Karl Kunzelmann

List of Publications by Year
in descending order

190 papers	10,457 citations	26630 56 h-index	45317 90 g-index
193 all docs	193 docs citations	193 times ranked	8968 citing authors

#	Article	IF	Citations
1	Electrolyte Transport in the Mammalian Colon: Mechanisms and Implications for Disease. Physiological Reviews, 2002, 82, 245-289.	28.8	582
2	Ion Channels and Cancer. Journal of Membrane Biology, 2005, 205, 159-173.	2.1	395
3	Podocin and MEC-2 bind cholesterol to regulate the activity of associated ion channels. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 17079-17086.	7.1	262
4	TMEM16A Induces MAPK and Contributes Directly to Tumorigenesis and Cancer Progression. Cancer Research, 2012, 72, 3270-3281.	0.9	252
5	Loss of TMEM16A Causes a Defect in Epithelial Ca2+-dependent Chloride Transport. Journal of Biological Chemistry, 2009, 284, 28698-28703.	3.4	213
6	Expression and Function of Epithelial Anoctamins. Journal of Biological Chemistry, 2010, 285, 7838-7845.	3.4	194
7	TMEM16 Proteins Produce Volume-regulated Chloride Currents That Are Reduced in Mice Lacking TMEM16A. Journal of Biological Chemistry, 2009, 284, 28571-28578.	3.4	159
8	Characteristics of apical chloride channels in human colon cells (HT29). Pflugers Archiv European Journal of Physiology, 1987, 410, 487-494.	2.8	158
9	Anoctamins are a family of Ca2+ activated Clâ˜ channels. Journal of Cell Science, 2012, 125, 4991-8.	2.0	153
10	Enhanced Expression of ANO1 in Head and Neck Squamous Cell Carcinoma Causes Cell Migration and Correlates with Poor Prognosis. PLoS ONE, 2012, 7, e43265.	2.5	135
11	Phosphatidylserine exposure is required for ADAM17 sheddase function. Nature Communications, 2016, 7, 11523.	12.8	134
12	Molecular targeting of CFTR as a therapeutic approach to cystic fibrosis. Trends in Pharmacological Sciences, 2007, 28, 334-341.	8.7	133
13	Expression of Voltage-Gated Potassium Channels in Human and Mouse Colonic Carcinoma. Clinical Cancer Research, 2007, 13, 824-831.	7.0	132
14	CFTR Clâ˜ channel function in native human colon correlates with the genotype and phenotype in cystic fibrosis. Gastroenterology, 2004, 127, 1085-1095.	1.3	130
15	Calmodulinâ€dependent activation of the epithelial calciumâ€dependent chloride channel TMEM16A. FASEB Journal, 2011, 25, 1058-1068.	0.5	129
16	Anoctamin 6 is an essential component of the outwardly rectifying chloride channel. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18168-18172.	7.1	129
17	Anoctamin 6 mediates effects essential for innate immunity downstream of P2X7 receptors in macrophages. Nature Communications, 2015, 6, 6245.	12.8	127
18	Targeted replacement of normal and mutant CFTR sequences in human airway epithelial cells using DNA fragments. Human Molecular Genetics, 1998, 7, 1913-1919.	2.9	122

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19	Properties and regulation of chloride channels in cystic fibrosis and normal airway cells. Pflugers Archiv European Journal of Physiology, 1989, 415, 172-182.	2.8	108
20	Bestrophin and TMEM16â€"Ca2+ activated Clâ^' channels with different functions. Cell Calcium, 2009, 46, 233-241.	2.4	108
21	Bestrophin 1 is indispensable for volume regulation in human retinal pigment epithelium cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E2630-9.	7.1	108
22	14-3-3 Interacts with Regulator of G Protein Signaling Proteins and Modulates Their Activity. Journal of Biological Chemistry, 2000, 275, 28167-28172.	3.4	104
23	Anoctamins. Pflugers Archiv European Journal of Physiology, 2011, 462, 195-208.	2.8	103
24	The Cystic Fibrosis Transmembrane Conductance Regulator Activates Aquaporin 3 in Airway Epithelial Cells. Journal of Biological Chemistry, 1999, 274, 11811-11816.	3.4	102
