

Nipavan Chiamvimonvat

List of Publications by Year in Descending Order

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Version: 2024-04-26

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

109
papers

4,790
citations

41
h-index

67
g-index

181
ext. papers

5,526
ext. citations

5.8
avg, IF

6.65
L-index

#	Paper	IF	Citations
109	Deciphering cellular signals in adult mouse sinoatrial node cells.. <i>IScience</i> , 2022 , 25, 103693	6.1	1
108	Beat-to-beat dynamic regulation of intracellular pH in cardiomyocytes.. <i>IScience</i> , 2022 , 25, 103624	6.1	1
107	Protocol to record and quantify the intracellular pH in contracting cardiomyocytes.. <i>STAR Protocols</i> , 2022 , 3, 101301	1.4	
106	The Critical Roles of Proteostasis and Endoplasmic Reticulum Stress in Atrial Fibrillation.. <i>Frontiers in Physiology</i> , 2021 , 12, 793171	4.6	0
105	Making Heads or Tails of the Large Mammalian Sinoatrial Node Micro-Organization. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2021 , CIRCEP121010465	6.4	0
104	Protocol to assess two distinct components of the nonlinear capacitance in mouse cardiomyocytes. <i>STAR Protocols</i> , 2021 , 2, 100891	1.4	
103	Mechanical Load Regulates Excitation-Ca Signaling-Contraction in Cardiomyocyte. <i>Circulation Research</i> , 2021 , 128, 772-774	15.7	5
102	Sex and Race Disparities in Presumed Sudden Cardiac Death: One Size Does Not Fit All. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2021 , 14, e010053	6.4	0
101	Model Systems for Addressing Mechanism of Arrhythmogenesis in Cardiac Repair. <i>Current Cardiology Reports</i> , 2021 , 23, 72	4.2	
100	Prestin amplifies cardiac motor functions. <i>Cell Reports</i> , 2021 , 35, 109097	10.6	5
99	Lack of association of antihypertensive drugs with the risk and severity of COVID-19: A meta-analysis. <i>Journal of Cardiology</i> , 2021 , 77, 482-491	3	30
98	Cardiac small-conductance calcium-activated potassium channels in health and disease. <i>Pflugers Archiv European Journal of Physiology</i> , 2021 , 473, 477-489	4.6	3
97	Ketone Ester D-β-Hydroxybutyrate-(R)-1,3 Butanediol Prevents Decline in Cardiac Function in Type 2 Diabetic Mice. <i>Journal of the American Heart Association</i> , 2021 , 10, e020729	6	6
96	Chronic Diclofenac Exposure Increases Mitochondrial Oxidative Stress, Inflammatory Mediators, and Cardiac Dysfunction. <i>Cardiovascular Drugs and Therapy</i> , 2021 , 1	3.9	1
95	Key Characteristics of Cardiovascular Toxicants. <i>Environmental Health Perspectives</i> , 2021 , 129, 95001	8.4	7
94	Intestinal Dysbiosis and the Developing Lung: The Role of Toll-Like Receptor 4 in the Gut-Lung Axis. <i>Frontiers in Immunology</i> , 2020 , 11, 357	8.4	7
93	Bariatric surgery to alleviate Occurrence of Atrial Fibrillation Hospitalization-BLOC-AF. <i>Heart Rhythm O2</i> , 2020 , 1, 96-102	1.5	2

