Geoffrey S Pitt

List of Publications by Year
in descending order

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97 papers	6,048 citations	71102 41 h-index	74163 75 g-index
104 all docs	104 docs citations	104 times ranked	6150 citing authors

#	Article	IF	Citations
1	Calmodulin supports both inactivation and facilitation of L-type calcium channels. Nature, 1999, 399, 159-162.	27.8	838
2	Structurally distinct and stage-specific adenylyl cyclase genes play different roles in dictyostelium development. Cell, 1992, 69, 305-315.	28.9	313
3	CaMKII tethers to L-type Ca2+ channels, establishing a local and dedicated integrator of Ca2+ signals for facilitation. Journal of Cell Biology, 2005, 171, 537-547.	5.2	307
4	Molecular Basis of Calmodulin Tethering and Ca2+-dependent Inactivation of L-type Ca2+ Channels. Journal of Biological Chemistry, 2001, 276, 30794-30802.	3.4	265
5	Progress in Understanding and Treating SCN2A-Mediated Disorders. Trends in Neurosciences, 2018, 41, 442-456.	8.6	210
6	Thermosensory and Nonthermosensory Isoforms of Drosophila melanogaster TRPA1 Reveal Heat-Sensor Domains of a ThermoTRP Channel. Cell Reports, 2012, 1, 43-55.	6.4	198
7	Targeted Epigenetic Remodeling of Endogenous Loci by CRISPR/Cas9-Based Transcriptional Activators Directly Converts Fibroblasts to Neuronal Cells. Cell Stem Cell, 2016, 19, 406-414.	11.1	182
8	Ca2+-sensitive Inactivation and Facilitation of L-type Ca2+ Channels Both Depend on Specific Amino Acid Residues in a Consensus Calmodulin-binding Motif in theÎ±1C subunit. Journal of Biological Chemistry, 2000, 275, 21121-21129.	3.4	174
9	Mechanism of adrenergic CaV1.2 stimulation revealed by proximity proteomics. Nature, 2020, 577, 695-700.	27.8	163
10	Calmodulin Mediates Ca2+ Sensitivity of Sodium Channels. Journal of Biological Chemistry, 2004, 279, 45004-45012.	3.4	161
11	KCNQ1 Assembly and Function Is Blocked by Long-QT Syndrome Mutations That Disrupt Interaction With Calmodulin. Circulation Research, 2006, 98, 1048-1054.	4.5	154
12	Identification of the Components Controlling Inactivation of Voltage-Gated Ca2+ Channels. Neuron, 2004, 41, 745-754.	8.1	151
13	Crystal Structure of the Ternary Complex of a NaV C-Terminal Domain, a Fibroblast Growth Factor Homologous Factor, and Calmodulin. Structure, 2012, 20, 1167-1176.	3.3	138
14	A spatially resolved brain region- and cell type-specific isoform atlas of the postnatal mouse brain. Nature Communications, 2021, 12, 463.	12.8	109
15	Fibroblast Growth Factor Homologous Factor 13 Regulates Na ⁺ Channels and Conduction Velocity in Murine Hearts. Circulation Research, 2011, 109, 775-782.	4.5	104
16	FGF12 is a candidate Brugada syndrome locus. Heart Rhythm, 2013, 10, 1886-1894.	0.7	94
17	Accessory Subunit KChIP2 Modulates the Cardiac L-Type Calcium Current. Circulation Research, 2009, 104, 1382-1389.	4.5	88
18	Structural analyses of Ca2+/CaM interaction with NaV channel C-termini reveal mechanisms of calcium-dependent regulation. Nature Communications, 2014, 5, 4896.	12.8	86

