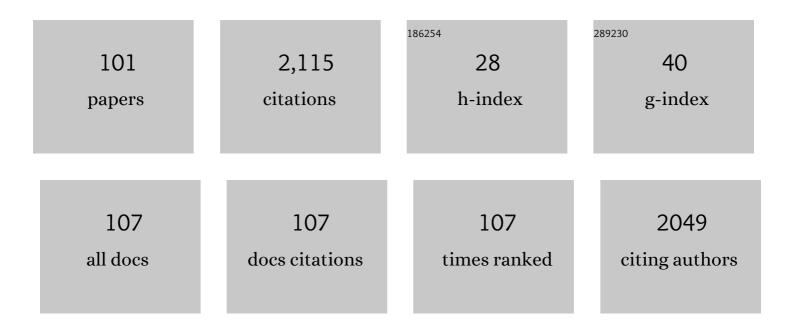
Glen F Tibbits

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3634107/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Modeling Atrial Fibrillation using Human Embryonic Stem Cell-Derived Atrial Tissue. Scientific Reports, 2017, 7, 5268.	3.3	77
2	Calcium transport and the regulation of cardiac contractility in teleosts: a comparison with higher vertebrates. Canadian Journal of Zoology, 1991, 69, 2014-2019.	1.0	73
3	Colocalization of dihydropyridine and ryanodine receptors in neonate rabbit heart using confocal microscopy. American Journal of Physiology - Heart and Circulatory Physiology, 2000, 279, H202-H209.	3.2	64
4	Store-operated Ca2+ entry modulates sarcoplasmic reticulum Ca2+ loading in neonatal rabbit cardiac ventricular myocytes. American Journal of Physiology - Cell Physiology, 2006, 290, C1572-C1582.	4.6	55
5	The Zebrafish Heart as a Model of Mammalian Cardiac Function. Reviews of Physiology, Biochemistry and Pharmacology, 2016, 171, 99-136.	1.6	55
6	Familial hypertrophic cardiomyopathy-related cardiac troponin C mutation L29Q affects Ca ²⁺ binding and myofilament contractility. Physiological Genomics, 2008, 33, 257-266.	2.3	53
7	Ca ²⁺ binding to cardiac troponin C: effects of temperature and pH on mammalian and salmonid isoforms. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2000, 279, R1707-R1715.	1.8	52
8	Functional and evolutionary relationships of troponin C. Physiological Genomics, 2007, 32, 16-27.	2.3	51
9	Realâ€ŧime monitoring of intracellular calcium dynamic mobilization of a single cardiomyocyte in a microfluidic chip pertaining to drug discovery. Electrophoresis, 2007, 28, 4723-4733.	2.4	49
10	Calcium handling in zebrafish ventricular myocytes. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 300, R56-R66.	1.8	48
11	Beating the cold: the functional evolution of troponin C in teleost fish. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2002, 132, 763-772.	1.8	46
12	Three-Dimensional Distribution of Cardiac Na+-Ca2+ Exchanger and Ryanodine Receptor during Development. Biophysical Journal, 2007, 93, 2504-2518.	0.5	46
13	Gene Structure Evolution of the Na+-Ca2+ Exchanger (NCX) Family. BMC Evolutionary Biology, 2008, 8, 127.	3.2	44
14	Na+/Ca2+exchange activity in neonatal rabbit ventricular myocytes. American Journal of Physiology - Cell Physiology, 2005, 288, C195-C203.	4.6	43
15	Optical mapping of the electrical activity of isolated adult zebrafish hearts: acute effects of temperature. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 306, R823-R836.	1.8	43
16	Ibrutinib Displays Atrial-Specific Toxicity in Human Stem Cell-Derived Cardiomyocytes. Stem Cell Reports, 2019, 12, 996-1006.	4.8	43
17	Hyperpolarizationâ€activated cyclic nucleotideâ€modulated â€~HCN' channels confer regular and faster rhythmicity to beating mouse embryonic stem cells. Journal of Physiology, 2008, 586, 701-716.	2.9	42
18	Temperature dependence of cloned mammalian and salmonid cardiac Na ⁺ /Ca ²⁺ exchanger isoforms. American Journal of Physiology - Cell Physiology, 2001, 281, C993-C1000.	4.6	40

#	Article	IF	CITATIONS
19	Excitation–Contraction Coupling in the Teleost Heart. Fish Physiology, 1992, , 267-304.	0.8	39
20	Cloning, expression, and characterization of the trout cardiac Na ⁺ /Ca ²⁺ exchanger. American Journal of Physiology - Cell Physiology, 1999, 277, C693-C700.	4.6	39
21	Effects of active oxygen generated by DTTFe2+ on cardiac Na+Ca2+ exchange and membrane permeability to Ca2+. Journal of Molecular and Cellular Cardiology, 1989, 21, 1009-1016.	1.9	38
