Michael J Welsh

List of Publications by Year
in descending order

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292	43,906	1535 106	2178 202
papers	citations	h-index	g-index

298	298	298	24989
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Molecular mechanisms of CFTR chloride channel dysfunction in cystic fibrosis. Cell, 1993, 73, 1251-1254.	28.9	1,383
2	Quorum-sensing signals indicate that cystic fibrosis lungs are infected with bacterial biofilms. Nature, 2000, 407, 762-764.	27.8	1,372
3	Cellular and Molecular Barriers to Gene Transfer by a Cationic Lipid. Journal of Biological Chemistry, 1995, 270, 18997-19007.	3.4	1,299
4	Processing of mutant cystic fibrosis transmembrane conductance regulator is temperature-sensitive. Nature, 1992, 358, 761-764.	27.8	1,193
5	Cystic Fibrosis Airway Epithelia Fail to Kill Bacteria Because of Abnormal Airway Surface Fluid. Cell, 1996, 85, 229-236.	28.9	972
6	Neuroprotection in Ischemia. Cell, 2004, 118, 687-698.	28.9	948
7	A component of innate immunity prevents bacterial biofilm development. Nature, 2002, 417, 552-555.	27.8	923
8	Structure and Function of the CFTR Chloride Channel. Physiological Reviews, 1999, 79, S23-S45.	28.8	863
9	Adenovirus-mediated gene transfer transiently corrects the chloride transport defect in nasal epithelia of patients with cystic fibrosis. Cell, 1993, 75, 207-216.	28.9	754
10	Reduced airway surface pH impairs bacterial killing in the porcine cystic fibrosis lung. Nature, 2012, 487, 109-113.	27.8	691
11	Disruption of the CFTR Gene Produces a Model of Cystic Fibrosis in Newborn Pigs. Science, 2008, 321, 1837-1841.	12.6	686
12	Phosphorylation of the R domain by cAMP-dependent protein kinase regulates the CFTR chloride channel. Cell, 1991, 66, 1027-1036.	28.9	651
13	Expression of cystic fibrosis transmembrane conductance regulator corrects defective chloride channel regulation in cystic fibrosis airway epithelial cells. Nature, 1990, 347, 358-363.	27.8	649
14	The Acid-Activated Ion Channel ASIC Contributes to Synaptic Plasticity, Learning, and Memory. Neuron, 2002, 34, 463-477.	8.1	638
15	Motile Cilia of Human Airway Epithelia Are Chemosensory. Science, 2009, 325, 1131-1134.	12.6	618
16	The DRASIC Cation Channel Contributes to the Detection of Cutaneous Touch and Acid Stimuli in Mice. Neuron, 2001, 32, 1071-1083.	8.1	569
17	Origins of Cystic Fibrosis Lung Disease. New England Journal of Medicine, 2015, 372, 351-362.	27.0	523
18	Nucleoside triphosphates are required to open the CFTR chloride channel. Cell, 1991, 67, 775-784.	28.9	519

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19	Acid-sensing ion channels: advances, questions and therapeutic opportunities. Trends in Neurosciences, 2006, 29, 578-586.	8.6	505
20	The mammalian sodium channel BNC1 is required for normal touch sensation. Nature, 2000, 407, 1007-1011.	27.8	469
21	Discovery of five conserved Î²-defensin gene clusters using a computational search strategy. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 2129-2133.	7.1	464
22	Mutations in CFTR associated with mild-disease-form Cl- channels with altered pore properties. Nature, 1993, 362, 160-164.	27.8	451
23	Cyclic AMP-dependent protein kinase opens chloride channels in normal but not cystic fibrosis airway epithelium. Nature, 1988, 331, 358-360.	27.8	428
24	Cystic Fibrosis Pigs Develop Lung Disease and Exhibit Defective Bacterial Eradication at Birth. Science Translational Medicine, 2010, 2, 29ra31.	12.4	416
25	Mechanism by which Liddle's syndrome mutations increase activity of a human epithelial Na+ channel. Cell, 1995, 83, 969-978.	28.9	415
26	Acid-Sensing Ion Channel 1 Is Localized in Brain Regions with High Synaptic Density and Contributes to Fear Conditioning. Journal of Neuroscience, 2003, 23, 5496-5502.	3.6	415
27	Chronic hyperalgesia induced by repeated acid injections in muscle is abolished by the loss of ASIC3, but not ASIC1. Pain, 2003, 106, 229-239.	4.2	396
28	Chloride and potassium channels in cystic fibrosis airway epithelia. Nature, 1986, 322, 467-470.	27.8	381
29	Acid-sensing ion channel-1 contributes to axonal degeneration in autoimmune inflammation of the central nervous system. Nature Medicine, 2007, 13, 1483-1489.	30.7	373
30	The Amygdala Is a Chemosensor that Detects Carbon Dioxide and Acidosis to Elicit Fear Behavior. Cell, 2009, 139, 1012-1021.	28.9	361
31	Bactericidal Activity of Mammalian Cathelicidin-Derived Peptides. Infection and Immunity, 2000, 68, 2748-2755.	2.2	350
32	Segregation of receptor and ligand regulates activation of epithelial growth factor receptor. Nature, 2003, 422, 322-326.	27.8	348
33	Extracellular acidosis increases neuronal cell calcium by activating acid-sensing ion channel 1a. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 6752-6757.	7.1	348
34	Expression and characterization of the cystic fibrosis transmembrane conductance regulator. Nature, 1990, 347, 382-386.	27.8	337
35	Heteromultimers of DEG/ENaC subunits form H+-gated channels in mouse sensory neurons. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 2338-2343.	7.1	336
36	Adenovirus Fiber Disrupts CAR-Mediated Intercellular Adhesion Allowing Virus Escape. Cell, 2002, 110, 789-799.	28.9	335

