Michael J Welsh

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

37,632 283 190 100 h-index g-index citations papers 40,893 6.94 298 13.4 avg, IF L-index ext. papers ext. citations

#	Paper	IF	Citations
283	Cellular and molecular architecture of submucosal glands in wild-type and cystic fibrosis pigs <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	2
282	A Single-Cell Atlas of Large and Small Airways at Birth in a Porcine Model of Cystic Fibrosis <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2022 ,	5.7	1
281	Elastic mucus strands impair mucociliary clearance in cystic fibrosis pigs <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2121731119	11.5	1
280	A pilot to assess target engagement of terazosin in Parkinson ß disease. <i>Parkinsonism and Related Disorders</i> , 2021 , 94, 79-83	3.6	2
279	Association of Glycolysis-Enhancing Ell Blockers With Risk of Developing Parkinson Disease. <i>JAMA Neurology</i> , 2021 , 78, 407-413	17.2	12
278	Amphotericin B induces epithelial voltage responses in people with cystic fibrosis. <i>Journal of Cystic Fibrosis</i> , 2021 , 20, 540-550	4.1	5
277	Inflammatory cytokines TNF-land IL-17 enhance the efficacy of cystic fibrosis transmembrane conductance regulator modulators. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	3
276	Combining Ivacaftor and Intensive Antibiotics Achieves Limited Clearance of Cystic Fibrosis Infections <i>MBio</i> , 2021 , e0314821	7.8	3
275	TNFland IL-17 alkalinize airway surface liquid through CFTR and pendrin. <i>American Journal of Physiology - Cell Physiology</i> , 2020 , 319, C331-C344	5.4	7
274	Paracellular bicarbonate flux across human cystic fibrosis airway epithelia tempers changes in airway surface liquid pH. <i>Journal of Physiology</i> , 2020 , 598, 4307-4320	3.9	6
273	Lack of airway submucosal glands impairs respiratory host defenses. <i>ELife</i> , 2020 , 9,	8.9	13
272	Cystic fibrosis carriers are at increased risk for a wide range of cystic fibrosis-related conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 1621-1627	11.5	47
271	Acidic Submucosal Gland pH and Elevated Protein Concentration Produce Abnormal Cystic Fibrosis Mucus. <i>Developmental Cell</i> , 2020 , 54, 488-500.e5	10.2	12
270	Small-molecule ion channels increase host defences in cystic fibrosis airway epithelia. <i>Nature</i> , 2019 , 567, 405-408	50.4	45
269	Mucus strands from submucosal glands initiate mucociliary transport of large particles. <i>JCI Insight</i> , 2019 , 4,	9.9	19
268	Enhancing glycolysis attenuates Parkinsonß disease progression in models and clinical databases. <i>Journal of Clinical Investigation</i> , 2019 , 129, 4539-4549	15.9	63
267	Inflammatory Cytokines IL-13 or IL-17/TNFIDo Not Alter the Low Paracellular Bicarbonate Permeability of Cystic Fibrosis Airway Epithelia. <i>FASEB Journal</i> , 2019 , 33, 544.15	0.9	1

(2016-2018)