25	Modulation of Ca2+-Activated Clâ^' Secretion by Basolateral K+ Channels in Human Normal and Cystic Fibrosis Airway Epithelia. Pediatric Research, 2003, 53, 608-618.	2.3	101
26	Drug Repurposing: The Anthelmintics Niclosamide and Nitazoxanide Are Potent TMEM16A Antagonists That Fully Bronchodilate Airways. Frontiers in Pharmacology, 2019, 10, 51.	3.5	101
27	Epithelial Chloride Transport by CFTR Requires TMEM16A. Scientific Reports, 2017, 7, 12397.	3.3	100
28	The Î"F508 mutation results in loss of CFTR function and mature protein in native human colon. Gastroenterology, 2004, 126, 32-41.	1.3	95
29	Disruption of the K+ Channel Î²-Subunit KCNE3 Reveals an Important Role in Intestinal and Tracheal Clâ^' Transport. Journal of Biological Chemistry, 2010, 285, 7165-7175.	3.4	95
30	Rotavirus toxin NSP4 induces diarrhea by activation of TMEM16A and inhibition of Na+ absorption. Pflugers Archiv European Journal of Physiology, 2011, 461, 579-589.	2.8	94
31	Molecular functions of anoctamin 6 (TMEM16F): a chloride channel, cation channel, or phospholipid scramblase?. Pflugers Archiv European Journal of Physiology, 2014, 466, 407-414.	2.8	93
32	Differential effects of anoctamins on intracellular calcium signals. FASEB Journal, 2017, 31, 2123-2134.	0.5	91
33	Role of anoctamins in cancer and apoptosis. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130096.	4.0	88
34	Voltageâ€gated K channels support proliferation of colonic carcinoma cells. FASEB Journal, 2007, 21, 35-44.	0.5	86
35	The cystic fibrosis transmembrane conductance regulator (CFTR) inhibits ENaC through an increase in the intracellular Clâ^'concentration. EMBO Reports, 2001, 2, 1047-1051.	4.5	84
36	Role of KCNMA1 in Breast Cancer. PLoS ONE, 2012, 7, e41664.	2.5	83

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37	Bestrophin-1 Enables Ca2+-activated Clâ^' Conductance in Epithelia. Journal of Biological Chemistry, 2009, 284, 29405-29412.	3.4	82
38	Functional Properties of the Type-3 InsP3 Receptor in 16HBE14oâ^' Bronchial Mucosal Cells. Journal of Biological Chemistry, 1998, 273, 8983-8986.	3.4	81
39	Ion channels in regulated cell death. Cellular and Molecular Life Sciences, 2016, 73, 2387-2403.	5.4	78
40	TMEM16, LRRC8A, bestrophin: chloride channels controlled by Ca2+ and cell volume. Trends in Biochemical Sciences, 2015, 40, 535-543.	7.5	76
41	TMEM16A is indispensable for basal mucus secretion in airways and intestine. FASEB Journal, 2019, 33, 4502-4512.	0.5	76
42	ER-localized bestrophin 1 activates Ca2+-dependent ion channels TMEM16A and SK4 possibly by acting as a counterion channel. Pflugers Archiv European Journal of Physiology, 2010, 459, 485-497.	2.8	75
43	<scp>CFTR</scp>: a hub for kinases and crosstalk of c<scp>AMP</scp> and <scp>C</scp>a²⁺. FEBS Journal, 2013, 280, 4417-4429.	4.7	73
44	Mechanistic Insight into Control of CFTR by AMPK. Journal of Biological Chemistry, 2009, 284, 5645-5653.	3.4	72
45	Anoctamin 1 induces calcium-activated chloride secretion and proliferation of renal cystâ€"forming epithelial cells. Kidney International, 2014, 85, 1058-1067.	5.2	71
46	Assessment of CFTR function in rectal biopsies for the diagnosis of cystic fibrosis. Journal of Cystic Fibrosis, 2004, 3, 165-169.	0.7	69
47	Anoctamins support calcium-dependent chloride secretion by facilitating calcium signaling in adult mouse intestine. Pflugers Archiv European Journal of Physiology, 2015, 467, 1203-1213.	2.8	67
48	Bicarbonate in cystic fibrosis. Journal of Cystic Fibrosis, 2017, 16, 653-662.	0.7	66
49	CFTR: Interacting With Everything?. Physiology, 2001, 16, 167-170.	3.1	65