92	Different arrhythmia-associated calmodulin mutations have distinct effects on cardiac SK channel regulation. <i>Journal of General Physiology</i> , 2020 , 152,	3.4	4
91	Assessment of Hydroxychloroquine and Chloroquine Safety Profiles: A Systematic Review and Meta-Analysis 2020 ,		5
90	Human induced pluripotent stem cell line with genetically encoded fluorescent voltage indicator generated via CRISPR for action potential assessment post-cardiogenesis. <i>Stem Cells</i> , 2020 , 38, 90-101	5.8	10
89	Mechano-electric and mechano-chemo-transduction in cardiomyocytes. <i>Journal of Physiology</i> , 2020 , 598, 1285-1305	3.9	21
88	AKAP5 complex facilitates purinergic modulation of vascular L-type Ca channel Ca1.2. <i>Nature Communications</i> , 2020 , 11, 5303	17.4	6
87	Assessment of Chloroquine and Hydroxychloroquine Safety Profiles: A Systematic Review and Meta-Analysis. <i>Frontiers in Pharmacology</i> , 2020 , 11, 562777	5.6	7
86	Suppression of inflammation and fibrosis using soluble epoxide hydrolase inhibitors enhances cardiac stem cell-based therapy. <i>Stem Cells Translational Medicine</i> , 2020 , 9, 1570-1584	6.9	8
85	NODAL inhibition promotes differentiation of pacemaker-like cardiomyocytes from human induced pluripotent stem cells. <i>Stem Cell Research</i> , 2020 , 49, 102043	1.6	9
84	Selectin-Targeting Glycosaminoglycan-Peptide Conjugate Limits Neutrophil Mediated Cardiac Reperfusion Injury. <i>Cardiovascular Research</i> , 2020 ,	9.9	4
83	Gating Properties of Mutant Sodium Channels and Responses to Sodium Current Inhibitors Predict Mexiletine-Sensitive Mutations of Long QT Syndrome 3. <i>Frontiers in Pharmacology</i> , 2020 , 11, 1182	5.6	4
82	The developing gut-lung axis: postnatal growth restriction, intestinal dysbiosis, and pulmonary hypertension in a rodent model. <i>Pediatric Research</i> , 2020 , 87, 472-479	3.2	13
81	Cooperativity of K7.4 channels confers ultrafast electromechanical sensitivity and emergent properties in cochlear outer hair cells. <i>Science Advances</i> , 2020 , 6, eaba1104	14.3	11
80	Early functional alterations in membrane properties and neuronal degeneration are hallmarks of progressive hearing loss in NOD mice. <i>Scientific Reports</i> , 2019 , 9, 12128	4.9	1
79	Adenylyl cyclase 5-generated cAMP controls cerebral vascular reactivity during diabetic hyperglycemia. <i>Journal of Clinical Investigation</i> , 2019 , 129, 3140-3152	15.9	20
78	The local translation of in dendritic projections of auditory neurons and the roles of in the transition from hidden to overt hearing loss. <i>Aging</i> , 2019 , 11, 11541-11564	5.6	5
77	Aspirin and clopidogrel high on-treatment platelet reactivity and genetic predictors in peripheral arterial disease. <i>Catheterization and Cardiovascular Interventions</i> , 2018 , 91, 1308-1317	2.7	7
76	Coupling of SK channels, L-type Ca channels, and ryanodine receptors in cardiomyocytes. <i>Scientific Reports</i> , 2018 , 8, 4670	4.9	18
75	Complex electrophysiological remodeling in postinfarction ischemic heart failure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E3036-E3044	11.5	51