266	Lack of cystic fibrosis transmembrane conductance regulator disrupts fetal airway development in pigs. <i>Laboratory Investigation</i> , 2018 , 98, 825-838	5.9	23	
265	Motile cilia of human airway epithelia contain hedgehog signaling components that mediate noncanonical hedgehog signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 1370-1375	11.5	13	
264	Ivacaftor-induced sweat chloride reductions correlate with increases in airway surface liquid pH in cystic fibrosis. <i>JCI Insight</i> , 2018 , 3,	9.9	13	
263	The vagal ganglia transcriptome identifies candidate therapeutics for airway hyperreactivity. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2018 , 315, L133-L148	5.8	6	
262	Nominal carbonic anhydrase activity minimizes airway-surface liquid pH changes during breathing. <i>Physiological Reports</i> , 2018 , 6, e13569	2.6	7	
261	Restoring Cystic Fibrosis Transmembrane Conductance Regulator Function Reduces Airway Bacteria and Inflammation in People with Cystic Fibrosis and Chronic Lung Infections. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2017 , 195, 1617-1628	10.2	191	
260	AJRCCM: 100-Year Anniversary. Progress along the Pathway of Discovery Leading to Treatment and Cure of Cystic Fibrosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2017 , 195, 1092-1	199²	13	
259	Postnatal airway growth in cystic fibrosis piglets. <i>Journal of Applied Physiology</i> , 2017 , 123, 526-533	3.7	3	
258	Gel-forming mucins form distinct morphologic structures in airways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 6842-6847	11.5	98	
257	Transient acidosis while retrieving a fear-related memory enhances its lability. ELife, 2017, 6,	8.9	12	
256	Electrolyte transport properties in distal small airways from cystic fibrosis pigs with implications for host defense. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016 , 310, L670-9	5.8	27	
255	Airway acidification initiates host defense abnormalities in cystic fibrosis mice. <i>Science</i> , 2016 , 351, 503-7	' 33.3	197	
254	Immunohistochemical Detection of Markers for Translational Studies of Lung Disease in Pigs and Humans. <i>Toxicologic Pathology</i> , 2016 , 44, 434-41	2.1	25	
253	Acute administration of ivacaftor to people with cystic fibrosis and a mutation reveals smooth muscle abnormalities. <i>JCI Insight</i> , 2016 , 1, e86183	9.9	24	
252	Repurposing tromethamine as inhaled therapy to treat CF airway disease. JCI Insight, 2016, 1,	9.9	19	
251	Lentiviral-mediated phenotypic correction of cystic fibrosis pigs. <i>JCI Insight</i> , 2016 , 1,	9.9	56	
250	Acidic pH increases airway surface liquid viscosity in cystic fibrosis. <i>Journal of Clinical Investigation</i> , 2016 , 126, 879-91	15.9	160	
249	Acid-Sensing Ion Channel 1a Contributes to Airway Hyperreactivity in Mice. <i>PLoS ONE</i> , 2016 , 11, e01660	8 9 7	15	

248	gene transfer with AAV improves early cystic fibrosis pig phenotypes. <i>JCI Insight</i> , 2016 , 1, e88728	9.9	53
247	Ivacaftor-Induced Proteomic Changes Suggest Monocyte Defects May Contribute to the Pathogenesis of Cystic Fibrosis. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2016 , 54, 594-7	5.7	26
246	Newborn Cystic Fibrosis Pigs Have a Blunted Early Response to an Inflammatory Stimulus. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016 , 194, 845-854	10.2	25
245	Relationships among CFTR expression, HCO3- secretion, and host defense may inform gene- and cell-based cystic fibrosis therapies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 5382-7	11.5	47
244	Origins of cystic fibrosis lung disease. New England Journal of Medicine, 2015, 372, 351-62	59.2	368
243	Breathing Inhibited When Seizures Spread to the Amygdala and upon Amygdala Stimulation. <i>Journal of Neuroscience</i> , 2015 , 35, 10281-9	6.6	121
242	Glycaemic regulation and insulin secretion are abnormal in cystic fibrosis pigs despite sparing of islet cell mass. <i>Clinical Science</i> , 2015 , 128, 131-42	6.5	50
241	Origins of cystic fibrosis lung disease. <i>New England Journal of Medicine</i> , 2015 , 372, 1574-5	59.2	94
240	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	5.4	7
239	Airway Epithelia. <i>Journal of Biological Chemistry</i> , 2015 , 290, 14140-53 Medical reversal of chronic sinusitis in a cystic fibrosis patient with ivacaftor. <i>International Forum of Allergy and Rhinology</i> , 2015 , 5, 178-81	6.3	28
238	Impaired mucus detachment disrupts mucociliary transport in a piglet model of cystic fibrosis. <i>Science</i> , 2014 , 345, 818-22	33.3	263
237	Acid-sensing ion channels contribute to synaptic transmission and inhibit cocaine-evoked plasticity. <i>Nature Neuroscience</i> , 2014 , 17, 1083-91	25.5	128
236	Chemosensory functions for pulmonary neuroendocrine cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2014 , 50, 637-46	5.7	89
235	Neonates with cystic fibrosis have a reduced nasal liquid pH; a small pilot study. <i>Journal of Cystic Fibrosis</i> , 2014 , 13, 373-7	4.1	55
234	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, 8961-6	11.5	154
233	Antibacterial properties of the CFTR potentiator ivacaftor. <i>Journal of Cystic Fibrosis</i> , 2014 , 13, 515-9	4.1	60
232	pH modulates the activity and synergism of the airway surface liquid antimicrobials Edefensin-3 and LL-37. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 18703-8	11.5	132
231	Assessing mucociliary transport of single particles in vivo shows variable speed and preference for the ventral trachea in newborn pigs. <i>Proceedings of the National Academy of Sciences of the United</i>	11.5	50