50	AMPK controls epithelial Na+ channels through Nedd4-2 and causes an epithelial phenotype when mutated. Pflugers Archiv European Journal of Physiology, 2009, 458, 713-721.	2.8	64
51	CFTR and TMEM16A are Separate but Functionally Related Cl⁻ Channels. Cellular Physiology and Biochemistry, 2011, 28, 715-724.	1.6	64
52	HIF-1Î± promotes cyst progression in a mouse model of autosomal dominant polycystic kidney disease. Kidney International, 2018, 94, 887-899.	5.2	63
53	Lipid Peroxidation Drives Renal Cyst Growth In Vitro through Activation of TMEM16A. Journal of the American Society of Nephrology: JASN, 2019, 30, 228-242.	6.1	63
54	Calcium-dependent chloride conductance in epithelia: is there a contribution by Bestrophin?. Pflugers Archiv European Journal of Physiology, 2007, 454, 879-889.	2.8	62

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55	Mechanisms of the inhibition of epithelial Na+ channels by CFTR and purinergic stimulation. Kidney International, 2001, 60, 455-461.	5.2	61
56	Regulation of TMEM16A/ANO1 and TMEM16F/ANO6 ion currents and phospholipid scrambling by Ca²⁺ and plasma membrane lipid. Journal of Physiology, 2018, 596, 217-229.	2.9	61
57	The calcium-activated chloride channel Anoctamin 1 contributes to the regulation of renal function. Kidney International, 2014, 85, 1369-1381.	5.2	60
58	Contribution of Anoctamins to Cell Survival and Cell Death. Cancers, 2019, 11, 382.	3.7	60
59	TMEM16A in Cystic Fibrosis: Activating or Inhibiting?. Frontiers in Pharmacology, 2019, 10, 3.	3.5	59
60	Cl Transport in Complemented CF Bronchial Epithelial Cells Correlates with CFTR mRNA Expression Levels. Cellular Physiology and Biochemistry, 2008, 22, 057-068.	1.6	58
61	Niclosamide repurposed for the treatment of inflammatory airway disease. JCI Insight, 2019, 4, .	5.0	58
62	Hypoxia-Inducible Factor-1Î± Causes Renal Cyst Expansion through Calcium-Activated Chloride Secretion. Journal of the American Society of Nephrology: JASN, 2014, 25, 465-474.	6.1	57
63	Role of the Ca2+-activated Cl- channels bestrophin and anoctamin in epithelial cells. Biological Chemistry, 2011, 392, 125-34.	2.5	56
64	Expression and function of epithelial anoctamins. Experimental Physiology, 2012, 97, 184-192.	2.0	56
65	Modulating Ca2+ signals: a common theme for TMEM16, Ist2, and TMC. Pflugers Archiv European Journal of Physiology, 2016, 468, 475-490.	2.8	56
66	Simultaneous recording of the cell membrane potential and properties of the cell attached membrane of HT29 colon carcinoma and CF-PAC cells. Pflugers Archiv European Journal of Physiology, 1991, 419, 209-211.	2.8	55
67	Control of Cystic Fibrosis Transmembrane Conductance Regulator Expression by BAP31. Journal of Biological Chemistry, 2001, 276, 20340-20345.	3.4	55
68	Bestrophin 1 and 2 are components of the Ca2+ activated Clâ^' conductance in mouse airways. Biochimica Et Biophysica Acta - Molecular Cell Research, 2008, 1783, 1993-2000.	4.1	55
69	Protein Traffic Disorders: an Effective High-Throughput Fluorescence Microscopy Pipeline for Drug Discovery. Scientific Reports, 2015, 5, 9038.	3.3	55
70	Clâ€“ Interference with the Epithelial Na+ Channel ENaC. Journal of Biological Chemistry, 2005, 280, 31587-31594.	3.4	53
71	Escherichia coli Î±-Hemolysin Triggers Shrinkage of Erythrocytes via KCa3.1 and TMEM16A Channels with Subsequent Phosphatidylserine Exposure. Journal of Biological Chemistry, 2010, 285, 15557-15565.	3.4	53
72	Aquaporin 3 cloned from Xenopus laevis is regulated by the cystic fibrosis transmembrane conductance regulator. FEBS Letters, 2000, 475, 291-295.	2.8	52

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73	ENaC is inhibited by an increase in the intracellular Clâ€“ concentration mediated through activation of Clâ€“ channels. Pflugers Archiv European Journal of Physiology, 2003, 445, 504-512.	2.8	52