74	Feedback Mechanisms for Cardiac-Specific MicroRNAs and cAMP Signaling in Electrical Remodeling 2018 , 219-225		
73	CAABL-AF (California Study of Ablation for Atrial Fibrillation): Mortality and Stroke, 2005 to 2013. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018 , 11, e005739	6.4	23
72	Local regulation of L-type CaV1.2 channel and vascular reactivity by adenylyl cyclase 5 during diabetic hyperglycemia. <i>FASEB Journal</i> , 2018 , 32, 567.1	0.9	
71	Dynamical effects of calcium-sensitive potassium currents on voltage and calcium alternans. <i>Journal of Physiology</i> , 2017 , 595, 2285-2297	3.9	16
70	High-fat diet induces protein kinase A and G-protein receptor kinase phosphorylation of β -adrenergic receptor and impairs cardiac adrenergic reserve in animal hearts. <i>Journal of Physiology</i> , 2017 , 595, 1973-1986	3.9	5
69	Action Potential Shortening and Impairment of Cardiac Function by Ablation of. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2017 , 10,	6.4	11
68	Novel large-particle FACS purification of adult ventricular myocytes reveals accumulation of myosin and actin disproportionate to cell size and proteome in normal post-weaning development. <i>Journal of Molecular and Cellular Cardiology</i> , 2017 , 111, 114-122	5.8	6
67	Electrotaxis of cardiac progenitor cells, cardiac fibroblasts, and induced pluripotent stem cell-derived cardiac progenitor cells requires serum and is directed via PI3K pathways. <i>Heart Rhythm</i> , 2017 , 14, 1685-1692	6.7	5
66	Potassium channels in the heart: structure, function and regulation. <i>Journal of Physiology</i> , 2017 , 595, 2209-2228	3.9	49
65	Potassium currents in the heart: functional roles in repolarization, arrhythmia and therapeutics. <i>Journal of Physiology</i> , 2017 , 595, 2229-2252	3.9	51
64	Distinct subcellular mechanisms for the enhancement of the surface membrane expression of SK2 channel by its interacting proteins, β -actinin2 and filamin A. <i>Journal of Physiology</i> , 2017 , 595, 2271-2284	3.9	10
63	Biochemical and biomechanical properties of the pacemaking sinoatrial node extracellular matrix are distinct from contractile left ventricular matrix. <i>PLoS ONE</i> , 2017 , 12, e0185125	3.7	17
62	Same-Single-Cell Analysis of Pacemaker-Specific Markers in Human Induced Pluripotent Stem Cell-Derived Cardiomyocyte Subtypes Classified by Electrophysiology. <i>Stem Cells</i> , 2016 , 34, 2670-2680	5.8	17
61	Multimodal SHG-2PF Imaging of Microdomain Ca ²⁺ -Contraction Coupling in Live Cardiac Myocytes. <i>Circulation Research</i> , 2016 , 118, e19-28	15.7	14
60	Mechanisms of Calmodulin Regulation of Different Isoforms of Kv7.4 K ⁺ Channels. <i>Journal of Biological Chemistry</i> , 2016 , 291, 2499-509	5.4	11
59	In Vivo Cannulation Methods for Cardiomyocytes Isolation from Heart Disease Models. <i>PLoS ONE</i> , 2016 , 11, e0160605	3.7	10
58	Small-Conductance Ca ²⁺ -Activated K ⁺ Current in Atrial Fibrillation: Both Friend and FOE. <i>Biophysical Journal</i> , 2016 , 110, 274a	2.9	5
57	Molecular Mechanisms and New Treatment Paradigm for Atrial Fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2016 , 9,	6.4	31

56	Identification of a key residue in Kv7.1 potassium channel essential for sensing external potassium ions. <i>Journal of General Physiology</i> , 2015 , 145, 201-12	3.4	8
55	Small-conductance Ca ²⁺ -activated K ⁺ channels and cardiac arrhythmias. <i>Heart Rhythm</i> , 2015 , 12, 1845-56.	5.7	54
54	Feedback mechanisms for cardiac-specific microRNAs and cAMP signaling in electrical remodeling. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2015 , 8, 942-50	6.4	14
53	Inhibition of soluble epoxide hydrolase attenuates hepatic fibrosis and endoplasmic reticulum stress induced by carbon tetrachloride in mice. <i>Toxicology and Applied Pharmacology</i> , 2015 , 286, 102-11	4.6	59
52	Na ⁺ channel function, regulation, structure, trafficking and sequestration. <i>Journal of Physiology</i> , 2015 , 593, 1347-60	3.9	42
51	Aerobic exercise-based rehabilitation affects the activities of progenitor endothelial cells through EETs pathway. <i>Medical Hypotheses</i> , 2015 , 85, 1037-8	3.8	2
50	Regulation of gene transcription by voltage-gated L-type calcium channel, Cav1.3. <i>Journal of Biological Chemistry</i> , 2015 , 290, 4663-4676	5.4	31
49	Inhibition of soluble epoxide hydrolase in mice promotes reverse cholesterol transport and regression of atherosclerosis. <i>Atherosclerosis</i> , 2015 , 239, 557-65	3.1	29
48	Etiology of distinct membrane excitability in pre- and posthearing auditory neurons relies on activity of Cl ⁻ channel TMEM16A. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 2575-80	11.5	15
47	Functional interaction with filamin A and intracellular Ca ²⁺ enhance the surface membrane expression of a small-conductance Ca ²⁺ -activated K ⁺ (SK2) channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 9989-94	11.5	35
46	Mechanochemotransduction during cardiomyocyte contraction is mediated by localized nitric oxide signaling. <i>Science Signaling</i> , 2014 , 7, ra27	8.8	99
45	Critical roles of a small conductance Ca ²⁺ -activated K ⁺ channel (SK3) in the repolarization process of atrial myocytes. <i>Cardiovascular Research</i> , 2014 , 101, 317-25	9.9	60
44	Genetic, cellular, and functional evidence for Ca ²⁺ inflow through Cav1.2 and Cav1.3 channels in murine spiral ganglion neurons. <i>Journal of Neuroscience</i> , 2014 , 34, 7383-93	6.6	16
43	Cardioprotection by controlling hyperamylinemia in a "humanized" diabetic rat model. <i>Journal of the American Heart Association</i> , 2014 , 3,	6	29
42	Substituted phenyl groups improve the pharmacokinetic profile and anti-inflammatory effect of urea-based soluble epoxide hydrolase inhibitors in murine models. <i>European Journal of Pharmaceutical Sciences</i> , 2013 , 48, 619-27	5.1	55
41	Low-level vagus nerve stimulation upregulates small conductance calcium-activated potassium channels in the stellate ganglion. <i>Heart Rhythm</i> , 2013 , 10, 910-5	6.7	46
40	A potent soluble epoxide hydrolase inhibitor, t-AUCB, acts through PPAR α to modulate the function of endothelial progenitor cells from patients with acute myocardial infarction. <i>International Journal of Cardiology</i> , 2013 , 167, 1298-304	3.2	54
39	Unique mechanistic insights into the beneficial effects of soluble epoxide hydrolase inhibitors in the prevention of cardiac fibrosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 5618-23	11.5	78

