

Teun P De Boer

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,352
citations

361413

20
h-index

395702

33
g-index

50
all docs

50
docs citations

50
times ranked

1892
citing authors

#	ARTICLE	IF	CITATIONS
1	Is zebrafish heart regeneration "complete"? Lineage-restricted cardiomyocytes proliferate to pre-injury numbers but some fail to differentiate in fibrotic hearts. <i>Developmental Biology</i> , 2021, 471, 106-118.	2.0	11
2	The zebrafish <i>grime</i> mutant uncovers an evolutionarily conserved role for <i>Tmem161b</i> in the control of cardiac rhythm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	12
3	Istaroxime treatment ameliorates calcium dysregulation in a zebrafish model of phospholamban R14del cardiomyopathy. <i>Nature Communications</i> , 2021, 12, 7151.	12.8	18
4	Automated Dynamic Clamp for Simulation of I_{K1} in Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes in Real Time Using Patchliner Dynamite ⁸ . <i>Current Protocols in Pharmacology</i> , 2020, 88, e70.	4.0	17
5	Accounting for variability in ion current recordings using a mathematical model of artefacts in voltage-clamp experiments. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190348.	3.4	38
6	A nonlinear and time-dependent leak current in the presence of calcium fluoride patch-clamp seal enhancer. <i>Wellcome Open Research</i> , 2020, 5, 152.	1.8	6
7	Required G_1 to Suppress Automaticity of iPSC-CMs Depends Strongly on I_1 Model Structure. <i>Biophysical Journal</i> , 2019, 117, 2303-2315.	0.5	16
8	Genetic variation in <i>GNB5</i> causes bradycardia by increasing IK_{ACh} augmenting cholinergic response. <i>DMM Disease Models and Mechanisms</i> , 2019, 12, .	2.4	19
9	The influence of hERG1a and hERG1b isoforms on drug safety screening in iPSC-CMs. <i>Progress in Biophysics and Molecular Biology</i> , 2019, 149, 86-98.	2.9	8
10	Flotillins in the intercalated disc are potential modulators of cardiac excitability. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 126, 86-95.	1.9	3
11	Sinusoidal voltage protocols for rapid characterisation of ion channel kinetics. <i>Journal of Physiology</i> , 2018, 596, 1813-1828.	2.9	54
12	Action potential contour and inter-species differences. <i>Europace</i> , 2018, 20, 1395-1396.	1.7	1
13	The immature electrophysiological phenotype of iPSC-CMs still hampers in vitro drug screening: Special focus on I_{K1} . , 2018, 183, 127-136.		130
14	P803Temporal increased arrhythmogenicity due to dynamic mechano-electrical remodeling following dyssynchronous ventricular activation in a canine model. <i>Europace</i> , 2018, 20, i144-i144.	1.7	0
15	Using Light to Endow Stem-Cell-Derived Cardiomyocytes With Virtual I_1 Conductances. <i>Biophysical Journal</i> , 2018, 115, 2079-2080.	0.5	0
16	Optogenetic sensors in the zebrafish heart: a novel in vivo electrophysiological tool to study cardiac arrhythmogenesis. <i>Theranostics</i> , 2018, 8, 4750-4764.	10.0	38
17	P316Optogenetic sensors in zebrafish hearts as novel in vivo electrophysiological readout tools to study cardiac arrhythmogenesis. <i>Cardiovascular Research</i> , 2018, 114, S81-S81.	3.8	0
18	Cardiac Ca^{2+} signalling in zebrafish: Translation of findings to man. <i>Progress in Biophysics and Molecular Biology</i> , 2018, 138, 45-58.	2.9	25