74	Pharmacotherapy of the Ion Transport Defect in Cystic Fibrosis. Treatments in Respiratory Medicine, 2003, 2, 299-309.	1.2	52
75	Measurements of CFTR-Mediated Clâ˜ Secretion in Human Rectal Biopsies Constitute a Robust Biomarker for Cystic Fibrosis Diagnosis and Prognosis. PLoS ONE, 2012, 7, e47708.	2.5	52
76	Survival protein anoctaminâ€6 controls multiple platelet responses including phospholipid scrambling, swelling, and protein cleavage. FASEB Journal, 2016, 30, 727-737.	0.5	52
77	Eag1 and Bestrophin 1 Are Up-regulated in Fast-growing Colonic Cancer Cells. Journal of Biological Chemistry, 2008, 283, 7421-7428.	3.4	51
78	High-Content siRNA Screen Reveals Global ENaC Regulators and Potential Cystic Fibrosis Therapy Targets. Cell, 2013, 154, 1390-1400.	28.9	50
79	Cellular volume regulation by anoctamin 6: Ca2+, phospholipase A2 and osmosensing. Pflugers Archiv European Journal of Physiology, 2016, 468, 335-349.	2.8	50
80	Phenytoin inhibits necroptosis. Cell Death and Disease, 2018, 9, 359.	6.3	50
81	A Coding Variant of ANO10, Affecting Volume Regulation of Macrophages, Is Associated with Borrelia Seropositivity. Molecular Medicine, 2015, 21, 26-37.	4.4	49
82	Purinergic P2Y₆ Receptors Induce Ca²⁺ and CFTR Dependent Cl⁻ Secretion in Mouse Trachea. Cellular Physiology and Biochemistry, 2005, 16, 99-108.	1.6	48
83	Contribution of TMEM16F to pyroptotic cell death. Cell Death and Disease, 2018, 9, 300.	6.3	48
84	ADAM10 sheddase activation is controlled by cell membrane asymmetry. Journal of Molecular Cell Biology, 2019, 11, 979-993.	3.3	48
85	An Extract from the Medicinal Plant Phyllanthus acidus and Its Isolated Compounds Induce Airway Chloride Secretion: A Potential Treatment for Cystic Fibrosis. Molecular Pharmacology, 2007, 71, 366-376.	2.3	46
86	Cyst growth in ADPKD is prevented by pharmacological and genetic inhibition of TMEM16A in vivo. Nature Communications, 2020, 11, 4320.	12.8	46
87	Correction of the CF defect by curcumin: hypes and disappointments. BioEssays, 2005, 27, 9-13.	2.5	45
88	TMEM16F-Mediated Platelet Membrane Phospholipid Scrambling Is Critical for Hemostasis and Thrombosis but not Thromboinflammation in Miceâ€"Brief Report. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 2152-2157.	2.4	45
89	Cellular defects by deletion of ANO10 are due to deregulated local calcium signaling. Cellular Signalling, 2017, 30, 41-49.	3.6	45
90	Ion Transport Induced by Proteinase-Activated Receptors (PAR2) in Colon and Airways. Cell Biochemistry and Biophysics, 2002, 36, 209-214.	1.8	43

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91	Expression and Functional Significance of the Ca²⁺-Activated Cl⁻Channel ANO6 in Dendritic Cells. Cellular Physiology and Biochemistry, 2012, 30, 1319-1332.	1.6	43
92	Clâ˜' channels in apoptosis. European Biophysics Journal, 2016, 45, 599-610.	2.2	41
93	Compartmentalized crosstalk of CFTR and TMEM16A (ANO1) through EPAC1 and ADCY1. Cellular Signalling, 2018, 44, 10-19.	3.6	41
94	Pharmacological Inhibition and Activation of the Ca2+ Activated Clâ˜' Channel TMEM16A. International Journal of Molecular Sciences, 2020, 21, 2557.	4.1	41
95	Control of ion transport in mammalian airways by protease activated receptors type 2 (PARâ€2). FASEB Journal, 2005, 19, 969-970.	0.5	40
96	Differential contribution of SLC26A9 to Cl^{â˜'} conductance in polarized and nonâ€polarized epithelial cells. Journal of Cellular Physiology, 2012, 227, 2323-2329.	4.1	40
97	Cystic Fibrosis Transmembrane Conductance Regulator Inhibits Epithelial Na+ Channels Carrying Liddle's Syndrome Mutations. Journal of Biological Chemistry, 1999, 274, 13894-13899.	3.4	39