38	Anti-inflammatory effects of Ω 3 polyunsaturated fatty acids and soluble epoxide hydrolase inhibitors in angiotensin-II-dependent hypertension. <i>Journal of Cardiovascular Pharmacology</i> , 2013 , 62, 285-97	3.1	78
37	Adenylyl cyclase subtype-specific compartmentalization: differential regulation of L-type Ca^{2+} current in ventricular myocytes. <i>Circulation Research</i> , 2013 , 112, 1567-76	15.7	62
36	Training the translational research teams of the future: UC Davis-HHMI Integrating Medicine into Basic Science program. <i>Clinical and Translational Science</i> , 2013 , 6, 339-46	4.9	14
35	Mechanism-based facilitated maturation of human pluripotent stem cell-derived cardiomyocytes. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2013 , 6, 191-201	6.4	140
34	Label-free identification and characterization of human pluripotent stem cell-derived cardiomyocytes using second harmonic generation (SHG) microscopy. <i>Journal of Biophotonics</i> , 2012 , 5, 57-66	3.1	19
33	MicroRNA profiling predicts a variance in the proliferative potential of cardiac progenitor cells derived from neonatal and adult murine hearts. <i>Journal of Molecular and Cellular Cardiology</i> , 2012 , 52, 264-72	5.8	34
32	The cargo of CRPPR-conjugated liposomes crosses the intact murine cardiac endothelium. <i>Journal of Controlled Release</i> , 2012 , 163, 10-7	11.7	19
31	Pharmacological inhibition of soluble epoxide hydrolase provides cardioprotection in hyperglycemic rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 303, H853-62	5.2	19
30	Electrocardiogram with a twist. <i>Critical Pathways in Cardiology</i> , 2012 , 11, 218-9	1.3	2
29	Expression and roles of Cav1.3 (β D) L-type Ca^{2+} channel in atrioventricular node automaticity. <i>Journal of Molecular and Cellular Cardiology</i> , 2011 , 50, 194-202	5.8	36
28	Soluble epoxide hydrolase inhibitors and heart failure. <i>Cardiovascular Therapeutics</i> , 2011 , 29, 99-111	3.3	49
27	Use of metabolomic profiling in the study of arachidonic acid metabolism in cardiovascular disease. <i>Congestive Heart Failure</i> , 2011 , 17, 42-6		38
26	Stretch and Inflammation- Their Relation to Fractionation of Electrograms in Atrial Fibrillation. <i>Journal of Atrial Fibrillation</i> , 2011 , 4, 406	0.8	
25	Na^{+}/Ca^{2+} exchanger is a determinant of excitation-contraction coupling in human embryonic stem cell-derived ventricular cardiomyocytes. <i>Stem Cells and Development</i> , 2010 , 19, 773-82	4.4	69
24	Cardiac small conductance Ca^{2+} -activated K^{+} channel subunits form heteromultimers via the coiled-coil domains in the C termini of the channels. <i>Circulation Research</i> , 2010 , 107, 851-9	15.7	77
23	Metabolic profiling of murine plasma reveals an unexpected biomarker in rofecoxib-mediated cardiovascular events. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 17017-22	11.5	99
22	Disruption of adenylyl cyclase type V does not rescue the phenotype of cardiac-specific overexpression of α 1A protein-induced cardiomyopathy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010 , 299, H1459-67	5.2	9
21	Inhibition of soluble epoxide hydrolase enhances the anti-inflammatory effects of aspirin and 5-lipoxygenase activation protein inhibitor in a murine model. <i>Biochemical Pharmacology</i> , 2010 , 79, 880-7		104