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19	Cardiac optogenetics: using light to monitor cardiac physiology. <i>Basic Research in Cardiology</i> , 2017, 112, 56.	5.9	33
20	The concept of triple wavefront fusion during biventricular pacing: Using the EGM to produce the best acute hemodynamic improvement in CRT. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2017, 40, 873-882.	1.2	22
21	eSolv, a CellML-based simulation front-end for online teaching. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2017, 41, 425-427.	1.6	4
22	A Hybrid Model for Safety Pharmacology on an Automated Patch Clamp Platform: Using Dynamic Clamp to Join iPSC-Derived Cardiomyocytes and Simulations of I _{K1} Ion Channels in Real-Time. <i>Frontiers in Physiology</i> , 2017, 8, 1094.	2.8	48
23	Perpetuation of torsade de pointes in heterogeneous hearts: competing foci or re-entry?. <i>Journal of Physiology</i> , 2016, 594, 6865-6878.	2.9	50
24	GNB5 Mutations Cause an Autosomal-Recessive Multisystem Syndrome with Sinus Bradycardia and Cognitive Disability. <i>American Journal of Human Genetics</i> , 2016, 99, 704-710.	6.2	58
25	Uncertainty and variability in models of the cardiac action potential: Can we build trustworthy models?. <i>Journal of Molecular and Cellular Cardiology</i> , 2016, 96, 49-62.	1.9	113
26	A 2015 focus on preventing drug-induced arrhythmias. <i>Expert Review of Cardiovascular Therapy</i> , 2016, 14, 245-253.	1.5	9
27	Sensing Cardiac Electrical Activity With a Cardiac Myocyte-Targeted Optogenetic Voltage Indicator. <i>Circulation Research</i> , 2015, 117, 401-412.	4.5	57
28	Arrhythmogenic Remodeling in Murine Models of Deoxycorticosterone Acetate-Salt-Induced and 5/6-Subtotal Nephrectomy-Salt-Induced Cardiorenal Disease. <i>CardioRenal Medicine</i> , 2015, 5, 208-218.	1.9	10
29	Abstract 13976: Optogenetic Monitoring of Endocardial Calcium Transients in vivo Using a Minimally Invasive Fiber Optic Approach. <i>Circulation</i> , 2015, 132, .	1.6	1
30	Changes in Cx43 and NaV1.5 Expression Precede the Occurrence of Substantial Fibrosis in Calcineurin-Induced Murine Cardiac Hypertrophy. <i>PLoS ONE</i> , 2014, 9, e87226.	2.5	28
31	Application of human stem cell-derived cardiomyocytes in safety pharmacology requires caution beyond hERG. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 52, 998-1008.	1.9	136
32	Comparison of the I _{Kr} blockers moxifloxacin, dofetilide and E-4031 in five screening models of pro-arrhythmia reveals lack of specificity of isolated cardiomyocytes. <i>British Journal of Pharmacology</i> , 2012, 165, 467-478.	5.4	58
33	Inhibition of lysosomal degradation rescues pentamidine-mediated decreases of K _{IR2.1} ion channel expression but not that of Kv11.1. <i>European Journal of Pharmacology</i> , 2011, 652, 96-103.	3.5	20
34	Drug-Induced Torsade de Pointes Arrhythmias in the Chronic AV Block Dog Are Perpetuated by Focal Activity. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2011, 4, 566-576.	4.8	41
35	The anti-protozoal drug pentamidine blocks K _{IR2.1} -mediated inward rectifier current by entering the cytoplasmic pore region of the channel. <i>British Journal of Pharmacology</i> , 2010, 159, 1532-1541.	5.4	42
36	The mammalian K _{IR2.1} inward rectifier ion channel family: expression pattern and pathophysiology. <i>Acta Physiologica</i> , 2010, 199, 243-256.	3.8	53

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37	Human cardiomyocyte progenitor cell-derived cardiomyocytes display a matured electrical phenotype. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 48, 254-260.	1.9	21
38	Adrenergic regulation of conduction velocity in cultures of immature cardiomyocytes. <i>Netherlands Heart Journal</i> , 2008, 16, 106-109.	0.8	7
39	Lysosome mediated Kir2.1 breakdown directly influences inward rectifier current density. <i>Biochemical and Biophysical Research Communications</i> , 2008, 367, 687-692.	2.1	40
40	Connexin43 repression following epithelium-to-mesenchyme transition in embryonal carcinoma cells requires Snail1 transcription factor. <i>Differentiation</i> , 2007, 75, 208-218.	1.9	30
41	Cloning, embryonic expression, and functional characterization of two novel connexins from <i>Xenopus laevis</i> . <i>Biochemical and Biophysical Research Communications</i> , 2006, 349, 855-862.	2.1	6
42	Inhibition of cardiomyocyte automaticity by electrotonic application of inward rectifier current from Kir2.1 expressing cells. <i>Medical and Biological Engineering and Computing</i> , 2006, 44, 537-542.	2.8	34
43	<i>Xenopus</i> connexins: how frogs bridge the gap. <i>Differentiation</i> , 2005, 73, 330-340.	1.9	18
44	Cloning and functional characterization of a novel connexin expressed in somites of <i>Xenopus laevis</i> . <i>Developmental Dynamics</i> , 2005, 233, 864-871.	1.8	6
45	Development, Implementation and Testing of a Multicellular Dynamic Action Potential Clamp Simulator for Drug Cardiac Safety Assessment. , 0, , .		0
46	Mutiscale Computational Analysis of the Effect on Heart Rate of a HCN4 Gene Double Mutation: from the Single Channel to the Clinical Phenotype. , 0, , .		0
47	Assessment of the Effects of Online Linear Leak Current Compensation at Different Pacing Frequencies in a Dynamic Action Potential Clamp System. , 0, , .		1
48	A nonlinear and time-dependent leak current in the presence of calcium fluoride patch-clamp seal enhancer. <i>Wellcome Open Research</i> , 0, 5, 152.	1.8	6