



Publikationen

AG Prof. Dr. Marc Freichel

(Sortierung: Aktualität)

Research Articles:

1. Sota A., Beck A., Wartenberg P., Gehl A.-L., Winter M., Wissenbach U., **Freichel M.**, Meyer M.R., Boehm U., Flockerzi V., Fecher-Trost C., Weissgerbe P. TRPV6 channel function is involved in endometrial epithelial cell Ca²⁺ signaling and female mouse fecundity, *Cellular and Molecular Life Sciences*, 82:346, accepted 29 July 2025. <https://doi.org/10.1007/s00018-025-05857-9>
2. Gómez-Ochoa SA, Möhn M, Malz MV, Ottenheijm R, Lanzer JD, Wiedmann F, Kraft M, Muka T, Schmidt C, **Freichel M.**, Levinson RT. The transcriptional landscape of atrial fibrillation: A systematic review and meta-analysis. *PLoS One* 20(5):e0323534. 2025 May 30
3. Phan TX, Sahibzada N, **Freichel M.**, Miyares RL, Ahern GP. Arteries are finely tuned thermosensors regulating myogenic tone and blood flow. *Proc Natl Acad Sci USA* 122(21):e2503186122. 2025 May 27
4. Kehr D, Ritterhoff J, Glaser M, Jarosch L, Salazar RE, Spaich K, Varadi K, Birkenstock J, Egger M, Gao E, Koch WJ, Sauter M, **Freichel M.**, Katus HA, Frey N, Jungmann A, Busch C, Mather PJ, Ruhparwar A, Busch M, Völkers M, Wade RC, Most P. S100A1ct: A Synthetic Peptide Derived From S100A1 Protein Improves Cardiac Performance and Survival in Preclinical Heart Failure Models. *Circulation* 151(8):548-565. 2025 Feb 25
5. Deutsch R, Kudrina V, **Freichel M.**, Grimm C. Two-pore channel regulators - Who is in control? *Front Physiol* 15:1534071. 2025 Jan 10
6. Sun ZC, Han WJ, Dou ZW, Lu N, Wang X, Wang FD, Ma SB, Tian ZC, Xian H, Liu WN, Liu YY, Wu WB, Chu WG, Guo H, Wang F, Ding H, Liu YY, Tao HR, **Freichel M.**, Birnbaumer L,

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- Li ZZ, Xie RG, Wu SX, Luo C. TRPC3/6 Channels Mediate Mechanical Pain Hypersensitivity via Enhancement of Nociceptor Excitability and of Spinal Synaptic Transmission. *Adv Sci* 11(44):e2404342. 2024 Nov
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 8. Bröker-Lai J, Rego Terol J, Richter C, Mathar I, Wirth A, Kopf S, Moreno-Pérez A, Büttner M, Tan LL, Makke M, Poschet G, Hermann J, Tsvilovskyy V, Haberkorn U, Wartenberg P, Susperreguy S, Berlin M, Ottenheijm R, Philippaert K, Wu M, Wiedemann T, Herzig S, Belkacemi A, Levinson RT, Agarwal N, Camacho Londoño JE, Klebl B, Dinkel K, Zufall F, Nussbaumer P, Boehm U, Hell R, Nawroth P, Birnbaumer L, Leinders-Zufall T, Kuner R, Zorn M, Bruns D, Schwarz Y, **Freichel M**. TRPC5 controls the adrenaline-mediated counter regulation of hypoglycemia. *EMBO J* 43(23):5813-5836. 2024 Dec
 9. Weiss U, Mungo E, Haß M, Benning D, Gurke R, Hahnefeld L, Dorochow E, Schlaudraff J, Schmid T, Kuntschar S, Meyer S, Medert R, **Freichel M**, Geisslinger G, Niederberger E. Knock-Out of IKKepsilon Ameliorates Atherosclerosis and Fatty Liver Disease by Alterations of Lipid Metabolism in the PCSK9 Model in Mice. *Int J Mol Sci* 25(19):10721. 2024 Oct 5
 10. Krukenberg S, Möckl F, Weiß M, Dekiert P, Hofmann M, Gerlach F, Winterberg KJ, Kovacevic D, Khansahib I, Troost B, Hinrichs M, Granato V, Nawrocki M, Hub T, Tsvilovskyy V, Medert R, Woelk LM, Förster F, Li H, Werner R, Altfeld M, Huber S, Clarke OB, **Freichel M**, Diercks BP, Meier C, Guse AH. MASTER-NAADP: a membrane permeable precursor of the Ca^{2+} mobilizing second messenger NAADP. *Nat Commun* 15(1):8008. 2024 Sep 13
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