

Jeanne M Nerbonne

List of Publications by Year in descending order

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68
papers

6,339
citations

101384

36
h-index

106150

65
g-index

73
all docs

73
docs citations

73
times ranked

6391
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Physiology of Cardiac Repolarization. <i>Physiological Reviews</i> , 2005, 85, 1205-1253.	13.1	870
2	Atrial L-Type Ca ²⁺ Currents and Human Atrial Fibrillation. <i>Circulation Research</i> , 1999, 85, 428-436.	2.0	525
3	Molecular basis of functional voltage-gated K ⁺ channel diversity in the mammalian myocardium. <i>Journal of Physiology</i> , 2000, 525, 285-298.	1.3	411
4	Deep RNA Sequencing Reveals Dynamic Regulation of Myocardial Noncoding RNAs in Failing Human Heart and Remodeling With Mechanical Circulatory Support. <i>Circulation</i> , 2014, 129, 1009-1021.	1.6	391
5	Four Kinetically Distinct Depolarization-activated K ⁺ Currents in Adult Mouse Ventricular Myocytes. <i>Journal of General Physiology</i> , 1999, 113, 661-678.	0.9	300
6	Functional Knockout of the Transient Outward Current, Long-QT Syndrome, and Cardiac Remodeling in Mice Expressing a Dominant-Negative Kv4 ^{1±} Subunit. <i>Circulation Research</i> , 1998, 83, 560-567.	2.0	289
7	Generation of Human Striatal Neurons by MicroRNA-Dependent Direct Conversion of Fibroblasts. <i>Neuron</i> , 2014, 84, 311-323.	3.8	262
8	Mediation of Neuronal Apoptosis by Kv2.1-Encoded Potassium Channels. <i>Journal of Neuroscience</i> , 2003, 23, 4798-4802.	1.7	227
9	Molecular determinants of cardiac transient outward potassium current (I _{to}) expression and regulation. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 48, 12-25.	0.9	199
10	Molecular basis of transient outward K ⁺ current diversity in mouse ventricular myocytes. <i>Journal of Physiology</i> , 1999, 521, 587-599.	1.3	194
11	Heterogeneous expression of repolarizing, voltage-gated K ⁺ currents in adult mouse ventricles. <i>Journal of Physiology</i> , 2004, 559, 103-120.	1.3	184
12	Cardiac Mechano-Gated Ion Channels and Arrhythmias. <i>Circulation Research</i> , 2016, 118, 311-329.	2.0	173
13	Attenuation of the Slow Component of Delayed Rectification, Action Potential Prolongation, and Triggered Activity in Mice Expressing a Dominant-Negative Kv2 ^{1±} Subunit. <i>Circulation Research</i> , 1999, 85, 623-633.	2.0	161
14	Functional Consequences of Elimination of <i>I_{to, f}</i> and <i>I_{to, s}</i> . <i>Circulation Research</i> , 2000, 87, 73-79.	2.0	161
15	Studying Cardiac Arrhythmias in the Mouse—A Reasonable Model for Probing Mechanisms?. <i>Trends in Cardiovascular Medicine</i> , 2004, 14, 83-93.	2.3	154
16	Distinct Cellular and Molecular Mechanisms Underlie Functional Remodeling of Repolarizing K ⁺ Currents With Left Ventricular Hypertrophy. <i>Circulation Research</i> , 2008, 102, 1406-1415.	2.0	100
17	Elimination of the transient outward current and action potential prolongation in mouse atrial myocytes expressing a dominant negative Kv4 ^{1±} subunit. <i>Journal of Physiology</i> , 1999, 519, 11-21.	1.3	93
18	A-type K ⁺ channels encoded by Kv4.2, Kv4.3 and Kv1.4 differentially regulate intrinsic excitability of cortical pyramidal neurons. <i>Journal of Physiology</i> , 2012, 590, 3877-3890.	1.3	82

