David E Clapham

List of Publications by Year in Descending Order

241 papers	43,805 citations	101 h-index	208 g-index
266 ext. papers	48,102 ext. citations	17.8 avg, IF	7.83 L-index

#	Paper	IF	Citations
241	Odontoblast TRPC5 channels signal cold pain in teeth. *Science Advances*, **2021**, 7,	14.3	12
240	Recording Electrical Currents across the Plasma Membrane of Mammalian Sperm Cells. *Journal of Visualized Experiments*, **2021**,	1.6	1
239	Employing NaChBac for cryo-EM analysis of toxin action on voltage-gated Na channels in nanodisc. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 14187-14193	11.5	16
238	Isomeric Tuning Yields Bright and Targetable Red Ca Indicators. *Journal of the American Chemical Society*, **2019**, 141, 13734-13738	16.4	23
237	Cryo-EM structure of TRPC5 at 2.8-Å resolution reveals unique and conserved structural elements essential for channel function. *Science Advances*, **2019**, 5, eaaw7935	14.3	42
236	Primary cilia and other mysteries. *Proceedings for Annual Meeting of the Japanese Pharmacological Society*, **2019**, 92, 3-SL10	0	
235	Structure of full-length human TRPM4. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 2377-2382	11.5	56
234	Structure of the mouse TRPC4 ion channel. *Nature Communications*, **2018**, 9, 3102	17.4	76
233	Cryo-EM structure of the polycystin 2-l1 ion channel. *ELife*, **2018**, 7,	8.9	31
232	Structure of the mammalian TRPM7, a magnesium channel required during embryonic development. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E8201-E8210	11.5	63
231	Influences: Short circuits. *Journal of General Physiology*, **2018**, 150, 513-515	3.4	0
230	Polycystin-2 is an essential ion channel subunit in the primary cilium of the renal collecting duct epithelium. *ELife*, **2018**, 7,	8.9	62
229	Leucine-rich repeat containing 8A (LRRC8A)-dependent volume-regulated anion channel activity is dispensable for T-cell development and function. *Journal of Allergy and Clinical Immunology*, **2017**, 140, 1651-1659.e1	11.5	26
228	Progress in ciliary ion channel physiology. *Journal of General Physiology*, **2017**, 149, 37-47	3.4	25
227	THE CONCISE GUIDE TO PHARMACOLOGY 2017/18: Overview. *British Journal of Pharmacology*, **2017**, 174 Suppl 1, S1-S16	8.6	231
226	Histone phosphorylation by TRPM6 Ŧ cleaved kinase attenuates adjacent arginine methylation to regulate gene expression. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E7092-E7100	11.5	24
225	TRPM7 senses oxidative stress to release Zn from unique intracellular vesicles. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E6079-E6088	11.5	51

224	CatSper regulates the structural continuity of sperm Ca signaling domains and is required for normal fertility. *ELife*, **2017**, 6,	8.9	79
223	Author response: CatSper regulates the structural continuity of sperm Ca2+ signaling domains and is required for normal fertility **2017**,		2
222	The Structure of the Polycystic Kidney Disease Channel PKD2 in Lipid Nanodiscs. *Cell*, **2016**, 167, 763-773	36.1	157
221	Primary cilia are not calcium-responsive mechanosensors. *Nature*, **2016**, 531, 656-60	50.4	231
220	Naturally Produced Defensive Alkenal Compounds Activate TRPA1. *Chemical Senses*, **2016**, 41, 281-92	4.8	6
219	Mitochondrial calcium uniporter regulator 1 (MCUR1) regulates the calcium threshold for the mitochondrial permeability transition. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E1872-80	11.5	66
218	The Fungal Sexual Pheromone Sirenin Activates the Human CatSper Channel Complex. *ACS Chemical Biology*, **2016**, 11, 452-9	4.9	4
217	Atypical calcium regulation of the PKD2-L1 polycystin ion channel. *ELife*, **2016**, 5,	8.9	27
216	Molecular basis of ion permeability in a voltage-gated sodium channel. *EMBO Journal*, **2016**, 35, 820-30	13	76
215	Insights into the early evolution of animal calcium signaling machinery: a unicellular point of view. *Cell Calcium*, **2015**, 57, 166-73	4	47
214	Structural biology: Pain-sensing TRPA1 channel resolved. *Nature*, **2015**, 520, 439-41	50.4	12
213	The Concise Guide to PHARMACOLOGY 2015/16: Overview. *British Journal of Pharmacology*, **2015**, 172, 5729-43	8.6	207
212	Ion channels and calcium signaling in motile cilia. *ELife*, **2015**, 4,	8.9	26
211	Structurally distinct Ca(2+) signaling domains of sperm flagella orchestrate tyrosine phosphorylation and motility. *Cell*, **2014**, 157, 808-22	56.2	147
210	Functional reconstitution of the mitochondrial Ca2+/H+ antiporter Letm1. *Journal of General Physiology*, **2014**, 143, 67-73	3.4	95
209	Early evolution of the eukaryotic Ca2+ signaling machinery: conservation of the CatSper channel complex. *Molecular Biology and Evolution*, **2014**, 31, 2735-40	8.3	27
208	Prokaryotic NavMs channel as a structural and functional model for eukaryotic sodium channel antagonism. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 8428-33	11.5	96
207	Therapeutic restoration of spinal inhibition via druggable enhancement of potassium-chloride cotransporter KCC2-mediated chloride extrusion in peripheral neuropathic pain. *JAMA Neurology*, **2014**, 71, 640-5	17.2	33

