

Arie O Verkerk

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164
papers

6,811
citations

46
h-index

78
g-index

192
ext. papers

8,108
ext. citations

8
avg, IF

5.51
L-index

#	Paper	IF	Citations
164	Common variants at SCN5A-SCN10A and HEY2 are associated with Brugada syndrome, a rare disease with high risk of sudden cardiac death. <i>Nature Genetics</i> , 2013 , 45, 1044-9	36.3	345
163	Right ventricular fibrosis and conduction delay in a patient with clinical signs of Brugada syndrome: a combined electrophysiological, genetic, histopathologic, and computational study. <i>Circulation</i> , 2005 , 112, 2769-77	16.7	338
162	Tbx3 controls the sinoatrial node gene program and imposes pacemaker function on the atria. <i>Genes and Development</i> , 2007 , 21, 1098-112	12.6	290
161	Atrial-like cardiomyocytes from human pluripotent stem cells are a robust preclinical model for assessing atrial-selective pharmacology. <i>EMBO Molecular Medicine</i> , 2015 , 7, 394-410	12	212
160	Cardiomyocytes derived from pluripotent stem cells recapitulate electrophysiological characteristics of an overlap syndrome of cardiac sodium channel disease. <i>Circulation</i> , 2012 , 125, 3079-91	16.7	200
159	Immaturity of human stem-cell-derived cardiomyocytes in culture: fatal flaw or soluble problem?. <i>Stem Cells and Development</i> , 2015 , 24, 1035-52	4.4	182
158	Overlap syndrome of cardiac sodium channel disease in mice carrying the equivalent mutation of human SCN5A-1795insD. <i>Circulation</i> , 2006 , 114, 2584-94	16.7	153
157	Intercalated disc abnormalities, reduced Na(+) current density, and conduction slowing in desmoglein-2 mutant mice prior to cardiomyopathic changes. <i>Cardiovascular Research</i> , 2012 , 95, 409-18	9.9	145
156	Expansion and patterning of cardiovascular progenitors derived from human pluripotent stem cells. <i>Nature Biotechnology</i> , 2015 , 33, 970-9	44.5	137
155	Induced pluripotent stem cell derived cardiomyocytes as models for cardiac arrhythmias. <i>Frontiers in Physiology</i> , 2012 , 3, 346	4.6	134
154	HCN4 mutations in multiple families with bradycardia and left ventricular noncompaction cardiomyopathy. <i>Journal of the American College of Cardiology</i> , 2014 , 64, 745-56	15.1	133
153	A common polymorphism in KCNH2 (HERG) hastens cardiac repolarization. <i>Cardiovascular Research</i> , 2003 , 59, 27-36	9.9	133
152	Identification and functional characterization of cardiac pacemaker cells in zebrafish. <i>PLoS ONE</i> , 2012 , 7, e47644	3.7	126
151	Genetic control of sodium channel function. <i>Cardiovascular Research</i> , 2003 , 57, 961-73	9.9	125
150	Recessive cardiac phenotypes in induced pluripotent stem cell models of Jervell and Lange-Nielsen syndrome: disease mechanisms and pharmacological rescue. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E5383-92	11.5	119
149	Pacemaker current (I _f) in the human sinoatrial node. <i>European Heart Journal</i> , 2007 , 28, 2472-8	9.5	113
148	T-box transcription factor TBX3 reprogrammes mature cardiac myocytes into pacemaker-like cells. <i>Cardiovascular Research</i> , 2012 , 94, 439-49	9.9	109