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37	Impaired mucus detachment disrupts mucociliary transport in a piglet model of cystic fibrosis. Science, 2014, 345, 818-822.	12.6	332
38	Basolateral Localization of Fiber Receptors Limits Adenovirus Infection from the Apical Surface of Airway Epithelia. Journal of Biological Chemistry, 1999, 274, 10219-10226.	3.4	326
39	Seizure termination by acidosis depends on ASIC1a. Nature Neuroscience, 2008, 11, 816-822.	14.8	325
40	Restoring Cystic Fibrosis Transmembrane Conductance Regulator Function Reduces Airway Bacteria and Inflammation in People with Cystic Fibrosis and Chronic Lung Infections. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 1617-1628.	5.6	317
41	Binding of Adeno-associated Virus Type 5 to 2,3-Linked Sialic Acid Is Required for Gene Transfer. Journal of Biological Chemistry, 2001, 276, 20610-20616.	3.4	304
42	Cloning and Expression of a Novel Human Brain Na+ Channel. Journal of Biological Chemistry, 1996, 271, 7879-7882.	3.4	294
43	Production of CFTR-null and CFTR-Î”F508 heterozygous pigs by adeno-associated virusâ€“mediated gene targeting and somatic cell nuclear transfer. Journal of Clinical Investigation, 2008, 118, 1571-1577.	8.2	294
44	Synergistic and additive killing by antimicrobial factors found in human airway surface liquid. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2000, 279, L799-L805.	2.9	285
45	An In Vitro Model of Differentiated Human Airway Epithelia: Methods for Establishing Primary Cultures. , 2002, 188, 115-137.		284
46	A mouse model for the delta F508 allele of cystic fibrosis.. Journal of Clinical Investigation, 1995, 96, 2051-2064.	8.2	270
47	Inactivation of a Pseudomonas aeruginosa quorum-sensing signal by human airway epithelia. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 3587-3590.	7.1	266
48	Fear and panic in humans with bilateral amygdala damage. Nature Neuroscience, 2013, 16, 270-272.	14.8	256
49	Airway acidification initiates host defense abnormalities in cystic fibrosis mice. Science, 2016, 351, 503-507.	12.6	254
50	Ripped Pocket and Pickpocket, Novel Drosophila DEG/ENaC Subunits Expressed in Early Development and in Mechanosensory Neurons. Journal of Cell Biology, 1998, 140, 143-152.	5.2	253
51	Complexes of Adenovirus with Polycationic Polymers and Cationic Lipids Increase the Efficiency of Gene Transfer in Vitro and in Vivo. Journal of Biological Chemistry, 1997, 272, 6479-6489.	3.4	249
52	Abnormal regulation of ion channels in cystic fibrosis epithelia. FASEB Journal, 1990, 4, 2718-2725.	0.5	246
53	Repeat administration of an adenovirus vector encoding cystic fibrosis transmembrane conductance regulator to the nasal epithelium of patients with cystic fibrosis.. Journal of Clinical Investigation, 1996, 97, 1504-1511.	8.2	246
54	The Two Nucleotide-binding Domains of Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Have Distinct Functions in Controlling Channel Activity. Journal of Biological Chemistry, 1995, 270, 1711-1717.	3.4	238

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55	Safety and efficacy of repetitive adenovirusâ€“mediated transfer of CFTR cDNA to airway epithelia of primates and cotton rats. Nature Genetics, 1994, 6, 75-83.	21.4	234
56	Loss of CFTR Chloride Channels Alters Salt Absorption by Cystic Fibrosis Airway Epithelia In Vitro. Molecular Cell, 1998, 2, 397-403.	9.7	227
57	Protons are a neurotransmitter that regulates synaptic plasticity in the lateral amygdala. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8961-8966.	7.1	227
58	Cystic fibrosis transmembrane conductance regulator: A chloride channel with novel regulation. Neuron, 1992, 8, 821-829.	8.1	226
59	Loss of Anion Transport without Increased Sodium Absorption Characterizes Newborn Porcine Cystic Fibrosis Airway Epithelia. Cell, 2010, 143, 911-923.	28.9	218
60	Electrophysiological and Biochemical Evidence That DEG/ENaC Cation Channels Are Composed of Nine Subunits. Journal of Biological Chemistry, 1998, 273, 681-684.	3.4	215
61	Neuropeptide FF and FMRFamide Potentiate Acid-Evoked Currents from Sensory Neurons and Proton-Gated DEG/ENaC Channels. Neuron, 2000, 26, 133-141.	8.1	213
62	Activity of Abundant Antimicrobials of the Human Airway. American Journal of Respiratory Cell and Molecular Biology, 1999, 20, 872-879.	2.9	211
63	Acidic pH increases airway surface liquid viscosity in cystic fibrosis. Journal of Clinical Investigation, 2016, 126, 879-891.	8.2	207
64	A Molecular Component of the Arterial Baroreceptor Mechanotransducer. Neuron, 1998, 21, 1435-1441.	8.1	206
65	The porcine lung as a potential model for cystic fibrosis. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2008, 295, L240-L263.	2.9	206
66	Lack of high affinity fiber receptor activity explains the resistance of ciliated airway epithelia to adenovirus infection.. Journal of Clinical Investigation, 1997, 100, 1144-1149.	8.2	206
67	Acid-sensing Ion Channel 2 (ASIC2) Modulates ASIC1 H+-activated Currents in Hippocampal Neurons. Journal of Biological Chemistry, 2004, 279, 18296-18305.	3.4	204
68	Overexpression of acid-sensing ion channel 1a in transgenic mice increases acquired fear-related behavior. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 3621-3626.	7.1	199
69	Enhanced Locomotion Caused by Loss of the Drosophila DEG/ENaC Protein Pickpocket1. Current Biology, 2003, 13, 1557-1563.	3.9	186
70	The Ion Channel ASIC2 Is Required for Baroreceptor and Autonomic Control of the Circulation. Neuron, 2009, 64, 885-897.	8.1	186
71	Loss of Cystic Fibrosis Transmembrane Conductance Regulator Function Produces Abnormalities in Tracheal Development in Neonatal Pigs and Young Children. American Journal of Respiratory and Critical Care Medicine, 2010, 182, 1251-1261.	5.6	185
72	Identification of revertants for the cystic fibrosis Î”F508 mutation using STE6-CFTR chimeras in yeast. Cell, 1993, 73, 335-346.	28.9	183