98	Contribution of Casein Kinase 2 and Spleen Tyrosine Kinase to CFTR Trafficking and Protein Kinase A-Induced Activity. Molecular and Cellular Biology, 2011, 31, 4392-4404.	2.3	39
99	Ca2+ signals, cell membrane disintegration, and activation of TMEM16F during necroptosis. Cellular and Molecular Life Sciences, 2017, 74, 173-181.	5.4	39
100	Acute Effects of Parainfluenza Virus on Epithelial Electrolyte Transport. Journal of Biological Chemistry, 2004, 279, 48760-48766.	3.4	38
101	Regulation of the Epithelial Na+ Channel by the Protein Kinase CK2. Journal of Biological Chemistry, 2008, 283, 13225-13232.	3.4	38
102	Bestrophin 1 Promotes Epithelial-to-mesenchymal Transition of Renal Collecting Duct Cells. Journal of the American Society of Nephrology: JASN, 2009, 20, 1556-1564.	6.1	38
103	CFTR is activated through stimulation of purinergic P2Y2 receptors. Pflugers Archiv European Journal of Physiology, 2009, 457, 1373-1380.	2.8	38
104	Control of <scp>TMEM16A</scp> by <scp>INO</scp>â€4995 and other inositolphosphates. British Journal of Pharmacology, 2013, 168, 253-265.	5.4	37
105	Non-essential contribution of LRRC8A to volume regulation. Pflugers Archiv European Journal of Physiology, 2016, 468, 805-816.	2.8	36
106	Airway epithelial cellsâ€"Functional links between CFTR and anoctamin dependent Clâ˜' secretion. International Journal of Biochemistry and Cell Biology, 2012, 44, 1897-1900.	2.8	35
107	Anoctamin-6 Controls Bone Mineralization by Activating the Calcium Transporter NCX1. Journal of Biological Chemistry, 2015, 290, 6270-6280.	3.4	35
108	TMEM16F/Anoctamin 6 in Ferroptotic Cell Death. Cancers, 2019, 11, 625.	3.7	35

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109	Impaired Renal HCO3 - Excretion in Cystic Fibrosis. Journal of the American Society of Nephrology: JASN, 2020, 31, 1711-1727.	6.1	35
110	Mechanisms for the inhibition of amiloride-sensitive Na+ absorption by extracellular nucleotides in mouse trachea. Pflugers Archiv European Journal of Physiology, 2002, 444, 220-226.	2.8	33
111	Functional characterization and genomic organization of the human Na+-sulfate cotransporter hNaS2 gene (SLC13A4). Biochemical and Biophysical Research Communications, 2005, 326, 729-734.	2.1	32
112	Inhibition of Protein Kinase CK2 Closes the CFTR Cl⁻ Channel, but has no Effect on the Cystic Fibrosis Mutant Î”F508-CFTR. Cellular Physiology and Biochemistry, 2009, 24, 347-360.	1.6	32
113	Regulation of Clâ¯ secretion by AMPK in vivo. Pflugers Archiv European Journal of Physiology, 2009, 457, 1071-1078.	2.8	32
114	F508del-CFTR increases intracellular Ca2+ signaling that causes enhanced calcium-dependent Clâ¯ conductance in cystic fibrosis. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2011, 1812, 1385-1392.	3.8	32
115	CFTR supports cell death through ROS-dependent activation of TMEM16F (anoctamin 6). Pflugers Archiv European Journal of Physiology, 2018, 470, 305-314.	2.8	32
116	Plasma membraneâ€“localized TMEM16 proteins are indispensable for expression of CFTR. Journal of Molecular Medicine, 2019, 97, 711-722.	3.9	31
117	Flagellin of Pseudomonas aeruginosa inhibits Na + transport in airway epithelia. FASEB Journal, 2006, 20, 545-546.	0.5	30
118	Molecular evolution and functional divergence of the bestrophin protein family. BMC Evolutionary Biology, 2008, 8, 72.	3.2	30
119	Pharmacotherapy Of The Ion Transport Defect In Cystic Fibrosis. Clinical and Experimental Pharmacology and Physiology, 2001, 28, 857-867.	1.9	29
120	Control of Ion Transport in Mouse Proximal and Distal Colon by Prolactin. Cellular Physiology and Biochemistry, 2007, 19, 77-88.	1.6	29
121	Relationship between TMEM16A/anoctamin 1 and LRRC8A. Pflugers Archiv European Journal of Physiology, 2016, 468, 1751-1763.	2.8	29