206	Decreased anxiety-like behavior and Gq/11-dependent responses in the amygdala of mice lacking TRPC4 channels. *Journal of Neuroscience*, **2014**, 34, 3653-67	6.6	66
205	Caspase-11 controls interleukin-1 release through degradation of TRPC1. *Cell Reports*, **2014**, 6, 1122-1128	8.6	73
204	Outstanding questions regarding the permeation, selectivity, and regulation of the mitochondrial calcium uniporter. *Biochemical and Biophysical Research Communications*, **2014**, 449, 367-9	3.4	6
203	The TRPM7 chanzyme is cleaved to release a chromatin-modifying kinase. *Cell*, **2014**, 157, 1061-72	56.2	94
202	Correction for Sah et al., Ion channel-kinase TRPM7 is required for maintaining cardiac automaticity. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 6528-6528	11.5	78
201	Ionic selectivity and thermal adaptations within the voltage-gated sodium channel family of alkaliphilic Bacillus. *ELife*, **2014**, 3,	8.9	26
200	TRPV3 channels mediate strontium-induced mouse-egg activation. *Cell Reports*, **2013**, 5, 1375-86	10.6	51
199	Primary cilia are specialized calcium signalling organelles. *Nature*, **2013**, 504, 311-4	50.4	317
198	Direct recording and molecular identification of the calcium channel of primary cilia. *Nature*, **2013**, 504, 315-8	50.4	206
197	EMRE is an essential component of the mitochondrial calcium uniporter complex. *Science*, **2013**, 342, 1379-82	33.3	433
196	Molecular dynamics of ion transport through the open conformation of a bacterial voltage-gated sodium channel. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 6364-9	11.5	119
195	Analysis of the selectivity filter of the voltage-gated sodium channel Na(v)Rh. *Cell Research*, **2013**, 23, 409-22	24.7	42
194	mTOR regulates lysosomal ATP-sensitive two-pore Na(+) channels to adapt to metabolic state. *Cell*, **2013**, 152, 778-790	56.2	262
193	Rheotaxis guides mammalian sperm. *Current Biology*, **2013**, 23, 443-52	6.3	253
192	Sperm patch-clamp. *Methods in Enzymology*, **2013**, 525, 59-83	1.7	20
191	Timing of myocardial trpm7 deletion during cardiogenesis variably disrupts adult ventricular function, conduction, and repolarization. *Circulation*, **2013**, 128, 101-14	16.7	70
190	The G-protein-gated K+ channel, IKACh, is required for regulation of pacemaker activity and recovery of resting heart rate after sympathetic stimulation. *Journal of General Physiology*, **2013**, 142, 113-26	3.4	56
189	Simultaneous knockout of Slo3 and CatSper1 abolishes all alkalization- and voltage-activated current in mouse spermatozoa. *Journal of General Physiology*, **2013**, 142, 305-13	3.4	39

