Jonathan M Cordeiro

List of Publications by Year
in descending order

43 papers	3,398 citations	279798 23 h-index	289244 40 g-index
43 all docs	43 docs citations	43 times ranked	2941 citing authors

#	Article	IF	Citations
1	Loss-of-Function Mutations in the Cardiac Calcium Channel Underlie a New Clinical Entity Characterized by ST-Segment Elevation, Short QT Intervals, and Sudden Cardiac Death. Circulation, 2007, 115, 442-449.	1.6	864
2	Sudden Death Associated With Short-QT Syndrome Linked to Mutations in HERG. Circulation, 2004, 109, 30-35.	1.6	804
3	A Mutation in the Î²3 Subunit of the Cardiac Sodium Channel Associated With Brugada ECG Phenotype. Circulation: Cardiovascular Genetics, 2009, 2, 270-278.	5.1	232
4	Transmural heterogeneity of calcium activity and mechanical function in the canine left ventricle. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 286, H1471-H1479.	3.2	173
5	Maximum Diastolic Potential of Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes Depends Critically on IKr. PLoS ONE, 2012, 7, e40288.	2.5	144
6	Accelerated inactivation of the L-type calcium current due to a mutation in CACNB2b underlies Brugada syndrome. Journal of Molecular and Cellular Cardiology, 2009, 46, 695-703.	1.9	104
7	Compound Heterozygous Mutations P336L and I1660V in the Human Cardiac Sodium Channel Associated With the Brugada Syndrome. Circulation, 2006, 114, 2026-2033.	1.6	102
8	A transient outward potassium current activator recapitulates the electrocardiographic manifestations of Brugada syndrome. Cardiovascular Research, 2008, 81, 686-694.	3.8	99
9	Short QT syndrome. Cmaj, 2005, 173, 1349-1354.	2.0	64
10	Identification and characterization of a transient outward K+ current in human induced pluripotent stem cell-derived cardiomyocytes. Journal of Molecular and Cellular Cardiology, 2013, 60, 36-46.	1.9	62
11	Comparison of K+ currents in cardiac Purkinje cells isolated from rabbit and dog. Journal of Molecular and Cellular Cardiology, 2007, 42, 378-389.	1.9	60
12	Novel mutation in the SCN5A gene associated with arrhythmic storm development during acute myocardial infarction. Heart Rhythm, 2007, 4, 1072-1080.	0.7	58
13	Comprehensive Uncertainty Quantification and Sensitivity Analysis for Cardiac Action Potential Models. Frontiers in Physiology, 2019, 10, 721.	2.8	57
14	Uncertainty quantification of fast sodium current steady-state inactivation for multi-scale models of cardiac electrophysiology. Progress in Biophysics and Molecular Biology, 2015, 117, 4-18.	2.9	55
15	Differential effects of the transient outward K+ current activator NS5806 in the canine left ventricle. Journal of Molecular and Cellular Cardiology, 2010, 48, 191-200.	1.9	46
16	Lidocaine-Induced Brugada Syndrome Phenotype Linked to a Novel Double Mutation in the Cardiac Sodium Channel. Circulation Research, 2008, 103, 396-404.	4.5	45
17	Extracellular proton depression of peak and late Na⁺ current in the canine left ventricle. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 301, H936-H944.	3.2	45
18	Cellular and subcellular alternans in the canine left ventricle. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H3506-H3516.	3.2	44

