Mike Althaus

List of Publications by Year
in descending order

38 papers	1,134 citations	430442 18 h-index	395343 33 g-index
42 all docs	42 docs citations	42 times ranked	1607 citing authors

#	Article	IF	Citations
1	Clinical and molecular characterization of the R751L-CFTR mutation. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2021, 320, L288-L300.	1.3	7
2	The M1 and pre-M1 segments contribute differently to ion selectivity in ASICs and ENaCs. Journal of General Physiology, 2021, 153, .	0.9	5
3	Two Functional Epithelial Sodium Channel Isoforms Are Present in Rodents despite Pronounced Evolutionary Pseudogenization and Exon Fusion. Molecular Biology and Evolution, 2021, 38, 5704-5725.	3.5	9
4	Proteolytic ENaC activation in health and diseaseâ€"a complicated puzzle. Pflugers Archiv European Journal of Physiology, 2021, , 1.	1.3	7
5	Tracheal brush cells release acetylcholine in response to bitter tastants for paracrine and autocrine signaling. FASEB Journal, 2020, 34, 316-332.	0.2	41
6	Evolution of epithelial sodium channels: current concepts and hypotheses. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2020, 319, R387-R400.	0.9	24
7	Trading amino acids at the aphidâ€" <i>Buchnera</i> symbiotic interface. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16003-16011.	3.3	53
8	An extracellular acidic cleft confers profound H+-sensitivity to epithelial sodium channels containing the Î´-subunit in Xenopus laevis. Journal of Biological Chemistry, 2019, 294, 12507-12520.	1.6	12
9	Incorporation of the Î´-subunit into the epithelial sodium channel (ENaC) generates protease-resistant ENaCs in Xenopus laevis. Journal of Biological Chemistry, 2018, 293, 6647-6658.	1.6	20
10	ENaC in Cholinergic Brush Cells. Frontiers in Cell and Developmental Biology, 2018, 6, 89.	1.8	6
11	Evolutionary conservation of the antimicrobial function of mucus: a first defence against infection. Npj Biofilms and Microbiomes, 2018, 4, 14.	2.9	85
12	Hydrogen sulfide stimulates CFTR in Xenopus oocytes by activation of the cAMP/PKA signalling axis. Scientific Reports, 2017, 7, 3517.	1.6	14
13	Caveolin-1: Functional Insights into Its Role in Muscarine- and Serotonin-Induced Smooth Muscle Constriction in Murine Airways. Frontiers in Physiology, 2017, 8, 295.	1.3	7
14	Canonical and Novel Non-Canonical Cholinergic Agonists Inhibit ATP-Induced Release of Monocytic Interleukin-1Î² via Different Combinations of Nicotinic Acetylcholine Receptor Subunits Î±7, Î±9 and Î±10. Frontiers in Cellular Neuroscience, 2017, 11, 189.	1.8	58
15	Epithelial Electrolyte Transport Physiology and the Gasotransmitter Hydrogen Sulfide. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-13.	1.9	25
16	Hydrogen sulfide contributes to hypoxic inhibition of airway transepithelial sodium absorption. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 311, R607-R617.	0.9	13
17	Evans Blue is not a suitable inhibitor of the epithelial sodium channel Î´-subunit. Biochemical and Biophysical Research Communications, 2015, 466, 468-474.	1.0	3
18	Hydrogen sulfide decreases Î²-adrenergic agonist-stimulated lung liquid clearance by inhibiting ENaC-mediated transepithelial sodium absorption. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 308, R636-R649.	0.9	19

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19	Bitter triggers acetylcholine release from polymodal urethral chemosensory cells and bladder reflexes. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8287-8292.	3.3	134
20	Controlling epithelial sodium channels with light using photoswitchable amilorides. Nature Chemistry, 2014, 6, 712-719.	6.6	54
21	Actions of Hydrogen Sulfide on Sodium Transport Processes across Native Distal Lung Epithelia (Xenopus laevis). PLoS ONE, 2014, 9, e100971.	1.1	16
22	Novel small molecule epithelial sodium channel inhibitors as potential therapeutics in cystic fibrosis â€“ a patent evaluation. Expert Opinion on Therapeutic Patents, 2013, 23, 1383-1389.	2.4	11
23	Gasotransmitters: novel regulators of ion channels and transporters. Frontiers in Physiology, 2013, 4, 27.	1.3	10
24	ENaC Inhibitors and Airway Re-hydration in Cystic Fibrosis: State of the Art. Current Molecular Pharmacology, 2013, 6, 3-12.	0.7	54
25	Evaluation of the H 2 S gasotransmitter system as a regulator of transepithelial sodium absorption in native lung epithelia (Xenopus laevis). FASEB Journal, 2013, 27, 1148.9.	0.2	0
26	Why Do We have to Move Fluid to be Able to Breathe?. Frontiers in Physiology, 2012, 3, 146.	1.3	43
27	Differential N termini in epithelial Na⁺channel Î´-subunit isoforms modulate channel trafficking to the membrane. American Journal of Physiology - Cell Physiology, 2012, 302, C868-C879.	2.1	20
28	Thiol-reactive compounds from garlic inhibit the epithelial sodium channel (ENaC). Bioorganic and Medicinal Chemistry, 2012, 20, 3979-3984.	1.4	15
29	Gasotransmitters: Novel Regulators of Epithelial Na+ Transport?. Frontiers in Physiology, 2012, 3, 83.	1.3	21
30	The gasotransmitter hydrogen sulphide decreases Na + transport across lung epithelial cells. FASEB Journal, 2012, 26, 696.6.	0.2	1
31	Amiloride-Sensitive Sodium Channels and Pulmonary Edema. Pulmonary Medicine, 2011, 2011, 1-8.	0.5	46
32	Nitric Oxide Inhibits Highly Selective Sodium Channels and the Na+/K+-ATPase in H441 Cells. American Journal of Respiratory Cell and Molecular Biology, 2011, 44, 53-65.	1.4	36
33	Differential plasma membrane abundance of epithelial sodium channel Î´ subunit splice isoforms. FASEB Journal, 2011, 25, 1041.45.	0.2	0
34	Epithelial Na+ channels derived from human lung are activated by shear force. Respiratory Physiology and Neurobiology, 2010, 170, 113-119.	0.7	42
35	The neuronal-specific SGK1.1 kinase regulates Î´-epithelial Na⁺ channel independently of PY motifs and couples it to phospholipase C signaling. American Journal of Physiology - Cell Physiology, 2010, 299, C779-C790.	2.1	38
36	Carbon Monoxide Rapidly Impairs Alveolar Fluid Clearance by Inhibiting Epithelial Sodium Channels. American Journal of Respiratory Cell and Molecular Biology, 2009, 41, 639-650.	1.4	58

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37	Der Epitheliale Natrium Kanal. 15 Jahre Kanalarbeiten. Biologie in Unserer Zeit, 2009, 39, 320-326.	0.3	1
38	Mechanoâ€sensitivity of epithelial sodium channels (ENaCs): laminar shear stress increases ion channel open probability. FASEB Journal, 2007, 21, 2389-2399.	0.2	121