188	Ion channel-kinase TRPM7 is required for maintaining cardiac automaticity. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, E3037-46	11.5	73
187	Letm1, the mitochondrial Ca2+/H+ antiporter, is essential for normal glucose metabolism and alters brain function in Wolf-Hirschhorn syndrome. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, E2249-54	11.5	85
186	Role of the C-terminal domain in the structure and function of tetrameric sodium channels. *Nature Communications*, **2013**, 4, 2465	17.4	59
185	MCU encodes the pore conducting mitochondrial calcium currents. *ELife*, **2013**, 2, e00704	8.9	125
184	Sperm BerserKers. *ELife*, **2013**, 2, e01469	8.9	6
183	The mother of all endocytosis. *ELife*, **2013**, 2, e01738	8.9	3
182	The voltage-gated proton channel Hv1 enhances brain damage from ischemic stroke. *Nature Neuroscience*, **2012**, 15, 565-73	25.5	165
181	TRPV4 is a regulator of adipose oxidative metabolism, inflammation, and energy homeostasis. *Cell*, **2012**, 151, 96-110	56.2	243
180	TPC proteins are phosphoinositide- activated sodium-selective ion channels in endosomes and lysosomes. *Cell*, **2012**, 151, 372-83	56.2	379
179	The control of male fertility by spermatozoan ion channels. *Annual Review of Physiology*, **2012**, 74, 453-75	23.1	240
178	Cleavage of TRPM7 releases the kinase domain from the ion channel and regulates its participation in Fas-induced apoptosis. *Developmental Cell*, **2012**, 22, 1149-62	10.2	98
177	Controlled delivery of bioactive molecules into live cells using the bacterial mechanosensitive channel MscL. *Nature Communications*, **2012**, 3, 990	17.4	41
176	The channel kinase, TRPM7, is required for early embryonic development. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, E225-33	11.5	120
175	Anion-sensitive fluorophore identifies the Drosophila swell-activated chloride channel in a genome-wide RNA interference screen. *PLoS ONE*, **2012**, 7, e46865	3.7	25
174	Calpain cleaves and activates the TRPC5 channel to participate in semaphorin 3A-induced neuronal growth cone collapse. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 7888-92	11.5	47
173	Crystal structure of an orthologue of the NaChBac voltage-gated sodium channel. *Nature*, **2012**, 486, 130-4	50.4	375
172	Ancestral Ca2+ signaling machinery in early animal and fungal evolution. *Molecular Biology and Evolution*, **2012**, 29, 91-100	8.3	72
171	A novel gene required for male fertility and functional CATSPER channel formation in spermatozoa. *Nature Communications*, **2011**, 2, 153	17.4	127

170	POST, partner of stromal interaction molecule 1 (STIM1), targets STIM1 to multiple transporters. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 19234-9	11.5	81
169	Transient receptor potential cation channel, subfamily C, member 5 (TRPC5) is a cold-transducer in the peripheral nervous system. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 18114-9	11.5	146
168	TRPM7, the Mg(2+) inhibited channel and kinase. *Advances in Experimental Medicine and Biology*, **2011**, 704, 173-83	3.6	56
167	A thermodynamic framework for understanding temperature sensing by transient receptor potential (TRP) channels. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 19492-7	11.5	164
166	Melanopsin signalling in mammalian iris and retina. *Nature*, **2011**, 479, 67-73	50.4	192
165	ATP-activated P2X2 current in mouse spermatozoa. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 14342-7	11.5	47
164	Feeling the heat: Temperature sensing by ion channels how do they do it?. *Biochemist*, **2011**, 33, 22-25	0.5	
163	An aqueous H+ permeation pathway in the voltage-gated proton channel Hv1. *Nature Structural and Molecular Biology*, **2010**, 17, 869-875	17.6	131
162	International Union of Basic and Clinical Pharmacology. LXXVI. Current progress in the mammalian TRP ion channel family. *Pharmacological Reviews*, **2010**, 62, 381-404	22.5	414
161	Targeted cytosolic delivery of cell-impermeable compounds by nanoparticle-mediated, light-triggered endosome disruption. *Nano Letters*, **2010**, 10, 2211-9	11.5	104
160	TRP channel regulates EGFR signaling in hair morphogenesis and skin barrier formation. *Cell*, **2010**, 141, 331-43	56.2	205
159	TRPM1 forms ion channels associated with melanin content in melanocytes. *Science Signaling*, **2009**, 2, ra21	8.8	139
158	Mammalian MagT1 and TUSC3 are required for cellular magnesium uptake and vertebrate embryonic development. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 15750-5	11.5	150
157	Intracellular calcium strongly potentiates agonist-activated TRPC5 channels. *Journal of General Physiology*, **2009**, 133, 525-46	3.4	111
156	Hv1 proton channels are required for high-level NADPH oxidase-dependent superoxide production during the phagocyte respiratory burst. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 7642-7	11.5	192
155	Phenotyping sensory nerve endings in vitro in the mouse. *Nature Protocols*, **2009**, 4, 174-96	18.8	128
154	Essential role for TRPC5 in amygdala function and fear-related behavior. *Cell*, **2009**, 137, 761-72	56.2	202
153	Genome-wide RNAi screen identifies Letm1 as a mitochondrial Ca2+/H+ antiporter. *Science*, **2009**, 326, 144-7	33.3	398

