Jeanne M Nerbonne

List of Publications by Year
in descending order

68 papers	6,339 citations	101543 36 h-index	106344 65 g-index
73 all docs	73 docs citations	73 times ranked	6391 citing authors

#	Article	IF	Citations
1	Intrinsic mechanisms in the gating of resurgent Na+ currents. ELife, 2022, 11, .	6.0	6
2	Integrated multi-omic characterization of congenital heart disease. Nature, 2022, 608, 181-191.	27.8	37
3	Proteomic and functional mapping of cardiac NaV1.5 channel phosphorylation sites. Journal of General Physiology, 2021, 153, .	1.9	10
4	Mechanical dysfunction of the sarcomere induced by a pathogenic mutation in troponin T drives cellular adaptation. Journal of General Physiology, 2021, 153, .	1.9	13
5	Molecular, Cellular and Functional Changes in the Retinas of Young Adult Mice Lacking the Voltage-Gated K+ Channel Subunits Kv8.2 and K2.1. International Journal of Molecular Sciences, 2021, 22, 4877.	4.1	11
6	Modulation of the effects of Class-Ib antiarrhythmics on cardiac NaV1.5-encoded channels by accessory NaVÎ² subunits. JCI Insight, 2021, 6, .	5.0	7
7	Controlling the Traffic to Keep the Beat: Targeting of Myocardial Sodium Channels. Circulation Research, 2021, 129, 366-368.	4.5	0
8	Identification of structures for ion channel kinetic models. PLoS Computational Biology, 2021, 17, e1008932.	3.2	11
9	Understanding Circadian Mechanisms of Sudden Cardiac Death: A Report From the National Heart, Lung, and Blood Institute Workshop, Part 1: Basic and Translational Aspects. Circulation: Arrhythmia and Electrophysiology, 2021, 14, e010181.	4.8	8
10	Understanding Circadian Mechanisms of Sudden Cardiac Death: A Report From the National Heart, Lung, and Blood Institute Workshop, Part 2: Population and Clinical Considerations. Circulation: Arrhythmia and Electrophysiology, 2021, 14, e010190.	4.8	3
11	Polycystin 2 is increased in disease to protect against stress-induced cell death. Scientific Reports, 2020, 10, 386.	3.3	13
12	Circulating long noncoding RNA DKFZP434I0714 predicts adverse cardiovascular outcomes in patients with end-stage renal disease. International Journal of Cardiology, 2019, 277, 212-219.	1.7	19
13	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. ENeuro, 2019, 6, ENEURO.0032-19.2019.	1.9	19
14	Regional differences in the expression of tetrodotoxin-sensitive inward Ca2+ and outward Cs+/K+ currents in mouse and human ventricles. Channels, 2019, 13, 72-87.	2.8	1
15	Differential Expression and Remodeling of Transient Outward Potassium Currents in Human Left Ventricles. Circulation: Arrhythmia and Electrophysiology, 2018, 11, e005914.	4.8	28
16	Regional Differences in mRNA and lncRNA Expression Profiles in Non-Failing Human Atria and Ventricles. Scientific Reports, 2018, 8, 13919.	3.3	30
17	Voltage-gated sodium currents in cerebellar Purkinje neurons: functional and molecular diversity. Cellular and Molecular Life Sciences, 2018, 75, 3495-3505.	5.4	7
18	Loss of NavÎ²4-Mediated Regulation of Sodium Currents in Adult Purkinje Neurons Disrupts Firing and Impairs Motor Coordination and Balance. Cell Reports, 2017, 19, 532-544.	6.4	27