147	Functional Nav1.8 channels in intracardiac neurons: the link between SCN10A and cardiac electrophysiology. <i>Circulation Research</i> , 2012 , 111, 333-43	15.7	107
146	Ionic remodeling of sinoatrial node cells by heart failure. <i>Circulation</i> , 2003 , 108, 760-6	16.7	93
145	The cardiac sodium channel displays differential distribution in the conduction system and transmural heterogeneity in the murine ventricular myocardium. <i>Basic Research in Cardiology</i> , 2009 , 104, 511-22	11.8	90
144	Mechanism of right precordial ST-segment elevation in structural heart disease: excitation failure by current-to-load mismatch. <i>Heart Rhythm</i> , 2010 , 7, 238-48	6.7	88
143	Ionic mechanism of delayed afterdepolarizations in ventricular cells isolated from human end-stage failing hearts. <i>Circulation</i> , 2001 , 104, 2728-33	16.7	88
142	Larger cell size in rabbits with heart failure increases myocardial conduction velocity and QRS duration. <i>Circulation</i> , 2006 , 113, 806-13	16.7	86
141	HERG channel (dys)function revealed by dynamic action potential clamp technique. <i>Biophysical Journal</i> , 2005 , 88, 566-78	2.9	80
140	RBM20 Mutations Induce an Arrhythmogenic Dilated Cardiomyopathy Related to Disturbed Calcium Handling. <i>Circulation</i> , 2018 , 138, 1330-1342	16.7	78
139	PDZ domain-binding motif regulates cardiomyocyte compartment-specific NaV1.5 channel expression and function. <i>Circulation</i> , 2014 , 130, 147-60	16.7	77
138	Pro- and antiarrhythmic properties of a diet rich in fish oil. <i>Cardiovascular Research</i> , 2007 , 73, 316-25	9.9	75
137	Incorporated sarcolemmal fish oil fatty acids shorten pig ventricular action potentials. <i>Cardiovascular Research</i> , 2006 , 70, 509-20	9.9	72
136	Ion channelopathies in human induced pluripotent stem cell derived cardiomyocytes: a dynamic clamp study with virtual IK1. <i>Frontiers in Physiology</i> , 2015 , 6, 7	4.6	70
135	Conduction slowing by the gap junctional uncoupler carbenoxolone. <i>Cardiovascular Research</i> , 2003 , 60, 288-97	9.9	68
134	TECRL, a new life-threatening inherited arrhythmia gene associated with overlapping clinical features of both LQTS and CPVT. <i>EMBO Molecular Medicine</i> , 2016 , 8, 1390-1408	12	68
133	Gene expression profiling of the forming atrioventricular node using a novel tbx3-based node-specific transgenic reporter. <i>Circulation Research</i> , 2009 , 105, 61-9	15.7	67
132	Calcium-activated Cl(-) current contributes to delayed afterdepolarizations in single Purkinje and ventricular myocytes. <i>Circulation</i> , 2000 , 101, 2639-44	16.7	67
131	Electrophysiological changes in heart failure and their implications for arrhythmogenesis. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013 , 1832, 2432-41	6.9	63
130	Genetically determined differences in sodium current characteristics modulate conduction disease severity in mice with cardiac sodium channelopathy. <i>Circulation Research</i> , 2009 , 104, 1283-92	15.7	63

