

Rainer Schreiber

List of Publications by Year in descending order

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papers

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81900

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docs citations

92
times ranked

3951
citing authors

#	ARTICLE	IF	CITATIONS
1	TMEM16A Induces MAPK and Contributes Directly to Tumorigenesis and Cancer Progression. <i>Cancer Research</i> , 2012, 72, 3270-3281.	0.9	252
2	Loss of TMEM16A Causes a Defect in Epithelial Ca ²⁺ -dependent Chloride Transport. <i>Journal of Biological Chemistry</i> , 2009, 284, 28698-28703.	3.4	213
3	Expression and Function of Epithelial Anoctamins. <i>Journal of Biological Chemistry</i> , 2010, 285, 7838-7845.	3.4	194
4	TMEM16 Proteins Produce Volume-regulated Chloride Currents That Are Reduced in Mice Lacking TMEM16A. <i>Journal of Biological Chemistry</i> , 2009, 284, 28571-28578.	3.4	159
5	Anoctamins are a family of Ca ²⁺ activated Cl ⁻ channels. <i>Journal of Cell Science</i> , 2012, 125, 4991-8.	2.0	153
6	Enhanced Expression of ANO1 in Head and Neck Squamous Cell Carcinoma Causes Cell Migration and Correlates with Poor Prognosis. <i>PLoS ONE</i> , 2012, 7, e43265.	2.5	135
7	Calmodulin-dependent activation of the epithelial calcium-dependent chloride channel TMEM16A. <i>FASEB Journal</i> , 2011, 25, 1058-1068.	0.5	129
8	Anoctamin 6 is an essential component of the outwardly rectifying chloride channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 18168-18172.	7.1	129
9	Anoctamin 6 mediates effects essential for innate immunity downstream of P2X7 receptors in macrophages. <i>Nature Communications</i> , 2015, 6, 6245.	12.8	127
10	Bestrophin and TMEM16 are Ca ²⁺ activated Cl ⁻ channels with different functions. <i>Cell Calcium</i> , 2009, 46, 233-241.	2.4	108
11	Bestrophin 1 is indispensable for volume regulation in human retinal pigment epithelium cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E2630-9.	7.1	108
12	Anoctamins. <i>Pflügers Archiv European Journal of Physiology</i> , 2011, 462, 195-208.	2.8	103
13	Modulation of Ca ²⁺ -Activated Cl ⁻ Secretion by Basolateral K ⁺ Channels in Human Normal and Cystic Fibrosis Airway Epithelia. <i>Pediatric Research</i> , 2003, 53, 608-618.	2.3	101
14	Epithelial Chloride Transport by CFTR Requires TMEM16A. <i>Scientific Reports</i> , 2017, 7, 12397.	3.3	100
15	Molecular functions of anoctamin 6 (TMEM16F): a chloride channel, cation channel, or phospholipid scramblase?. <i>Pflügers Archiv European Journal of Physiology</i> , 2014, 466, 407-414.	2.8	93
16	Differential effects of anoctamins on intracellular calcium signals. <i>FASEB Journal</i> , 2017, 31, 2123-2134.	0.5	91
17	Role of anoctamins in cancer and apoptosis. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130096.	4.0	88
18	Bestrophin-1 Enables Ca ²⁺ -activated Cl ⁻ Conductance in Epithelia. <i>Journal of Biological Chemistry</i> , 2009, 284, 29405-29412.	3.4	82