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19	Physiological consequences of transient outward K+ current activation during heart failure in the canine left ventricle. Journal of Molecular and Cellular Cardiology, 2012, 52, 1291-1298.	1.9	34
20	Comparison of the Effects of a Transient Outward Potassium Channel Activator on Currents Recorded from Atrial and Ventricular Cardiomyocytes. Journal of Cardiovascular Electrophysiology, 2011, 22, 1057-1066.	1.7	30
21	Physiological roles of the transient outward current i I i sub to sub in normal and diseased hearts. Frontiers in Bioscience - Scholar, 2016, 8, 143-159.	2.1	28
22	Regional variation of the inwardly rectifying potassium current in the canine heart and the contributions to differences in action potential repolarization. Journal of Molecular and Cellular Cardiology, 2015, 84, 52-60.	1.9	26
23	Tissue-specific effects of acetylcholine in the canine heart. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 305, H66-H75.	3.2	24
24	Mechanisms underlying atrial-selective block of sodium channels by Wenxin Keli: Experimental and theoretical analysis. International Journal of Cardiology, 2016, 207, 326-334.	1.7	23
25	Biophysical comparison of sodium currents in native cardiac myocytes and human induced pluripotent stem cell-derived cardiomyocytes. Journal of Pharmacological and Toxicological Methods, 2018, 90, 19-30.	0.7	20
26	Triggered intracellular calcium waves in dog and human left atrial myocytes from normal and failing hearts. Cardiovascular Research, 2017, 113, 1688-1699.	3.8	17
27	SCN5A Mutation associated with acute myocardial infarction. Legal Medicine, 2009, 11, S206-S209.	1.3	15
28	Data-Driven Uncertainty Quantification for Cardiac Electrophysiological Models: Impact of Physiological Variability on Action Potential and Spiral Wave Dynamics. Frontiers in Physiology, 2020, 11, 585400.	2.8	15
29	Developmental changes in expression and biophysics of ion channels in the canine ventricle. Journal of Molecular and Cellular Cardiology, 2013, 64, 79-89.	1.9	14
30	Overlapping LQT1 and LQT2 phenotype in a patient with long QT syndrome associated with loss-of-function variations in KCNQ1 and KCNH2. Canadian Journal of Physiology and Pharmacology, 2010, 88, 1181-1190.	1.4	12
31	A dual potassium channel activator improves repolarization reserve and normalizes ventricular action potentials. Biochemical Pharmacology, 2016, 108, 36-46.	4.4	11
32	Pharmacological enhancement of repolarization reserve in human induced pluripotent stem cells derived cardiomyocytes. Biochemical Pharmacology, 2019, 169, 113608.	4.4	11
33	Susceptibility to Ventricular Arrhythmias Resulting from Mutations in FKBP1B, PXDNL, and SCN9A Evaluated in hiPSC Cardiomyocytes. Stem Cells International, 2020, 2020, 1-16.	2.5	11
34	Interventricular differences in sodium current and its potential role in Brugada syndrome. Physiological Reports, 2018, 6, e13787.	1.7	10
35	The G213D variant in Nav1.5 alters sodium current and causes an arrhythmogenic phenotype resulting in a multifocal ectopic Purkinje-related premature contraction phenotype in human-induced pluripotent stem cell-derived cardiomyocytes. Europace, 2022, 24, 2015-2027.	1.7	9
36	Biophysical and molecular comparison of sodium current in cells isolated from canine atria and pulmonary vein. Pflugers Archiv European Journal of Physiology, 2017, 469, 703-712.	2.8	8

#	Article	IF	Citations
37	An in silico hiPSC-Derived Cardiomyocyte Model Built With Genetic Algorithm. Frontiers in Physiology, 2021, 12, 675867.	2.8	8
38	NS5806 partially restores action potential duration but fails to ameliorate calcium transient dysfunction in a computational model of canine heart failure. Europace, 2014, 16, iv46-iv55.	1.7	5
39	Overlap Arrhythmia Syndromes Resulting from Multiple Genetic Variations Studied in Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes. International Journal of Molecular Sciences, 2021, 22, 7108.	4.1	4
40	Comparison of the Effects of the Transient Outward Potassium Channel Activator NS5806 on Canine Atrial and Ventricular Cardiomyocytes. Biophysical Journal, 2010, 98, 334a.	0.5	2
41	Genetic Algorithm For Fitting Cardiac Cell Biophysical Model Formulations. , 2020, 2020, 2463-2466.		2
42	Role of the rapid delayed rectifier K current in human induced pluripotent stem cells derived cardiomyocytes. , 2020, 1, 14-18.		1
43	Role of ion channels in human induced pluripotent stem cellsâ€“derived cardiomyocytes. , 2022, , 219-248.		0