129	Zebrafish: a novel research tool for cardiac (patho)electrophysiology and ion channel disorders. <i>Frontiers in Physiology</i> , 2012 , 3, 255	4.6	62
128	Pacemaker activity of the human sinoatrial node: an update on the effects of mutations in HCN4 on the hyperpolarization-activated current. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 3071-94	6.3	61
127	Unique cardiac Purkinje fiber transient outward current β subunit composition: a potential molecular link to idiopathic ventricular fibrillation. <i>Circulation Research</i> , 2013 , 112, 1310-22	15.7	61
126	Intracellular calcium modulation of voltage-gated sodium channels in ventricular myocytes. <i>Cardiovascular Research</i> , 2009 , 81, 72-81	9.9	61
125	Acute administration of fish oil inhibits triggered activity in isolated myocytes from rabbits and patients with heart failure. <i>Circulation</i> , 2008 , 117, 536-44	16.7	59
124	Chronic inhibition of the Na ⁺ /H ⁺ - exchanger causes regression of hypertrophy, heart failure, and ionic and electrophysiological remodelling. <i>British Journal of Pharmacology</i> , 2008 , 154, 1266-75	8.6	58
123	Role of sequence variations in the human ether-a-go-go-related gene (HERG, KCNH2) in the Brugada syndrome. <i>Cardiovascular Research</i> , 2005 , 68, 441-53	9.9	51
122	Norepinephrine induces action potential prolongation and early afterdepolarizations in ventricular myocytes isolated from human end-stage failing hearts. <i>European Heart Journal</i> , 2001 , 22, 955-63	9.5	51
121	hiPSC-derived cardiomyocytes from Brugada Syndrome patients without identified mutations do not exhibit clear cellular electrophysiological abnormalities. <i>Scientific Reports</i> , 2016 , 6, 30967	4.9	50
120	Pacemaker activity of the human sinoatrial node: role of the hyperpolarization-activated current, I(f). <i>International Journal of Cardiology</i> , 2009 , 132, 318-36	3.2	50
119	Re-evaluation of the action potential upstroke velocity as a measure of the Na ⁺ current in cardiac myocytes at physiological conditions. <i>PLoS ONE</i> , 2010 , 5, e15772	3.7	47
118	Effects of muscarinic receptor stimulation on Ca ²⁺ transient, cAMP production and pacemaker frequency of rabbit sinoatrial node cells. <i>Basic Research in Cardiology</i> , 2010 , 105, 73-87	11.8	46
117	Coxsackie and adenovirus receptor is a modifier of cardiac conduction and arrhythmia vulnerability in the setting of myocardial ischemia. <i>Journal of the American College of Cardiology</i> , 2014 , 63, 549-59	15.1	45
116	Gender disparities in cardiac cellular electrophysiology and arrhythmia susceptibility in human failing ventricular myocytes. <i>International Heart Journal</i> , 2005 , 46, 1105-18	1.8	44
115	Novel Brugada syndrome-causing mutation in ion-conducting pore of cardiac Na ⁺ channel does not affect ion selectivity properties. <i>Acta Physiologica Scandinavica</i> , 2005 , 185, 291-301		42
114	Dietary fish oil reduces pacemaker current and heart rate in rabbit. <i>Heart Rhythm</i> , 2009 , 6, 1485-92	6.7	41
113	Intracardiac Origin of Heart Rate Variability, Pacemaker Funny Current and their Possible Association with Critical Illness. <i>Current Cardiology Reviews</i> , 2013 , 9, 82-96	2.4	40
112	Fever-triggered ventricular arrhythmias in Brugada syndrome and type 2 long-QT syndrome. <i>Netherlands Heart Journal</i> , 2010 , 18, 165-9	2.2	40