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73	Breathing Inhibited When Seizures Spread to the Amygdala and upon Amygdala Stimulation. Journal of Neuroscience, 2015, 35, 10281-10289.	3.6	180
74	Acid-sensing ion channel 1a is a postsynaptic proton receptor that affects the density of dendritic spines. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 16556-16561.	7.1	178
75	The Î” F508 Mutation Causes CFTR Misprocessing and Cystic Fibrosisâ€“Like Disease in Pigs. Science Translational Medicine, 2011, 3, 74ra24.	12.4	178
76	Drosophila hygrosensation requires the TRP channels water witch and nanchung. Nature, 2007, 450, 294-298.	27.8	177
77	Acid-sensing ion channels contribute to synaptic transmission and inhibit cocaine-evoked plasticity. Nature Neuroscience, 2014, 17, 1083-1091.	14.8	176
78	Development and Analysis of Recombinant Adenoviruses for Gene Therapy of Cystic Fibrosis. Human Gene Therapy, 1993, 4, 461-476.	2.7	170
79	Identification and function of thermosensory neurons in Drosophila larvae. Nature Neuroscience, 2003, 6, 267-273.	14.8	166
80	pH modulates the activity and synergism of the airway surface liquid antimicrobials Î²-defensin-3 and LL-37. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 18703-18708.	7.1	164
81	Contribution of Drosophila DEG/ENaC Genes to Salt Taste. Neuron, 2003, 39, 133-146.	8.1	163
82	Comparison of DNA-lipid complexes and DNA alone for gene transfer to cystic fibrosis airway epithelia in vivo.. Journal of Clinical Investigation, 1997, 100, 1529-1537.	8.2	162
83	Chloride secretion by canine tracheal epithelium: I. Role of intracellular cAMP levels. Journal of Membrane Biology, 1982, 70, 217-226.	2.1	159
84	Enhancing glycolysis attenuates Parkinsonâ€™s disease progression in models and clinical databases. Journal of Clinical Investigation, 2019, 129, 4539-4549.	8.2	159
85	Cystic Fibrosis. Scientific American, 1995, 273, 52-59.	1.0	155
86	A low rate of cell proliferation and reduced DNA uptake limit cationic lipid-mediated gene transfer to primary cultures of ciliated human airway epithelia. Gene Therapy, 1997, 4, 1173-1180.	4.5	150
87	Stimulation of CFTR activity by its phosphorylated R domain. Nature, 1997, 389, 294-296.	27.8	149
88	Chloride secretion by canine tracheal epithelium: II. The cellular electrical potential profile. Journal of Membrane Biology, 1982, 70, 227-238.	2.1	141
89	The ion channel ASIC1 contributes to visceral but not cutaneous mechanoreceptor function. Gastroenterology, 2004, 127, 1739-1747.	1.3	138
90	TRPA channels distinguish gravity sensing from hearing in Johnston's organ. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13606-13611.	7.1	137

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91	Incorporation of adenovirus in calcium phosphate precipitates enhances gene transfer to airway epithelia in vitro and in vivo.. Journal of Clinical Investigation, 1998, 102, 184-193.	8.2	137
92	Pathology of Gastrointestinal Organs in a Porcine Model of Cystic Fibrosis. American Journal of Pathology, 2010, 176, 1377-1389.	3.8	135
93	Antimicrobial peptides and proteins in the innate defense of the airway surface. Current Opinion in Immunology, 2001, 13, 89-95.	5.5	134
94	Detecting activity-evoked pH changes in human brain. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8270-8273.	7.1	134
95	Gel-forming mucins form distinct morphologic structures in airways. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6842-6847.	7.1	132
96	Adeno-associated virusâ€“targeted disruption of the CFTR gene in cloned ferrets. Journal of Clinical Investigation, 2008, 118, 1578-1583.	8.2	132
97	ppk23-Dependent Chemosensory Functions Contribute to Courtship Behavior in Drosophila melanogaster. PLoS Genetics, 2012, 8, e1002587.	3.5	128
98	Interactions between Subunits of the Human Epithelial Sodium Channel. Journal of Biological Chemistry, 1997, 272, 27295-27300.	3.4	126
99	Origins of Cystic Fibrosis Lung Disease. New England Journal of Medicine, 2015, 372, 1574-1575.	27.0	121
100	A severe phenotype in mice with a duplication of exon 3 in the cystic fibrosis locus. Human Molecular Genetics, 1993, 2, 1561-1569.	2.9	118
101	Inhibition of chloride secretion by furosemide in canine tracheal epithelium. Journal of Membrane Biology, 1983, 71, 219-226.	2.1	117
102	The amino-terminal portion of CFTR forms a regulated Clâ^' channel. Cell, 1994, 76, 1091-1098.	28.9	117
103	Gene transfer of CFTR to airway epithelia: low levels of expression are sufficient to correct Clâ^'transport and overexpression can generate basolateral CFTR. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2005, 289, L1123-L1130.	2.9	116
104	Cystic fibrosis transmembrane conductance regulator splice variants are not conserved and fail to produce chloride channels. Nature Genetics, 1993, 4, 426-430.	21.4	115
105	Biochemical Basis of Touch Perception: Mechanosensory Function of Degenerin/Epithelial Na+ Channels. Journal of Biological Chemistry, 2002, 277, 2369-2372.	3.4	114
106	Chemosensory Functions for Pulmonary Neuroendocrine Cells. American Journal of Respiratory Cell and Molecular Biology, 2014, 50, 637-646.	2.9	113
107	The osmolyte xylitol reduces the salt concentration of airway surface liquid and may enhance bacterial killing. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 11614-11619.	7.1	111
108	A microRNA network regulates expression and biosynthesis of wild-type and Î”F508 mutant cystic fibrosis transmembrane conductance regulator. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13362-13367.	7.1	111

