David E Clapham

List of Publications by Year
in descending order

227	51,218	1524 106	1436 220
papers	citations	h-index	g-index

264	264	264	39069
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A serotonergic axon-cilium synapse drives nuclear signaling to alter chromatin accessibility. Cell, 2022, 185, 3390-3407.e18.	27.8	76
2	Recording Electrical Currents across the Plasma Membrane of Mammalian Sperm Cells. Journal of Visualized Experiments, 2021, , .	0.3	4
3	Odontoblast TRPC5 channels signal cold pain in teeth. Science Advances, 2021, 7, .	10.9	55
4	Sperm CatSper ion channel swims into sharper focus. Nature, 2021, 595, 654-655.	36.2	2
5	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.	7.6	38
6	Isomeric Tuning Yields Bright and Targetable Red Ca²⁺ Indicators. Journal of the American Chemical Society, 2019, 141, 13734-13738.	14.6	56
7	Cryo-EM structure of TRPC5 at 2.8-Ã... resolution reveals unique and conserved structural elements essential for channel function. Science Advances, 2019, 5, eaaw7935.	10.9	75
8	Primary cilia and other mysteries. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2019, 92, 3-SL10.	0.0	0
9	Structure of full-length human TRPM4. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2377-2382.	7.6	84
10	Influences: Short circuits. Journal of General Physiology, 2018, 150, 513-515.	1.9	1
11	Structure of the mouse TRPC4 ion channel. Nature Communications, 2018, 9, 3102.	13.2	115
12	Cryo-EM structure of the polycystin 2-l1 ion channel. ELife, 2018, 7, .	5.9	45
13	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.	7.6	107
14	Leucine-rich repeat containing 8A (LRRC8A) â€“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.	2.9	37
15	Progress in ciliary ion channel physiology. Journal of General Physiology, 2017, 149, 37-47.	1.9	40
16	Histone phosphorylation by TRPM6â€™s 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.	7.6	36
17	TRPM7 senses oxidative stress to release Zn ²⁺ from unique intracellular vesicles. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E6079-E6088.	7.6	93
18	Molecular basis of ion permeability in a voltageâ€gated sodium channel. EMBO Journal, 2016, 35, 820-830.	8.2	100

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19	The Structure of the Polycystic Kidney Disease Channel PKD2 in Lipid Nanodiscs. Cell, 2016, 167, 763-773.e11.	27.8	222
20	Naturally Produced Defensive Alkenal Compounds Activate TRPA1. Chemical Senses, 2016, 41, 281-292.	2.1	11
21	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.	7.6	85
22	The Fungal Sexual Pheromone Sirenin Activates the Human CatSper Channel Complex. ACS Chemical Biology, 2016, 11, 452-459.	3.6	8
23	Atypical calcium regulation of the PKD2-L1 polycystin ion channel. ELife, 2016, 5, .	5.9	42
24	Insights into the early evolution of animal calcium signaling machinery: A unicellular point of view. Cell Calcium, 2015, 57, 166-173.	3.2	57
25	Pain-sensing TRPA1 channel resolved. Nature, 2015, 520, 439-441.	36.2	18
26	Ion channels and calcium signaling in motile cilia. ELife, 2015, 4, .	5.9	39
27	Direct Recording and Molecular Identification of the Calcium Channel of Primary Cilia. Biophysical Journal, 2014, 106, 638a.	0.5	0
28	Structurally Distinct Ca2+ Signaling Domains of Sperm Flagella Orchestrate Tyrosine Phosphorylation and Motility. Cell, 2014, 157, 808-822.	27.8	225
29	Functional reconstitution of the mitochondrial Ca2+/H+ antiporter Letm1. Journal of General Physiology, 2014, 143, 67-73.	1.9	126
30	Early Evolution of the Eukaryotic Ca2+ Signaling Machinery: Conservation of the CatSper Channel Complex. Molecular Biology and Evolution, 2014, 31, 2735-2740.	9.2	45
31	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, 8428-8433.	7.6	124
32	Therapeutic Restoration of Spinal Inhibition via Druggable Enhancement of Potassium-Chloride Cotransporter KCC2â€“Mediated Chloride Extrusion in Peripheral Neuropathic Pain. JAMA Neurology, 2014, 71, 640.	9.3	52
33	Decreased Anxiety-Like Behavior and G_{Î±q/11}-Dependent Responses in the Amygdala of Mice Lacking TRPC4 Channels. Journal of Neuroscience, 2014, 34, 3653-3667.	3.8	89
34	Caspase-11 Controls Interleukin-1Î² Release through Degradation of TRPC1. Cell Reports, 2014, 6, 1122-1128.	6.3	89
35	Outstanding questions regarding the permeation, selectivity, and regulation of the mitochondrial calcium uniporter. Biochemical and Biophysical Research Communications, 2014, 449, 367-369.	2.2	8
36	The TRPM7 Chanzyme Is Cleaved to Release a Chromatin-Modifying Kinase. Cell, 2014, 157, 1061-1072.	27.8	152