22	Ontogeny of Ca ²⁺ -induced Ca ²⁺ release in rabbit ventricular myocytes. American Journal of Physiology - Cell Physiology, 2008, 294, C516-C525.	4.6	36
23	Aortic and Cardiac Structure and Function Using High-Resolution Echocardiography and Optical Coherence Tomography in a Mouse Model of Marfan Syndrome. PLoS ONE, 2016, 11, e0164778.	2.5	36
24	Deconvolution of confocal images of dihydropyridine and ryanodine receptors in developing cardiomyocytes. Journal of Applied Physiology, 2004, 97, 1098-1103.	2.5	34
25	Variation in RARG increases susceptibility to doxorubicin-induced cardiotoxicity in patient specific induced pluripotent stem cell-derived cardiomyocytes. Scientific Reports, 2020, 10, 10363.	3.3	34
26	Functional Assessment of Cardiac Responses of Adult Zebrafish (Danio rerio) to Acute and Chronic Temperature Change Using High-Resolution Echocardiography. PLoS ONE, 2016, 11, e0145163.	2.5	33
27	Increasing mammalian cardiomyocyte contractility with residues identified in trout troponin C. Physiological Genomics, 2005, 22, 1-7.	2.3	32
28	A KCNQ1 V205M missense mutation causes a high rate of long QT syndrome in a First Nations community of northern British Columbia: a community-based approach to understanding the impact. Genetics in Medicine, 2008, 10, 545-550.	2.4	31
29	Sequence mutations in teleost cardiac troponin C that are permissive of high Ca ²⁺ affinity of site II. American Journal of Physiology - Cell Physiology, 2003, 284, C1176-C1184.	4.6	30
30	Changes in the dynamics of the cardiac troponin C molecule explain the effects of Ca2+-sensitizing mutations. Journal of Biological Chemistry, 2017, 292, 11915-11926.	3.4	30
31	Phylogeny of Na+/Ca2+ exchanger (NCX) genes from genomic data identifies new gene duplications and a new family member in fish species. Physiological Genomics, 2005, 21, 161-173.	2.3	29
32	Ontogeny of excitation–contraction coupling in the mammalian heart. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2002, 132, 691-698.	1.8	28
33	Active oxygen in neuromuscular disorders. Molecular and Cellular Biochemistry, 1988, 84, 199-216.	3.1	27
34	Triggering of sarcoplasmic reticulum Ca2+ release and contraction by reverse mode Na+/Ca2+exchange in trout atrial myocytes. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2003, 284, R1330-R1339.	1.8	27
35	L-type Ca2+ channel function and expression in neonatal rabbit ventricular myocytes. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H2267-H2276.	3.2	27
36	Adult teleost heart expresses two distinct troponin C paralogs: cardiac TnC and a novel and teleost-specific ssTnC in a chamber- and temperature-dependent manner. Physiological Genomics, 2013, 45, 866-875.	2.3	27

#	Article	IF	CITATIONS
37	Investigating the Genetic Causes of Sudden Unexpected Death in Children Through Targeted Next-Generation Sequencing Analysis. Circulation: Cardiovascular Genetics, 2017, 10, .	5.1	27
38	Mechanistic basis for LQT1 caused by S3 mutations in the KCNQ1 subunit of <i>IKs</i> . Journal of General Physiology, 2010, 135, 433-448.	1.9	26
39	Familial Hypertrophic Cardiomyopathy Related Cardiac Troponin C L29Q Mutation Alters Length-Dependent Activation and Functional Effects of Phosphomimetic Troponin I*. PLoS ONE, 2013, 8, e79363.	2.5	26
40	Construction and use of a zebrafish heart voltage and calcium optical mapping system, with integrated electrocardiogram and programmable electrical stimulation. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 308, R755-R768.	1.8	25
