S, Gianaris N, Obukhov AG, Vogel SM, Schraufnagel DE, **Dietrich A**, Birnbaumer L, Malik AB, Mehta D. TLR4 activation of TRPC6-dependent calcium signaling mediates endotoxin-induced lung vascular permeability and inflammation. *J. Exp. Med.* 209: 1953-1968 (2012).

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 K-H, Schermuly RT, Brewer AC, Schmidt HHHW, Seeger W, Shah AM, Gudermann T*, Ghofrani HA, **Dietrich, A***. Activation of TRPC6 channels is essential for ischemia–reperfusion-induced lung edema in mice. *Nature Commun.* 3: 649 (2012).

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Weissmann* N, **Dietrich*** A, Fuchs B, Kalwa H, Ay M, Dumitrascu R, Olschewski A, Mederos y Schnitzler M, Ghofrani HA, Schermuly RT, Pinkenburg O, Seeger W, Grimminger F, Gudermann T.. 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 (2006).

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