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109	Cystic fibrosis carriers are at increased risk for a wide range of cystic fibrosis-related conditions. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1621-1627.	7.1	111
110	Human cystic fibrosis airway epithelia have reduced Cl- conductance but not increased Na+ conductance. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10260-10265.	7.1	110
111	Number of Subunits Comprising the Epithelial Sodium Channel. Journal of Biological Chemistry, 1999, 274, 27281-27286.	3.4	109
112	Intestinal CFTR expression alleviates meconium ileus in cystic fibrosis pigs. Journal of Clinical Investigation, 2013, 123, 2685-2693.	8.2	109
113	Chloride secretion by canine tracheal epithelium: III. Membrane resistances and electromotive forces. Journal of Membrane Biology, 1983, 71, 209-218.	2.1	106
114	Adenovirus-Mediated Gene Transfer In Vivo to Cerebral Blood Vessels and Perivascular Tissue. Circulation Research, 1995, 77, 7-13.	4.5	106
115	Processing and function of CFTR-Î”F508 are species-dependent. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 15370-15375.	7.1	105
116	Loss of Bardetâ€“Biedl syndrome proteins alters the morphology and function of motile cilia in airway epithelia. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3380-3385.	7.1	105
117	Cystic Fibrosis-associated Mutations at Arginine 347 Alter the Pore Architecture of CFTR. Journal of Biological Chemistry, 1999, 274, 5429-5435.	3.4	103
118	Pigs and humans with cystic fibrosis have reduced insulin-like growth factor 1 (IGF1) levels at birth. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 20571-20575.	7.1	101
119	Lysozyme Secretion by Submucosal Glands Protects the Airway from Bacterial Infection. American Journal of Respiratory Cell and Molecular Biology, 2005, 32, 548-552.	2.9	100
120	Adenoviral-mediated gene transfer to fetal pulmonary epithelia in vitro and in vivo.. Journal of Clinical Investigation, 1995, 95, 2620-2632.	8.2	99
121	Regulation of the Cystic Fibrosis Transmembrane Conductance Regulator Clâ¯ Channel by Its R Domain. Journal of Biological Chemistry, 2001, 276, 7689-7692.	3.4	98
122	Interaction of the synaptic protein PICK1 (protein interacting with C kinase 1) with the non-voltage gated sodium channels BNC1 (brain Na+ channel 1) and ASIC (acid-sensing ion channel). Biochemical Journal, 2002, 361, 443-450.	3.7	98
123	Correction of cAMP-Stimulated Fluid Secretion in Cystic Fibrosis Airway Epithelia: Efficiency of Adenovirus-Mediated Gene Transfer In Vitro. Human Gene Therapy, 1994, 5, 585-593.	2.7	97
124	Normal Sweat Chloride Values Do Not Exclude the Diagnosis of Cystic Fibrosis. American Journal of Respiratory and Critical Care Medicine, 1995, 151, 899-903.	5.6	97
125	Changes in either Cytosolic or Nucleoplasmic Inositol 1,4,5-Trisphosphate Levels Can Control Nuclear Ca2+ Concentration. Journal of Biological Chemistry, 1995, 270, 4959-4962.	3.4	96
126	ASIC2 Subunits Target Acid-Sensing Ion Channels to the Synapse via an Association with PSD-95. Journal of Neuroscience, 2009, 29, 8438-8446.	3.6	96

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127	Effect of Cystic Fibrosis-associated Mutations in the Fourth Intracellular Loop of Cystic Fibrosis Transmembrane Conductance Regulator. Journal of Biological Chemistry, 1996, 271, 21279-21284.	3.4	93
128	Post-Transcriptional Regulation of Cystic Fibrosis Transmembrane Conductance Regulator Expression and Function by MicroRNAs. American Journal of Respiratory Cell and Molecular Biology, 2013, 49, 544-551.	2.9	93
129	Drosophila DEG/ENaC pickpocket genes are expressed in the tracheal system, where they may be involved in liquid clearance. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 2128-2133.	7.1	89
130	Depression of Ventilation by Dopamine in Man. Journal of Clinical Investigation, 1978, 61, 708-713.	8.2	88
131	Interaction of the synaptic protein PICK1 (protein interacting with C kinase 1) with the non-voltage gated sodium channels BNC1 (brain Na+ channel 1) and ASIC (acid-sensing ion channel). Biochemical Journal, 2002, 361, 443.	3.7	86
132	A shortened adeno-associated virus expression cassette for CFTR gene transfer to cystic fibrosis airway epithelia. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 2952-2957.	7.1	86
133	ENaC Subunits Are Molecular Components of the Arterial Baroreceptor Complex. Annals of the New York Academy of Sciences, 2001, 940, 42-47.	3.8	86
134	cAMP-dependent protein kinase phosphorylation of the acid-sensing ion channel-1 regulates its binding to the protein interacting with C-kinase-1. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 2029-2034.	7.1	85
135	Normal gating of CFTR requires ATP binding to both nucleotide-binding domains and hydrolysis at the second nucleotide-binding domain. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 455-460.	7.1	85
136	Curcumin Stimulates Cystic Fibrosis Transmembrane Conductance Regulator Clâ€“ Channel Activity. Journal of Biological Chemistry, 2005, 280, 5221-5226.	3.4	85
137	Antibacterial properties of the CFTR potentiator ivacaftor. Journal of Cystic Fibrosis, 2014, 13, 515-519.	0.7	83
138	DRASIC Contributes to pH-Gated Currents in Large Dorsal Root Ganglion Sensory Neurons by Forming Heteromultimeric Channels. Journal of Neurophysiology, 2002, 87, 2835-2843.	1.8	82
139	ASIC3 and ASIC1 Mediate FMRFamide-Related Peptide Enhancement of H+-Gated Currents in Cultured Dorsal Root Ganglion Neurons. Journal of Neurophysiology, 2003, 89, 2459-2465.	1.8	82
140	Engineering Novel Cell Surface Receptors for Virus-mediated Gene Transfer. Journal of Biological Chemistry, 1999, 274, 21878-21884.	3.4	81
141	Requirements for ion and solute transport, and pH regulation during enamel maturation. Journal of Cellular Physiology, 2012, 227, 1776-1785.	4.1	76
142	Small-molecule ion channels increase host defences in cystic fibrosis airway epithelia. Nature, 2019, 567, 405-408.	27.8	75
143	Group D Adenoviruses Infect Primary Central Nervous System Cells More Efficiently than Those from Group C. Journal of Virology, 1999, 73, 2537-2540.	3.4	75
144	Lentiviral-mediated phenotypic correction of cystic fibrosis pigs. JCI Insight, 2016, 1, .	5.0	73