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19	Early remodeling of repolarizing K+ currents in the Î±MHC403/+ mouse model of familial hypertrophic cardiomyopathy. Journal of Molecular and Cellular Cardiology, 2017, 103, 93-101.	1.9	7
20	C-terminal phosphorylation of NaV1.5 impairs FGF13-dependent regulation of channel inactivation. Journal of Biological Chemistry, 2017, 292, 17431-17448.	3.4	33
21	Mechanisms of noncovalent Î² subunit regulation of NaV channel gating. Journal of General Physiology, 2017, 149, 813-831.	1.9	62
22	Potassium currents in the heart: functional roles in repolarization, arrhythmia and therapeutics. Journal of Physiology, 2017, 595, 2229-2252.	2.9	76
23	Acute Knockdown of Kv4.1 Regulates Repetitive Firing Rates and Clock Gene Expression in the Suprachiasmatic Nucleus and Daily Rhythms in Locomotor Behavior. ENeuro, 2017, 4, ENEURO.0377-16.2017.	1.9	24
24	Training the Next Generation of Translational Cardiovascular Investigators. JACC Basic To Translational Science, 2016, 1, 554-556.	4.1	0
25	Molecular Basis of Functional Myocardial Potassium Channel Diversity. Cardiac Electrophysiology Clinics, 2016, 8, 257-273.	1.7	31
26	Notch-Mediated Epigenetic Regulation of Voltage-Gated Potassium Currents. Circulation Research, 2016, 119, 1324-1338.	4.5	31
27	Cardiac Mechano-Gated Ion Channels and Arrhythmias. Circulation Research, 2016, 118, 311-329.	4.5	173
28	Distinct Firing Properties of Vasoactive Intestinal Peptide-Expressing Neurons in the Suprachiasmatic Nucleus. Journal of Biological Rhythms, 2016, 31, 57-67.	2.6	31
29	Proteomic analysis of native cerebellar iFGF14 complexes. Channels, 2016, 10, 297-312.	2.8	8
30	Mechanisms contributing to myocardial potassium channel diversity, regulation and remodeling. Trends in Cardiovascular Medicine, 2016, 26, 209-218.	4.9	42
31	Intracellular FGF14 (iFGF14) Is Required for Spontaneous and Evoked Firing in Cerebellar Purkinje Neurons and for Motor Coordination and Balance. Journal of Neuroscience, 2015, 35, 6752-6769.	3.6	61
32	I_A Channels Encoded by Kv1.4 and Kv4.2 Regulate Circadian Period of PER2 Expression in the Suprachiasmatic Nucleus. Journal of Biological Rhythms, 2015, 30, 396-407.	2.6	22
33	Dual Transgene Expression in Murine Cerebellar Purkinje Neurons by Viral Transduction In Vivo. PLoS ONE, 2014, 9, e104062.	2.5	14
34	Mouse models of arrhythmogenic cardiovascular disease: challenges and opportunities. Current Opinion in Pharmacology, 2014, 15, 107-114.	3.5	33
35	Deep RNA Sequencing Reveals Dynamic Regulation of Myocardial Noncoding RNAs in Failing Human Heart and Remodeling With Mechanical Circulatory Support. Circulation, 2014, 129, 1009-1021.	1.6	391
36	Generation of Human Striatal Neurons by MicroRNA-Dependent Direct Conversion of Fibroblasts. Neuron, 2014, 84, 311-323.	8.1	262

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37	Characterization of SEMA3A -Encoded Semaphorin as a Naturally Occurring K v 4.3 Protein Inhibitor and its Contribution to Brugada Syndrome. Circulation Research, 2014, 115, 460-469.	4.5	54
38	FGF14 localization and organization of the axon initial segment. Molecular and Cellular Neurosciences, 2013, 56, 393-403.	2.2	48
39	The Sodium Channel Accessory Subunit NavÎ²1 Regulates Neuronal Excitability through Modulation of Repolarizing Voltage-Gated K⁺Channels. Journal of Neuroscience, 2012, 32, 5716-5727.	3.6	79
40	IA Channels Encoded by Kv1.4 and Kv4.2 Regulate Neuronal Firing in the Suprachiasmatic Nucleus and Circadian Rhythms in Locomotor Activity. Journal of Neuroscience, 2012, 32, 10045-10052.	3.6	42
41	Aâ€type K⁺ channels encoded by Kv4.2, Kv4.3 and Kv1.4 differentially regulate intrinsic excitability of cortical pyramidal neurons. Journal of Physiology, 2012, 590, 3877-3890.	2.9	82
42	Mass Spectrometry-Based Identification of Native Cardiac Nav1.5 Channel Î± Subunit Phosphorylation Sites. Journal of Proteome Research, 2012, 11, 5994-6007.	3.7	47
43	Combined deep microRNA and mRNA sequencing identifies protective transcriptomal signature of enhanced PI3KÎ± signaling in cardiac hypertrophy. Journal of Molecular and Cellular Cardiology, 2012, 53, 101-112.	1.9	39
44	Repolarizing cardiac potassium channels: Multiple sites and mechanisms for CaMKII-mediated regulation. Heart Rhythm, 2011, 8, 938-941.	0.7	14
45	Co-assembly of Kv4 Î± Subunits with K+ Channel-interacting Protein 2 Stabilizes Protein Expression and Promotes Surface Retention of Channel Complexes*. Journal of Biological Chemistry, 2010, 285, 33413-33422.	3.4	39
46	Interdependent Roles for Accessory KChIP2, KChIP3, and KChIP4 Subunits in the Generation of Kv4-EncodedI_AChannels in Cortical Pyramidal Neurons. Journal of Neuroscience, 2010, 30, 13644-13655.	3.6	51
47	Molecular Dissection ofI_Ain Cortical Pyramidal Neurons Reveals Three Distinct Components Encoded by Kv4.2, Kv4.3, and Kv1.4 Î±-Subunits. Journal of Neuroscience, 2010, 30, 5092-5101.	3.6	55
48	Molecular determinants of cardiac transient outward potassium current (Ito) expression and regulation. Journal of Molecular and Cellular Cardiology, 2010, 48, 12-25.	1.9	199
49	Electrical remodelling maintains firing properties in cortical pyramidal neurons lacking KCND2â€encoded Aâ€type K⁺ currents. Journal of Physiology, 2008, 586, 1565-1579.	2.9	79
50	Distinct Cellular and Molecular Mechanisms Underlie Functional Remodeling of Repolarizing K ⁺ Currents With Left Ventricular Hypertrophy. Circulation Research, 2008, 102, 1406-1415.	4.5	100
51	Molecular Physiology of Cardiac Repolarization. Physiological Reviews, 2005, 85, 1205-1253.	28.8	870
52	Heterogeneous expression of repolarizing, voltage-gated K+currents in adult mouse ventricles. Journal of Physiology, 2004, 559, 103-120.	2.9	184
53	Studying Cardiac Arrhythmias in the Mouseâ€"A Reasonable Model for Probing Mechanisms?. Trends in Cardiovascular Medicine, 2004, 14, 83-93.	4.9	154
54	Mediation of Neuronal Apoptosis by Kv2.1-Encoded Potassium Channels. Journal of Neuroscience, 2003, 23, 4798-4802.	3.6	227