230	Neuronal necrosis is regulated by a conserved chromatin-modifying cascade. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 13960-5	11.5	22
229	A genomic signature approach to rescue B 508-cystic fibrosis transmembrane conductance regulator biosynthesis and function. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2014 , 51, 354-62	5.7	12
228	Expression and activity of acid-sensing ion channels in the mouse anterior pituitary. <i>PLoS ONE</i> , 2014 , 9, e115310	3.7	10
227	Computational identification of operon-like transcriptional loci in eukaryotes. <i>Computers in Biology and Medicine</i> , 2013 , 43, 738-43	7	1
226	Fear and panic in humans with bilateral amygdala damage. <i>Nature Neuroscience</i> , 2013 , 16, 270-2	25.5	213
225	Post-transcriptional regulation of cystic fibrosis transmembrane conductance regulator expression and function by microRNAs. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2013 , 49, 544-51	5·7	78
224	CFTR-deficient pigs display peripheral nervous system defects at birth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 3083-8	11.5	35
223	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. <i>Journal of Biological Chemistry</i> , 2013 , 288, 27692-27701	5.4	4
222	Loss of Acid sensing ion channel-1a and bicarbonate administration attenuate the severity of traumatic brain injury. <i>PLoS ONE</i> , 2013 , 8, e72379	3.7	34
221	Intestinal CFTR expression alleviates meconium ileus in cystic fibrosis pigs. <i>Journal of Clinical Investigation</i> , 2013 , 123, 2685-93	15.9	96
220	Requirements for ion and solute transport, and pH regulation during enamel maturation. <i>Journal of Cellular Physiology</i> , 2012 , 227, 1776-85	7	60
219	Pancreatic damage in fetal and newborn cystic fibrosis pigs involves the activation of inflammatory and remodeling pathways. <i>American Journal of Pathology</i> , 2012 , 181, 499-507	5.8	43
218	Sinus hypoplasia precedes sinus infection in a porcine model of cystic fibrosis. <i>Laryngoscope</i> , 2012 , 122, 1898-905	3.6	53
217	Pancreatic and biliary secretion are both altered in cystic fibrosis pigs. <i>American Journal of Physiology - Renal Physiology</i> , 2012 , 303, G961-8	5.1	32
216	Reduced airway surface pH impairs bacterial killing in the porcine cystic fibrosis lung. <i>Nature</i> , 2012 , 487, 109-13	50.4	569
215	Simultaneous disruption of mouse ASIC1a, ASIC2 and ASIC3 genes enhances cutaneous mechanosensitivity. <i>PLoS ONE</i> , 2012 , 7, e35225	3.7	52
214	CFTR is required for maximal transepithelial liquid transport in pig alveolar epithelia. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2012 , 303, L152-60	5.8	24
213	ppk23-Dependent chemosensory functions contribute to courtship behavior in Drosophila melanogaster. <i>PLoS Genetics</i> , 2012 , 8, e1002587	6	98

