Joshua I Goldhaber

List of Publications by Citations

92	4,662	41	67
papers	citations	h-index	g-index
105	5,172	6.9	5.15
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
92	Intracellular Ca(2+) dynamics and the stability of ventricular tachycardia. *Biophysical Journal*, **1999**, 77, 2930-41	2.9	259
91	Connexin-43 hemichannels opened by metabolic inhibition. *Journal of Biological Chemistry*, **1999**, 274, 236-40	5.4	213
90	Reprogrammed mouse fibroblasts differentiate into cells of the cardiovascular and hematopoietic lineages. *Stem Cells*, **2008**, 26, 1537-46	5.8	204
89	Action potential duration restitution and alternans in rabbit ventricular myocytes: the key role of intracellular calcium cycling. *Circulation Research*, **2005**, 96, 459-66	15.7	193
88	Safety and hemodynamic effects of intravenous triiodothyronine in advanced congestive heart failure. *American Journal of Cardiology*, **1998**, 81, 443-7	3	169
87	Metabolic inhibition activates a non-selective current through connexin hemichannels in isolated ventricular myocytes. *Journal of Molecular and Cellular Cardiology*, **2000**, 32, 1859-72	5.8	168
86	Beta1 integrins participate in the hypertrophic response of rat ventricular myocytes. *Circulation Research*, **1998**, 82, 1160-72	15.7	168
85	Functional adult myocardium in the absence of Na+-Ca2+ exchange: cardiac-specific knockout of NCX1. *Circulation Research*, **2004**, 95, 604-11	15.7	153
84	The Na+-Ca2+ exchanger is essential for the action of cardiac glycosides. *Circulation Research*, **2002**, 90, 305-8	15.7	153
83	Oxygen free radicals and cardiac reperfusion abnormalities. *Hypertension*, **1992**, 20, 118-27	8.5	152
82	Cardiac-specific ablation of the Na+-Ca2+ exchanger confers protection against ischemia/reperfusion injury. *Circulation Research*, **2005**, 97, 916-21	15.7	136
81	Knockout mice for pharmacological screening: testing the specificity of Na+-Ca2+ exchange inhibitors. *Circulation Research*, **2002**, 91, 90-2	15.7	121
80	Effects of exogenous free radicals on electromechanical function and metabolism in isolated rabbit and guinea pig ventricle. Implications for ischemia and reperfusion injury. *Journal of Clinical Investigation*, **1989**, 83, 1800-9	15.9	117
79	Na+/Ca2+ exchange and Na+/K+-ATPase in the heart. *Journal of Physiology*, **2015**, 593, 1361-82	3.9	114
78	Pulseless electric activity: definition, causes, mechanisms, management, and research priorities for the next decade: report from a National Heart, Lung, and Blood Institute workshop. *Circulation*, **2013**, 128, 2532-41	16.7	101
77	Excitation-contraction coupling in Na+-Ca2+ exchanger knockout mice: reduced transsarcolemmal Ca2+ flux. *Circulation Research*, **2005**, 97, 1288-95	15.7	87
76	Oxygen free radicals and excitation-contraction coupling. *Antioxidants and Redox Signaling*, **2000**, 2, 55-68	8.4	84