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145	The calcium signal and neutrophil activation. Clinical Biochemistry, 1990, 23, 159-166.	1.9	72
146	CFTR gene transfer with AAV improves early cystic fibrosis pig phenotypes. JCI Insight, 2016, 1, e88728.	5.0	72
147	Neonates with cystic fibrosis have a reduced nasal liquid pH; A small pilot study. Journal of Cystic Fibrosis, 2014, 13, 373-377.	0.7	70
148	Protons Activate Brain Na+ Channel 1 by Inducing a Conformational Change That Exposes a Residue Associated with Neurodegeneration. Journal of Biological Chemistry, 1998, 273, 30204-30207.	3.4	67
149	Relationships among CFTR expression, HCO ₃ ^{â”} secretion, and host defense may inform gene- and cell-based cystic fibrosis therapies. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5382-5387.	7.1	67
150	Oxidant regulated inter-subunit disulfide bond formation between ASIC1a subunits. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3573-3578.	7.1	66
151	Assessing mucociliary transport of single particles in vivo shows variable speed and preference for the ventral trachea in newborn pigs. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2355-2360.	7.1	65
152	Single apical membrane anion channels in primary cultures of canine tracheal epithelium. Pflugers Archiv European Journal of Physiology, 1986, 407, S116-S122.	2.8	64
153	Block by MOPS reveals a conformation change in the CFTR pore produced by ATP hydrolysis. American Journal of Physiology - Cell Physiology, 1997, 273, C1278-C1289.	4.6	64
154	Concentration of the antibacterial precursor thiocyanate in cystic fibrosis airway secretions. Free Radical Biology and Medicine, 2011, 50, 1144-1150.	2.9	64
155	Simultaneous Disruption of Mouse ASIC1a, ASIC2 and ASIC3 Genes Enhances Cutaneous Mechanosensitivity. PLoS ONE, 2012, 7, e35225.	2.5	64
156	Glycaemic regulation and insulin secretion are abnormal in cystic fibrosis pigs despite sparing of islet cell mass. Clinical Science, 2015, 128, 131-142.	4.3	64
157	Association of Domains within the Cystic Fibrosis Transmembrane Conductance Regulator. Biochemistry, 1997, 36, 1287-1294.	2.5	63
158	Acute regulation of tight junction ion selectivity in human airway epithelia. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3591-3596.	7.1	62
159	Sinus hypoplasia precedes sinus infection in a porcine model of cystic fibrosis. Laryngoscope, 2012, 122, 1898-1905.	2.0	61
160	Cystic Fibrosis Gene Therapy Using an Adenovirus Vector: In Vivo Safety and Efficacy in Nasal Epithelium. Howard Hughes Medical Institute, Iowa City, IA. Human Gene Therapy, 1994, 5, 209-219.	2.7	60
161	Development of a porcine model of cystic fibrosis. Transactions of the American Clinical and Climatological Association, 2009, 120, 149-62.	0.5	60
162	Ion transport by primary cultures of canine tracheal epithelium: Methodology, morphology, and electrophysiology. Journal of Membrane Biology, 1985, 88, 149-163.	2.1	59

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163	Effects of C-terminal deletions on cystic fibrosis transmembrane conductance regulator function in cystic fibrosis airway epithelia. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1937-1942.	7.1	59
164	Targeting the urokinase plasminogen activator receptor enhances gene transfer to human airway epithelia. Journal of Clinical Investigation, 2000, 105, 589-596.	8.2	59
165	PSD-95 and Lin-7b Interact with Acid-sensing Ion Channel-3 and Have Opposite Effects on H+-gated Current. Journal of Biological Chemistry, 2004, 279, 46962-46968.	3.4	57
166	Contribution of Proline Residues in the Membrane-spanning Domains of Cystic Fibrosis Transmembrane Conductance Regulator to Chloride Channel Function. Journal of Biological Chemistry, 1996, 271, 14995-15001.	3.4	56
167	Pancreatic Damage in Fetal and Newborn Cystic Fibrosis Pigs Involves the Activation of Inflammatory and Remodeling Pathways. American Journal of Pathology, 2012, 181, 499-507.	3.8	56
168	Pyrophosphate Stimulates Wild-type and Mutant Cystic Fibrosis Transmembrane Conductance Regulator Clâ¯ Channels. Journal of Biological Chemistry, 1995, 270, 20466-20472.	3.4	55
169	Anthracene-9-carboxylic acid inhibits an apical membrane, chloride conductance in canine tracheal epithelium. Journal of Membrane Biology, 1984, 78, 61-71.	2.1	54
170	Paradoxical Stimulation of a DEG/ENaC Channel by Amiloride. Journal of Biological Chemistry, 1999, 274, 15500-15504.	3.4	54
171	Propagation of infectious human papillomavirus type 16 by using an adenovirus and Cre/LoxP mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 2094-2099.	7.1	54
172	Covalent Modification of the Regulatory Domain Irreversibly Stimulates Cystic Fibrosis Transmembrane Conductance Regulator. Journal of Biological Chemistry, 1997, 272, 25617-25622.	3.4	51
173	CFTR with a partially deleted R domain corrects the cystic fibrosis chloride transport defect in human airway epithelia in vitro and in mouse nasal mucosa in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 3093-3098.	7.1	51
174	An Intrinsic Adenylate Kinase Activity Regulates Gating of the ABC Transporter CFTR. Cell, 2003, 115, 837-850.	28.9	51
175	Gene Transfer to Cerebral Blood Vessels After Subarachnoid Hemorrhage. Stroke, 1997, 28, 822-829.	2.0	51
176	Cell surface expression and biosynthesis of epithelial Na+ channels. Biochemical Journal, 1998, 336, 705-710.	3.7	50
177	Effect of subunit composition and Liddleâ€™s syndrome mutations on biosynthesis of ENaC. American Journal of Physiology - Cell Physiology, 1999, 276, C1346-C1351.	4.6	49
178	Eukaryotic operon-like transcription of functionally related genes in Drosophila. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 222-227.	7.1	49
179	PP2CÎ³: a human protein phosphatase with a unique acidic domain1. FEBS Letters, 1997, 412, 415-419.	2.8	46
180	Cationic Polymer and Lipids Enhance Adenovirus-Mediated Gene Transfer to Rabbit Carotid Artery. Stroke, 1998, 29, 2181-2188.	2.0	46