41	Drug screening platform using human induced pluripotent stem cell-derived atrial cardiomyocytes and optical mapping. Stem Cells Translational Medicine, 2021, 10, 68-82.	3.3	23
42	Colocalization of voltage-gated Na+ channels with the Na+/Ca2+ exchanger in rabbit cardiomyocytes during development. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 300, H300-H311.	3.2	20
43	The mitochondrial metallochaperone SCO1 maintains CTR1 at the plasma membrane to preserve copper homeostasis in the murine heart. Human Molecular Genetics, 2017, 26, 4617-4628.	2.9	20
44	Na+-dependent alkaline earth metal uptake in cardiac sarcolemmal vesicles. Biochimica Et Biophysica Acta - Biomembranes, 1985, 817, 327-332.	2.6	19
45	Cloning and Sequencing of Complementary DNA for Fatty Acid Binding Protein from Rainbow Trout Heart. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1998, 119, 213-217.	1.6	19
46	Effect of Temperature and the F27W Mutation on the Ca2+Activated Structural Transition of Trout Cardiac Troponin Câ€. Biochemistry, 2003, 42, 6418-6426.	2.5	19
47	Zebrafish as a model of mammalian cardiac function: Optically mapping the interplay of temperature and rate on voltage and calcium dynamics. Progress in Biophysics and Molecular Biology, 2018, 138, 69-90.	2.9	18
48	The hERG channel activator, RPR260243, enhances protective <i>I</i> _{Kr} current early in the refractory period reducing arrhythmogenicity in zebrafish hearts. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 319, H251-H261.	3.2	18
49	Effect of Temperature on the Structure of Trout Troponin C. Biochemistry, 2004, 43, 4955-4963.	2.5	17
50	SR Ca2+ refilling upon depletion and SR Ca2+ uptake rates during development in rabbit ventricular myocytes. American Journal of Physiology - Cell Physiology, 2007, 293, C1906-C1915.	4.6	17
51	Characterization of Zebrafish Cardiac and Slow Skeletal Troponin C Paralogs by MD Simulation andÂITC. Biophysical Journal, 2016, 111, 38-49.	0.5	16
52	In vitro analyses of suspected arrhythmogenic thin filament variants as a cause of sudden cardiac death in infants. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6969-6974.	7.1	16
53	In vivo characterization of doxycycline-mediated protection of aortic function and structure in a mouse model of Marfan syndrome-associated aortic aneurysm. Scientific Reports, 2019, 9, 2071.	3.3	16
54	ROCK2 promotes ryanodine receptor phosphorylation and arrhythmic calcium release in diabetic cardiomyocytes. International Journal of Cardiology, 2019, 281, 90-98.	1.7	16

#	Article	IF	CITATIONS
55	Distribution patterns of the Na+–Ca2+ exchanger and caveolin-3 in developing rabbit cardiomyocytes. Cell Calcium, 2009, 45, 369-383.	2.4	15
56	Morphological phenotyping of mouse hearts using optical coherence tomography. Journal of Biomedical Optics, 2014, 19, 1.	2.6	13
57	Functional Divergence in Teleost Cardiac Troponin Paralogs Guides Variation in the Interaction of Tnl Switch Region with TnC. Genome Biology and Evolution, 2016, 8, 994-1011.	2.5	13
58	Binding of calcium and magnesium to human cardiac troponin C. Journal of Biological Chemistry, 2021, 296, 100350.	3.4	13
59	Mechanisms of Arrhythmogenicity of Hypertrophic Cardiomyopathy-Associated Troponin T (TNNT2) Variant 179N. Frontiers in Cell and Developmental Biology, 2021, 9, 787581.	3.7	13
60	Determinants of cardiac Na ⁺ /Ca ²⁺ exchanger temperature dependence: NH ₂ -terminal transmembrane segments. American Journal of Physiology - Cell Physiology, 2002, 283, C512-C520.	4.6	12