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37	Ionic selectivity and thermal adaptations within the voltage-gated sodium channel family of alkaliphilic Bacillus. ELife, 2014, 3, .	5.9	37
38	TRPV3 Channels Mediate Strontium-Induced Mouse-Egg Activation. Cell Reports, 2013, 5, 1375-1386.	6.3	64
39	Primary cilia are specialized calcium signalling organelles. Nature, 2013, 504, 311-314.	36.2	443
40	Direct recording and molecular identification of the calcium channel of primary cilia. Nature, 2013, 504, 315-318.	36.2	274
41	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, 6364-6369.	7.6	154
42	Analysis of the selectivity filter of the voltage-gated sodium channel NavRh. Cell Research, 2013, 23, 409-422.	12.2	48
43	mTOR Regulates Lysosomal ATP-Sensitive Two-Pore Na+ Channels to Adapt to Metabolic State. Cell, 2013, 152, 778-790.	27.8	323
44	Rheotaxis Guides Mammalian Sperm. Current Biology, 2013, 23, 443-452.	4.0	352
45	Sperm Patch-Clamp. Methods in Enzymology, 2013, 525, 59-83.	1.7	30
46	Timing of Myocardial Trpm7 Deletion During Cardiogenesis Variably Disrupts Adult Ventricular Function, Conduction, and Repolarization. Circulation, 2013, 128, 101-114.	9.3	95
47	The G-proteinâ€“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, 113-126.	1.9	72
48	Simultaneous knockout ofSlo3andCatSper1abolishes all alkalization- and voltage-activated current in mouse spermatozoa. Journal of General Physiology, 2013, 142, 305-313.	1.9	65
49	Ion channel-kinase TRPM 7 is required for maintaining cardiac automaticity. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3037-46.	7.6	100
50	Letm1, the mitochondrial Ca ²⁺ /H ⁺ antiporter, is essential for normal glucose metabolism and alters brain function in Wolfâ€“Hirschhorn syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2249-54.	7.6	116
51	Role of the C-terminal domain in the structure and function of tetrameric sodium channels. Nature Communications, 2013, 4, 2465.	13.2	73
52	MCU encodes the pore conducting mitochondrial calcium currents. ELife, 2013, 2, e00704.	5.9	162
53	Sperm BerserKers. ELife, 2013, 2, e01469.	5.9	7
54	The mother of all endocytosis. ELife, 2013, 2, e01738.	5.9	3

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55	Ancestral Ca2+ Signaling Machinery in Early Animal and Fungal Evolution. Molecular Biology and Evolution, 2012, 29, 91-100.	9.2	91
56	The voltage-gated proton channel Hv1 enhances brain damage from ischemic stroke. Nature Neuroscience, 2012, 15, 565-573.	14.5	213
57	TRPV4 Is a Regulator of Adipose Oxidative Metabolism, Inflammation, and Energy Homeostasis. Cell, 2012, 151, 96-110.	27.8	300
58	TPC Proteins Are Phosphoinositide- Activated Sodium-Selective Ion Channels in Endosomes and Lysosomes. Cell, 2012, 151, 372-383.	27.8	467
59	The Control of Male Fertility by Spermatozoan Ion Channels. Annual Review of Physiology, 2012, 74, 453-475.	13.2	299
60	Cleavage of TRPM7 Releases the Kinase Domain from the Ion Channel and Regulates Its Participation in Fas-Induced Apoptosis. Developmental Cell, 2012, 22, 1149-1162.	7.0	134
61	Controlled delivery of bioactive molecules into live cells using the bacterial mechanosensitive channel MscL. Nature Communications, 2012, 3, 990.	13.2	55
62	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.	7.6	154
63	Anion-Sensitive Fluorophore Identifies the Drosophila Swell-Activated Chloride Channel in a Genome-Wide RNA Interference Screen. PLoS ONE, 2012, 7, e46865.	2.5	27
64	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, 7888-7892.	7.6	57
65	Crystal structure of an orthologue of the NaChBac voltage-gated sodium channel. Nature, 2012, 486, 130-134.	36.2	448
66	A novel gene required for male fertility and functional CATSPER channel formation in spermatozoa. Nature Communications, 2011, 2, 153.	13.2	174
67	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, 19234-19239.	7.6	102
68	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, 18114-18119.	7.6	199
69	TRPM7, the Mg2+ Inhibited Channel and Kinase. Advances in Experimental Medicine and Biology, 2011, 704, 173-183.	0.0	72
70	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, 19492-19497.	7.6	220
71	ATP-activated P2X2 current in mouse spermatozoa. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14342-14347.	7.6	54
72	Feeling the heat: Temperature sensing by ion channels â€“ how do they do it?. Biochemist, 2011, 33, 22-25.	0.5	0

