

# Jeanne M Nerbonne

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | Intrinsic mechanisms in the gating of resurgent Na <sup>+</sup> currents. <i>ELife</i> , 2022, 11, .  | 2.8  | 6         |
| 2  | Integrated multi-omic characterization of congenital heart disease. <i>Nature</i> , 2022, 608, 181-191.   | 13.7 | 37        |
| 3  | Proteomic and functional mapping of cardiac NaV1.5 channel phosphorylation sites. <i>Journal of General Physiology</i> , 2021, 153, .   | 0.9  | 10        |
| 4  | 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        |
| 5  | Molecular, Cellular and Functional Changes in the Retinas of Young Adult Mice Lacking the Voltage-Gated K <sup>+</sup> Channel Subunits Kv8.2 and K2.1. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4877.                                | 1.8  | 11        |
| 6  | Modulation of the effects of Class-Ib antiarrhythmics on cardiac NaV1.5-encoded channels by accessory NaV $\beta$ subunits. <i>JCI Insight</i> , 2021, 6, .   | 2.3  | 7         |
| 7  | Controlling the Traffic to Keep the Beat: Targeting of Myocardial Sodium Channels. <i>Circulation Research</i> , 2021, 129, 366-368.  | 2.0  | 0         |
| 8  | Identification of structures for ion channel kinetic models. <i>PLoS Computational Biology</i> , 2021, 17, e1008932.  | 1.5  | 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. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2021, 14, e010181.        | 2.1  | 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. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2021, 14, e010190. | 2.1  | 3         |
| 11 | Polycystin 2 is increased in disease to protect against stress-induced cell death. <i>Scientific Reports</i> , 2020, 10, 386.   | 1.6  | 13        |
| 12 | 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        |
| 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. <i>ENeuro</i> , 2019, 6, ENEURO.0032-19.2019.  | 0.9  | 19        |
| 14 | Regional differences in the expression of tetrodotoxin-sensitive inward Ca <sup>2+</sup> and outward Cs <sup>+</sup> /K <sup>+</sup> currents in mouse and human ventricles. <i>Channels</i> , 2019, 13, 72-87.   | 1.5  | 1         |
| 15 | 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        |
| 16 | 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        |
| 17 | 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         |
| 18 | Loss of Nav $\beta$ 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        |