61	Effect of Î ² -adrenergic stimulation on the relationship between membrane potential, intracellular [Ca2+] and sarcoplasmic reticulum Ca2+ uptake in rainbow trout atrial myocytes. Journal of Experimental Biology, 2004, 207, 1369-1377.	1.7	11
62	cDNA Cloning and Expression of the Cardiac Na+/Ca2+ Exchanger from Mozambique Tilapia (Oreochromis mossambicus) Reveal a Teleost Membrane Transporter with Mammalian Temperature Dependence. Journal of Biological Chemistry, 2005, 280, 28903-28911.	3.4	11
63	Isolation and Characterization of Atrioventricular Nodal Cells From Neonate Rabbit Heart. Circulation: Arrhythmia and Electrophysiology, 2011, 4, 936-946.	4.8	11
64	RARG S427L attenuates the DNA repair response to doxorubicin in induced pluripotent stem cell-derived cardiomyocytes. Stem Cell Reports, 2022, 17, 756-765.	4.8	11
65	Myocardial sarcolemma isolated from skipjack tuna, <i>Katsuwonus pelamis</i> . Canadian Journal of Zoology, 1992, 70, 1240-1245.	1.0	10
66	Physiological phenotyping of the adult zebrafish heart. Marine Genomics, 2020, 49, 100701.	1.1	10
67	Characterization of zebrafish (Danio rerio) NCX4: a novel NCX with distinct electrophysiological properties. American Journal of Physiology - Cell Physiology, 2009, 296, C173-C181.	4.6	9
68	The structure of cardiac troponin C regulatory domain with bound Cd ²⁺ reveals a closed conformation and unique ion coordination. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 722-734.	2.5	9
69	Atrial-specific hiPSC-derived cardiomyocytes in drug discovery and disease modeling. Methods, 2022, 203, 364-377.	3.8	9
70	Investigating the utility of adult zebrafish ex vivo whole hearts to pharmacologically screen hERG channel activator compounds. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2019, 317, R921-R931.	1.8	8
71	Electrophysiological characterization of the hERG R56Q LQTS variant and targeted rescue by the activator RPR260243. Journal of General Physiology, 2021, 153, .	1.9	8
72	Towards a molecular explanation of the high performance of the tuna heart. Comparative Biochemistry and Physiology A, Comparative Physiology, 1996, 113, 77-82.	0.6	7

#	Article	IF	CITATIONS
73	Pediatric Catecholaminergic Polymorphic Ventricular Tachycardia: A Translational Perspective for the Clinician-Scientist. International Journal of Molecular Sciences, 2021, 22, 9293.	4.1	7
74	Investigating inherited arrhythmias using hiPSC-derived cardiomyocytes. Methods, 2022, 203, 542-557.	3.8	6
75	lschemia–reperfusion destabilizes rhythmicity in immature atrioventricular pacemakers: A predisposing factor for postoperative arrhythmias in neonate rabbits. Heart Rhythm, 2016, 13, 2348-2355.	0.7	5
76	Crystal Structure of Cardiac Troponin C Regulatory Domain in Complex with Cadmium and Deoxycholic Acid Reveals Novel Conformation. Journal of Molecular Biology, 2011, 413, 699-711.	4.2	4
77	Automatic Cycle Averaging for Denoising Approximately Periodic Spatiotemporal Signals. IEEE Transactions on Medical Imaging, 2014, 33, 1749-1759.	8.9	4
78	Utility of Zebrafish Models of Acquired and Inherited Long QT Syndrome. Frontiers in Physiology, 2020, 11, 624129.	2.8	4
79	The effect of Mg ²⁺ on Ca ²⁺ binding to cardiac troponin C in hypertrophic cardiomyopathy associated <scp><i>TNNC1</i></scp> variants. FEBS Journal, 2022, 289, 7446-7465.	4.7	4
80	Effects of diabetes and hypertension on myocardial Na+-Ca2+ exchange. Canadian Journal of Physiology and Pharmacology, 1999, 78, 12-19.	1.4	3
81	Using hiPSC Ms to Examine Mechanisms of Catecholaminergic Polymorphic Ventricular Tachycardia. Current Protocols, 2021, 1, e320.	2.9	3
82	Temperature Dependence of Cardiac Na ⁺ /Ca ²⁺ Exchanger. Annals of the New York Academy of Sciences, 2002, 976, 109-112.	3.8	2