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19	TMEM16A is indispensable for basal mucus secretion in airways and intestine. <i>FASEB Journal</i> , 2019, 33, 4502-4512.	0.5	76
20	ER-localized bestrophin 1 activates Ca ²⁺ -dependent ion channels TMEM16A and SK4 possibly by acting as a counterion channel. <i>Pflugers Archiv European Journal of Physiology</i> , 2010, 459, 485-497.	2.8	75
21	Anoctamin 1 induces calcium-activated chloride secretion and proliferation of renal cyst-forming epithelial cells. <i>Kidney International</i> , 2014, 85, 1058-1067.	5.2	71
22	P2Y6 receptor mediates colonic NaCl secretion via differential activation of cAMP-mediated transport. <i>Journal of Clinical Investigation</i> , 2003, 111, 371-379.	8.2	69
23	Anoctamins support calcium-dependent chloride secretion by facilitating calcium signaling in adult mouse intestine. <i>Pflugers Archiv European Journal of Physiology</i> , 2015, 467, 1203-1213.	2.8	67
24	Lipid Peroxidation Drives Renal Cyst Growth In Vitro through Activation of TMEM16A. <i>Journal of the American Society of Nephrology: JASN</i> , 2019, 30, 228-242.	6.1	63
25	Calcium-dependent chloride conductance in epithelia: is there a contribution by Bestrophin?. <i>Pflugers Archiv European Journal of Physiology</i> , 2007, 454, 879-889.	2.8	62
26	Regulation of TMEM16A/ANO1 and TMEM16F/ANO6 ion currents and phospholipid scrambling by Ca ²⁺ and plasma membrane lipid. <i>Journal of Physiology</i> , 2018, 596, 217-229.	2.9	61
27	The calcium-activated chloride channel Anoctamin 1 contributes to the regulation of renal function. <i>Kidney International</i> , 2014, 85, 1369-1381.	5.2	60
28	Contribution of Anoctamins to Cell Survival and Cell Death. <i>Cancers</i> , 2019, 11, 382.	3.7	60
29	TMEM16A in Cystic Fibrosis: Activating or Inhibiting?. <i>Frontiers in Pharmacology</i> , 2019, 10, 3.	3.5	59
30	Niclosamide repurposed for the treatment of inflammatory airway disease. <i>JCI Insight</i> , 2019, 4, .	5.0	58
31	Hypoxia-Inducible Factor-1 α Causes Renal Cyst Expansion through Calcium-Activated Chloride Secretion. <i>Journal of the American Society of Nephrology: JASN</i> , 2014, 25, 465-474.	6.1	57
32	Role of the Ca ²⁺ -activated Cl ⁻ channels bestrophin and anoctamin in epithelial cells. <i>Biological Chemistry</i> , 2011, 392, 125-34.	2.5	56
33	Expression and function of epithelial anoctamins. <i>Experimental Physiology</i> , 2012, 97, 184-192.	2.0	56
34	Modulating Ca ²⁺ signals: a common theme for TMEM16, Ist2, and TMC. <i>Pflugers Archiv European Journal of Physiology</i> , 2016, 468, 475-490.	2.8	56
35	Survival protein anoctamin α 6 controls multiple platelet responses including phospholipid scrambling, swelling, and protein cleavage. <i>FASEB Journal</i> , 2016, 30, 727-737.	0.5	52
36	Cellular volume regulation by anoctamin 6: Ca ²⁺ , phospholipase A2 and osmosensing. <i>Pflugers Archiv European Journal of Physiology</i> , 2016, 468, 335-349.	2.8	50