20	Development of congestive heart failure in mice with a null deletion of MAFbx. <i>FASEB Journal</i> , 2010 , 24, 1036-17	0.9	1
19	Alpha-actinin2 cytoskeletal protein is required for the functional membrane localization of a Ca ²⁺ -activated K ⁺ channel (SK2 channel). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 18402-7	11.5	53
18	Soluble epoxide hydrolase plays an essential role in angiotensin II-induced cardiac hypertrophy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 564-9	11.5	138
17	Ablation of a Ca ²⁺ -activated K ⁺ channel (SK2 channel) results in action potential prolongation in atrial myocytes and atrial fibrillation. <i>Journal of Physiology</i> , 2009 , 587, 1087-100	3.9	152
16	Beneficial effects of soluble epoxide hydrolase inhibitors in myocardial infarction model: Insight gained using metabolomic approaches. <i>Journal of Molecular and Cellular Cardiology</i> , 2009 , 47, 835-45	5.8	71
15	Functional roles of a Ca ²⁺ -activated K ⁺ channel in atrioventricular nodes. <i>Circulation Research</i> , 2008 , 102, 465-71	15.7	80
14	Changing in atrioventricular conduction in mice over-expressing Ca ²⁺ -activated K ⁺ channels. <i>Cell Biology International</i> , 2008 , 32, S20-S20	4.5	
13	The soluble epoxide hydrolase as a pharmaceutical target for hypertension. <i>Journal of Cardiovascular Pharmacology</i> , 2007 , 50, 225-37	3.1	139
12	Molecular coupling of a Ca ²⁺ -activated K ⁺ channel to L-type Ca ²⁺ channels via alpha-actinin2. <i>Circulation Research</i> , 2007 , 100, 112-20	15.7	120
11	Prevention and reversal of cardiac hypertrophy by soluble epoxide hydrolase inhibitors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 18733-8	11.5	192
10	Differential expression of small-conductance Ca ²⁺ -activated K ⁺ channels SK1, SK2, and SK3 in mouse atrial and ventricular myocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 289, H2714-23	5.2	178
9	The effects of intracellular Ca ²⁺ on cardiac K ⁺ channel expression and activity: novel insights from genetically altered mice. <i>Journal of Physiology</i> , 2005 , 562, 745-58	3.9	32
8	Functional roles of Cav1.3(alpha1D) calcium channels in atria: insights gained from gene-targeted null mutant mice. <i>Circulation</i> , 2005 , 112, 1936-44	16.7	108
7	Retrograde cycle length alternans during supraventricular tachycardia: an unusual tachycardia mechanism. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2004 , 27, 1017-9	1.6	1
6	Characterization of a KCNQ1/KVLQT1 polymorphism in Asian families with LQT2: implications for genetic testing. <i>Journal of Molecular and Cellular Cardiology</i> , 2004 , 37, 79-89	5.8	32
5	Molecular identification and functional roles of a Ca(2+)-activated K ⁺ channel in human and mouse hearts. <i>Journal of Biological Chemistry</i> , 2003 , 278, 49085-94	5.4	206
4	Presence of a calcium-activated chloride current in mouse ventricular myocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002 , 283, H302-14	5.2	42
3	Functional Roles of Ca(v)1.3 (alpha(1D)) calcium channel in sinoatrial nodes: insight gained using gene-targeted null mutant mice. <i>Circulation Research</i> , 2002 , 90, 981-7	15.7	186

- 2 Changes in Ca(2+) cycling proteins underlie cardiac action potential prolongation in a pressure-overloaded guinea pig model with cardiac hypertrophy and failure. *Circulation Research*, **2000**, 86, 558-70 15.7 79
- 1 Ionic mechanism of action potential prolongation in ventricular myocytes from dogs with pacing-induced heart failure. *Circulation Research*, **1996**, 78, 262-73 15.7 375