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19	Calmodulin and CaMKII as molecular switches for cardiac ion channels: Fig. 1. Cardiovascular Research, 2007, 73, 641-647.	3.8	81
20	Adenylyl Cyclase G, an Osmosensor Controlling Germination of Dictyostelium Spores. Journal of Biological Chemistry, 1996, 271, 23623-23625.	3.4	79
21	A VGF-Derived Peptide Attenuates Development of Type 2 Diabetes via Enhancement of Islet Î²-Cell Survival and Function. Cell Metabolism, 2012, 16, 33-43.	16.2	79
22	Role of cAMP-Dependent Protein Kinase in Controlling Aggregation and Postaggregative Development inDictyostelium. Developmental Biology, 1997, 183, 208-221.	2.0	74
23	Identification of Novel Interaction Sites that Determine Specificity between Fibroblast Growth Factor Homologous Factors and Voltage-gated Sodium Channels. Journal of Biological Chemistry, 2011, 286, 24253-24263.	3.4	73
24	Calcium influx through L-type CaV1.2 Ca2+ channels regulates mandibular development. Journal of Clinical Investigation, 2013, 123, 1638-1646.	8.2	71
25	Calcium Channel Function Regulated by the SH3-GK Module in Î² Subunits. Neuron, 2004, 42, 89-99.	8.1	69
26	Fibroblast Growth Factor Homologous Factors Modulate Cardiac Calcium Channels. Circulation Research, 2013, 113, 381-388.	4.5	65
27	The two-pore domain potassium channel TREK-1 mediates cardiac fibrosis and diastolic dysfunction. Journal of Clinical Investigation, 2018, 128, 4843-4855.	8.2	62
28	FGF14 Regulates Presynaptic Ca2+ Channels and Synaptic Transmission. Cell Reports, 2013, 4, 66-75.	6.4	61
29	Essential CavÎ² modulatory properties are AID-independent. Nature Structural and Molecular Biology, 2005, 12, 372-377.	8.2	60
30	Na⁺ channel function, regulation, structure, trafficking and sequestration. Journal of Physiology, 2015, 593, 1347-1360.	2.9	59
31	FGF14 modulates resurgent sodium current in mouse cerebellar Purkinje neurons. ELife, 2014, 3, e04193.	6.0	56
32	Ca²⁺/Calmodulin Regulates Trafficking of Ca_V1.2 Ca²⁺Channels in Cultured Hippocampal Neurons. Journal of Neuroscience, 2007, 27, 9086-9093.	3.6	54
33	Polarized localization of voltage-gated Na ⁺ channels is regulated by concerted FGF13 and FGF14 action. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2665-74.	7.1	52
34	SCN5A variant that blocks fibroblast growth factor homologous factor regulation causes human arrhythmia. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12528-12533.	7.1	51
35	Remodeled cardiac calcium channels. Journal of Molecular and Cellular Cardiology, 2006, 41, 373-388.	1.9	50
36	Calmodulin limits pathogenic Na+ channel persistent current. Journal of General Physiology, 2017, 149, 277-293.	1.9	50

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37	Calcium Channel Mutations in Cardiac Arrhythmia Syndromes. Current Molecular Pharmacology, 2015, 8, 133-142.	1.5	50
38	Cardiac CaV1.2 channels require Î² subunits for Î²-adrenergicâ€“mediated modulation but not trafficking. Journal of Clinical Investigation, 2019, 129, 647-658.	8.2	49
39	SARS-CoV-2 Infection Induces Ferroptosis of Sinoatrial Node Pacemaker Cells. Circulation Research, 2022, 130, 963-977.	4.5	49
40	STIM1â€“Ca ²⁺ signaling modulates automaticity of the mouse sinoatrial node. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E5618-27.	7.1	47
41	The S1103Y Cardiac Sodium Channel Variant Is Associated With Implantable Cardioverter-Defibrillator Events in Blacks With Heart Failure and Reduced Ejection Fraction. Circulation: Cardiovascular Genetics, 2011, 4, 163-168.	5.1	46
42	Dose-dependent and Isoform-specific Modulation of Ca2+ Channels by RGK GTPases. Journal of General Physiology, 2006, 128, 605-613.	1.9	45
43	Dissection of a Quantitative Trait Locus for PR Interval Duration Identifies Tnni3k as a Novel Modulator of Cardiac Conduction. PLoS Genetics, 2012, 8, e1003113.	3.5	45
44	A CACNA1C Variant Associated with Reduced Voltage-Dependent Inactivation, Increased CaV1.2 Channel Window Current, and Arrhythmogenesis. PLoS ONE, 2014, 9, e106982.	2.5	43
45	Solution Structure of the NaV1.2 C-terminal EF-hand Domain. Journal of Biological Chemistry, 2009, 284, 6446-6454.	3.4	42
46	Current view on regulation of voltageâ€gated sodium channels by calcium and auxiliary proteins. Protein Science, 2016, 25, 1573-1584.	7.6	40
47	Proteolytic cleavage and PKA phosphorylation of Î± _{1C} subunit are not required for adrenergic regulation of Ca _V 1.2 in the heart. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9194-9199.	7.1	40
48	Conditional knockout of Fgf13 in murine hearts increases arrhythmia susceptibility and reveals novel ion channel modulatory roles. Journal of Molecular and Cellular Cardiology, 2017, 104, 63-74.	1.9	39
49	Adrenergic Ca _V 1.2 Activation via Rad Phosphorylation Converges at Î± _{1C} I-II Loop. Circulation Research, 2021, 128, 76-88.	4.5	39
50	Voltage-Gated Calcium Channels in Nonexcitable Tissues. Annual Review of Physiology, 2021, 83, 183-203.	13.1	38
51	Increased Ca2+ signaling through CaV1.2 promotes bone formation and prevents estrogen deficiencyâ€“induced bone loss. JCI Insight, 2017, 2, .	5.0	38
52	FGF14 is a regulator of KCNQ2/3 channels. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 154-159.	7.1	35
53	Fibroblast Growth Factor Homologous Factors. Neuroscientist, 2016, 22, 19-25.	3.5	34
54	FGF13 modulates the gating properties of the cardiac sodium channel Na_v1.5 in an isoform-specific manner. Channels, 2016, 10, 410-420.	2.8	33