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37	A Coding Variant of ANO10, Affecting Volume Regulation of Macrophages, Is Associated with Borrelia Seropositivity. <i>Molecular Medicine</i> , 2015, 21, 26-37.	4.4	49
38	Purinergic P2Y ₆ Receptors Induce Ca ²⁺ and CFTR Dependent Cl ⁻ Secretion in Mouse Trachea. <i>Cellular Physiology and Biochemistry</i> , 2005, 16, 99-108.	1.6	48
39	Contribution of TMEM16F to pyroptotic cell death. <i>Cell Death and Disease</i> , 2018, 9, 300.	6.3	48
40	Cyst growth in ADPKD is prevented by pharmacological and genetic inhibition of TMEM16A in vivo. <i>Nature Communications</i> , 2020, 11, 4320.	12.8	46
41	Cellular defects by deletion of ANO10 are due to deregulated local calcium signaling. <i>Cellular Signalling</i> , 2017, 30, 41-49.	3.6	45
42	Cl ⁻ channels in apoptosis. <i>European Biophysics Journal</i> , 2016, 45, 599-610.	2.2	41
43	Compartmentalized crosstalk of CFTR and TMEM16A (ANO1) through EPAC1 and ADCY1. <i>Cellular Signalling</i> , 2018, 44, 10-19.	3.6	41
44	Pharmacological Inhibition and Activation of the Ca ²⁺ Activated Cl ⁻ Channel TMEM16A. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2557.	4.1	41
45	Differential contribution of SLC26A9 to Cl ⁻ conductance in polarized and non-polarized epithelial cells. <i>Journal of Cellular Physiology</i> , 2012, 227, 2323-2329.	4.1	40
46	Ca ²⁺ signals, cell membrane disintegration, and activation of TMEM16F during necroptosis. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 173-181.	5.4	39
47	Bestrophin 1 Promotes Epithelial-to-mesenchymal Transition of Renal Collecting Duct Cells. <i>Journal of the American Society of Nephrology: JASN</i> , 2009, 20, 1556-1564.	6.1	38
48	CFTR is activated through stimulation of purinergic P2Y2 receptors. <i>Pflügers Archiv European Journal of Physiology</i> , 2009, 457, 1373-1380.	2.8	38
49	Control of TMEM16A by INO ⁴⁹⁹⁵ and other inositolphosphates. <i>British Journal of Pharmacology</i> , 2013, 168, 253-265.	5.4	37
50	Non-essential contribution of LRRC8A to volume regulation. <i>Pflügers Archiv European Journal of Physiology</i> , 2016, 468, 805-816.	2.8	36
51	Airway epithelial cells – Functional links between CFTR and anoctamin dependent Cl ⁻ secretion. <i>International Journal of Biochemistry and Cell Biology</i> , 2012, 44, 1897-1900.	2.8	35
52	Anoctamin-6 Controls Bone Mineralization by Activating the Calcium Transporter NCX1. <i>Journal of Biological Chemistry</i> , 2015, 290, 6270-6280.	3.4	35
53	TMEM16F/Anoctamin 6 in Ferroptotic Cell Death. <i>Cancers</i> , 2019, 11, 625.	3.7	35
54	Impaired Renal HCO ₃ ⁻ Excretion in Cystic Fibrosis. <i>Journal of the American Society of Nephrology: JASN</i> , 2020, 31, 1711-1727.	6.1	35

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55	Mechanisms for the inhibition of amiloride-sensitive Na ⁺ absorption by extracellular nucleotides in mouse trachea. <i>Pflügers Archiv European Journal of Physiology</i> , 2002, 444, 220-226.	2.8	33
56	F508del-CFTR increases intracellular Ca ²⁺ signaling that causes enhanced calcium-dependent Cl ⁻ conductance in cystic fibrosis. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2011, 1812, 1385-1392.	3.8	32
57	CFTR supports cell death through ROS-dependent activation of TMEM16F (anoctamin 6). <i>Pflügers Archiv European Journal of Physiology</i> , 2018, 470, 305-314.	2.8	32
58	Plasma membrane-localized TMEM16 proteins are indispensable for expression of CFTR. <i>Journal of Molecular Medicine</i> , 2019, 97, 711-722.	3.9	31
59	Flagellin of <i>Pseudomonas aeruginosa</i> inhibits Na ⁺ transport in airway epithelia. <i>FASEB Journal</i> , 2006, 20, 545-546.	0.5	30
60	Relationship between TMEM16A/anoctamin 1 and LRRC8A. <i>Pflügers Archiv European Journal of Physiology</i> , 2016, 468, 1751-1763.	2.8	29
61	Involvement of Ca ²⁺ Activated Cl ⁻ Channel Ano6 in Platelet Activation and Apoptosis. <i>Cellular Physiology and Biochemistry</i> , 2015, 37, 1934-1944.	1.6	25
62	P2Y2R is a direct target of HIF-1 α and mediates secretion-dependent cyst growth of renal cyst-forming epithelial cells. <i>Purinergic Signalling</i> , 2016, 12, 687-695.	2.2	25
63	TMEM16A Mediates Mucus Production in Human Airway Epithelial Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2021, 64, 50-58.	2.9	25
64	Anoctamin-6 regulates ADAM sheddase function. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2018, 1865, 1598-1610.	4.1	24
65	Allergen-induced airway hyperresponsiveness is absent in ecto-5 α -nucleotidase (CD73)-deficient mice. <i>Pflügers Archiv European Journal of Physiology</i> , 2008, 457, 431-440.	2.8	23
66	TMC8 (EVER2) attenuates intracellular signaling by Zn ²⁺ and Ca ²⁺ and suppresses activation of Cl ⁻ currents. <i>Cellular Signalling</i> , 2014, 26, 2826-2833.	3.6	22
67	A novel microscopy-based assay identifies extended synaptotagmin-1 (ESYT1) as a positive regulator of anoctamin 1 traffic. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2018, 1865, 421-431.	4.1	19
68	Functional assembly and purinergic activation of bestrophins. <i>Pflügers Archiv European Journal of Physiology</i> , 2009, 458, 431-441.	2.8	17
69	Transport properties in CFTR ^{-/-} knockout piglets suggest normal airway surface liquid pH and enhanced amiloride-sensitive Na ⁺ absorption. <i>Pflügers Archiv European Journal of Physiology</i> , 2020, 472, 1507-1519.	2.8	17
70	<i>P. aeruginosa</i> Induced Lipid Peroxidation Causes Ferroptotic Cell Death in Airways. <i>Cellular Physiology and Biochemistry</i> , 2021, 55, 590-604.	1.6	17
71	Glucose promotes secretion-dependent renal cyst growth. <i>Journal of Molecular Medicine</i> , 2016, 94, 107-117.	3.9	16
72	CLCA1 Regulates Airway Mucus Production and Ion Secretion Through TMEM16A. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5133.	4.1	16