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73	An aqueous H+ permeation pathway in the voltage-gated proton channel Hv1. Nature Structural and Molecular Biology, 2010, 17, 869-875.	8.1	163
74	International Union of Basic and Clinical Pharmacology. LXXVI. Current Progress in the Mammalian TRP Ion Channel Family. Pharmacological Reviews, 2010, 62, 381-404.	16.1	517
75	Targeted Cytosolic Delivery of Cell-Impermeable Compounds by Nanoparticle-Mediated, Light-Triggered Endosome Disruption. Nano Letters, 2010, 10, 2211-2219.	9.5	111
76	TRP Channel Regulates EGFR Signaling in Hair Morphogenesis and Skin Barrier Formation. Cell, 2010, 141, 331-343.	27.8	293
77	TRPM1 Forms Ion Channels Associated with Melanin Content in Melanocytes. Science Signaling, 2009, 2, ra21.	5.1	171
78	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, 15750-15755.	7.6	177
79	Intracellular calcium strongly potentiates agonist-activated TRPC5 channels. Journal of General Physiology, 2009, 133, 525-546.	1.9	130
80	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, 7642-7647.	7.6	238
81	A STIMulus Package Puts Orai Calcium Channels to Work. Cell, 2009, 136, 814-816.	27.8	29
82	Essential Role for TRPC5 in Amygdala Function and Fear-Related Behavior. Cell, 2009, 137, 761-772.	27.8	254
83	The MUPP1â€“SynGAPÎ± protein complex does not mediate activity-induced LTP. Molecular and Cellular Neurosciences, 2008, 38, 183-188.	2.2	8
84	TRPM7 facilitates cholinergic vesicle fusion with the plasma membrane. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 8304-8308.	7.6	97
85	Ion channels that control fertility in mammalian spermatozoa. International Journal of Developmental Biology, 2008, 52, 607-613.	0.7	125
86	Citral Sensing by TRANSient Receptor Potential Channels in Dorsal Root Ganglion Neurons. PLoS ONE, 2008, 3, e2082.	2.5	103
87	Evolutionary Genomics Reveals Lineage-Specific Gene Loss and Rapid Evolution of a Sperm-Specific Ion Channel Complex: CatSpers and CatSperÎ². PLoS ONE, 2008, 3, e3569.	2.5	95
88	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, 7688-7692.	7.6	203
89	Activating mutation in a mucolipin transient receptor potential channel leads to melanocyte loss in varitintâ€“waddler mice. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18321-18326.	7.6	194
90	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.	1.8	27