111	Long-QT syndrome-related sodium channel mutations probed by the dynamic action potential clamp technique. <i>Journal of Physiology</i> , 2006 , 570, 237-50	3.9	40
110	Human iPSC-Derived Cardiomyocytes for Investigation of Disease Mechanisms and Therapeutic Strategies in Inherited Arrhythmia Syndromes: Strengths and Limitations. <i>Cardiovascular Drugs and Therapy</i> , 2017 , 31, 325-344	3.9	39
109	Electrophysiologic remodeling of the left ventricle in pressure overload-induced right ventricular failure. <i>Journal of the American College of Cardiology</i> , 2012 , 59, 2193-202	15.1	39
108	Biphasic response of action potential duration to metabolic inhibition in rabbit and human ventricular myocytes: role of transient outward current and ATP-regulated potassium current. <i>Journal of Molecular and Cellular Cardiology</i> , 1996 , 28, 2443-56	5.8	38
107	Patch-Clamp Recording from Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes: Improving Action Potential Characteristics through Dynamic Clamp. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	35
106	Effects of heart failure on brain-type Na ⁺ channels in rabbit ventricular myocytes. <i>Europace</i> , 2007 , 9, 571-7	3.9	35
105	Sphingosine-1-Phosphate Receptor 1 Regulates Cardiac Function by Modulating Ca ²⁺ Sensitivity and Na ⁺ /H ⁺ Exchange and Mediates Protection by Ischemic Preconditioning. <i>Journal of the American Heart Association</i> , 2016 , 5,	6	35
104	The Brugada Syndrome Susceptibility Gene Modulates Cardiac Transmural Ion Channel Patterning and Electrical Heterogeneity. <i>Circulation Research</i> , 2017 , 121, 537-548	15.7	34
103	Slow delayed rectifier potassium current blockade contributes importantly to drug-induced long QT syndrome. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2013 , 6, 1002-9	6.4	34
102	Switch From Fetal to Adult Isoform in Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes Unmasks the Cellular Phenotype of a Conduction Disease-Causing Mutation. <i>Journal of the American Heart Association</i> , 2017 , 6,	6	34
101	Role of the R1135H KCNH2 mutation in Brugada syndrome. <i>International Journal of Cardiology</i> , 2010 , 144, 149-51	3.2	33
100	Early repolarization in mice causes overestimation of ventricular activation time by the QRS duration. <i>Cardiovascular Research</i> , 2013 , 97, 182-91	9.9	31
99	Transcriptome analysis of mouse and human sinoatrial node cells reveals a conserved genetic program. <i>Development (Cambridge)</i> , 2019 , 146,	6.6	30
98	A COUP-TFII Human Embryonic Stem Cell Reporter Line to Identify and Select Atrial Cardiomyocytes. <i>Stem Cell Reports</i> , 2017 , 9, 1765-1779	8	30
97	Intracardiac origin of heart rate variability, pacemaker funny current and their possible association with critical illness. <i>Current Cardiology Reviews</i> , 2013 , 9, 82-96	2.4	29
96	Reconstituted high-density lipoprotein shortens cardiac repolarization. <i>Journal of the American College of Cardiology</i> , 2011 , 58, 40-4	15.1	29
95	Engineering physiologically controlled pacemaker cells with lentiviral HCN4 gene transfer. <i>Journal of Gene Medicine</i> , 2008 , 10, 487-97	3.5	29
94	Anti-arrhythmic potential of the late sodium current inhibitor GS-458967 in murine Scn5a-1798insD ⁺ / ⁻ and human SCN5A-1795insD ⁺ / ⁻ iPSC-derived cardiomyocytes. <i>Cardiovascular Research</i> , 2017 , 113, 829-838	9.9	28