83	On identification of sinoatrial node in zebrafish heart based on functional time series from optical mapping. , 2013, 2013, 6518-21.		2
84	Binding of calcium and magnesium to cardiac Troponin C assessed through Isothermal Titration Calorimetry (ITC). Journal of Molecular and Cellular Cardiology, 2018, 124, 86.	1.9	2
85	pH recovery from a proton load in rat cardiomyocytes: effects of chronic exercise. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 314, H285-H292.	3.2	2
86	Functional characterization of a novel hERG variant in a family with recurrent sudden infant death syndrome: Retracting a genetic diagnosis. Forensic Science International, 2018, 284, 39-45.	2.2	1
87	Phenotype-dependent role of the L-type calcium current in embryonic stem cell derived cardiomyocytes. American Journal of Stem Cells, 2014, 3, 37-45.	0.4	1
88	Familial Hypertrophic Cardiomyopathy (FHC)-Related Cardiac Troponin C (cTnC) L29Q Mutation Alters the Contractility and the Functional Effects of the Phosphomimetric cTnI. Biophysical Journal, 2012, 102, 358a.	0.5	0
89	Molecular Dynamics-Based Predictions of the Structural and Functional Effects of Disease-Causing Cardiac Troponin Mutations. Biophysical Journal, 2014, 106, 678a.	0.5	0
90	Molecular Dynamics-Based Predictions of the Structural and Functional Differences Between the Cardiac and Novel Slow-Skeletal Isoforms of Zebrafish Troponin C. Biophysical Journal, 2014, 106, 611a.	0.5	0

#	Article	IF	CITATIONS
91	A Novel Tryptophan Analog Designed for Studying Calcium Induced Conformational Change of Troponin C. Biophysical Journal, 2016, 110, 124a.	0.5	0
92	Thermodynamics of Calcium Binding to Zebrafish Troponin C (TnC)ÂVisualized through Isothermal Titration Calorimetry (ITC) and Molecular Dynamics (MD). Biophysical Journal, 2016, 110, 124a.	0.5	0
93	Potential of Mean Force Calculations and Isothermal Titration Calorimetry Measurements of the Human Cardiac Troponin C / Calcium Interaction Reveal Affinity Changes as a Function of Familial Hypertrophic Cardiomyopathy Associated Mutations. Biophysical Journal, 2016, 110, 325a.	0.5	0
94	Comparison of hERG and zERG Potassium Channel Function and Pharmacology. Biophysical Journal, 2018, 114, 294a.	0.5	0
95	The Arrhythmogenic Impact of the Familial Hypertrophic Cardiomyopathy-related Cardiac Troponin T mutation 179N. Journal of Molecular and Cellular Cardiology, 2018, 124, 86.	1.9	0
96	Investigating Cardiac Subtype-Specific Pharmacology Using Atrial-like Cardiomyocytes Derived from Human Induced Pluripotent Stem Cells (hiPSCs) and Optical Mapping. Journal of Molecular and Cellular Cardiology, 2018, 124, 110-111.	1.9	0
97	Selective inhibition and activation of retinoid pathways to create chamber spefic cardiac subtypes from human induced pluripotent stem cells (hiPSCs). Journal of Molecular and Cellular Cardiology, 2018, 124, 111.	1.9	0
98	Acidosis Prolongs APD in Optically Mapped Adult Zebrafish Whole Hearts as a Result of hERG Channel Block. Biophysical Journal, 2018, 114, 490a.	0.5	0
99	Molecular mechanisms regulating cardiac contractility: subfunctionalization of fishâ€specific paralogs of troponin C in Danio rerio. FASEB Journal, 2012, 26, 886.5.	0.5	0
100	Temperature regulation of fishâ€specific paralogs of cardiac TnC. FASEB Journal, 2013, 27, 714.11.	0.5	0
101	Abstract 14680: Evaluation of the Protective Effects of Long-term Doxycycline Treatment on Progression of Marfan-associated Aortic Aneurysm by High-resolution Ultrasound Imaging. Circulation, 2015, 132, .	1.6	0