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|----|---|-----|-----------|
| 19 | Early remodeling of repolarizing K <sup>+</sup> 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         |
| 20 | 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        |
| 21 | Mechanisms of noncovalent $\hat{I}^2$ subunit regulation of NaV channel gating. <i>Journal of General Physiology</i> , 2017, 149, 813-831.  | 0.9 | 62        |
| 22 | Potassium currents in the heart: functional roles in repolarization, arrhythmia and therapeutics. <i>Journal of Physiology</i> , 2017, 595, 2229-2252.  | 1.3 | 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. <i>ENeuro</i> , 2017, 4, ENEURO.0377-16.2017.          | 0.9 | 24        |
| 24 | Training the Next Generation of Translational Cardiovascular Investigators. <i>JACC Basic To Translational Science</i> , 2016, 1, 554-556.  | 1.9 | 0         |
| 25 | Molecular Basis of Functional Myocardial Potassium Channel Diversity. <i>Cardiac Electrophysiology Clinics</i> , 2016, 8, 257-273.  | 0.7 | 31        |
| 26 | Notch-Mediated Epigenetic Regulation of Voltage-Gated Potassium Currents. <i>Circulation Research</i> , 2016, 119, 1324-1338.   | 2.0 | 31        |
| 27 | Cardiac Mechano-Gated Ion Channels and Arrhythmias. <i>Circulation Research</i> , 2016, 118, 311-329.   | 2.0 | 173       |
| 28 | 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        |
| 29 | Proteomic analysis of native cerebellar iFGF14 complexes. <i>Channels</i> , 2016, 10, 297-312.  | 1.5 | 8         |
| 30 | Mechanisms contributing to myocardial potassium channel diversity, regulation and remodeling. <i>Trends in Cardiovascular Medicine</i> , 2016, 26, 209-218.   | 2.3 | 42        |
| 31 | 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        |
| 32 | $I_{K_A}$ 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        |
| 33 | Dual Transgene Expression in Murine Cerebellar Purkinje Neurons by Viral Transduction In Vivo. <i>PLoS ONE</i> , 2014, 9, e104062.  | 1.1 | 14        |
| 34 | Mouse models of arrhythmogenic cardiovascular disease: challenges and opportunities. <i>Current Opinion in Pharmacology</i> , 2014, 15, 107-114.  | 1.7 | 33        |
| 35 | 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       |
| 36 | Generation of Human Striatal Neurons by MicroRNA-Dependent Direct Conversion of Fibroblasts. <i>Neuron</i> , 2014, 84, 311-323.   | 3.8 | 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. <i>Circulation Research</i> , 2014, 115, 460-469.  | 2.0  | 54        |
| 38 | FGF14 localization and organization of the axon initial segment. <i>Molecular and Cellular Neurosciences</i> , 2013, 56, 393-403.  | 1.0  | 48        |
| 39 | The Sodium Channel Accessory Subunit Nav <sup>2</sup> 1 Regulates Neuronal Excitability through Modulation of Repolarizing Voltage-Gated K <sup>+</sup> Channels. <i>Journal of Neuroscience</i> , 2012, 32, 5716-5727.                      | 1.7  | 79        |
| 40 | 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        |
| 41 | A $\alpha$ -type K <sup>+</sup> 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        |
| 42 | Mass Spectrometry-Based Identification of Native Cardiac Nav1.5 Channel $\hat{I}$ Subunit Phosphorylation Sites. <i>Journal of Proteome Research</i> , 2012, 11, 5994-6007.  | 1.8  | 47        |
| 43 | Combined deep microRNA and mRNA sequencing identifies protective transcriptomal signature of enhanced PI3K $\hat{I}$ signaling in cardiac hypertrophy. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 53, 101-112.              | 0.9  | 39        |
| 44 | Repolarizing cardiac potassium channels: Multiple sites and mechanisms for CaMKII-mediated regulation. <i>Heart Rhythm</i> , 2011, 8, 938-941.   | 0.3  | 14        |
| 45 | Co-assembly of Kv4 $\hat{I}$ Subunits with K <sup>+</sup> 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        |
| 46 | Interdependent Roles for Accessory KChIP2, KChIP3, and KChIP4 Subunits in the Generation of Kv4-Encoded <i>I<sub>A</sub></i> Channels in Cortical Pyramidal Neurons. <i>Journal of Neuroscience</i> , 2010, 30, 13644-13655.                 | 1.7  | 51        |
| 47 | Molecular Dissection of <i>I<sub>A</sub></i> in Cortical Pyramidal Neurons Reveals Three Distinct Components Encoded by Kv4.2, Kv4.3, and Kv1.4 $\hat{I}$ -Subunits. <i>Journal of Neuroscience</i> , 2010, 30, 5092-5101.                   | 1.7  | 55        |
| 48 | Molecular determinants of cardiac transient outward potassium current (I <sub>to</sub> ) expression and regulation. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 48, 12-25.   | 0.9  | 199       |
| 49 | Electrical remodelling maintains firing properties in cortical pyramidal neurons lacking <i>KCND2</i> -encoded A $\alpha$ -type K <sup>+</sup> currents. <i>Journal of Physiology</i> , 2008, 586, 1565-1579.                                | 1.3  | 79        |
| 50 | Distinct Cellular and Molecular Mechanisms Underlie Functional Remodeling of Repolarizing K <sup>+</sup> Currents With Left Ventricular Hypertrophy. <i>Circulation Research</i> , 2008, 102, 1406-1415.                                     | 2.0  | 100       |
| 51 | Molecular Physiology of Cardiac Repolarization. <i>Physiological Reviews</i> , 2005, 85, 1205-1253.  | 13.1 | 870       |
| 52 | Heterogeneous expression of repolarizing, voltage-gated K <sup>+</sup> currents in adult mouse ventricles. <i>Journal of Physiology</i> , 2004, 559, 103-120.  | 1.3  | 184       |
| 53 | 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       |
| 54 | Mediation of Neuronal Apoptosis by Kv2.1-Encoded Potassium Channels. <i>Journal of Neuroscience</i> , 2003, 23, 4798-4802.   | 1.7  | 227       |

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|----|--|-----|-----------|
| 55 | 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        |
| 56 | Molecular diversity of the repolarizing voltage-gated K <sup>+</sup> currents in mouse atrial cells. <i>Journal of Physiology</i> , 2000, 529, 345-358.  | 1.3 | 49        |
| 57 | Molecular basis of functional voltage-gated K <sup>+</sup> channel diversity in the mammalian myocardium. <i>Journal of Physiology</i> , 2000, 525, 285-298.   | 1.3 | 411       |
| 58 | Functional Consequences of Elimination of <i>I<sub>f</sub></i> and <i>I<sub>s</sub></i> . <i>Circulation Research</i> , 2000, 87, 73-79.   | 2.0 | 161       |
| 59 | Atrial L-Type Ca <sup>2+</sup> Currents and Human Atrial Fibrillation. <i>Circulation Research</i> , 1999, 85, 428-436.  | 2.0 | 525       |
| 60 | 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       |
| 61 | Four Kinetically Distinct Depolarization-activated K <sup>+</sup> Currents in Adult Mouse Ventricular Myocytes. <i>Journal of General Physiology</i> , 1999, 113, 661-678.   | 0.9 | 300       |
| 62 | 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        |
| 63 | Molecular basis of transient outward K <sup>+</sup> current diversity in mouse ventricular myocytes. <i>Journal of Physiology</i> , 1999, 521, 587-599.  | 1.3 | 194       |
| 64 | Molecular correlates of the calcium-independent, depolarization-activated K <sup>+</sup> currents in rat atrial myocytes. <i>Journal of Physiology</i> , 1999, 517, 407-420.   | 1.3 | 54        |
| 65 | Regulation of voltage-gated K <sup>+</sup> 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 Kv4.1 Subunit. <i>Circulation Research</i> , 1998, 83, 560-567.                    | 2.0 | 289       |
| 67 | Three Kinetically Distinct Ca <sup>2+</sup> -Independent Depolarization-Activated K <sup>+</sup> Currents in Callosal-Projecting Rat Visual Cortical Neurons. <i>Journal of Neurophysiology</i> , 1997, 78, 2309-2320.   | 0.9 | 37        |
| 68 | 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        |