212	A microRNA network regulates expression and biosynthesis of wild-type and DeltaF508 mutant cystic fibrosis transmembrane conductance regulator. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 13362-7	11.5	100
211	Human-mouse cystic fibrosis transmembrane conductance regulator (CFTR) chimeras identify regions that partially rescue CFTR-#508 processing and alter its gating defect. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 917-22	11.5	20
210	Demonstration of phosphoryl group transfer indicates that the ATP-binding cassette (ABC) transporter cystic fibrosis transmembrane conductance regulator (CFTR) exhibits adenylate kinase activity. <i>Journal of Biological Chemistry</i> , 2012 , 287, 36105-10	5.4	7
209	Safety assessment of nebulized xylitol in beagle dogs. <i>Inhalation Toxicology</i> , 2012 , 24, 365-72	2.7	4
208	Detecting activity-evoked pH changes in human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 8270-3	11.5	116
207	Dissecting the fetal development of cystic fibrosis tracheal abnormalities. <i>FASEB Journal</i> , 2012 , 26, 143.	. 10 9	
206	An activated immune and inflammatory response targets the pancreas of newborn pigs with cystic fibrosis. <i>Pancreatology</i> , 2011 , 11, 506-15	3.8	18
205	Concentration of the antibacterial precursor thiocyanate in cystic fibrosis airway secretions. <i>Free Radical Biology and Medicine</i> , 2011 , 50, 1144-50	7.8	54
204	Human cystic fibrosis airway epithelia have reduced Cl- conductance but not increased Na+ conductance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 10260-5	11.5	95
203	Enamel pathology resulting from loss of function in the cystic fibrosis transmembrane conductance regulator in a porcine animal model. <i>Cells Tissues Organs</i> , 2011 , 194, 249-54	2.1	15
202	The B 508 mutation causes CFTR misprocessing and cystic fibrosis-like disease in pigs. <i>Science Translational Medicine</i> , 2011 , 3, 74ra24	17.5	153
201	Cystic fibrosis transmembrane conductance regulator with a shortened R domain rescues the intestinal phenotype of CFTR-/- mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 2921-6	11.5	12
200	Cystic fibrosis pigs develop lung disease and exhibit defective bacterial eradication at birth. <i>Science Translational Medicine</i> , 2010 , 2, 29ra31	17.5	356
199	Pigs and humans with cystic fibrosis have reduced insulin-like growth factor 1 (IGF1) levels at birth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 20571-5	11.5	85
198	Loss of cystic fibrosis transmembrane conductance regulator function produces abnormalities in tracheal development in neonatal pigs and young children. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2010 , 182, 1251-61	10.2	147
197	Loss of anion transport without increased sodium absorption characterizes newborn porcine cystic fibrosis airway epithelia. <i>Cell</i> , 2010 , 143, 911-23	56.2	193
196	Pathology of gastrointestinal organs in a porcine model of cystic fibrosis. <i>American Journal of Pathology</i> , 2010 , 176, 1377-89	5.8	112
195	The Drosophila gene CheB42a is a novel modifier of Deg/ENaC channel function. <i>PLoS ONE</i> , 2010 , 5, e93	39.5	19

194	Introduction of Frankis M. Abboud. <i>Journal of Clinical Investigation</i> , 2010 , 120, 4155-61	15.9	
193	Oxidant regulated inter-subunit disulfide bond formation between ASIC1a subunits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 3573-8	11.5	61
192	The cytoskeletal protein alpha-actinin regulates acid-sensing ion channel 1a through a C-terminal interaction. <i>Journal of Biological Chemistry</i> , 2009 , 284, 2697-2705	5.4	30
191	TRPA channels distinguish gravity sensing from hearing in Johnstonß organ. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 13606-11	11.5	107
190	Acute regulation of tight junction ion selectivity in human airway epithelia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 3591-6	11.5	51
189	ASIC2 subunits target acid-sensing ion channels to the synapse via an association with PSD-95. Journal of Neuroscience, 2009 , 29, 8438-46	6.6	79
188	The amygdala is a chemosensor that detects carbon dioxide and acidosis to elicit fear behavior. <i>Cell</i> , 2009 , 139, 1012-21	56.2	296
187	The ion channel ASIC2 is required for baroreceptor and autonomic control of the circulation. <i>Neuron</i> , 2009 , 64, 885-97	13.9	149
186	Motile cilia of human airway epithelia are chemosensory. <i>Science</i> , 2009 , 325, 1131-4	33.3	504
185	Development of a porcine model of cystic fibrosis. <i>Transactions of the American Clinical and Climatological Association</i> , 2009 , 120, 149-62	0.9	55
184	ASIC2 Subunits Target Acid-Sensing Ion Channels to the Synapse via an Association with PSD-95. <i>FASEB Journal</i> , 2009 , 23, LB94	0.9	
183	Oxidant Regulated Intersubunit Disulfide Bond Formation between ASIC1a Subunits. <i>FASEB Journal</i> , 2009 , 23, LB226	0.9	
182	Seizure termination by acidosis depends on ASIC1a. <i>Nature Neuroscience</i> , 2008 , 11, 816-22	25.5	267
181	A mutation in CFTR modifies the effects of the adenylate kinase inhibitor Ap5A on channel gating. <i>Biophysical Journal</i> , 2008 , 95, 5178-85	2.9	5
180	Disruption of the CFTR gene produces a model of cystic fibrosis in newborn pigs. <i>Science</i> , 2008 , 321, 18	3373431	595
179	Acid-Sensing Ion Channels (ASICs) and pH in Synapse Physiology 2008 , 661-681		8
178	Loss of Bardet-Biedl syndrome proteins alters the morphology and function of motile cilia in airway epithelia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 3380-5	11.5	88
177	Acid-sensing ion channels interact with and inhibit BK K+ channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 3140-4	11.5	31