152	Detailed comparison of expressed and native voltage-gated proton channel currents. *Journal of Physiology*, **2008**, 586, 2477-86	3.9	66
151	The MUPP1-SynGAPalpha protein complex does not mediate activity-induced LTP. *Molecular and Cellular Neurosciences*, **2008**, 38, 183-8	4.8	8
150	Deletion of Trpm7 disrupts embryonic development and thymopoiesis without altering Mg2+ homeostasis. *Science*, **2008**, 322, 756-60	33.3	310
149	TRPM7 facilitates cholinergic vesicle fusion with the plasma membrane. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 8304-8	11.5	78
148	Ion channels that control fertility in mammalian spermatozoa. *International Journal of Developmental Biology*, **2008**, 52, 607-13	1.9	99
147	Citral sensing by Transient [corrected] receptor potential channels in dorsal root ganglion neurons. *PLoS ONE*, **2008**, 3, e2082	3.7	83
146	Evolutionary genomics reveals lineage-specific gene loss and rapid evolution of a sperm-specific ion channel complex: CatSpers and CatSperbeta. *PLoS ONE*, **2008**, 3, e3569	3.7	76
145	KSper, a pH-sensitive K+ current that controls sperm membrane potential. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 7688-92	11.5	154
144	Activating mutation in a mucolipin transient receptor potential channel leads to melanocyte loss in varitint-waddler mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 18321-6	11.5	165
143	The voltage-gated Na+ channel NaVBP co-localizes with methyl-accepting chemotaxis protein at cell poles of alkaliphilic Bacillus pseudofirmus OF4. *Microbiology (United Kingdom)*, **2007**, 153, 4027-4038	2.9	23
142	CatSperbeta, a novel transmembrane protein in the CatSper channel complex. *Journal of Biological Chemistry*, **2007**, 282, 18945-52	5.4	122
141	All four CatSper ion channel proteins are required for male fertility and sperm cell hyperactivated motility. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 1219-23	11.5	376
140	SnapShot: mammalian TRP channels. *Cell*, **2007**, 129, 220	56.2	105
139	Calcium signaling. *Cell*, **2007**, 131, 1047-58	56.2	2756
138	Functional TRPM7 channels accumulate at the plasma membrane in response to fluid flow. *Circulation Research*, **2006**, 98, 245-53	15.7	198
137	CACNA1H mutations in autism spectrum disorders. *Journal of Biological Chemistry*, **2006**, 281, 22085-22091	5.4	168
136	Bisandrographolide from Andrographis paniculata activates TRPV4 channels. *Journal of Biological Chemistry*, **2006**, 281, 29897-904	5.4	111
135	Developmental origin of a bipotential myocardial and smooth muscle cell precursor in the mammalian heart. *Cell*, **2006**, 127, 1137-50	56.2	440

