

Peter C Ruben

List of Publications by Year in descending order

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83
papers

3,137
citations

257450

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168389

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docs citations

93
times ranked

4156
citing authors

#	ARTICLE	IF	CITATIONS
1	Cannabidiol and Sodium Channel Pharmacology: General Overview, Mechanism, and Clinical Implications. <i>Neuroscientist</i> , 2022, 28, 318-334.	3.5	23
2	Late sodium current: incomplete inactivation triggers seizures, myotonias, arrhythmias, and pain syndromes. <i>Journal of Physiology</i> , 2022, 600, 2835-2851.	2.9	14
3	Protein Kinases Mediate Anti-Inflammatory Effects of Cannabidiol and Estradiol Against High Glucose in Cardiac Sodium Channels. <i>Frontiers in Pharmacology</i> , 2021, 12, 668657.	3.5	14
4	Cannabidiol inhibits the skeletal muscle Nav1.4 by blocking its pore and by altering membrane elasticity. <i>Journal of General Physiology</i> , 2021, 153, .	1.9	38
5	B-PO05-022 CLINICAL AND FUNCTIONAL CHARACTERIZATION OF SCN5A VARIANTS LINKED TO ADRENERGIC VENTRICULAR ARRHYTHMIA: A MULTICENTER STUDY. <i>Heart Rhythm</i> , 2021, 18, S380.	0.7	1
6	Persistent sodium currents in <i>SCN1A</i> developmental and degenerative epileptic dyskinetic encephalopathy. <i>Brain Communications</i> , 2021, 3, fcb235.	3.3	12
7	The L1624Q Variant in SCN1A Causes Familial Epilepsy Through a Mixed Gain and Loss of Channel Function. <i>Frontiers in Pharmacology</i> , 2021, 12, 788192.	3.5	3
8	Protective Effect of Cannabidiol Against Oxidative Stress and Cytotoxicity Evoked by High Glucose in Cardiac Voltage-Gated Sodium Channels. <i>Biophysical Journal</i> , 2020, 118, 578a.	0.5	1
9	Biophysical Characterization of a Novel SCN5A Mutation Associated With an Atypical Phenotype of Atrial and Ventricular Arrhythmias and Sudden Death. <i>Frontiers in Physiology</i> , 2020, 11, 610436.	2.8	12
10	Mechanism of Sodium Channel Inhibition by Cannabidiol. <i>Biophysical Journal</i> , 2020, 118, 499a.	0.5	0
11	Say Cheese: Structure of the Cardiac Electrical Engine Is Captured. <i>Trends in Biochemical Sciences</i> , 2020, 45, 369-371.	7.5	13
12	Cannabidiol protects against high glucose-induced oxidative stress and cytotoxicity in cardiac voltage-gated sodium channels. <i>British Journal of Pharmacology</i> , 2020, 177, 2932-2946.	5.4	38
13	Cannabidiol Affects Chain Packing in Lipid Membranes. <i>Biophysical Journal</i> , 2020, 118, 389a.	0.5	3
14	E1784K, the most common Brugada syndrome and long-QT syndrome type 3 mutant, disrupts sodium channel inactivation through two separate mechanisms. <i>Journal of General Physiology</i> , 2020, 152, .	1.9	10
15	Cannabidiol interactions with voltage-gated sodium channels. <i>ELife</i> , 2020, 9, .	6.0	40
16	Targeting of NAV1.6 and NAV1.2 to Inhibit Excitatory vs Inhibitory Neural Circuits. <i>Biophysical Journal</i> , 2020, 118, 499a-500a.	0.5	0
17	SCN5A mutations in 442 neonates and children: Genotype-phenotype correlation and identification of higher-risk subgroups. <i>Archives of Cardiovascular Diseases Supplements</i> , 2019, 11, e381-e382.	0.0	0
18	Voltage gated sodium channels in cancer and their potential mechanisms of action. <i>Channels</i> , 2019, 13, 400-409.	2.8	43