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73	The molecular mechanism of CFTR and secretin-dependent renal bicarbonate excretion. <i>Journal of Physiology</i> , 2021, 599, 3003-3011.	2.9	15
74	Mucus Release and Airway Constriction by TMEM16A May Worsen Pathology in Inflammatory Lung Disease. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7852.	4.1	15
75	Regulation of TMEM16A by CK2 and Its Role in Cellular Proliferation. <i>Cells</i> , 2020, 9, 1138.	4.1	13
76	TMEM16A drives renal cyst growth by augmenting Ca ²⁺ signaling in M1 cells. <i>Journal of Molecular Medicine</i> , 2020, 98, 659-671.	3.9	13
77	Expression of anoctamins in retinal pigment epithelium (RPE). <i>Pflugers Archiv European Journal of Physiology</i> , 2016, 468, 1921-1929.	2.8	12
78	Targeting of Intracellular TMEM16 Proteins to the Plasma Membrane and Activation by Purinergic Signaling. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4065.	4.1	11
79	TMEM16A deficiency: a potentially fatal neonatal disease resulting from impaired chloride currents. <i>Journal of Medical Genetics</i> , 2021, 58, 247-253.	3.2	10
80	Gender-Dependent Phenotype in Polycystic Kidney Disease Is Determined by Differential Intracellular Ca ²⁺ Signals. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6019.	4.1	10
81	The chloride channel CFTR is not required for cyst growth in an ADPKD mouse model. <i>FASEB Journal</i> , 2021, 35, e21897.	0.5	9
82	IRAG2 Interacts with IP3-Receptor Types 1, 2, and 3 and Regulates Intracellular Ca ²⁺ in Murine Pancreatic Acinar Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13409.	4.1	9
83	Loss of PKD1 and PKD2 share common effects on intracellular Ca ²⁺ signaling. <i>Cell Calcium</i> , 2021, 97, 102413.	2.4	8
84	Expression of SLC26A9 in Airways and Its Potential Role in Asthma. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2998.	4.1	8
85	Airway Delivery of Hydrogel-Encapsulated Niclosamide for the Treatment of Inflammatory Airway Disease. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1085.	4.1	7
86	Chloride secretion, anoctamin 1 and Ca ²⁺ signaling. <i>Channels</i> , 2014, 8, 387-388.	2.8	6
87	Ca ²⁺ Dependence of Volume-Regulated VRAC/LRRC8 and TMEM16A Cl ⁻ Channels. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 596879.	3.7	6
88	Influence of Anoctamin-4 and -9 on ADAM10 and ADAM17 Sheddase Function. <i>Membranes</i> , 2022, 12, 123.	3.0	6
89	Regulation and Function of TMEM16F in Renal Podocytes. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1798.	4.1	5
90	Calmodulin-Dependent Regulation of Overexpressed but Not Endogenous TMEM16A Expressed in Airway Epithelial Cells. <i>Membranes</i> , 2021, 11, 723.	3.0	5

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91	GABA, but Not Bestrophin-1, Is Localized in Astroglial Processes in the Mouse Hippocampus and the Cerebellum. <i>Frontiers in Molecular Neuroscience</i> , 2020, 13, 135.	2.9	4