

# Jonathan M Cordeiro

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

3,398  
citations

279487

23  
h-index

288905

40  
g-index

43  
all docs

43  
docs citations

43  
times ranked

2941  
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of ion channels in human induced pluripotent stem cellsâ€‘derived cardiomyocytes. , 2022, , 219-248.		0
2	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. <i>Europace</i> , 2022, 24, 2015-2027.	0.7	9
3	An in silico hiPSC-Derived Cardiomyocyte Model Built With Genetic Algorithm. <i>Frontiers in Physiology</i> , 2021, 12, 675867.	1.3	8
4	Overlap Arrhythmia Syndromes Resulting from Multiple Genetic Variations Studied in Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7108.	1.8	4
5	Data-Driven Uncertainty Quantification for Cardiac Electrophysiological Models: Impact of Physiological Variability on Action Potential and Spiral Wave Dynamics. <i>Frontiers in Physiology</i> , 2020, 11, 585400.	1.3	15
6	Genetic Algorithm For Fitting Cardiac Cell Biophysical Model Formulations. , 2020, 2020, 2463-2466.		2
7	Susceptibility to Ventricular Arrhythmias Resulting from Mutations in <i>FKBP1B</i> , <i>PXDNL</i> , and <i>SCN9A</i> Evaluated in hiPSC Cardiomyocytes. <i>Stem Cells International</i> , 2020, 2020, 1-16.	1.2	11
8	Role of the rapid delayed rectifier K current in human induced pluripotent stem cells derived cardiomyocytes. , 2020, 1, 14-18.		1
9	Comprehensive Uncertainty Quantification and Sensitivity Analysis for Cardiac Action Potential Models. <i>Frontiers in Physiology</i> , 2019, 10, 721.	1.3	57
10	Pharmacological enhancement of repolarization reserve in human induced pluripotent stem cells derived cardiomyocytes. <i>Biochemical Pharmacology</i> , 2019, 169, 113608.	2.0	11
11	Biophysical comparison of sodium currents in native cardiac myocytes and human induced pluripotent stem cell-derived cardiomyocytes. <i>Journal of Pharmacological and Toxicological Methods</i> , 2018, 90, 19-30.	0.3	20
12	Interventricular differences in sodium current and its potential role in Brugada syndrome. <i>Physiological Reports</i> , 2018, 6, e13787.	0.7	10
13	Biophysical and molecular comparison of sodium current in cells isolated from canine atria and pulmonary vein. <i>Pflugers Archiv European Journal of Physiology</i> , 2017, 469, 703-712.	1.3	8
14	Triggered intracellular calcium waves in dog and human left atrial myocytes from normal and failing hearts. <i>Cardiovascular Research</i> , 2017, 113, 1688-1699.	1.8	17
15	Physiological roles of the transient outward current $I_{to}$ in normal and diseased hearts. <i>Frontiers in Bioscience - Scholar</i> , 2016, 8, 143-159.	0.8	28
16	A dual potassium channel activator improves repolarization reserve and normalizes ventricular action potentials. <i>Biochemical Pharmacology</i> , 2016, 108, 36-46.	2.0	11
17	Mechanisms underlying atrial-selective block of sodium channels by Wenxin Keli: Experimental and theoretical analysis. <i>International Journal of Cardiology</i> , 2016, 207, 326-334.	0.8	23
18	Uncertainty quantification of fast sodium current steady-state inactivation for multi-scale models of cardiac electrophysiology. <i>Progress in Biophysics and Molecular Biology</i> , 2015, 117, 4-18.	1.4	55