75	Na/Ca exchange and contraction of the heart. *Journal of Molecular and Cellular Cardiology*, **2013**, 61, 28-33	5.8	80
74	Mutation in sodium-calcium exchanger 1 (NCX1) causes cardiac fibrillation in zebrafish. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 17699-704	11.5	75
73	Excitation-contraction coupling in single guinea-pig ventricular myocytes exposed to hydrogen peroxide. *Journal of Physiology*, **1994**, 477, 135-47	3.9	75
72	Novel features of the rabbit transverse tubular system revealed by quantitative analysis of three-dimensional reconstructions from confocal images. *Biophysical Journal*, **2008**, 95, 2053-62	2.9	74
71	Next-generation pacemakers: from small devices to biological pacemakers. *Nature Reviews Cardiology*, **2018**, 15, 139-150	14.8	73
70	Activation of reverse Na+-Ca2+ exchange by the Na+ current augments the cardiac Ca2+ transient: evidence from NCX knockout mice. *Journal of Physiology*, **2010**, 588, 3267-76	3.9	71
69	Recapitulation of the embryonic cardiovascular progenitor cell niche. *Biomaterials*, **2011**, 32, 2748-56	15.6	61
68	Induction of monocyte binding to endothelial cells by MM-LDL: role of lipoxygenase metabolites. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **1999**, 19, 680-6	9.4	61
67	Spontaneously beating cardiomyocytes derived from white mature adipocytes. *Cardiovascular Research*, **2010**, 85, 17-27	9.9	60
66	Regulation of cardiac L-type Ca2+ current in Na+-Ca2+ exchanger knockout mice: functional coupling of the Ca2+ channel and the Na+-Ca2+ exchanger. *Biophysical Journal*, **2007**, 92, 1431-7	2.9	56
65	Mitochondrial Ca(2+) uptake by the voltage-dependent anion channel 2 regulates cardiac rhythmicity. *ELife*, **2015**, 4,	8.9	56
64	Na(+)--Ca2+ exchange in the regulation of cardiac excitation-contraction coupling. *Cardiovascular Research*, **2005**, 67, 198-207	9.9	55
63	Mechanisms of excitation-contraction coupling failure during metabolic inhibition in guinea-pig ventricular myocytes. *Journal of Physiology*, **1991**, 443, 371-86	3.9	53
62	Sodium-calcium exchange is essential for effective triggering of calcium release in mouse heart. *Biophysical Journal*, **2010**, 99, 755-64	2.9	48
61	Burst pacemaker activity of the sinoatrial node in sodium-calcium exchanger knockout mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 9769-74	11.5	47
60	Complete atrial-specific knockout of sodium-calcium exchange eliminates sinoatrial node pacemaker activity. *PLoS ONE*, **2013**, 8, e81633	3.7	46
59	Local regulation of the threshold for calcium sparks in rat ventricular myocytes: role of sodium-calcium exchange. *Journal of Physiology*, **1999**, 520 Pt 2, 431-8	3.9	45
58	Na+ currents are required for efficient excitation-contraction coupling in rabbit ventricular myocytes: a possible contribution of neuronal Na+ channels. *Journal of Physiology*, **2010**, 588, 4249-60	3.9	44

57	Role of inotropic agents in the treatment of heart failure. *Circulation*, **2010**, 121, 1655-60	16.7	44
56	Integrins protect cardiomyocytes from ischemia/reperfusion injury. *Journal of Clinical Investigation*, **2013**, 123, 4294-308	15.9	44
55	Delayed Repolarization Underlies Ventricular Arrhythmias in Rats With Heart Failure and Preserved Ejection Fraction. *Circulation*, **2017**, 136, 2037-2050	16.7	43
54	Embryonic stem cell-derived cardiac myocytes are not ready for human trials. *Circulation Research*, **2014**, 115, 335-8	15.7	42
53	Mice overexpressing the cardiac sodium-calcium exchanger: defects in excitation-contraction coupling. *Journal of Physiology*, **2004**, 554, 779-89	3.9	42
52	Cardiac excitation-contraction coupling in the absence of Na(+) - Ca2+ exchange. *Cell Calcium*, **2003**, 34, 19-26	4	42
51	Mechanism of shortened action potential duration in Na+-Ca2+ exchanger knockout mice. *American Journal of Physiology - Cell Physiology*, **2007**, 292, C968-73	5.4	37
50	Cardiac sodium-calcium exchange and efficient excitation-contraction coupling: implications for heart disease. *Advances in Experimental Medicine and Biology*, **2013**, 961, 355-64	3.6	36
49	Triple threat: the Na+/Ca2+ exchanger in the pathophysiology of cardiac arrhythmia, ischemia and heart failure. *Current Drug Targets*, **2011**, 12, 737-47	3	36
48	Proarrhythmia in a non-failing murine model of cardiac-specific Na+/Ca 2+ exchanger overexpression: whole heart and cellular mechanisms. *Basic Research in Cardiology*, **2012**, 107, 247	11.8	31
47	Gi alpha 1-mediated cardiac electrophysiological remodeling and arrhythmia in hypertrophic cardiomyopathy. *Circulation*, **2007**, 116, 596-605	16.7	31
46	High-density lipoprotein increases intracellular calcium levels by releasing calcium from internal stores in human endothelial cells. *Atherosclerosis*, **1999**, 143, 299-306	3.1	29
45	Suppression of Early and Late Afterdepolarizations by Heterozygous Knockout of the Na+/Ca2+ Exchanger in a Murine Model. *Circulation: Arrhythmia and Electrophysiology*, **2015**, 8, 1210-8	6.4	27
44	Canonical Wnt signaling promotes pacemaker cell specification of cardiac mesodermal cells derived from mouse and human embryonic stem cells. *Stem Cells*, **2020**, 38, 352-368	5.8	26
43	Ventricular Arrhythmias Underlie Sudden Death in Rats With Heart Failure and Preserved Ejection Fraction. *Circulation: Arrhythmia and Electrophysiology*, **2018**, 11, e006452	6.4	25
42	Metabolic inhibition alters subcellular calcium release patterns in rat ventricular myocytes: implications for defective excitation-contraction coupling during cardiac ischemia and failure. *Circulation Research*, **2005**, 96, 551-7	15.7	23
41	Contribution of small conductance K channels to sinoatrial node pacemaker activity: insights from atrial-specific Na /Ca exchange knockout mice. *Journal of Physiology*, **2017**, 595, 3847-3865	3.9	22
40	The role of E2F-1 and downstream target genes in mediating ischemia/reperfusion injury in vivo. *Journal of Molecular and Cellular Cardiology*, **2011**, 51, 919-26	5.8	22