176	The porcine lung as a potential model for cystic fibrosis. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2008 , 295, L240-63	5.8	176
175	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, C732-9	5.4	23
174	Production of CFTR-null and CFTR-DeltaF508 heterozygous pigs by adeno-associated virus-mediated gene targeting and somatic cell nuclear transfer. <i>Journal of Clinical Investigation</i> , 2008 , 118, 1571-7	15.9	250
173	Adeno-associated virus-targeted disruption of the CFTR gene in cloned ferrets. <i>Journal of Clinical Investigation</i> , 2008 , 118, 1578-83	15.9	117
172	ASIC Channels Inhibit BK Potassium Channels by a Toxin-Like Extracellular Motif. <i>FASEB Journal</i> , 2008 , 22, 937.26	0.9	
171	Acid-sensing ion channel-1 contributes to axonal degeneration in autoimmune inflammation of the central nervous system. <i>Nature Medicine</i> , 2007 , 13, 1483-9	50.5	316
170	Drosophila hygrosensation requires the TRP channels water witch and nanchung. <i>Nature</i> , 2007 , 450, 294-8	50.4	138
169	Role of CFTR B intrinsic adenylate kinase activity in gating of the Cl(-) channel. <i>Journal of Bioenergetics and Biomembranes</i> , 2007 , 39, 473-9	3.7	6
168	Eukaryotic operon-like transcription of functionally related genes in Drosophila. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 222-7	11.5	39
167	Vaccinia Virus Entry, Exit, and Interaction with Differentiated Human Airway Epithelia. <i>Journal of Virology</i> , 2007 , 81, 13278-13278	6.6	78
166	Basolateral chloride current in human airway epithelia. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2007 , 293, L991-9	5.8	9
165	Processing and function of CFTR-DeltaF508 are species-dependent. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 15370-5	11.5	101
164	Vaccinia virus entry, exit, and interaction with differentiated human airway epithelia. <i>Journal of Virology</i> , 2007 , 81, 9891-9	6.6	18
163	Acid-sensing ion channel 1a is a postsynaptic proton receptor that affects the density of dendritic spines. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 1655	6-615	149
162	erbB1 functions as a sensor of airway epithelial integrity by regulation of protein phosphatase 2A activity. <i>Journal of Biological Chemistry</i> , 2006 , 281, 1725-30	5.4	12
161	Acid-sensing ion channels: advances, questions and therapeutic opportunities. <i>Trends in Neurosciences</i> , 2006 , 29, 578-86	13.3	459
160	Curcumin stimulates cystic fibrosis transmembrane conductance regulator Cl- channel activity. Journal of Biological Chemistry, 2005 , 280, 5221-6	5.4	74
159	Gene transfer of CFTR to airway epithelia: low levels of expression are sufficient to correct Cl- transport and overexpression can generate basolateral CFTR. <i>American Journal of Physiology - Lung</i> <i>Cellular and Molecular Physiology</i> , 2005 , 289, L1123-30	5.8	97