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55	Heterogeneous Expression of Voltage-Gated Potassium Channels in the Heart: Roles in Normal Excitation and Arrhythmias. Journal of Cardiovascular Electrophysiology, 2002, 13, 406-409.	1.7	73
56	Molecular diversity of the repolarizing voltageâ€gated K + currents in mouse atrial cells. Journal of Physiology, 2000, 529, 345-358.	2.9	49
57	Molecular basis of functional voltageâ€gated K + channel diversity in the mammalian myocardium. Journal of Physiology, 2000, 525, 285-298.	2.9	411
58	Functional Consequences of Elimination of I _{to, f} and I _{to, s}. Circulation Research, 2000, 87, 73-79.	4.5	161
59	Atrial L-Type Ca ²⁺ Currents and Human Atrial Fibrillation. Circulation Research, 1999, 85, 428-436.	4.5	525
60	Attenuation of the Slow Component of Delayed Rectification, Action Potential Prolongation, and Triggered Activity in Mice Expressing a Dominant-Negative Kv2 Î± Subunit. Circulation Research, 1999, 85, 623-633.	4.5	161
61	Four Kinetically Distinct Depolarization-activated K+ Currents in Adult Mouse Ventricular Myocytes. Journal of General Physiology, 1999, 113, 661-678.	1.9	300
62	Elimination of the transient outward current and action potential prolongation in mouse atrial myocytes expressing a dominant negative Kv4 Î± subunit. Journal of Physiology, 1999, 519, 11-21.	2.9	93
63	Molecular basis of transient outward K+current diversity in mouse ventricular myocytes. Journal of Physiology, 1999, 521, 587-599.	2.9	194
64	Molecular correlates of the calcium-independent, depolarization-activated K+currents in rat atrial myocytes. Journal of Physiology, 1999, 517, 407-420.	2.9	54
65	Regulation of voltage-gated K+ channel expression in the developing mammalian myocardium. , 1998, 37, 37-59.		56
66	Functional Knockout of the Transient Outward Current, Long-QT Syndrome, and Cardiac Remodeling in Mice Expressing a Dominant-Negative Kv4 Î± Subunit. Circulation Research, 1998, 83, 560-567.	4.5	289
67	Three Kinetically Distinct Ca2+-Independent Depolarization-Activated K+ Currents in Callosal-Projecting Rat Visual Cortical Neurons. Journal of Neurophysiology, 1997, 78, 2309-2320.	1.8	37
68	VIP and secretin augment cardiac L-type calcium channel currents in isolated adult rat ventricular myocytes. Pflugers Archiv European Journal of Physiology, 1996, 432, 821-830.	2.8	16