

Robert A Rose

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

2,895
citations

185998

28
h-index

174990

52
g-index

77
all docs

77
docs citations

77
times ranked

4253
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbial shifts in the aging mouse gut. <i>Microbiome</i> , 2014, 2, 50.	4.9	354
2	A Clinical Frailty Index in Aging Mice: Comparisons With Frailty Index Data in Humans. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2014, 69, 621-632.	1.7	322
3	Bone Marrow-Derived Mesenchymal Stromal Cells Express Cardiac-Specific Markers, Retain the Stromal Phenotype, and Do Not Become Functional Cardiomyocytes In Vitro. <i>Stem Cells</i> , 2008, 26, 2884-2892.	1.4	202
4	Natriuretic peptide C receptor signalling in the heart and vasculature. <i>Journal of Physiology</i> , 2008, 586, 353-366.	1.3	175
5	RGS4 Regulates Parasympathetic Signaling and Heart Rate Control in the Sinoatrial Node. <i>Circulation Research</i> , 2008, 103, 527-535.	2.0	109
6	<i>Iroquois</i> homeobox gene 3 establishes fast conduction in the cardiac His-Purkinje network. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 13576-13581.	3.3	109
7	The Association Between Diabetes Mellitus and Atrial Fibrillation: Clinical and Mechanistic Insights. <i>Frontiers in Physiology</i> , 2019, 10, 135.	1.3	88
8	Neurohumoral Control of Sinoatrial Node Activity and Heart Rate: Insight From Experimental Models and Findings From Humans. <i>Frontiers in Physiology</i> , 2020, 11, 170.	1.3	80
9	The natriuretic peptides BNP and CNP increase heart rate and electrical conduction by stimulating ionic currents in the sinoatrial node and atrial myocardium following activation of guanylyl cyclase-linked natriuretic peptide receptors. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 52, 1122-1134.	0.9	75
10	The impacts of age and frailty on heart rate and sinoatrial node function. <i>Journal of Physiology</i> , 2016, 594, 7105-7126.	1.3	75
11	Protecting the aged heart during cardiac surgery: Use of del Nido cardioplegia provides superior functional recovery in isolated hearts. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2013, 146, 940-948.	0.4	70
12	Cardiac ryanodine receptor calcium release deficiency syndrome. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	68
13	Sex differences in SR Ca ²⁺ release in murine ventricular myocytes are regulated by the cAMP/PKA pathway. <i>Journal of Molecular and Cellular Cardiology</i> , 2014, 75, 162-173.	0.9	66
14	Distinct Patterns of Constitutive Phosphodiesterase Activity in Mouse Sinoatrial Node and Atrial Myocardium. <i>PLoS ONE</i> , 2012, 7, e47652.	1.1	64
15	Iron Overload Decreases Ca ^v 1.3-Dependent L-Type Ca ²⁺ Currents Leading to Bradycardia, Altered Electrical Conduction, and Atrial Fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2011, 4, 733-742.	2.1	62
16	Atrial structure, function and arrhythmogenesis in aged and frail mice. <i>Scientific Reports</i> , 2017, 7, 44336.	1.6	55
17	Impaired sinoatrial node function and increased susceptibility to atrial fibrillation in mice lacking natriuretic peptide receptor C. <i>Journal of Physiology</i> , 2015, 593, 1127-1146.	1.3	54
18	Effects of C-type natriuretic peptide on ionic currents in mouse sinoatrial node: a role for the NPR-C receptor. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 286, H1970-H1977.	1.5	52

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19	Electrophysiological evidence for a gradient of G protein-gated K ⁺ current in adult mouse atria. <i>British Journal of Pharmacology</i> , 2003, 140, 576-584.	2.7	51
20	Distinct patterns of atrial electrical and structural remodeling in angiotensin II mediated atrial fibrillation. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 124, 12-25.	0.9	51
21	NPR-C (Natriuretic Peptide Receptor-C) Modulates the Progression of Angiotensin II-Mediated Atrial Fibrillation and Atrial Remodeling in Mice. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2019, 12, e006863.	2.1	46
22	Electrophysiological effects of natriuretic peptides in the heart are mediated by multiple receptor subtypes. <i>Progress in Biophysics and Molecular Biology</i> , 2016, 120, 37-49.	1.4	40
23	Natriuretic peptides regulate heart rate and sinoatrial node function by activating multiple natriuretic peptide receptors. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 53, 715-724.	0.9	34
24	Intrinsic regulation of sinoatrial node function and the zebrafish as a model of stretch effects on pacemaking. <i>Progress in Biophysics and Molecular Biology</i> , 2017, 130, 198-211.	1.4	33
25	Loss of insulin signaling may contribute to atrial fibrillation and atrial electrical remodeling in type 1 diabetes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 7990-8000.	3.3	33
26	Altered Heart Rate and Sinoatrial Node Function in Mice Lacking the cAMP Regulator Phosphoinositide 3-Kinase- \hat{I}^3 . <i>Circulation Research</i> , 2007, 101, 1274-1282.	2.0	31
27	Altered parasympathetic nervous system regulation of the sinoatrial node in Akita diabetic mice. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 82, 125-135.	0.9	31
28	Effects of natriuretic peptides on electrical conduction in the sinoatrial node and atrial myocardium of the heart. <i>Journal of Physiology</i> , 2014, 592, 1025-1045.	1.3	30
29	Do Mesenchymal Stromal Cells Transdifferentiate Into Functional Cardiomyocytes?. <i>Circulation Research</i> , 2008, 103, e120.	2.0	29
30	Phosphoinositide 3-kinase \hat{I}^3 Regulates Cardiac Contractility by Locally Controlling Cyclic Adenosine Monophosphate Levels. <i>Trends in Cardiovascular Medicine</i> , 2006, 16, 250-256.	2.3	28
31	The Impact of Ovariectomy on Calcium Homeostasis and Myofilament Calcium Sensitivity in the Aging Mouse Heart. <i>PLoS ONE</i> , 2013, 8, e74719.	1.1	28
32	Natriuretic Peptide Receptor-C Protects Against Angiotensin II-Mediated Sinoatrial Node Disease in Mice. <i>JACC Basic To Translational Science</i> , 2018, 3, 824-843.	1.9	27
33	Atrial remodeling and atrial fibrillation in acquired forms of cardiovascular disease. <i>Heart Rhythm O2</i> , 2020, 1, 147-159.	0.6	27
34	Effects of Wild-Type and Mutant Forms of Atrial Natriuretic Peptide on Atrial Electrophysiology and Arrhythmogenesis. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2015, 8, 1240-1254.	2.1	26
35	New aspects of endocrine control of atrial fibrillation and possibilities for clinical translation. <i>Cardiovascular Research</i> , 2021, 117, 1645-1661.	1.8	24
36	The impact of ovariectomy on cardiac excitation-contraction coupling is mediated through cAMP/PKA-dependent mechanisms. <i>Journal of Molecular and Cellular Cardiology</i> , 2017, 111, 51-60.	0.9	23