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19	Case studies in neuroscience: a novel amino acid duplication in the NH ₂ -terminus of the brain sodium channel Na _v 1.1 underlying Dravet syndrome. <i>Journal of Neurophysiology</i> , 2019, 122, 1975-1980.	1.8	1
20	Functional Genomics of Epilepsy and Associated Neurodevelopmental Disorders Using Simple Animal Models: From Genes, Molecules to Brain Networks. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 556.	3.7	17
21	pH Modulation of Voltage-Gated Sodium Channels. <i>Handbook of Experimental Pharmacology</i> , 2018, 246, 147-160.	1.8	16
22	Effects of Cannabidiol on Human Nav Channels. <i>Biophysical Journal</i> , 2018, 114, 636a.	0.5	0
23	The efficacy of Ranolazine on E1784K is altered by temperature and calcium. <i>Scientific Reports</i> , 2018, 8, 3643.	3.3	14
24	A Mixed Periodic Paralysis & Myotonia Mutant, P1158S, Imparts pH-Sensitivity in Skeletal Muscle Voltage-gated Sodium Channels. <i>Scientific Reports</i> , 2018, 8, 6304.	3.3	11
25	Arrhythmogenic triggers associated with Sudden Cardiac Death. <i>Channels</i> , 2018, 12, 76-77.	2.8	1
26	Effects of acidosis on neuronal voltage-gated sodium channels: Nav1.1 and Nav1.3. <i>Channels</i> , 2018, 12, 367-377.	2.8	17
27	Inhibitory effects of cannabidiol on voltage-dependent sodium currents. <i>Journal of Biological Chemistry</i> , 2018, 293, 16546-16558.	3.4	136
28	SCN5A mutations in 442 neonates and children: genotype-phenotype correlation and identification of higher-risk subgroups. <i>European Heart Journal</i> , 2018, 39, 2879-2887.	2.2	33
29	Mixed Periodic Paralysis & Myotonia Mutant Imparts pH Sensitivity in Nav1.4. <i>Biophysical Journal</i> , 2017, 112, 241a.	0.5	0
30	Compound heterozygous <i>TRPV4</i> mutations in two siblings with a complex phenotype including severe intellectual disability and neuropathy. <i>American Journal of Medical Genetics, Part A</i> , 2017, 173, 3087-3092.	1.2	13
31	Differential calcium sensitivity in Na _v 1.5 mixed syndrome mutants. <i>Journal of Physiology</i> , 2017, 595, 6165-6186.	2.9	16
32	Depolarization of the conductance-voltage relationship in the Nav1.5 mutant, E1784K, is due to altered fast inactivation. <i>PLoS ONE</i> , 2017, 12, e0184605.	2.5	14
33	Effects of Amiodarone and N-desethylamiodarone on Cardiac Voltage-Gated Sodium Channels. <i>Frontiers in Pharmacology</i> , 2016, 7, 39.	3.5	31
34	Intracellular Calcium Differentially affects SCN5A Mixed Syndrome Mutations. <i>Biophysical Journal</i> , 2016, 110, 109a.	0.5	0
35	The Effects of Amiodarone and N-Desethylamiodarone on Cardiac Voltage-Gated Sodium Channels. <i>Biophysical Journal</i> , 2016, 110, 113a.	0.5	0
36	Exome Sequencing and the Management of Neurometabolic Disorders. <i>New England Journal of Medicine</i> , 2016, 374, 2246-2255.	27.0	254