39	Na+/Ca2+ exchanger knockout mice: plasticity of cardiac excitation-contraction coupling. *Annals of the New York Academy of Sciences*, **2007**, 1099, 270-5	6.5	22
38	Genetic manipulation of cardiac Na+/Ca2+ exchange expression. *Biochemical and Biophysical Research Communications*, **2004**, 322, 1336-40	3.4	22
37	Regulation of calcium clock-mediated pacemaking by inositol-1,4,5-trisphosphate receptors in mouse sinoatrial nodal cells. *Journal of Physiology*, **2015**, 593, 2649-63	3.9	20
36	Dysfunction of ouabain-induced cardiac contractility in mice with heart-specific ablation of Na,K-ATPase beta1-subunit. *Journal of Molecular and Cellular Cardiology*, **2009**, 47, 552-60	5.8	20
35	Effect of metabolic inhibition on couplon behavior in rabbit ventricular myocytes. *Biophysical Journal*, **2008**, 94, 1656-66	2.9	20
34	Cardiac TRPV1 afferent signaling promotes arrhythmogenic ventricular remodeling after myocardial infarction. *JCI Insight*, **2020**, 5,	9.9	19
33	Heterogeneity of transverse-axial tubule system in mouse atria: Remodeling in atrial-specific Na-Ca exchanger knockout mice. *Journal of Molecular and Cellular Cardiology*, **2017**, 108, 50-60	5.8	18
32	Movement of vault particles visualized by GFP-tagged major vault protein. *Cell and Tissue Research*, **2006**, 324, 403-10	4.2	17
31	Return of calcium: manipulating intracellular calcium to prevent cardiac pathologies. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 5697-8	11.5	16
30	A modified local control model for Ca2+ transients in cardiomyocytes: junctional flux is accompanied by release from adjacent non-junctional RyRs. *Journal of Molecular and Cellular Cardiology*, **2014**, 68, 1-11	5.8	15
29	Homozygous overexpression of the Na+-Ca2+ exchanger in mice: evidence for increased transsarcolemmal Ca2+ fluxes. *Annals of the New York Academy of Sciences*, **2007**, 1099, 310-4	6.5	15
28	Distinct features of calcium handling and β-adrenergic sensitivity in heart failure with preserved versus reduced ejection fraction. *Journal of Physiology*, **2020**, 598, 5091-5108	3.9	15
27	Molecular determinants of pH regulation in the cardiac Na-Ca exchanger. *Journal of General Physiology*, **2018**, 150, 245-257	3.4	14
26	20 years from NCX purification and cloning: milestones. *Advances in Experimental Medicine and Biology*, **2013**, 961, 17-23	3.6	12
25	Effects of Na+-Ca2+ exchange expression on excitation-contraction coupling in genetically modified mice. *Annals of the New York Academy of Sciences*, **2005**, 1047, 122-6	6.5	12
24	Reverse electrical remodeling in rats with heart failure and preserved ejection fraction. *JCI Insight*, **2018**, 3,	9.9	12
23	Triggered activity in atrial myocytes is influenced by Na/Ca exchanger activity in genetically altered mice. *Journal of Molecular and Cellular Cardiology*, **2016**, 101, 106-115	5.8	9
22	Towards computational modeling of excitation-contraction coupling in cardiac myocytes: reconstruction of structures and proteins from confocal imaging. *Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing*, **2009**, 328-39	1.3	9