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91	CatSperÎ², a Novel Transmembrane Protein in the CatSper Channel Complex. Journal of Biological Chemistry, 2007, 282, 18945-18952.	3.5	150
92	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, 1219-1223.	7.6	463
93	Calcium Signaling. Cell, 2007, 131, 1047-1058.	27.8	3,672
94	Bisandrographolide from Andrographis paniculata Activates TRPV4 Channels. Journal of Biological Chemistry, 2006, 281, 29897-29904.	3.5	131
95	Developmental Origin of a Bipotential Myocardial and Smooth Muscle Cell Precursor in the Mammalian Heart. Cell, 2006, 127, 1137-1150.	27.8	504
96	AN INTRODUCTION TO TRP CHANNELS. Annual Review of Physiology, 2006, 68, 619-647.	13.2	1,404
97	The TRPM7 Ion Channel Functions in Cholinergic Synaptic Vesicles and Affects Transmitter Release. Neuron, 2006, 52, 485-496.	8.0	188
98	Oregano, thyme and clove-derived flavors and skin sensitizers activate specific TRP channels. Nature Neuroscience, 2006, 9, 628-635.	14.5	561
99	Whole-cell patch-clamp measurements of spermatozoa reveal an alkaline-activated Ca2+ channel. Nature, 2006, 439, 737-740.	36.2	412
100	A voltage-gated proton-selective channel lacking the pore domain. Nature, 2006, 440, 1213-1216.	36.2	555
101	Calbindin-D28K dynamically controls TRPV5-mediated Ca2+ transport. EMBO Journal, 2006, 25, 2978-2988.	8.2	128
102	Functional TRPM7 Channels Accumulate at the Plasma Membrane in Response to Fluid Flow. Circulation Research, 2006, 98, 245-253.	10.7	228
103	CACNA1H Mutations in Autism Spectrum Disorders. Journal of Biological Chemistry, 2006, 281, 22085-22091.	3.5	206
104	TRPC6 is a glomerular slit diaphragm-associated channel required for normal renal function. Nature Genetics, 2005, 37, 739-744.	20.4	757
105	TRP channels and mice deficient in TRP channels. Pflugers Archiv European Journal of Physiology, 2005, 451, 11-18.	2.8	41
106	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, 2632-2643.	2.5	42
107	Camphor Activates and Strongly Desensitizes the Transient Receptor Potential Vanilloid Subtype 1 Channel in a Vanilloid-Independent Mechanism. Journal of Neuroscience, 2005, 25, 8924-8937.	3.8	348
108	A Spontaneous, Recurrent Mutation in Divalent Metal Transporter-1 Exposes a Calcium Entry Pathway. PLoS Biology, 2004, 2, e50.	5.4	60

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109	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, 10566-10571.	7.6	110
110	A Superfamily of Voltage-gated Sodium Channels in Bacteria*. Journal of Biological Chemistry, 2004, 279, 9532-9538.	3.5	151
111	Rapid vesicular translocation and insertion of TRP channels. Nature Cell Biology, 2004, 6, 709-720.	10.0	501
112	The mitochondrial calcium uniporter is a highly selective ion channel. Nature, 2004, 427, 360-364.	36.2	1,246
113	TRP ion channels in the nervous system. Current Opinion in Neurobiology, 2004, 14, 362-369.	4.3	301
114	Phosphatidylinositol 3-Kinase Activates ERK in Primary Sensory Neurons and Mediates Inflammatory Heat Hyperalgesia through TRPV1 Sensitization. Journal of Neuroscience, 2004, 24, 8300-8309.	3.8	372
115	SynGAP-MUPP1-CaMKII Synaptic Complexes Regulate p38 MAP Kinase Activity and NMDA Receptor-Dependent Synaptic AMPA Receptor Potentiation. Neuron, 2004, 43, 563-574.	8.0	258
116	Near-membrane protein dynamics revealed by evanescent field microscopy. , 2004, 5467, 326.		0
117	Intracellular Signaling and Regulation of Cardiac Ion Channels. , 2004, , 33-41.		7
118	TRP channels as cellular sensors. Nature, 2003, 426, 517-524.	36.2	2,434
119	TRPC5 is a regulator of hippocampal neurite length and growth cone morphology. Nature Neuroscience, 2003, 6, 837-845.	14.5	346
120	Symmetry, Selectivity, and the 2003 Nobel Prize. Cell, 2003, 115, 641-646.	27.8	8
121	Real-Time Imaging of Nuclear Permeation by EGFP in Single Intact Cells. Biophysical Journal, 2003, 84, 1317-1327.	0.5	91
122	The NMDA Receptor Is Coupled to the ERK Pathway by a Direct Interaction between NR2B and RasGRF1. Neuron, 2003, 40, 775-784.	8.0	401
123	Mechanism of Persistent Protein Kinase D1 Translocation and Activation. Developmental Cell, 2003, 4, 561-574.	7.0	51
124	International Union of Pharmacology. XLIII. Compendium of Voltage-Gated Ion Channels: Transient Receptor Potential Channels. Pharmacological Reviews, 2003, 55, 591-596.	16.1	230
125	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, 14864-14868.	7.6	361
126	International Union of Pharmacology. XLI. Compendium of Voltage-Gated Ion Channels: Potassium Channels. Pharmacological Reviews, 2003, 55, 583-586.	16.1	364