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37	Electrical and structural remodeling contribute to atrial fibrillation in type 2 diabetic db/db mice. <i>Heart Rhythm</i> , 2021, 18, 118-129.	0.3	22
38	C-type Natriuretic Peptide Inhibits L-type Ca ²⁺ Current in Rat Magnocellular Neurosecretory Cells by Activating the NPR-C Receptor. <i>Journal of Neurophysiology</i> , 2005, 94, 612-621.	0.9	20
39	Long-term testosterone deficiency modifies myofilament and calcium-handling proteins and promotes diastolic dysfunction in the aging mouse heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 316, H768-H780.	1.5	20
40	Altered heart rate variability in angiotensin II-mediated hypertension is associated with impaired autonomic nervous system signaling and intrinsic sinoatrial node dysfunction. <i>Heart Rhythm</i> , 2020, 17, 1360-1370.	0.3	20
41	Intracellular [Na ⁺] modulates synergy between Na ⁺ /Ca ²⁺ exchanger and L-type Ca ²⁺ current in cardiac excitation-contraction coupling during action potentials. <i>Basic Research in Cardiology</i> , 2011, 106, 967-977.	2.5	18
42	CD-NP, a chimeric natriuretic peptide for the treatment of heart failure. <i>Current Opinion in Investigational Drugs</i> , 2010, 11, 349-56.	2.3	18
43	Activation of sphingosine-1-phosphate signalling as a potential underlying mechanism of the pleiotropic effects of statin therapy. <i>Critical Reviews in Clinical Laboratory Sciences</i> , 2013, 50, 79-89.	2.7	15
44	Ca ²⁺ Entry Through TRP-C Channels Regulates Fibroblast Biology in Chronic Atrial Fibrillation. <i>Circulation</i> , 2012, 126, 2039-2041.	1.6	13
45	Natriuretic peptide receptor B maintains heart rate and sinoatrial node function via cyclic GMP-mediated signalling. <i>Cardiovascular Research</i> , 2022, 118, 1917-1931.	1.8	13
46	Altered heart rate regulation by the autonomic nervous system in mice lacking natriuretic peptide receptor C (NPR-C). <i>Scientific Reports</i> , 2017, 7, 17564.	1.6	12
47	Impacts of frailty on heart rate variability in aging mice: Roles of the autonomic nervous system and sinoatrial node. <i>Heart Rhythm</i> , 2021, 18, 1999-2008.	0.3	10
48	New insights and new hope for pulmonary arterial hypertension: natriuretic peptides clearance receptor as a novel therapeutic target for a complex disease. <i>International Journal of Physiology, Pathophysiology and Pharmacology</i> , 2017, 9, 112-118.	0.8	10
49	Atrial Fibrillation in Aging and Frail Mice. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2021, 14, e010077.	2.1	8
50	Isolation of Atrial Myocytes from Adult Mice. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	6
51	Distinct Effects of Ibrutinib and Acalabrutinib on Mouse Atrial and Sinoatrial Node Electrophysiology and Arrhythmogenesis. <i>Journal of the American Heart Association</i> , 2021, 10, e022369.	1.6	6
52	Keeping the clocks ticking as we age: changes in sinoatrial node gene expression and function in the ageing heart. <i>Experimental Physiology</i> , 2011, 96, 1114-1115.	0.9	4
53	Loss of Natriuretic Peptide Receptor C Enhances Sinoatrial Node Dysfunction in Aging and Frail Mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2022, 77, 902-908.	1.7	4
54	The rationale for repurposing funny current inhibition for management of ventricular arrhythmia. <i>Heart Rhythm</i> , 2021, 18, 130-137.	0.3	3

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55	Impaired regulation of heart rate and sinoatrial node function by the parasympathetic nervous system in type 2 diabetic mice. Scientific Reports, 2021, 11, 12465.	1.6	1
56	Mechanism of and strategy to mitigate liraglutide-mediated positive chronotropy. Life Sciences, 2021, 282, 119815.	2.0	0
57	New insights into ventricular arrhythmogenesis in a pure model of pulmonary arterial hypertension. Heart Rhythm, 2022, 19, 125-126.	0.3	0