#	Article	IF	Citations
181	Apical Localization of the Coxsackie-Adenovirus Receptor by Glycosyl-Phosphatidylinositol Modification Is Sufficient for Adenovirus-Mediated Gene Transfer through the Apical Surface of Human Airway Epithelia. Journal of Virology, 2001, 75, 7703-7711.	3.4	46
182	CFTR-deficient pigs display peripheral nervous system defects at birth. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3083-3088.	7.1	44
183	Electrolyte transport properties in distal small airways from cystic fibrosis pigs with implications for host defense. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 310, L670-L679.	2.9	44
184	Inhibition of the Cystic Fibrosis Transmembrane Conductance Regulator By ATP-Sensitive K+Channel Regulators. Annals of the New York Academy of Sciences, 1993, 707, 275-284.	3.8	43
185	Function of Xenopus Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Cl- Channels and Use of Human-Xenopus Chimeras to Investigate the Pore Properties of CFTR. Journal of Biological Chemistry, 1996, 271, 25184-25191.	3.4	43
186	The Respiratory Epithelium. , 1986, , 751-766.		43
187	Delivery of an Adenovirus Vector in a Calcium Phosphate Coprecipitate Enhances the Therapeutic Index of Gene Transfer to Airway Epithelia. Human Gene Therapy, 1999, 10, 603-613.	2.7	42
188	Association of Glycolysis-Enhancing Î±-1 Blockers With Risk of Developing Parkinson Disease. JAMA Neurology, 2021, 78, 407.	9.0	42
189	The Cytoskeletal Protein Î±-Actinin Regulates Acid-sensing Ion Channel 1a through a C-terminal Interaction. Journal of Biological Chemistry, 2009, 284, 2697-2705.	3.4	41
190	Gene transfer for cystic fibrosis. Journal of Clinical Investigation, 1999, 104, 1165-1166.	8.2	41
191	Assembly of the Epithelial Na+ Channel Evaluated Using Sucrose Gradient Sedimentation Analysis. Journal of Biological Chemistry, 1998, 273, 22693-22700.	3.4	39
192	Medical reversal of chronic sinusitis in a cystic fibrosis patient with ivacaftor. International Forum of Allergy and Rhinology, 2015, 5, 178-181.	2.8	38
193	Ivacaftor-Induced Proteomic Changes Suggest Monocyte Defects May Contribute to the Pathogenesis of Cystic Fibrosis. American Journal of Respiratory Cell and Molecular Biology, 2016, 54, 594-597.	2.9	38
194	Expression of CFTR and a cAMP-stimulated Chloride Secretory Current in Cultured Human Fetal Alveolar Epithelial Cells. American Journal of Respiratory Cell and Molecular Biology, 1993, 9, 578-585.	2.9	37
195	Adenovirus-Mediated Gene Transfer for Cystic Fibrosis: Part A. Safety of Dose and Repeat Administration in the Nasal Epithelium. Part B. Clinical Efficacy in the Maxillary Sinus. Howard Hughes Medical Institute, Iowa City, Iowa. Human Gene Therapy, 1995, 6, 205-218.	2.7	37
196	Loss of Acid Sensing Ion Channel-1a and Bicarbonate Administration Attenuate the Severity of Traumatic Brain Injury. PLoS ONE, 2013, 8, e72379.	2.5	37
197	HORMONAL CONTROL OF CHLORIDE SECRETION BY CANINE TRACHEAL EPITHELIUM: AN ELECTROPHYSIOLOGIC ANALYSIS. Annals of the New York Academy of Sciences, 1981, 372, 558-570.	3.8	36
198	Dysfunction of CFTR bearing the AF508 mutation. Journal of Cell Science, 1993, 1993, 235-239.	2.0	36

#	Article	IF	Citations
199	Incorporation of Adeno-Associated Virus in a Calcium Phosphate Coprecipitate Improves Gene Transfer to Airway Epithelia In Vitro and In Vivo. Journal of Virology, 2000, 74, 535-540.	3.4	36
200	Pancreatic and biliary secretion are both altered in cystic fibrosis pigs. American Journal of Physiology - Renal Physiology, 2012, 303, G961-G968.	3.4	36
201	Mucus strands from submucosal glands initiate mucociliary transport of large particles. JCI Insight, 2019, 4, .	5.0	36
202	Efficient killing of inhaled bacteria in Î”F508 mice: role of airway surface liquid composition. American Journal of Physiology - Lung Cellular and Molecular Physiology, 1999, 277, L183-L190.	2.9	34
203	Acid-sensing ion channels interact with and inhibit BK K ⁺ channels. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3140-3144.	7.1	34
204	Immunohistochemical Detection of Markers for Translational Studies of Lung Disease in Pigs and Humans. Toxicologic Pathology, 2016, 44, 434-441.	1.8	34
205	Adrenergic regulation of ion transport by primary cultures of canine tracheal epithelium: Cellular electrophysiology. Journal of Membrane Biology, 1986, 91, 121-128.	2.1	33
206	Acute administration of ivacaftor to people with cystic fibrosis and a G551D-CFTR mutation reveals smooth muscle abnormalities. JCI Insight, 2016, 1, e86183.	5.0	33
207	Combining Ivacaftor and Intensive Antibiotics Achieves Limited Clearance of Cystic Fibrosis Infections. MBio, 2021, 12, e0314821.	4.1	33
208	Neuronal necrosis is regulated by a conserved chromatin-modifying cascade. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13960-13965.	7.1	32
209	Newborn Cystic Fibrosis Pigs Have a Blunted Early Response to an Inflammatory Stimulus. American Journal of Respiratory and Critical Care Medicine, 2016, 194, 845-854.	5.6	32
210	Lack of cystic fibrosis transmembrane conductance regulator disrupts fetal airway development in pigs. Laboratory Investigation, 2018, 98, 825-838.	3.7	32
211	Lectin binding and endocytosis at the apical surface of human airway epithelia. Gene Therapy, 2001, 8, 1826-1832.	4.5	31
212	CFTR is required for maximal transepithelial liquid transport in pig alveolar epithelia. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2012, 303, L152-L160.	2.9	31
213	Motile cilia of human airway epithelia contain hedgehog signaling components that mediate noncanonical hedgehog signaling. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1370-1375.	7.1	31
214	Vaccinia Virus Entry, Exit, and Interaction with Differentiated Human Airway Epithelia. Journal of Virology, 2007, 81, 9891-9899.	3.4	30
215	The ABC of a versatile engine. Nature, 1998, 396, 623-624.	27.8	29
216	ADP inhibits function of the ABC transporter cystic fibrosis transmembrane conductance regulator via its adenylate kinase activity. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 2216-2220.	7.1	28