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55	Ca²⁺/CaM Controls Ca²⁺-Dependent Inactivation of NMDA Receptors by Dimerizing the NR1 C Termini. Journal of Neuroscience, 2008, 28, 1865-1870.	3.6	27
56	Added Benefit of Mineralocorticoid Receptor Blockade in the Primary Prevention of Sudden Cardiac Death. Circulation, 2007, 115, 2976-2982.	1.6	25
57	Calmodulin binds to the N-terminal domain of the cardiac sodium channel Na_v1.5. Channels, 2020, 14, 268-286.	2.8	23
58	The Auxiliary Subunit KChIP2 Is an Essential Regulator of Homeostatic Excitability. Journal of Biological Chemistry, 2013, 288, 13258-13268.	3.4	22
59	Inducible Fgf13 ablation enhances caveolae-mediated cardioprotection during cardiac pressure overload. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E4010-E4019.	7.1	22
60	An interaction between the III-IV linker and CTD in NaV1.5 confers regulation of inactivation by CaM and FHF. Journal of General Physiology, 2020, 152, .	1.9	20
61	A novel NaV1.5 voltage sensor mutation associated with severe atrial and ventricular arrhythmias. Journal of Molecular and Cellular Cardiology, 2016, 92, 52-62.	1.9	19
62	The CaV1.2 L-type calcium channel regulates bone homeostasis in the middle and inner ear. Bone, 2019, 125, 160-168.	2.9	19
63	Cardiac phenotype in ATP1A3 -related syndromes. Neurology, 2020, 95, e2866-e2879.	1.1	19
64	Long-Term In Vivo Imaging of Multiple Organs at the Single Cell Level. PLoS ONE, 2013, 8, e52087.	2.5	18
65	Phenotypic expansion of CACNA1C-associated disorders to include isolated neurological manifestations. Genetics in Medicine, 2021, 23, 1922-1932.	2.4	16
66	Fibroblast growth factor homologous factors tune arrhythmogenic late NaV1.5 current in calmodulin bindingâ€“deficient channels. JCI Insight, 2020, 5, .	5.0	16
67	Fibroblast Growth Factor Homologous Factors in the Heart: A Potential Locus for Cardiac Arrhythmias. Trends in Cardiovascular Medicine, 2011, 21, 199-203.	4.9	15
68	The real estate of cardiac signaling: Location, location, location. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 7535-7536.	7.1	12
69	Rem2-Targeted shRNAs Reduce Frequency of Miniature Excitatory Postsynaptic Currents without Altering Voltage-Gated Ca2+ Currents. PLoS ONE, 2011, 6, e25741.	2.5	12
70	Calcium signaling regulates ventricular hypertrophy during development independent of contraction or blood flow. Journal of Molecular and Cellular Cardiology, 2015, 80, 1-9.	1.9	12
71	Detecting Cardiovascular Protein-Protein Interactions by Proximity Proteomics. Circulation Research, 2022, 130, 273-287.	4.5	11
72	CardioPulse ArticlesCardiovascular precision medicine: hope or hype?. European Heart Journal, 2015, 36, 1842-1843.	2.2	10