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127	Formation of Novel TRPC Channels by Complex Subunit Interactions in Embryonic Brain. Journal of Biological Chemistry, 2003, 278, 39014-39019.	3.5	377
128	Sorting out MIC, TRP, and CRAC Ion Channels. Journal of General Physiology, 2002, 120, 217-220.	1.9	58
129	SIGNAL TRANSDUCTION: Hot and Cold TRP Ion Channels. Science, 2002, 295, 2228-2229.	20.9	44
130	The Cation Selectivity Filter of the Bacterial Sodium Channel, NaChBac. Journal of General Physiology, 2002, 120, 845-853.	1.9	144
131	A Unified Nomenclature for the Superfamily of TRP Cation Channels. Molecular Cell, 2002, 9, 229-231.	9.6	631
132	Structural characterization of the mouse Girk genes. Gene, 2002, 284, 241-250.	2.3	26
133	Modified herpes simplex virus delivery of enhanced GFP into the central nervous system. Journal of Neuroscience Methods, 2002, 121, 211-219.	2.6	26
134	TRPV3 is a calcium-permeable temperature-sensitive cation channel. Nature, 2002, 418, 181-186.	36.2	805
135	The TRPM7 channel is inactivated by PIP2 hydrolysis. Nature Cell Biology, 2002, 4, 329-336.	10.0	485
136	Evaluation of the role of IKAChin atrial fibrillation using a mouse knockout model. Journal of the American College of Cardiology, 2001, 37, 2136-2143.	5.6	238
137	How to Lose Your Hippocampus by Working on Chloride Channels. Neuron, 2001, 29, 1-3.	8.0	24
138	TRPC1 and TRPC5 Form a Novel Cation Channel in Mammalian Brain. Neuron, 2001, 29, 645-655.	8.0	701
139	TRP-PLIK, a Bifunctional Protein with Kinase and Ion Channel Activities. Science, 2001, 291, 1043-1047.	20.9	687
140	Excitability and Conduction. , 2001, , 311-335.		1
141	CaT1 manifests the pore properties of the calcium-release-activated calcium channel. Nature, 2001, 410, 705-709.	36.2	337
142	The trp ion channel family. Nature Reviews Neuroscience, 2001, 2, 387-396.	10.7	1,040
143	A sperm ion channel required for sperm motility and male fertility. Nature, 2001, 413, 603-609.	36.2	857
144	A voltage-gated ion channel expressed specifically in spermatozoa. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 12527-12531.	7.6	293

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145	Fundamental Ca2+ Signaling Mechanisms in Mouse Dendritic Cells: CRAC Is the Major Ca2+ Entry Pathway. Journal of Immunology, 2001, 166, 6126-6133.	0.8	82
146	The Stoichiometry of GÎ²Î³ Binding to G-protein-regulated Inwardly Rectifying K+ Channels (GIRKs). Journal of Biological Chemistry, 2001, 276, 11409-11413.	3.5	43
147	Brain Localization and Behavioral Impact of the G-Protein-Gated K⁺Channel Subunit GIRK4. Journal of Neuroscience, 2000, 20, 5608-5615.	3.8	113
148	Functional and Biochemical Evidence for G-protein-gated Inwardly Rectifying K+ (GIRK) Channels Composed of GIRK2 and GIRK3. Journal of Biological Chemistry, 2000, 275, 36211-36216.	3.5	99
149	ICln Is Essential for Cellular and Early Embryonic Viability. Journal of Biological Chemistry, 2000, 275, 12363-12366.	3.5	33
150	A Switch Mechanism for GÎ²Î³ Activation of IKACh. Journal of Biological Chemistry, 2000, 275, 29709-29716.	3.5	55
151	Distinct Ion Channel Classes Are Expressed on the Outer Nuclear Envelope of T- and B-Lymphocyte Cell Lines. Biophysical Journal, 2000, 79, 202-214.	0.5	37
152	Active Nuclear Import and Export Is Independent of Lumenal Ca2+ Stores in Intact Mammalian Cells. Journal of General Physiology, 1999, 113, 239-248.	1.9	50
153	GIRK4 Confers Appropriate Processing and Cell Surface Localization to G-protein-gated Potassium Channels. Journal of Biological Chemistry, 1999, 274, 2571-2582.	3.5	77
154	More pieces of the K+ ion channel puzzle. Nature Structural and Molecular Biology, 1999, 6, 807-810.	8.1	4
155	Molecular Determinants for Subcellular Localization of PSD-95 with an Interacting K+ Channel. Neuron, 1999, 23, 149-157.	8.0	119
156	Unlocking Family Secrets. Cell, 1999, 97, 547-550.	27.8	13
157	Conformational Changes of the in Situ Nuclear Pore Complex. Biophysical Journal, 1999, 77, 241-247.	0.5	90
158	GÎ²Î³ Binding Increases the Open Time of IKACh: Kinetic Evidence for Multiple GÎ²Î³ Binding Sites. Biophysical Journal, 1999, 76, 246-252.	0.5	38
159	Chapter 16 G-Protein-Gated Potassium Channels: Implication for the weaver Mouse. Current Topics in Membranes, 1999, 46, 295-320.	2.0	1
160	pICln Inhibits snRNP Biogenesis by Binding Core Spliceosomal Proteins. Molecular and Cellular Biology, 1999, 19, 4113-4120.	2.5	93
161	At last, the structure of an ion-selective channel. Nature Structural Biology, 1998, 5, 342-344.	8.1	8
162	Calcium regulation of nuclear pore permeability. Cell Calcium, 1998, 23, 91-101.	3.2	58