#	Article	IF	Citations
217	TNFÎ± and IL-17 alkalinize airway surface liquid through CFTR and pendrin. American Journal of Physiology - Cell Physiology, 2020, 319, C331-C344.	4.6	27
218	Transient acidosis while retrieving a fear-related memory enhances its lability. ELife, 2017, 6, .	6.0	27
219	Cystic Fibrosis Transmembrane Conductance Regulator Clâ^' Channels with R Domain Deletions and Translocations Show Phosphorylation-dependent and -independent Activity. Journal of Biological Chemistry, 2001, 276, 1904-1910.	3.4	26
220	Lack of airway submucosal glands impairs respiratory host defenses. ELife, 2020, 9, .	6.0	26
221	Covalent Modification of the Nucleotide Binding Domains of Cystic Fibrosis Transmembrane Conductance Regulator. Journal of Biological Chemistry, 1998, 273, 31873-31879.	3.4	25
222	Mutations That Change the Position of the Putative Î³-Phosphate Linker in the Nucleotide Binding Domains of CFTR Alter Channel Gating. Journal of Biological Chemistry, 2002, 277, 2125-2131.	3.4	25
223	AJRCCM: 100-Y<scp>ear</scp> A<scp>nniversary</scp>.Progress along the Pathway of Discovery Leading to Treatment and Cure of Cystic Fibrosis. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 1092-1099.	5.6	25
224	Inflammatory cytokines TNF-Î± and IL-17 enhance the efficacy of cystic fibrosis transmembrane conductance regulator modulators. Journal of Clinical Investigation, 2021, 131, .	8.2	25
225	The Drosophila Gene CheB42a Is a Novel Modifier of Deg/ENaC Channel Function. PLoS ONE, 2010, 5, e9395.	2.5	25
226	Acid-sensing ion channel 3 (ASIC3) cell surface expression is modulated by PSD-95 within lipid rafts. American Journal of Physiology - Cell Physiology, 2008, 295, C732-C739.	4.6	24
227	Acidic Submucosal Gland pH and Elevated Protein Concentration Produce Abnormal Cystic Fibrosis Mucus. Developmental Cell, 2020, 54, 488-500.e5.	7.0	24
228	Large-scale gene discovery in human airway epithelia reveals novel transcripts. Physiological Genomics, 2004, 17, 69-77.	2.3	23
229	Mechanisms of Airway Epithelial Ion Transport. Clinics in Chest Medicine, 1986, 7, 273-283.	2.1	23
230	Human-mouse cystic fibrosis transmembrane conductance regulator (CFTR) chimeras identify regions that partially rescue CFTR-ÂF508 processing and alter its gating defect. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 917-922.	7.1	22
231	Repurposing tromethamine as inhaled therapy to treat CF airway disease. JCI Insight, 2016, 1, .	5.0	22
232	Absence of amiloride-sensitive sodium absorption in the airway of an infant with pseudohypoaldosteronism. Journal of Pediatrics, 1999, 135, 786-789.	1.8	21
233	An Activated Immune and Inflammatory Response Targets the Pancreas of Newborn Pigs with Cystic Fibrosis. Pancreatology, 2011, 11, 506-515.	1.1	21
234	Acid-Sensing Ion Channel 1a Contributes to Airway Hyperreactivity in Mice. PLoS ONE, 2016, 11, e0166089.	2.5	21

#	Article	IF	Citations
235	Ivacaftor-induced sweat chloride reductions correlate with increases in airway surface liquid pH in cystic fibrosis. JCI Insight, 2018, 3, .	5.0	20
236	Basolateral membrane potassium conductance is independent of sodium pump activity and membrane voltage in canine tracheal epithelium. Journal of Membrane Biology, 1985, 84, 25-33.	2.1	19
237	Adenylate Kinase Activity in ABC Transporters. Journal of Biological Chemistry, 2005, 280, 34385-34388.	3.4	19
238	Contribution of R domain phosphoserines to the function of CFTR studied in Fischer rat thyroid epithelia. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2000, 279, L835-L841.	2.9	18
239	Targeting the Basic Defect in Cystic Fibrosis. New England Journal of Medicine, 2010, 363, 2056-2057.	27.0	17
240	Enamel Pathology Resulting from Loss of Function in the Cystic Fibrosis Transmembrane Conductance Regulator in a Porcine Animal Model. Cells Tissues Organs, 2011, 194, 249-254.	2.3	17
241	A pilot to assess target engagement of terazosin in Parkinson's disease. Parkinsonism and Related Disorders, 2022, 94, 79-83.	2.2	17
242	Tetraethylammonium Block of the BNC1 Channel. Biophysical Journal, 1999, 76, 1377-1383.	0.5	16
243	Sequential magnetic resonance imaging analysis of the maxillary sinuses: implications for a model of gene therapy in cystic fibrosis. Journal of Laryngology and Otology, 1999, 113, 329-335.	0.8	15
244	Cystic fibrosis transmembrane conductance regulator with a shortened R domain rescues the intestinal phenotype of CFTR ^{â^'/â^'} mice. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 2921-2926.	7.1	15
245	erbB1 Functions as a Sensor of Airway Epithelial Integrity by Regulation of Protein Phosphatase 2A Activity. Journal of Biological Chemistry, 2006, 281, 1725-1730.	3.4	14
246	Cellular and molecular architecture of submucosal glands in wild-type and cystic fibrosis pigs. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	14
247	A Genomic Signature Approach to Rescue Î”F508-Cystic Fibrosis Transmembrane Conductance Regulator Biosynthesis and Function. American Journal of Respiratory Cell and Molecular Biology, 2014, 51, 354-362.	2.9	13
248	Differences between Cystic Fibrosis Transmembrane Conductance Regulator and HisP in the Interaction with the Adenine Ring of ATP. Journal of Biological Chemistry, 2000, 275, 29407-29412.	3.4	11
249	Basolateral chloride current in human airway epithelia. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2007, 293, L991-L999.	2.9	11
250	Acid-Sensing Ion Channels (ASICs) and pH in Synapse Physiology. , 2008, , 661-681.		11
251	Paracellular bicarbonate flux across human cystic fibrosis airway epithelia tempers changes in airway surface liquid pH. Journal of Physiology, 2020, 598, 4307-4320.	2.9	11
252	Expression and Activity of Acid-Sensing Ion Channels in the Mouse Anterior Pituitary. PLoS ONE, 2014, 9, e115310.	2.5	11