134	An introduction to TRP channels. *Annual Review of Physiology*, **2006**, 68, 619-47	23.1	1181
133	The TRPM7 ion channel functions in cholinergic synaptic vesicles and affects transmitter release. *Neuron*, **2006**, 52, 485-96	13.9	166
132	Oregano, thyme and clove-derived flavors and skin sensitizers activate specific TRP channels. *Nature Neuroscience*, **2006**, 9, 628-35	25.5	470
131	Whole-cell patch-clamp measurements of spermatozoa reveal an alkaline-activated Ca2+ channel. *Nature*, **2006**, 439, 737-40	50.4	325
130	A voltage-gated proton-selective channel lacking the pore domain. *Nature*, **2006**, 440, 1213-6	50.4	464
129	Calbindin-D28K dynamically controls TRPV5-mediated Ca2+ transport. *EMBO Journal*, **2006**, 25, 2978-88	13	101
128	Camphor activates and strongly desensitizes the transient receptor potential vanilloid subtype 1 channel in a vanilloid-independent mechanism. *Journal of Neuroscience*, **2005**, 25, 8924-37	6.6	290
127	International Union of Pharmacology. XLIX. Nomenclature and structure-function relationships of transient receptor potential channels. *Pharmacological Reviews*, **2005**, 57, 427-50	22.5	308
126	TRPC6 is a glomerular slit diaphragm-associated channel required for normal renal function. *Nature Genetics*, **2005**, 37, 739-44	36.3	640
125	TRP channels and mice deficient in TRP channels. *Pflugers Archiv European Journal of Physiology*, **2005**, 451, 11-8	4.6	36
124	International Union of Pharmacology. L. Nomenclature and structure-function relationships of CatSper and two-pore channels. *Pharmacological Reviews*, **2005**, 57, 451-4	22.5	42
123	TATA-binding protein (TBP)-like factor (TLF) is a functional regulator of transcription: reciprocal regulation of the neurofibromatosis type 1 and c-fos genes by TLF/TRF2 and TBP. *Molecular and Cellular Biology*, **2005**, 25, 2632-43	4.8	37
122	International Union of Pharmacology. LIV. Nomenclature and molecular relationships of inwardly rectifying potassium channels. *Pharmacological Reviews*, **2005**, 57, 509-26	22.5	217
121	A spontaneous, recurrent mutation in divalent metal transporter-1 exposes a calcium entry pathway. *PLoS Biology*, **2004**, 2, E50	9.7	50
120	The voltage-gated Na+ channel NaVBP has a role in motility, chemotaxis, and pH homeostasis of an alkaliphilic Bacillus. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 10566-71	11.5	92
119	A superfamily of voltage-gated sodium channels in bacteria. *Journal of Biological Chemistry*, **2004**, 279, 9532-8	5.4	133
118	Rapid vesicular translocation and insertion of TRP channels. *Nature Cell Biology*, **2004**, 6, 709-20	23.4	450
117	The mitochondrial calcium uniporter is a highly selective ion channel. *Nature*, **2004**, 427, 360-4	50.4	1048