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37	Loss-of-function mutations in <i>SCN4A</i> cause severe foetal hypokinesia or "classical" congenital myopathy. <i>Brain</i> , 2016, 139, 674-691.	7.6	100
38	Triggers for arrhythmogenesis in the Brugada and long QT 3 syndromes. <i>Progress in Biophysics and Molecular Biology</i> , 2016, 120, 77-88.	2.9	31
39	Homologous Domains Mediate Distinct Gating Functions in EAG vs. Cyclic-Nucleotide Gated Channels. <i>Biophysical Journal</i> , 2015, 108, 276a-277a.	0.5	0
40	Differential thermosensitivity in mixed syndrome cardiac sodium channel mutants. <i>Journal of Physiology</i> , 2015, 593, 4201-4223.	2.9	34
41	MG-115...Compound heterozygous SCN4A mutation underlies severe congenital hypotonia and biophysical alteration in the encoded voltage-gated NAV1.4 sodium channel. <i>Journal of Medical Genetics</i> , 2015, 52, A3.2-A4.	3.2	0
42	Acidosis: A Possible Trigger for Brugada Syndrome Associated Arrhythmia. <i>Biophysical Journal</i> , 2014, 106, 327a.	0.5	2
43	Differential Thermosensitivity in Nav1.5 Mutations Associated with Long QT and Brugada Syndromes. <i>Biophysical Journal</i> , 2014, 106, 327a-328a.	0.5	0
44	Introduction to Sodium Channels. <i>Handbook of Experimental Pharmacology</i> , 2014, 221, 1-6.	1.8	18
45	Proton Modulation of Cardiac I _{Na} : A Potential Arrhythmogenic Trigger. <i>Handbook of Experimental Pharmacology</i> , 2014, 221, 169-181.	1.8	12
46	Proton Modulation of Ranolazine Effects on Slow Inactivation in Sodium Channels. <i>Biophysical Journal</i> , 2013, 104, 133a-134a.	0.5	0
47	Effects of the antianginal drug, ranolazine, on the brain sodium channel $\alpha_1V_{1.2}$ and its modulation by extracellular protons. <i>British Journal of Pharmacology</i> , 2013, 169, 704-716.	5.4	25
48	Proton Sensors in the Pore Domain of the Cardiac Voltage-gated Sodium Channel. <i>Journal of Biological Chemistry</i> , 2013, 288, 4782-4791.	3.4	27
49	A thermosensitive mutation alters the effects of lacosamide on slow inactivation in neuronal voltage-gated sodium channels, NaV1.2. <i>Frontiers in Pharmacology</i> , 2013, 4, 121.	3.5	4
50	A hot topic. <i>Channels</i> , 2012, 6, 75-85.	2.8	14
51	Ranolazine Effects on NaV1.2 and Modulation by pH. <i>Biophysical Journal</i> , 2012, 102, 323a-324a.	0.5	0
52	Proton Modulation of Gating Currents in the Cardiac Voltage-Gated Sodium Channel, NaV1.5. <i>Biophysical Journal</i> , 2012, 102, 326a-327a.	0.5	1
53	Acidosis Differentially Modulates Inactivation in NaV1.2, NaV1.4, and NaV1.5 Channels. <i>Frontiers in Pharmacology</i> , 2012, 3, 109.	3.5	40
54	A thermoprotective role of the sodium channel α_1 subunit is lost with the α_1 (C121W) mutation. <i>Epilepsia</i> , 2012, 53, 494-505.	5.1	24