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163	Abnormal Heart Rate Regulation in GIRK4 Knockout Mice. Neuron, 1998, 20, 103-114.	8.0	358
164	A Novel Inward Rectifier K+ Channel with Unique Pore Properties. Neuron, 1998, 20, 995-1005.	8.0	174
165	Not So Funny Anymore. Neuron, 1998, 21, 5-7.	8.0	114
166	Touch Channels Sense Blood Pressure. Neuron, 1998, 21, 1224-1226.	8.0	1
167	Perspective: The List of Potential Volume-sensitive Chloride Currents Continues to Swell (and Shrink). Journal of General Physiology, 1998, 111, 623-624.	1.9	58
168	Number and Stoichiometry of Subunits in the Native Atrial G-protein-gated K+ Channel, IKACh. Journal of Biological Chemistry, 1998, 273, 5271-5278.	3.5	107
169	pICln Binds to a Mammalian Homolog of a Yeast Protein Involved in Regulation of Cell Morphology. Journal of Biological Chemistry, 1998, 273, 10811-10814.	3.5	57
170	Identification of Native Atrial G-protein-regulated Inwardly Rectifying K+ (GIRK4) Channel Homomultimers. Journal of Biological Chemistry, 1998, 273, 27499-27504.	3.5	91
171	Gî²î³ Binding to GIRK4 Subunit Is Critical for G Protein-gated K+ Channel Activation. Journal of Biological Chemistry, 1998, 273, 16946-16952.	3.5	79
172	Evidence for Direct Physical Association between a K⁺Channel (Kir6.2) and an ATP-Binding Cassette Protein (SUR1) Which Affects Cellular Distribution and Kinetic Behavior of an ATP-Sensitive K⁺ Channel. Molecular and Cellular Biology, 1998, 18, 1652-1659.	2.5	79
173	Mechanisms of Transmembrane Signaling. , 1997, , 689-742.		0
174	G PROTEIN î²î³ SUBUNITS. Annual Review of Pharmacology and Toxicology, 1997, 37, 167-203.	9.6	797
175	Ion Channels â€" Basic Science and Clinical Disease. New England Journal of Medicine, 1997, 336, 1575-1586.	30.1	363
176	Partial Structure, Chromosome Localization, and Expression of the MouseIclnGene. Genomics, 1997, 40, 402-408.	2.9	13
177	Partial Structure, Chromosome Localization, and Expression of the MouseGirk4Gene. Genomics, 1997, 40, 395-401.	2.9	23
178	Some like it hot: spicing up ion channels. Nature, 1997, 389, 783-784.	36.2	52
179	Calcium release and influx colocalize to the endoplasmic reticulum. Current Biology, 1997, 7, 599-602.	4.0	57
180	Nucleoplasmic and cytoplasmic differences in the fluorescence properties of the calcium indicator Fluo-3. Cell Calcium, 1997, 21, 275-282.	3.2	97

