

# 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	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
2	The immature electrophysiological phenotype of iPSC-CMs still hampers in vitro drug screening: Special focus on IK1. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 183, 127-136.		130
3	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
4	Comparison of the IKr blockers moxifloxacin, dofetilide and E4031 in five screening models of proarrhythmia reveals lack of specificity of isolated cardiomyocytes. <i>British Journal of Pharmacology</i> , 2012, 165, 467-478.	5.4	58
5	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
6	Sensing Cardiac Electrical Activity With a Cardiac Myocyte-Targeted Optogenetic Voltage Indicator. <i>Circulation Research</i> , 2015, 117, 401-412.	4.5	57
7	Sinusoidal voltage protocols for rapid characterisation of ion channel kinetics. <i>Journal of Physiology</i> , 2018, 596, 1813-1828.	2.9	54
8	The mammalian KIR2.x inward rectifier ion channel family: expression pattern and pathophysiology. <i>Acta Physiologica</i> , 2010, 199, 243-256.	3.8	53
9	Perpetuation of torsade de pointes in heterogeneous hearts: competing foci or reentry?. <i>Journal of Physiology</i> , 2016, 594, 6865-6878.	2.9	50
10	A Hybrid Model for Safety Pharmacology on an Automated Patch Clamp Platform: Using Dynamic Clamp to Join iPSC-Derived Cardiomyocytes and Simulations of IK1 Ion Channels in Real-Time. <i>Frontiers in Physiology</i> , 2017, 8, 1094.	2.8	48
11	The anti-protozoal drug pentamidine blocks KIR2.x-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
12	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
13	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
14	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
15	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
16	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
17	Cardiac optogenetics: using light to monitor cardiac physiology. <i>Basic Research in Cardiology</i> , 2017, 112, 56.	5.9	33
18	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

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19	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
20	Cardiac Ca <sup>2+</sup> signalling in zebrafish: Translation of findings to man. <i>Progress in Biophysics and Molecular Biology</i> , 2018, 138, 45-58.	2.9	25
21	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
22	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
23	Inhibition of lysosomal degradation rescues pentamidine-mediated decreases of KIR2.1 ion channel expression but not that of Kv11.1. <i>European Journal of Pharmacology</i> , 2011, 652, 96-103.	3.5	20
24	Genetic variation in <i>GNB5</i> causes bradycardia by increasing IK <sub>ACh</sub> augmenting cholinergic response. <i>DMM Disease Models and Mechanisms</i> , 2019, 12, .	2.4	19
25	Xenopus connexins: how frogs bridge the gap. <i>Differentiation</i> , 2005, 73, 330-340.	1.9	18
26	Istaroxime treatment ameliorates calcium dysregulation in a zebrafish model of phospholamban R14del cardiomyopathy. <i>Nature Communications</i> , 2021, 12, 7151.	12.8	18
27	Automated Dynamic Clamp for Simulation of I <sub>K1</sub> in Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes in Real Time Using Patchliner Dynamite <sup>8</sup> . <i>Current Protocols in Pharmacology</i> , 2020, 88, e70.	4.0	17
28	Required G1 to Suppress Automaticity of iPSC-CMs Depends Strongly on I1 Model Structure. <i>Biophysical Journal</i> , 2019, 117, 2303-2315.	0.5	16
29	The zebrafish <i>grime</i> mutant uncovers an evolutionarily conserved role for Tmem161b 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
30	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
31	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
32	A 2015 focus on preventing drug-induced arrhythmias. <i>Expert Review of Cardiovascular Therapy</i> , 2016, 14, 245-253.	1.5	9
33	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
34	Adrenergic regulation of conduction velocity in cultures of immature cardiomyocytes. <i>Netherlands Heart Journal</i> , 2008, 16, 106-109.	0.8	7
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	A nonlinear and time-dependent leak current in the presence of calcium fluoride patch-clamp seal enhancer. Wellcome Open Research, 2020, 5, 152.	1.8	6
38	A nonlinear and time-dependent leak current in the presence of calcium fluoride patch-clamp seal enhancer. Wellcome Open Research, 0, 5, 152.	1.8	6
39	eSolv, a CellML-based simulation front-end for online teaching. American Journal of Physiology - Advances in Physiology Education, 2017, 41, 425-427.	1.6	4
40	Flotillins in the intercalated disc are potential modulators of cardiac excitability. Journal of Molecular and Cellular Cardiology, 2019, 126, 86-95.	1.9	3
41	Action potential contour and inter-species differences. Europace, 2018, 20, 1395-1396.	1.7	1
42	Abstract 13976: Optogenetic Monitoring of Endocardial Calcium Transients in vivo Using a Minimally Invasive Fiber Optic Approach. Circulation, 2015, 132, .	1.6	1
43	Assessment of the Effects of Online Linear Leak Current Compensation at Different Pacing Frequencies in a Dynamic Action Potential Clamp System. , 0, , .		1
44	P803Temporal increased arrhythmogenicity due to dynamic mechano-electrical remodeling following dyssynchronous ventricular activation in a canine model. Europace, 2018, 20, i144-i144.	1.7	0
45	Using Light to Endow Stem-Cell-Derived Cardiomyocytes With Virtual I1 Conductances. Biophysical Journal, 2018, 115, 2079-2080.	0.5	0
46	P316Optogenetic sensors in zebrafish hearts as novel in vivo electrophysiological readout tools to study cardiac arrhythmogenesis. Cardiovascular Research, 2018, 114, S81-S81.	3.8	0
47	Development, Implementation and Testing of a Multicellular Dynamic Action Potential Clamp Simulator for Drug Cardiac Safety Assessment. , 0, , .		0
48	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