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19	Regional variation of the inwardly rectifying potassium current in the canine heart and the contributions to differences in action potential repolarization. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 84, 52-60.	0.9	26
20	NS5806 partially restores action potential duration but fails to ameliorate calcium transient dysfunction in a computational model of canine heart failure. <i>Europace</i> , 2014, 16, iv46-iv55.	0.7	5
21	Developmental changes in expression and biophysics of ion channels in the canine ventricle. <i>Journal of Molecular and Cellular Cardiology</i> , 2013, 64, 79-89.	0.9	14
22	Identification and characterization of a transient outward K <sup>+</sup> current in human induced pluripotent stem cell-derived cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2013, 60, 36-46.	0.9	62
23	Tissue-specific effects of acetylcholine in the canine heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 305, H66-H75.	1.5	24
24	Physiological consequences of transient outward K <sup>+</sup> current activation during heart failure in the canine left ventricle. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 52, 1291-1298.	0.9	34
25	Maximum Diastolic Potential of Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes Depends Critically on IKr. <i>PLoS ONE</i> , 2012, 7, e40288.	1.1	144
26	Comparison of the Effects of a Transient Outward Potassium Channel Activator on Currents Recorded from Atrial and Ventricular Cardiomyocytes. <i>Journal of Cardiovascular Electrophysiology</i> , 2011, 22, 1057-1066.	0.8	30
27	Extracellular proton depression of peak and late Na <sup>+</sup> current in the canine left ventricle. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 301, H936-H944.	1.5	45
28	Comparison of the Effects of the Transient Outward Potassium Channel Activator NS5806 on Canine Atrial and Ventricular Cardiomyocytes. <i>Biophysical Journal</i> , 2010, 98, 334a.	0.2	2
29	Differential effects of the transient outward K <sup>+</sup> current activator NS5806 in the canine left ventricle. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 48, 191-200.	0.9	46
30	Overlapping LQT1 and LQT2 phenotype in a patient with long QT syndrome associated with loss-of-function variations in KCNQ1 and KCNH2. <i>Canadian Journal of Physiology and Pharmacology</i> , 2010, 88, 1181-1190.	0.7	12
31	A Mutation in the Î²3 Subunit of the Cardiac Sodium Channel Associated With Brugada ECG Phenotype. <i>Circulation: Cardiovascular Genetics</i> , 2009, 2, 270-278.	5.1	232
32	SCN5A Mutation associated with acute myocardial infarction. <i>Legal Medicine</i> , 2009, 11, S206-S209.	0.6	15
33	Accelerated inactivation of the L-type calcium current due to a mutation in CACNB2b underlies Brugada syndrome. <i>Journal of Molecular and Cellular Cardiology</i> , 2009, 46, 695-703.	0.9	104
34	Lidocaine-Induced Brugada Syndrome Phenotype Linked to a Novel Double Mutation in the Cardiac Sodium Channel. <i>Circulation Research</i> , 2008, 103, 396-404.	2.0	45
35	A transient outward potassium current activator recapitulates the electrocardiographic manifestations of Brugada syndrome. <i>Cardiovascular Research</i> , 2008, 81, 686-694.	1.8	99
36	Cellular and subcellular alternans in the canine left ventricle. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H3506-H3516.	1.5	44

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37	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. <i>Circulation</i> , 2007, 115, 442-449.	1.6	864
38	Comparison of K <sup>+</sup> currents in cardiac Purkinje cells isolated from rabbit and dog. <i>Journal of Molecular and Cellular Cardiology</i> , 2007, 42, 378-389.	0.9	60
39	Novel mutation in the SCN5A gene associated with arrhythmic storm development during acute myocardial infarction. <i>Heart Rhythm</i> , 2007, 4, 1072-1080.	0.3	58
40	Compound Heterozygous Mutations P336L and I1660V in the Human Cardiac Sodium Channel Associated With the Brugada Syndrome. <i>Circulation</i> , 2006, 114, 2026-2033.	1.6	102
41	Short QT syndrome. <i>Cmaj</i> , 2005, 173, 1349-1354.	0.9	64
42	Transmural heterogeneity of calcium activity and mechanical function in the canine left ventricle. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 286, H1471-H1479.	1.5	173
43	Sudden Death Associated With Short-QT Syndrome Linked to Mutations in HERG. <i>Circulation</i> , 2004, 109, 30-35.	1.6	804