122	Slc26a11 is prominently expressed in the brain and functions as a chloride channel: expression in Purkinje cells and stimulation of V H+-ATPase. Pflugers Archiv European Journal of Physiology, 2013, 465, 1583-1597.	2.8	28
123	Inhibition of Airway Na + Transport by Respiratory Syncytial Virus. Journal of Virology, 2007, 81, 3714-3720.	3.4	25
124	APC Sensitive Gastric Acid Secretion. Cellular Physiology and Biochemistry, 2009, 23, 133-142.	1.6	25
125	Involvement of Ca2+ Activated Cl- Channel Ano6 in Platelet Activation and Apoptosis. Cellular Physiology and Biochemistry, 2015, 37, 1934-1944.	1.6	25
126	P2Y2R is a direct target of HIF-1Î± and mediates secretion-dependent cyst growth of renal cyst-forming epithelial cells. Purinergic Signalling, 2016, 12, 687-695.	2.2	25

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127	TMEM16A Mediates Mucus Production in Human Airway Epithelial Cells. American Journal of Respiratory Cell and Molecular Biology, 2021, 64, 50-58.	2.9	25
128	Rectal forceps biopsy procedure in cystic fibrosis: technical aspects and patients perspective for clinical trials feasibility. BMC Gastroenterology, 2013, 13, 91.	2.0	24
129	Anoctamin-6 regulates ADAM sheddase function. Biochimica Et Biophysica Acta - Molecular Cell Research, 2018, 1865, 1598-1610.	4.1	24
130	Allergen-induced airway hyperresponsiveness is absent in ecto-5â€²-nucleotidase (CD73)-deficient mice. Pflugers Archiv European Journal of Physiology, 2008, 457, 431-440.	2.8	23
131	TMC8 (EVER2) attenuates intracellular signaling by Zn2+ and Ca2+ and suppresses activation of Clâ^' currents. Cellular Signalling, 2014, 26, 2826-2833.	3.6	22
132	NCX1 represents an ionic Na+ sensing mechanism in macrophages. PLoS Biology, 2020, 18, e3000722.	5.6	22
133	Upregulation of colonic ion channels in APC Min/+ mice. Pflugers Archiv European Journal of Physiology, 2008, 456, 847-855.	2.8	21
134	Polycystin-2 Activity Is Controlled by Transcriptional Coactivator with PDZ Binding Motif and PALS1-associated Tight Junction Protein. Journal of Biological Chemistry, 2010, 285, 33584-33588.	3.4	20
135	A novel microscopy-based assay identifies extended synaptotagmin-1 (ESYT1) as a positive regulator of anoctamin 1 traffic. Biochimica Et Biophysica Acta - Molecular Cell Research, 2018, 1865, 421-431.	4.1	19
136	Functional Genomics Assays to Study CFTR Traffic and ENaC Function. Methods in Molecular Biology, 2011, 742, 249-264.	0.9	19
137	Characterization of Novel Airway Submucosal Gland Cell Models for Cystic Fibrosis. Cellular Physiology and Biochemistry, 2005, 15, 251-262.	1.6	18
138	Getting hands on a drug for Covid-19: Inhaled and Intranasal Niclosamide. Lancet Regional Health - Europe, The, 2021, 4, 100094.	5.6	18
139	The rat Na+â€“sulfate cotransporter rNaS2: functional characterization, tissue distribution, and gene (slc13a4) structure. Pflugers Archiv European Journal of Physiology, 2005, 450, 262-268.	2.8	17
140	Functional assembly and purinergic activation of bestrophins. Pflugers Archiv European Journal of Physiology, 2009, 458, 431-441.	2.8	17
141	Effect of Annexin A5 on CFTR: regulated traffic or scaffolding?. Molecular Membrane Biology, 2011, 28, 14-29.	2.0	17
142	Transport properties in CFTRâ^'/â^' knockout piglets suggest normal airway surface liquid pH and enhanced amiloride-sensitive Na+ absorption. Pflugers Archiv European Journal of Physiology, 2020, 472, 1507-1519.	2.8	17
143	P. aeruginosa Induced Lipid Peroxidation Causes Ferroptotic Cell Death in Airways. Cellular Physiology and Biochemistry, 2021, 55, 590-604.	1.6	17