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19	Electrical remodelling maintains firing properties in cortical pyramidal neurons lacking <i>KCNQ2</i> -encoded A-type K ⁺ currents. <i>Journal of Physiology</i> , 2008, 586, 1565-1579.	1.3	79
20	The Sodium Channel Accessory Subunit Nav β 1 Regulates Neuronal Excitability through Modulation of Repolarizing Voltage-Gated K ⁺ Channels. <i>Journal of Neuroscience</i> , 2012, 32, 5716-5727.	1.7	79
21	Potassium currents in the heart: functional roles in repolarization, arrhythmia and therapeutics. <i>Journal of Physiology</i> , 2017, 595, 2229-2252.	1.3	76
22	Heterogeneous Expression of Voltage-Gated Potassium Channels in the Heart: Roles in Normal Excitation and Arrhythmias. <i>Journal of Cardiovascular Electrophysiology</i> , 2002, 13, 406-409.	0.8	73
23	Mechanisms of noncovalent β 2 subunit regulation of NaV channel gating. <i>Journal of General Physiology</i> , 2017, 149, 813-831.	0.9	62
24	Intracellular FGF14 (iFGF14) Is Required for Spontaneous and Evoked Firing in Cerebellar Purkinje Neurons and for Motor Coordination and Balance. <i>Journal of Neuroscience</i> , 2015, 35, 6752-6769.	1.7	61
25	Regulation of voltage-gated K ⁺ channel expression in the developing mammalian myocardium. , 1998, 37, 37-59.		56
26	Molecular Dissection of <i>Kv1A</i> in Cortical Pyramidal Neurons Reveals Three Distinct Components Encoded by Kv4.2, Kv4.3, and Kv1.4 β -Subunits. <i>Journal of Neuroscience</i> , 2010, 30, 5092-5101.	1.7	55
27	Molecular correlates of the calcium-independent, depolarization-activated K ⁺ currents in rat atrial myocytes. <i>Journal of Physiology</i> , 1999, 517, 407-420.	1.3	54
28	Characterization of SEMA3A -Encoded Semaphorin as a Naturally Occurring K v 4.3 Protein Inhibitor and its Contribution to Brugada Syndrome. <i>Circulation Research</i> , 2014, 115, 460-469.	2.0	54
29	Interdependent Roles for Accessory KChIP2, KChIP3, and KChIP4 Subunits in the Generation of Kv4-Encoded <i>Kv1A</i> Channels in Cortical Pyramidal Neurons. <i>Journal of Neuroscience</i> , 2010, 30, 13644-13655.	1.7	51
30	Molecular diversity of the repolarizing voltage-gated K ⁺ currents in mouse atrial cells. <i>Journal of Physiology</i> , 2000, 529, 345-358.	1.3	49
31	FGF14 localization and organization of the axon initial segment. <i>Molecular and Cellular Neurosciences</i> , 2013, 56, 393-403.	1.0	48
32	Mass Spectrometry-Based Identification of Native Cardiac Nav1.5 Channel β Subunit Phosphorylation Sites. <i>Journal of Proteome Research</i> , 2012, 11, 5994-6007.	1.8	47
33	IA Channels Encoded by Kv1.4 and Kv4.2 Regulate Neuronal Firing in the Suprachiasmatic Nucleus and Circadian Rhythms in Locomotor Activity. <i>Journal of Neuroscience</i> , 2012, 32, 10045-10052.	1.7	42
34	Mechanisms contributing to myocardial potassium channel diversity, regulation and remodeling. <i>Trends in Cardiovascular Medicine</i> , 2016, 26, 209-218.	2.3	42
35	Co-assembly of Kv4 β Subunits with K ⁺ Channel-interacting Protein 2 Stabilizes Protein Expression and Promotes Surface Retention of Channel Complexes*. <i>Journal of Biological Chemistry</i> , 2010, 285, 33413-33422.	1.6	39
36	Combined deep microRNA and mRNA sequencing identifies protective transcriptomal signature of enhanced PI3K β signaling in cardiac hypertrophy. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 53, 101-112.	0.9	39