#	Article	IF	Citations
253	A Single-Cell Atlas of Large and Small Airways at Birth in a Porcine Model of Cystic Fibrosis. American Journal of Respiratory Cell and Molecular Biology, 2022, 66, 612-622.	2.9	11
254	Phosphorylation-Dependent Regulation of Apical Membrane Chloride Channels in Normal and Cystic Fibrosis Airway Epithelium. Annals of the New York Academy of Sciences, 1989, 574, 44-51.	3.8	10
255	Acidification indication. Nature, 1991, 352, 23-24.	27.8	10
256	Ion channels lose the rhythm. Nature, 1995, 376, 640-641.	27.8	10
257	Cystic fibrosis problem probed by proteolysis. Nature Structural Biology, 1998, 5, 167-169.	9.7	10
258	The vagal ganglia transcriptome identifies candidate therapeutics for airway hyperreactivity. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2018, 315, L133-L148.	2.9	10
259	Nominal carbonic anhydrase activity minimizes airway-surface liquid pH changes during breathing. Physiological Reports, 2018, 6, e13569.	1.7	10
260	Demonstration of Phosphoryl Group Transfer Indicates That the ATP-binding Cassette (ABC) Transporter Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Exhibits Adenylate Kinase Activity. Journal of Biological Chemistry, 2012, 287, 36105-36110.	3.4	7
261	Mutating the Conserved Q-loop Glutamine 1291 Selectively Disrupts Adenylate Kinase-dependent Channel Gating of the ATP-binding Cassette (ABC) Adenylate Kinase Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) and Reduces Channel Function in Primary Human Airway Epithelia. Journal of Biological Chemistry, 2015, 290, 14140-14153.	3.4	7
262	Elastic mucus strands impair mucociliary clearance in cystic fibrosis pigs. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2121731119.	7.1	7
263	Fluoride stimulates cystic fibrosis transmembrane conductance regulator Cl^{â^'}channel activity. American Journal of Physiology - Lung Cellular and Molecular Physiology, 1998, 274, L305-L312.	2.9	6
264	Role of CFTRâ€™s intrinsic adenylate kinase activity in gating of the Clâ^' channel. Journal of Bioenergetics and Biomembranes, 2007, 39, 473-479.	2.3	6
265	ATP and AMP Mutually Influence Their Interaction with the ATP-binding Cassette (ABC) Adenylate Kinase Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) at Separate Binding Sites. Journal of Biological Chemistry, 2013, 288, 27692-27701.	3.4	6
266	Postnatal airway growth in cystic fibrosis piglets. Journal of Applied Physiology, 2017, 123, 526-533.	2.5	6
267	A Mutation in CFTR Modifies the Effects of the Adenylate Kinase Inhibitor Ap5A on Channel Gating. Biophysical Journal, 2008, 95, 5178-5185.	0.5	5
268	Safety assessment of nebulized xylitol in beagle dogs. Inhalation Toxicology, 2012, 24, 365-372.	1.6	5
269	Amphotericin B induces epithelial voltage responses in people with cystic fibrosis. Journal of Cystic Fibrosis, 2021, 20, 540-550.	0.7	5
270	Electrolyte Transport in the Lungs. Hospital Practice (1995), 1991, 26, 53-59.	1.0	3

#	Article	IF	Citations
271	Chapter 7 The CFTR Chloride Channel. Current Topics in Membranes, 1994, 42, 153-171.	0.9	3
272	Cationic Lipid Mediated Gene Transfer of CFTR: Safety of a Single Administration to the Nasal Epithelia. Human Gene Therapy, 1999, 10, 1559-1572.	2.7	3
273	Adenovirus Calcium Phosphate Coprecipitates Enhance Squamous Cell Carcinoma Gene Transfer. Laryngoscope, 2001, 111, 1290-1296.	2.0	3
274	WNK Inhibition Increases Surface Liquid pH and Host Defense in Cystic Fibrosis Airway Epithelia. American Journal of Respiratory Cell and Molecular Biology, 2022, 67, 491-502.	2.9	3
275	Measurement of Mucociliary Transport: Novel Application of Positron Emission Tomography. , 2022, , .		2
276	The Mechanism of Active Chloride Secretion by Airway Epithelia. Chest, 1982, 81, 1.	0.8	1
277	Membrane Resistances and Electromotive Forces during Stimulation of Chloride Secretion in the Canine Tracheal Epithelium. Chest, 1982, 81, 3-4.	0.8	1
278	Computational identification of operon-like transcriptional loci in eukaryotes. Computers in Biology and Medicine, 2013, 43, 738-743.	7.0	1
279	Inflammatory Cytokines ILâ€13 or ILâ€17/TNFÎ± Do Not Alter the Low Paracellular Bicarbonate Permeability of Cystic Fibrosis Airway Epithelia. FASEB Journal, 2019, 33, 544.15.	0.5	1
280	Response Chloride Channels in Cystic Fibrosis Patients. Science, 1990, 247, 222-222.	12.6	1
281	Chapter 2 Membrane Topology, Subunit Composition, and Stoichiometry of the Epithelial Na+Channel. Current Topics in Membranes, 1999, 47, 25-36.	0.9	0
282	The DRASIC Cation Channel Contributes to the Detection of Cutaneous Touch and Acid Stimuli in Mice. Neuron, 2002, 35, 407.	8.1	0
283	Vaccinia Virus Entry, Exit, and Interaction with Differentiated Human Airway Epithelia. Journal of Virology, 2007, 81, 13278-13278.	3.4	0
284	Chair's Introduction. Novartis Foundation Symposium, 2008, , 1-1.	1.1	0
285	New blood: Creative funding of disease-specific research. Science Translational Medicine, 2015, 7, 288ed5.	12.4	0
286	ASIC Channels Inhibit BK Potassium Channels by a Toxinâ€Like Extracellular Motif. FASEB Journal, 2008, 22, 937.26.	0.5	0
287	ASIC2 Subunits Target Acidâ€Sensing Ion Channels to the Synapse via an Association with PSDâ€95. FASEB Journal, 2009, 23, LB94.	0.5	0
288	Oxidant Regulated Intersubunit Disulfide Bond Formation between ASIC1a Subunits. FASEB Journal, 2009, 23, LB226.	0.5	0

#	Article	IF	Citations
289	Introduction of FranÃ§ois M. Abboud. Journal of Clinical Investigation, 2010, 120, 4155-4161.	8.2	0
290	Dissecting the fetal development of cystic fibrosis tracheal abnormalities. FASEB Journal, 2012, 26, 143.10.	0.5	0
291	The Respiratory Epithelium. , 1987, , 367-382.		0
292	Function and Regulation of the Cystic Fibrosis Transmembrane Conductance Regulator. , 1992, , 399-413.		0