21	Putative ryanodine receptors in the sarcolemma of ventricular myocytes. *Pflugers Archiv European Journal of Physiology*, **2000**, 440, 125-31	4.6	7
20	Metabolism in Normal and Ischemic Myocardium **1997**, 325-393		7
19	Na/Ca exchange in the atrium: Role in sinoatrial node pacemaking and excitation-contraction coupling. *Cell Calcium*, **2020**, 87, 102167	4	6
18	The Effects of SEA0400 on Ca Transient Amplitude and Proarrhythmia Depend on the Na/Ca Exchanger Expression Level in Murine Models. *Frontiers in Pharmacology*, **2017**, 8, 649	5.6	6
17	Lysophosphatidylcholine and Cellular Potassium Loss in Isolated Rabbit Ventricle. *Journal of Cardiovascular Pharmacology and Therapeutics*, **1998**, 3, 37-42	2.6	6
16	A Framework for Analyzing Confocal Images of Transversal Tubules in Cardiomyocytes **2007**, 110-119		6
15	Modulation of the cardiac Na-Ca exchanger by cytoplasmic protons: Molecular mechanisms and physiological implications. *Cell Calcium*, **2020**, 87, 102140	4	6
14	Loss of intracellular and intercellular synchrony of calcium release in systolic heart failure. *Circulation: Heart Failure*, **2009**, 2, 157-9	7.6	5
13	Effects of physical exercise training in syndrome X. *Clinical Cardiology*, **1993**, 16, 65-6	3.3	5
12	Is the ryanodine receptor a target for antiarrhythmic therapy?. *Circulation Research*, **2006**, 98, 1232-3	15.7	4
11	Oxygen Free Radicals in the Pathophysiology of Myocardial Ischemia/Reperfusion **1993**, 250-266		4
10	Sub-micrometer anatomical models of the sarcolemma of cardiac myocytes based on confocal imaging. *Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing*, **2008**, 390-401	1.3	4
9	Atrial-Specific NCX KO Mice Reveal Dependence of Sinoatrial Node Pacemaker Activity on Sodium-Calcium Exchange. *Biophysical Journal*, **2012**, 102, 663a	2.9	3
8	Endothelium-dependent vasodilators do not cause propagated intercellular Ca2+ waves in vascular endothelial monolayers. *Cell Calcium*, **1996**, 19, 97-104	4	3
7	Mechanisms of Sinoatrial Node Dysfunction in Heart Failure With Preserved Ejection Fraction.. *Circulation*, **2022**, 145, 45-60	16.7	3
6	Distinct Occurrence of Proarrhythmic Afterdepolarizations in Atrial Versus Ventricular Cardiomyocytes: Implications for Translational Research on Atrial Arrhythmia. *Frontiers in Pharmacology*, **2018**, 9, 933	5.6	3
5	Myofilament Phosphorylation in Stem Cell Treated Diastolic Heart Failure. *Circulation Research*, **2021**, 129, 1125-1140	15.7	2
4	Acute Genetic Ablation of Cardiac Sodium/Calcium Exchange in Adult Mice: Implications for Cardiomyocyte Calcium Regulation, Cardioprotection, and Arrhythmia. *Journal of the American Heart Association*, **2021**, 10, e019273	6	2

3	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	6.4	1
2	The Cardiac Na -Ca Exchanger: From Structure to Function.. *Comprehensive Physiology*, **2021**, 12, 2681-2717	7.7	1
1	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	6.4	0