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37	Three Kinetically Distinct Ca ²⁺ -Independent Depolarization-Activated K ⁺ Currents in Callosal-Projecting Rat Visual Cortical Neurons. <i>Journal of Neurophysiology</i> , 1997, 78, 2309-2320.	0.9	37
38	Integrated multi-omic characterization of congenital heart disease. <i>Nature</i> , 2022, 608, 181-191.	13.7	37
39	Mouse models of arrhythmogenic cardiovascular disease: challenges and opportunities. <i>Current Opinion in Pharmacology</i> , 2014, 15, 107-114.	1.7	33
40	C-terminal phosphorylation of Nav1.5 impairs FGF13-dependent regulation of channel inactivation. <i>Journal of Biological Chemistry</i> , 2017, 292, 17431-17448.	1.6	33
41	Molecular Basis of Functional Myocardial Potassium Channel Diversity. <i>Cardiac Electrophysiology Clinics</i> , 2016, 8, 257-273.	0.7	31
42	Notch-Mediated Epigenetic Regulation of Voltage-Gated Potassium Currents. <i>Circulation Research</i> , 2016, 119, 1324-1338.	2.0	31
43	Distinct Firing Properties of Vasoactive Intestinal Peptide-Expressing Neurons in the Suprachiasmatic Nucleus. <i>Journal of Biological Rhythms</i> , 2016, 31, 57-67.	1.4	31
44	Regional Differences in mRNA and lncRNA Expression Profiles in Non-Failing Human Atria and Ventricles. <i>Scientific Reports</i> , 2018, 8, 13919.	1.6	30
45	Differential Expression and Remodeling of Transient Outward Potassium Currents in Human Left Ventricles. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018, 11, e005914.	2.1	28
46	Loss of Nav ^{1.4} -Mediated Regulation of Sodium Currents in Adult Purkinje Neurons Disrupts Firing and Impairs Motor Coordination and Balance. <i>Cell Reports</i> , 2017, 19, 532-544.	2.9	27
47	Acute Knockdown of Kv4.1 Regulates Repetitive Firing Rates and Clock Gene Expression in the Suprachiasmatic Nucleus and Daily Rhythms in Locomotor Behavior. <i>ENeuro</i> , 2017, 4, ENEURO.0377-16.2017.	0.9	24
48	K _A Channels Encoded by Kv1.4 and Kv4.2 Regulate Circadian Period of PER2 Expression in the Suprachiasmatic Nucleus. <i>Journal of Biological Rhythms</i> , 2015, 30, 396-407.	1.4	22
49	Circulating long noncoding RNA DKFZP434I0714 predicts adverse cardiovascular outcomes in patients with end-stage renal disease. <i>International Journal of Cardiology</i> , 2019, 277, 212-219.	0.8	19
50	The Role of the Voltage-Gated Potassium Channel Proteins Kv8.2 and Kv2.1 in Vision and Retinal Disease: Insights from the Study of Mouse Gene Knock-Out Mutations. <i>ENeuro</i> , 2019, 6, ENEURO.0032-19.2019.	0.9	19
51	VIP and secretin augment cardiac L-type calcium channel currents in isolated adult rat ventricular myocytes. <i>Pflügers Archiv European Journal of Physiology</i> , 1996, 432, 821-830.	1.3	16
52	Repolarizing cardiac potassium channels: Multiple sites and mechanisms for CaMKII-mediated regulation. <i>Heart Rhythm</i> , 2011, 8, 938-941.	0.3	14
53	Dual Transgene Expression in Murine Cerebellar Purkinje Neurons by Viral Transduction In Vivo. <i>PLoS ONE</i> , 2014, 9, e104062.	1.1	14
54	Polycystin 2 is increased in disease to protect against stress-induced cell death. <i>Scientific Reports</i> , 2020, 10, 386.	1.6	13

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55	Mechanical dysfunction of the sarcomere induced by a pathogenic mutation in troponin T drives cellular adaptation. <i>Journal of General Physiology</i> , 2021, 153, .	0.9	13
56	Molecular, Cellular and Functional Changes in the Retinas of Young Adult Mice Lacking the Voltage-Gated K ⁺ Channel Subunits Kv8.2 and K2.1. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4877.	1.8	11
57	Identification of structures for ion channel kinetic models. <i>PLoS Computational Biology</i> , 2021, 17, e1008932.	1.5	11
58	Proteomic and functional mapping of cardiac NaV1.5 channel phosphorylation sites. <i>Journal of General Physiology</i> , 2021, 153, .	0.9	10
59	Proteomic analysis of native cerebellar iFGF14 complexes. <i>Channels</i> , 2016, 10, 297-312.	1.5	8
60	Understanding Circadian Mechanisms of Sudden Cardiac Death: A Report From the National Heart, Lung, and Blood Institute Workshop, Part 1: Basic and Translational Aspects. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2021, 14, e010181.	2.1	8
61	Early remodeling of repolarizing K ⁺ currents in the $\hat{I}\pm$ MHC403/+ mouse model of familial hypertrophic cardiomyopathy. <i>Journal of Molecular and Cellular Cardiology</i> , 2017, 103, 93-101.	0.9	7
62	Voltage-gated sodium currents in cerebellar Purkinje neurons: functional and molecular diversity. <i>Cellular and Molecular Life Sciences</i> , 2018, 75, 3495-3505.	2.4	7
63	Modulation of the effects of Class-Ib antiarrhythmics on cardiac NaV1.5-encoded channels by accessory NaV β subunits. <i>JCI Insight</i> , 2021, 6, .	2.3	7
64	Intrinsic mechanisms in the gating of resurgent Na ⁺ currents. <i>ELife</i> , 2022, 11, .	2.8	6
65	Understanding Circadian Mechanisms of Sudden Cardiac Death: A Report From the National Heart, Lung, and Blood Institute Workshop, Part 2: Population and Clinical Considerations. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2021, 14, e010190.	2.1	3
66	Regional differences in the expression of tetrodotoxin-sensitive inward Ca ²⁺ and outward Cs ⁺ /K ⁺ currents in mouse and human ventricles. <i>Channels</i> , 2019, 13, 72-87.	1.5	1
67	Training the Next Generation of Translational Cardiovascular Investigators. <i>JACC Basic To Translational Science</i> , 2016, 1, 554-556.	1.9	0
68	Controlling the Traffic to Keep the Beat: Targeting of Myocardial Sodium Channels. <i>Circulation Research</i> , 2021, 129, 366-368.	2.0	0