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73	Î±1-Syntrophin Variant Identified in Drug-Induced Long QT Syndrome Increases Late Sodium Current. PLoS ONE, 2016, 11, e0152355.	2.5	10
74	Increased Ca2+ influx through CaV1.2 drives aortic valve calcification. JCI Insight, 2022, 7, .	5.0	10
75	The PDZ Motif of the Î±1C Subunit Is Not Required for Surface Trafficking and Adrenergic Modulation of CaV1.2 Channel in the Heart. Journal of Biological Chemistry, 2015, 290, 2166-2174.	3.4	9
76	Knockout of the Xâ€linkedFgf13in the hypothalamic paraventricular nucleus impairs sympathetic output to brown fat and causes obesity. FASEB Journal, 2019, 33, 11579-11594.	0.5	9
77	Scn2a severe hypomorphic mutation decreases excitatory synaptic input and causes autism-associated behaviors. JCI Insight, 2021, 6, .	5.0	9
78	Rationale and design of the Duke Electrophysiology Genetic and Genomic Studies (EPGEN) biorepository. American Heart Journal, 2009, 158, 719-725.	2.7	8
79	Pinning down the CaMKII targets in the L-type Ca2+ channel: An essential step in defining CaMKII regulation. Heart Rhythm, 2011, 8, 631-633.	0.7	7
80	Genetics of cardiac repolarization. Nature Genetics, 2009, 41, 388-389.	21.4	6
81	Aldosterone, ion channels, and sudden death: another piece of the circle?. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H2176-H2177.	3.2	4
82	Calcineurin Finds a New Partner in the L-Type Ca ²⁺ Channel. Circulation Research, 2009, 105, 7-8.	4.5	3
83	Can Polymorphisms Predict Response to Antiarrhythmic Drugs in Atrial Fibrillation?. Journal of the American College of Cardiology, 2012, 60, 546-547.	2.8	2
84	Calmodulin and CaMKII as Ca2+ Switches for Cardiac Ion Channels. , 2014, , 189-195.		1
85	Long QT Syndrome and Seizures. JACC: Clinical Electrophysiology, 2016, 2, 277-278.	3.2	1
86	Genetic variants and disease: correlate or cause?. European Heart Journal, 2016, 37, 1476-1478.	2.2	1
87	An update on the journey towards precision medicine in cardiology. European Heart Journal, 2018, 39, 3627-3628.	2.2	1
88	Ca2+/CaM interaction with voltage-gated Na+channels. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26150-26151.	7.1	1
89	Cellular Functions of Calcium Channel Subtypes. , 2004, , 237-275.		1
90	A dual SHOX2:GFP; MYH6:mCherry knockin hESC reporter line for derivation of human SAN-like cells. IScience, 2022, 25, 104153.	4.1	1

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91	Channeling a New Focus for Heart Failure: Insights Into Ion Channels. Journal of Cardiovascular Pharmacology, 2009, 54, 95-97.	1.9	0
92	Determination Of The Specificity For FHF/Na Channel Interactions. Biophysical Journal, 2009, 96, 250a.	0.5	0
93	The glitter of gold: biolistic transfection of fresh adult cardiac myocytes. Focus on â€œNormal targeting of a tagged Kv1.5 channel acutely transfected into fresh adult cardiac myocytes by a biolistic methodâ€• American Journal of Physiology - Cell Physiology, 2010, 298, C1305-C1307.	4.6	0
94	A view from the side-line. European Heart Journal, 2016, 37, 3488-3489.	2.2	0
95	Divide, multitask, and conquer: Coordination in channel regulation. Channels, 2017, 11, 268-270.	2.8	0
96	Fibroblast Growth Factor Homologous Factors Modulate Cardiac Sodium and Calcium Channels. , 2018, , 177-179.		0
97	Proteolytic regulation of calcium channels - avoiding controversy.. Faculty Reviews, 2022, 11, 5.	3.9	0