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181	Nuclear calcium and the regulation of the nuclear pore complex. BioEssays, 1997, 19, 787-792.	2.6	65
182	Cloning of a Xenopus laevis Inwardly Rectifying K+ Channel Subunit That Permits GIRK1 Expression of IKACh Currents in Oocytes. Neuron, 1996, 16, 423-429.	8.0	180
183	TRP Is Cracked but Is CRAC TRP?. Neuron, 1996, 16, 1069-1072.	8.0	80
184	Intracellular signalling: More jobs for GÎ²Î³. Current Biology, 1996, 6, 814-816.	4.0	15
185	The G-protein nanomachine. Nature, 1996, 379, 297-299.	36.2	118
186	Replenishing the stores. Nature, 1995, 375, 634-635.	36.2	170
187	The G Protein Î²Î³ Subunit Transduces the Muscarinic Receptor Signal for Ca2+ Release in Xenopus Oocytes. Journal of Biological Chemistry, 1995, 270, 30068-30074.	3.5	76
188	The Cardiac Inward Rectifier K+ Channel Subunit, CIR, Does Not Comprise the ATP-sensitive K+ Channel, IKATP. Journal of Biological Chemistry, 1995, 270, 28777-28779.	3.5	51
189	GÎ²Î³ Binds Directly to the G Protein-gated K+ Channel, IKACh. Journal of Biological Chemistry, 1995, 270, 29059-29062.	3.5	217
190	Calcium release from the nucleus by InsP3 receptor channels. Neuron, 1995, 14, 163-167.	8.0	195
191	G-protein regulation of ion channels. Current Opinion in Neurobiology, 1995, 5, 278-285.	4.3	82
192	Calcium signaling. Cell, 1995, 80, 259-268.	27.8	2,356
193	1 Intracellular calcium waves. Advances in Second Messenger and Phosphoprotein Research, 1995, 30, 1-24.	0.0	26
194	Simultaneous Ultraviolet and Visible Wavelength Confocal Microscopy. , 1994, , 95-100.		1
195	Recombinant G-protein Î²Î³-subunits activate the muscarinic-gated atrial potassium channel. Nature, 1994, 368, 255-257.	36.2	453
196	Why testicles are cool. Nature, 1994, 371, 109-110.	36.2	7
197	Molecular characterization of a swelling-induced chloride conductance regulatory protein, pICln. Cell, 1994, 76, 439-448.	27.8	206
198	[27] G-protein-mediated pathways assayed by electrophysiology and confocal microscopy. Methods in Enzymology, 1994, 238, 321-335.	1.7	0

#	Article	IF	Citations
199	Simultaneous Near Ultraviolet and Visible Excitation Confocal Microscopy of Calcium Transients in Xenopus Oocytes. Methods in Cell Biology, 1994, 40, 263-284.	2.1	6
200	A mysterious new influx factor?. Nature, 1993, 364, 763-764.	36.2	38
201			

#	Article	IF	Citations
217	G-protein Î²Î³-subunits activate the cardiac muscarinic K+-channel via phospholipase A2. Nature, 1989, 337, 557-560.	36.2	438
218	Roles of G protein subunits in transmembrane signalling. Nature, 1988, 333, 129-134.	36.2	839
219	The Î²Î³ subunits of GTP-binding proteins activate the muscarinic K+ channel in heart. Nature, 1987, 325, 321-326.	36.2	1,182
220	G protein opening of K+ channels. Nature, 1987, 327, 22-22.	36.2	9
221	Voltage-Activated K Channels in Embryonic Chick Heart. Biophysical Journal, 1984, 45, 40-42.	0.5	36
222	Small signal impedance of heart cell membranes. Journal of Membrane Biology, 1982, 67, 63-71.	2.3	13
223	Intercellular Coupling between Embryonic Heart Cell Aggregates. Developments in Cardiovascular Medicine, 1982, , 265-281.	0.0	1
224	Development of electrical coupling and action potential synchrony between paired aggregates of embryonic heart cells. Journal of Membrane Biology, 1979, 51, 75-96.	2.3	59
225	The theoretical small signal impedance of the frog node,Rana pipiens. Pflugers Archiv European Journal of Physiology, 1976, 366, 273-276.	2.8	14
226	Visualizing synaptic dopamine efflux with a 2D composite nanofilm. ELife, 0, 11, .	5.9	19
227	The SARS-CoV-2 accessory protein Orf3a is not an ion channel, but does interact with trafficking proteins. ELife, 0, 12, .	5.9	28