116	TRP ion channels in the nervous system. *Current Opinion in Neurobiology*, **2004**, 14, 362-9	7.6	275
115	Phosphatidylinositol 3-kinase activates ERK in primary sensory neurons and mediates inflammatory heat hyperalgesia through TRPV1 sensitization. *Journal of Neuroscience*, **2004**, 24, 8300-9	6.6	332
114	SynGAP-MUPP1-CaMKII synaptic complexes regulate p38 MAP kinase activity and NMDA receptor-dependent synaptic AMPA receptor potentiation. *Neuron*, **2004**, 43, 563-74	13.9	219
113	Near-membrane protein dynamics revealed by evanescent field microscopy **2004**, 5467, 326		
112	Intracellular Signaling and Regulation of Cardiac Ion Channels **2004**, 33-41		5
111	International Union of Pharmacology: Approaches to the Nomenclature of Voltage-Gated Ion Channels. *Pharmacological Reviews*, **2003**, 55, 573-574	22.5	8
110	Formation of novel TRPC channels by complex subunit interactions in embryonic brain. *Journal of Biological Chemistry*, **2003**, 278, 39014-9	5.4	334
109	TRP channels as cellular sensors. *Nature*, **2003**, 426, 517-24	50.4	2060
108	TRPC5 is a regulator of hippocampal neurite length and growth cone morphology. *Nature Neuroscience*, **2003**, 6, 837-45	25.5	308
107	Symmetry, selectivity, and the 2003 Nobel Prize. *Cell*, **2003**, 115, 641-6	56.2	8
106	Real-time imaging of nuclear permeation by EGFP in single intact cells. *Biophysical Journal*, **2003**, 84, 1317-27	2.9	83
105	The NMDA receptor is coupled to the ERK pathway by a direct interaction between NR2B and RasGRF1. *Neuron*, **2003**, 40, 775-84	13.9	364
104	Mechanism of persistent protein kinase D1 translocation and activation. *Developmental Cell*, **2003**, 4, 561-74	10.2	45
103	International Union of Pharmacology. XLIII. Compendium of voltage-gated ion channels: transient receptor potential channels. *Pharmacological Reviews*, **2003**, 55, 591-6	22.5	206
102	CatSper1 required for evoked Ca2+ entry and control of flagellar function in sperm. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 14864-8	11.5	296
101	International Union of Pharmacology. XLI. Compendium of voltage-gated ion channels: potassium channels. *Pharmacological Reviews*, **2003**, 55, 583-6	22.5	247
100	Modified herpes simplex virus delivery of enhanced GFP into the central nervous system. *Journal of Neuroscience Methods*, **2002**, 121, 211-9	3	24
99	TRPV3 is a calcium-permeable temperature-sensitive cation channel. *Nature*, **2002**, 418, 181-6	50.4	682

98	The TRPM7 channel is inactivated by PIP(2) hydrolysis. *Nature Cell Biology*, **2002**, 4, 329-36	23.4	432
97	Sorting out MIC, TRP, and CRAC ion channels. *Journal of General Physiology*, **2002**, 120, 217-20	3.4	54
96	Signal transduction. Hot and cold TRP ion channels. *Science*, **2002**, 295, 2228-9	33.3	35
95	The cation selectivity filter of the bacterial sodium channel, NaChBac. *Journal of General Physiology*, **2002**, 120, 845-53	3.4	127
94	A unified nomenclature for the superfamily of TRP cation channels. *Molecular Cell*, **2002**, 9, 229-31	17.6	525
93	Structural characterization of the mouse Girk genes. *Gene*, **2002**, 284, 241-50	3.8	23
92	CaT1 manifests the pore properties of the calcium-release-activated calcium channel. *Nature*, **2001**, 410, 705-9	50.4	313
91	The TRP ion channel family. *Nature Reviews Neuroscience*, **2001**, 2, 387-96	13.5	907
90	A sperm ion channel required for sperm motility and male fertility. *Nature*, **2001**, 413, 603-9	50.4	672
89	A voltage-gated ion channel expressed specifically in spermatozoa. *Proceedings of the National Academy of Sciences of the United States of America*, **2001**, 98, 12527-31	11.5	247
88	Fundamental Ca2+ signaling mechanisms in mouse dendritic cells: CRAC is the major Ca2+ entry pathway. *Journal of Immunology*, **2001**, 166, 6126-33	5.3	72
87	The Stoichiometry of Gbeta gamma binding to G-protein-regulated inwardly rectifying K+ channels (GIRKs). *Journal of Biological Chemistry*, **2001**, 276, 11409-13	5.4	38
86	Evaluation of the role of I(KACh) in atrial fibrillation using a mouse knockout model. *Journal of the American College of Cardiology*, **2001**, 37, 2136-43	15.1	197
85	A prokaryotic voltage-gated sodium channel. *Science*, **2001**, 294, 2372-5	33.3	390
84	How to lose your hippocampus by working on chloride channels. *Neuron*, **2001**, 29, 1-3	13.9	24
83	TRPC1 and TRPC5 form a novel cation channel in mammalian brain. *Neuron*, **2001**, 29, 645-55	13.9	635
82	TRP-PLIK, a bifunctional protein with kinase and ion channel activities. *Science*, **2001**, 291, 1043-7	33.3	593
81	Excitability and Conduction **2001**, 311-335		1