144	A Disease-causing Mutation Illuminates the Protein Membrane Topology of the Kidney-expressed Prohibitin Homology (PHB) Domain Protein Podocin. Journal of Biological Chemistry, 2014, 289, 11262-11271.	3.4	16

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145	Glucose promotes secretion-dependent renal cyst growth. Journal of Molecular Medicine, 2016, 94, 107-117.	3.9	16
146	CLCA1 Regulates Airway Mucus Production and Ion Secretion Through TMEM16A. International Journal of Molecular Sciences, 2021, 22, 5133.	4.1	16
147	Establishment and Characterization of a Novel Polarized MDCK Epithelial Cellular Model for CFTR Studies. Cellular Physiology and Biochemistry, 2005, 16, 281-290.	1.6	15
148	Molecular cloning and characterization of the mouse Na+ sulfate cotransporter gene (Slc13a4): structure and expression. Genes and Genetic Systems, 2006, 81, 265-272.	0.7	15
149	Airway epithelial cellsâ€"Hyperabsorption in CF?. International Journal of Biochemistry and Cell Biology, 2012, 44, 1232-1235.	2.8	15
150	Control of Ion Transport by Tmem16a Expressed in Murine Intestine. Frontiers in Physiology, 2019, 10, 1262.	2.8	15
151	The molecular mechanism of CFTRâ€•and secretinâ€•dependent renal bicarbonate excretion. Journal of Physiology, 2021, 599, 3003-3011.	2.9	15
152	Mucus Release and Airway Constriction by TMEM16A May Worsen Pathology in Inflammatory Lung Disease. International Journal of Molecular Sciences, 2021, 22, 7852.	4.1	15
153	Regulation of ENaC biogenesis by the stress response protein SERP1. Pflugers Archiv European Journal of Physiology, 2012, 463, 819-827.	2.8	14
154	IADS, a Decomposition Product of DIDS Activates a Cation Conductance in Xenopus Oocytes and Human Erythrocytes: New Compound for the Diagnosis of Cystic Fibrosis. Cellular Physiology and Biochemistry, 2006, 18, 243-252.	1.6	13
155	CFTR mutations altering CFTR fragmentation. Biochemical Journal, 2013, 449, 295-305.	3.7	13
156	Regulation of TMEM16A by CK2 and Its Role in Cellular Proliferation. Cells, 2020, 9, 1138.	4.1	13
157	TMEM16A drives renal cyst growth by augmenting Ca2+ signaling in M1 cells. Journal of Molecular Medicine, 2020, 98, 659-671.	3.9	13
158	Increase in intracellular Cl? concentration by cAMP- and Ca2+-dependent stimulation of M1 collecting duct cells. Pflugers Archiv European Journal of Physiology, 2005, 449, 470-478.	2.8	12
159	Protein Kinase CK2, Cystic Fibrosis Transmembrane Conductance Regulator, and the Î”F508 Mutation. Journal of Biological Chemistry, 2007, 282, 10804-10813.	3.4	12
160	Expression of anoctamins in retinal pigment epithelium (RPE). Pflugers Archiv European Journal of Physiology, 2016, 468, 1921-1929.	2.8	12
161	Nephron-specific knockout of TMEM16A leads to reduced number of glomeruli and albuminuria. American Journal of Physiology - Renal Physiology, 2018, 315, F1777-F1786.	2.7	12
162	Comparative Analysis of Microfluidics Thrombus Formation in Multiple Genetically Modified Mice: Link to Thrombosis and Hemostasis. Frontiers in Cardiovascular Medicine, 2019, 6, 99.	2.4	12

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163	Letter to the Editors. Oligonucleotides, 2004, 14, 157-158.	2.7	11
164	Targeting of Intracellular TMEM16 Proteins to the Plasma Membrane and Activation by Purinergic Signaling. International Journal of Molecular Sciences, 2020, 21, 4065.	4.1	11
165	KLF4 Acts as a wt-CFTR Suppressor through an AKT-Mediated Pathway. Cells, 2020, 9, 1607.	4.1	11
166	Effects of dietary lectins on ion transport in epithelia. British Journal of Pharmacology, 2004, 142, 1219-1226.	5.4	10
167	TMEM16A deficiency: a potentially fatal neonatal disease resulting from impaired chloride currents. Journal of Medical Genetics, 2021, 58, 247-253.	3.2	10
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