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55	Turret Histidines in pH Modulation of the Cardiac Voltage-Gated Sodium Channel. <i>Biophysical Journal</i> , 2011, 100, 422a.	0.5	2
56	C121W Implicated in GEFS+ is a Thermosensitive Sodium Channel Mutation. <i>Biophysical Journal</i> , 2011, 100, 423a.	0.5	0
57	Biophysical costs associated with tetrodotoxin resistance in the sodium channel pore of the garter snake, <i>Thamnophis sirtalis</i> . <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2011, 197, 33-43.	1.6	30
58	The Biophysical Costs Associated With Tetrodotoxin Resistance in the Garter Snake, <i>Thamnophis Sirtalis</i> . <i>Biophysical Journal</i> , 2010, 98, 8a.	0.5	1
59	pH-Dependent Regulation of rNaV1.2 Channel Inactivation. <i>Biophysical Journal</i> , 2009, 96, 251a.	0.5	1
60	Action potential generation requires a high sodium channel density in the axon initial segment. <i>Nature Neuroscience</i> , 2008, 11, 178-186.	14.8	592
61	Biophysical defects in voltage-gated sodium channels associated with Long QT and Brugada syndromes. <i>Channels</i> , 2008, 2, 70-80.	2.8	18
62	Differential Interactions of Na ⁺ Channel Toxins with T-type Ca ²⁺ Channels. <i>Journal of General Physiology</i> , 2008, 132, 101-113.	1.9	19
63	Interaction between voltage-gated sodium channels and the neurotoxin, tetrodotoxin. <i>Channels</i> , 2008, 2, 407-412.	2.8	138
64	Charge Immobilization of Skeletal Muscle Na ⁺ Channels: Role of Residues in the Inactivation Linker. <i>Biophysical Journal</i> , 2007, 93, 1519-1533.	0.5	12
65	Methods for Studying Voltage-Gated Sodium Channels in Heterologous Expression Systems. , 2006, 129, 163-186.		3
66	A potassium channel (Kv4) cloned from the heart of the tunicate <i>Ciona intestinalis</i> and its modulation by a KCHIP subunit. <i>Journal of Experimental Biology</i> , 2006, 209, 731-747.	1.7	9
67	Evolutionary diversification of TTX-resistant sodium channels in a predator-prey interaction. <i>Nature</i> , 2005, 434, 759-763.	27.8	206
68	K-Aggravated Myotonia Mutations at Residue G1306 Differentially Alter Deactivation Gating of Human Skeletal Muscle Sodium Channels. <i>Cellular and Molecular Neurobiology</i> , 2005, 25, 1075-1092.	3.3	6
69	Temperature-sensitive defects in paramyotonia congenita mutants R1448C and T1313M. <i>Muscle and Nerve</i> , 2004, 30, 277-288.	2.2	27
70	5HT1A Serotonin Receptor Agonists Inhibit Plasmodium falciparum by Blocking a Membrane Channel. <i>Antimicrobial Agents and Chemotherapy</i> , 2003, 47, 3806-3809.	3.2	15
71	Negative charges in the DIII-DIV linker of human skeletal muscle Na ⁺ channels regulate deactivation gating. <i>Journal of Physiology</i> , 2003, 548, 85-96.	2.9	11
72	Mechanisms of Adaptation in a Predator-Prey Arms Race: TTX-Resistant Sodium Channels. <i>Science</i> , 2002, 297, 1336-1339.	12.6	166

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73	Outer and Central Charged Residues in DIVS4 of Skeletal Muscle Sodium Channels Have Differing Roles in Deactivation. <i>Biophysical Journal</i> , 2002, 82, 1293-1307.	0.5	15
74	A Single Residue Differentiates between Human Cardiac and Skeletal Muscle Na ⁺ Channel Slow Inactivation. <i>Biophysical Journal</i> , 2001, 80, 2221-2230.	0.5	53
75	A novel mechanism associated with idiopathic ventricular fibrillation (IVF) mutations R1232W and T1620M in human cardiac sodium channels. <i>Pflugers Archiv European Journal of Physiology</i> , 2001, 442, 204-211.	2.8	16
76	Slow Inactivation in Voltage-Gated Sodium Channels: Molecular Substrates and Contributions to Channelopathies. <i>Cell Biochemistry and Biophysics</i> , 2001, 35, 171-190.	1.8	152
77	The delay in recovery from fast inactivation in skeletal muscle sodium channels is deactivation. <i>Cellular and Molecular Neurobiology</i> , 2000, 20, 521-527.	3.3	11
78	Differential effects of homologous S4 mutations in human skeletal muscle sodium channels on deactivation gating from open and inactivated states. <i>Journal of Physiology</i> , 1999, 516, 687-698.	2.9	33
79	Voltage Sensors in Domains III and IV, but Not I and II, Are Immobilized by Na ⁺ Channel Fast Inactivation. <i>Neuron</i> , 1999, 22, 73-87.	8.1	264
80	Functional consequences of a domain I/S6 segment sodium channel mutation associated with painful congenital myotonia. <i>FEBS Letters</i> , 1999, 448, 231-234.	2.8	18
81	Structural Determinants of Slow Inactivation in Human Cardiac and Skeletal Muscle Sodium Channels. <i>Biophysical Journal</i> , 1999, 77, 1384-1393.	0.5	74
82	A defect in skeletal muscle sodium channel deactivation exacerbates hyperexcitability in human paramyotonia congenita. <i>Journal of Physiology</i> , 1998, 506, 627-638.	2.9	61
83	Effects of clamp rise-time on rat brain IIA sodium channels in <i>Xenopus</i> oocytes. <i>Journal of Neuroscience Methods</i> , 1997, 73, 113-122.	2.5	5