158	Adenylate kinase activity in ABC transporters. <i>Journal of Biological Chemistry</i> , 2005 , 280, 34385-8	5.4	14
157	A shortened adeno-associated virus expression cassette for CFTR gene transfer to cystic fibrosis airway epithelia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 2952-7	11.5	72
156	ADP inhibits function of the ABC transporter cystic fibrosis transmembrane conductance regulator via its adenylate kinase activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 2216-20	11.5	23
155	Lysozyme secretion by submucosal glands protects the airway from bacterial infection. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2005 , 32, 548-52	5.7	78
154	Normal gating of CFTR requires ATP binding to both nucleotide-binding domains and hydrolysis at the second nucleotide-binding domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 455-60	11.5	80
153	Extracellular acidosis increases neuronal cell calcium by activating acid-sensing ion channel 1a. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 6752-7	11.5	310
152	Propagation of infectious human papillomavirus type 16 by using an adenovirus and Cre/LoxP mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 2094-9	11.5	47
151	PSD-95 and Lin-7b interact with acid-sensing ion channel-3 and have opposite effects on H+- gated current. <i>Journal of Biological Chemistry</i> , 2004 , 279, 46962-8	5.4	49
150	Overexpression of acid-sensing ion channel 1a in transgenic mice increases acquired fear-related behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 3621-6	11.5	163
149	Acid-sensing ion channel 2 (ASIC2) modulates ASIC1 H+-activated currents in hippocampal neurons. Journal of Biological Chemistry, 2004 , 279, 18296-305	5.4	182
148	The ion channel ASIC1 contributes to visceral but not cutaneous mechanoreceptor function. <i>Gastroenterology</i> , 2004 , 127, 1739-47	13.3	123
148	·		
	Gastroenterology, 2004 , 127, 1739-47		
147	Meuroprotection in ischemia: blocking calcium-permeable acid-sensing ion channels. <i>Cell</i> , 2004 , 118, 68 Inactivation of a Pseudomonas aeruginosa quorum-sensing signal by human airway epithelia.	.7 5 982	816
147	Neuroprotection in ischemia: blocking calcium-permeable acid-sensing ion channels. <i>Cell</i> , 2004 , 118, 68 Inactivation of a Pseudomonas aeruginosa quorum-sensing signal by human airway epithelia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 3587-90 Large-scale gene discovery in human airway epithelia reveals novel transcripts. <i>Physiological</i>	11.5	816
147 146 145	Neuroprotection in ischemia: blocking calcium-permeable acid-sensing ion channels. <i>Cell</i> , 2004 , 118, 68 Inactivation of a Pseudomonas aeruginosa quorum-sensing signal by human airway epithelia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 3587-90 Large-scale gene discovery in human airway epithelia reveals novel transcripts. <i>Physiological Genomics</i> , 2004 , 17, 69-77 Effects of C-terminal deletions on cystic fibrosis transmembrane conductance regulator function in cystic fibrosis airway epithelia. <i>Proceedings of the National Academy of Sciences of the United States</i>	11.5 3.6	816 241 21
147 146 145	Neuroprotection in ischemia: blocking calcium-permeable acid-sensing ion channels. <i>Cell</i> , 2004 , 118, 68 Inactivation of a Pseudomonas aeruginosa quorum-sensing signal by human airway epithelia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 3587-90 Large-scale gene discovery in human airway epithelia reveals novel transcripts. <i>Physiological Genomics</i> , 2004 , 17, 69-77 Effects of C-terminal deletions on cystic fibrosis transmembrane conductance regulator function in cystic fibrosis airway epithelia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 1937-42 Drosophila DEG/ENaC pickpocket genes are expressed in the tracheal system, where they may be involved in liquid clearance. <i>Proceedings of the National Academy of Sciences of the United States of</i>	11.5 3.6 11.5	816 241 21 55

140	Enhanced locomotion caused by loss of the Drosophila DEG/ENaC protein Pickpocket1. <i>Current Biology</i> , 2003 , 13, 1557-63	6.3	159
139	Segregation of receptor and ligand regulates activation of epithelial growth factor receptor. <i>Nature</i> , 2003 , 422, 322-6	50.4	310
138	Identification and function of thermosensory neurons in Drosophila larvae. <i>Nature Neuroscience</i> , 2003 , 6, 267-73	25.5	150
137	An intrinsic adenylate kinase activity regulates gating of the ABC transporter CFTR. <i>Cell</i> , 2003 , 115, 837	-50.2	44
136	Chronic hyperalgesia induced by repeated acid injections in muscle is abolished by the loss of ASIC3, but not ASIC1. <i>Pain</i> , 2003 , 106, 229-239	8	358
135	Contribution of Drosophila DEG/ENaC genes to salt taste. <i>Neuron</i> , 2003 , 39, 133-46	13.9	138
134	cAMP-dependent protein kinase phosphorylation of the acid-sensing ion channel-1 regulates its binding to the protein interacting with C-kinase-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 2029-34	11.5	75
133	DRASIC contributes to pH-gated currents in large dorsal root ganglion sensory neurons by forming heteromultimeric channels. <i>Journal of Neurophysiology</i> , 2002 , 87, 2835-43	3.2	79
132	A component of innate immunity prevents bacterial biofilm development. <i>Nature</i> , 2002 , 417, 552-5	50.4	815
131	Discovery of five conserved beta -defensin gene clusters using a computational search strategy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 2129-33	11.5	423
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40	Adenovirus-mediated gene transfer transiently corrects the chloride transport defect in nasal epithelia of patients with cystic fibrosis. <i>Cell</i> , 1993 , 75, 207-16 Identification of revertants for the cystic fibrosis delta F508 mutation using STE6-CFTR chimeras in yeast. <i>Cell</i> , 1993 , 73, 335-46	56.2 56.2	662 162
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