80	Brain localization and behavioral impact of the G-protein-gated K+ channel subunit GIRK4. *Journal of Neuroscience*, **2000**, 20, 5608-15	6.6	99
79	Functional and biochemical evidence for G-protein-gated inwardly rectifying K+ (GIRK) channels composed of GIRK2 and GIRK3. *Journal of Biological Chemistry*, **2000**, 275, 36211-6	5.4	84
78	ICln is essential for cellular and early embryonic viability. *Journal of Biological Chemistry*, **2000**, 275, 12363-6	5.4	20
77	A switch mechanism for G beta gamma activation of I(KACh). *Journal of Biological Chemistry*, **2000**, 275, 29709-16	5.4	47
76	Distinct ion channel classes are expressed on the outer nuclear envelope of T- and B-lymphocyte cell lines. *Biophysical Journal*, **2000**, 79, 202-14	2.9	33
75	Active nuclear import and export is independent of lumenal Ca2+ stores in intact mammalian cells. *Journal of General Physiology*, **1999**, 113, 239-48	3.4	45
74	GIRK4 confers appropriate processing and cell surface localization to G-protein-gated potassium channels. *Journal of Biological Chemistry*, **1999**, 274, 2571-82	5.4	73
73	Structure, G protein activation, and functional relevance of the cardiac G protein-gated K+ channel, IKACh. *Annals of the New York Academy of Sciences*, **1999**, 868, 386-98	6.5	24
72	Functional expression and characterization of G-protein-gated inwardly rectifying K+ channels containing GIRK3. *Journal of Membrane Biology*, **1999**, 169, 123-9	2.3	47
71	Molecular determinants for subcellular localization of PSD-95 with an interacting K+ channel. *Neuron*, **1999**, 23, 149-57	13.9	107
70	Unlocking family secrets: K+ channel transmembrane domains. *Cell*, **1999**, 97, 547-50	56.2	11
69	Conformational changes of the in situ nuclear pore complex. *Biophysical Journal*, **1999**, 77, 241-7	2.9	81
68	Gbetagamma binding increases the open time of IKACh: kinetic evidence for multiple Gbetagamma binding sites. *Biophysical Journal*, **1999**, 76, 246-52	2.9	31
67	Chapter 16 G-Protein-Gated Potassium Channels: Implication for the weaver Mouse. *Current Topics in Membranes*, **1999**, 46, 295-320	2.2	1
66	pICln inhibits snRNP biogenesis by binding core spliceosomal proteins. *Molecular and Cellular Biology*, **1999**, 19, 4113-20	4.8	83
65	NMDA receptors amplify calcium influx into dendritic spines during associative pre- and postsynaptic activation. *Nature Neuroscience*, **1998**, 1, 114-8	25.5	185
64	Calcium regulation of nuclear pore permeability. *Cell Calcium*, **1998**, 23, 91-101	4	54
63	Abnormal heart rate regulation in GIRK4 knockout mice. *Neuron*, **1998**, 20, 103-14	13.9	329

62	A novel inward rectifier K+ channel with unique pore properties. *Neuron*, **1998**, 20, 995-1005	13.9	154
61	Not so funny anymore: pacing channels are cloned. *Neuron*, **1998**, 21, 5-7	13.9	98
60	Touch channels sense blood pressure. *Neuron*, **1998**, 21, 1224-6	13.9	0
59	The list of potential volume-sensitive chloride currents continues to swell (and shrink). *Journal of General Physiology*, **1998**, 111, 623-4	3.4	58
58	Number and stoichiometry of subunits in the native atrial G-protein-gated K+ channel, IKACh. *Journal of Biological Chemistry*, **1998**, 273, 5271-8	5.4	89
57	pICln binds to a mammalian homolog of a yeast protein involved in regulation of cell morphology. *Journal of Biological Chemistry*, **1998**, 273, 10811-4	5.4	45
56	Identification of native atrial G-protein-regulated inwardly rectifying K+ (GIRK4) channel homomultimers. *Journal of Biological Chemistry*, **1998**, 273, 27499-504	5.4	81
55	Gbeta binding to GIRK4 subunit is critical for G protein-gated K+ channel activation. *Journal of Biological Chemistry*, **1998**, 273, 16946-52	5.4	69
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