93	Is sodium current present in human sinoatrial node cells?. <i>International Journal of Biological Sciences</i> , 2009 , 5, 201-4	11.2	28
92	Dietary fish oil reduces the incidence of triggered arrhythmias in pig ventricular myocytes. <i>Heart Rhythm</i> , 2007 , 4, 1452-60	6.7	27
91	Dietary fish oil reduces the occurrence of early afterdepolarizations in pig ventricular myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2006 , 41, 914-7	5.8	26
90	Cardiac Subtype-Specific Modeling of K1.5 Ion Channel Deficiency Using Human Pluripotent Stem Cells. <i>Frontiers in Physiology</i> , 2017 , 8, 469	4.6	25
89	Orphan nuclear receptor Nur77 affects cardiomyocyte calcium homeostasis and adverse cardiac remodelling. <i>Scientific Reports</i> , 2015 , 5, 15404	4.9	25
88	Cellular basis of sex disparities in human cardiac electrophysiology. <i>Acta Physiologica</i> , 2006 , 187, 459-77	5.6	25
87	Ca ²⁺ -activated Cl ⁻ current reduces transmural electrical heterogeneity within the rabbit left ventricle. <i>Acta Physiologica Scandinavica</i> , 2004 , 180, 239-47		24
86	Gain-of-function mutation in SCN5A causes ventricular arrhythmias and early onset atrial fibrillation. <i>International Journal of Cardiology</i> , 2017 , 236, 187-193	3.2	23
85	Pacemaker activity of the human sinoatrial node: effects of HCN4 mutations on the hyperpolarization-activated current. <i>Europace</i> , 2014 , 16, 384-95	3.9	23
84	Ca(2+)-activated Cl(-) current in rabbit sinoatrial node cells. <i>Journal of Physiology</i> , 2002 , 540, 105-17	3.9	22
83	Revised roles of ISL1 in a hES cell-based model of human heart chamber specification. <i>ELife</i> , 2018 , 7,	8.9	21
82	Readthrough-Promoting Drugs Gentamicin and PTC124 Fail to Rescue Nav1.5 Function of Human-Induced Pluripotent Stem Cell-Derived Cardiomyocytes Carrying Nonsense Mutations in the Sodium Channel Gene SCN5A. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2016 , 9,	6.4	20
81	Identification of an I-dependent and I-mediated proarrhythmic mechanism in cardiomyocytes derived from pluripotent stem cells of a Brugada syndrome patient. <i>Scientific Reports</i> , 2018 , 8, 11246	4.9	20
80	Embryonic Tbx3 cardiomyocytes form the mature cardiac conduction system by progressive fate restriction. <i>Development (Cambridge)</i> , 2018 , 145,	6.6	20
79	A diet rich in unsaturated fatty acids prevents progression toward heart failure in a rabbit model of pressure and volume overload. <i>Circulation: Heart Failure</i> , 2012 , 5, 376-84	7.6	20
78	Intrinsic heterogeneity in repolarization is increased in isolated failing rabbit cardiomyocytes during simulated ischemia. <i>Cardiovascular Research</i> , 2003 , 59, 705-14	9.9	20
77	Injury current modulates afterdepolarizations in single human ventricular cells. <i>Cardiovascular Research</i> , 2000 , 47, 124-32	9.9	20
76	Long QT Syndrome and Sinus Bradycardia-A Mini Review. <i>Frontiers in Cardiovascular Medicine</i> , 2018 , 5, 106	5.4	20

75	Effects of acetylcholine and noradrenalin on action potentials of isolated rabbit sinoatrial and atrial myocytes. <i>Frontiers in Physiology</i> , 2012 , 3, 174	4.6	19
74	Single cells isolated from human sinoatrial node: action potentials and numerical reconstruction of pacemaker current. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 904-7		19
73	Dyscholesterolemia Protects Against Ischemia-Induced Ventricular Arrhythmias. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2015 , 8, 1481-90	6.4	17
72	Cryopreservation of human pluripotent stem cell-derived cardiomyocytes is not detrimental to their molecular and functional properties. <i>Stem Cell Research</i> , 2020 , 43, 101698	1.6	17
71	Relative importance of funny current in human versus rabbit sinoatrial node. <i>Journal of Molecular and Cellular Cardiology</i> , 2010 , 48, 799-801; author reply 802-3	5.8	17
70	Hyperpolarization-activated current, I_f , in mathematical models of rabbit sinoatrial node pacemaker cells. <i>BioMed Research International</i> , 2013 , 2013, 872454	3	16
69	Calcium transient and sodium-calcium exchange current in human versus rabbit sinoatrial node pacemaker cells. <i>Scientific World Journal, The</i> , 2013 , 2013, 507872	2.2	16
68	Effects of cell-to-cell uncoupling and catecholamines on Purkinje and ventricular action potentials: implications for phase-1b arrhythmias. <i>Cardiovascular Research</i> , 2001 , 51, 30-40	9.9	16
67	Reduced swelling-activated $Cl(-)$ current densities in hypertrophied ventricular myocytes of rabbits with heart failure. <i>Cardiovascular Research</i> , 2002 , 53, 869-78	9.9	16
66	Disease Modifiers of Inherited Channelopathy. <i>Frontiers in Cardiovascular Medicine</i> , 2018 , 5, 137	5.4	16
65	Aquaporin Channels in the Heart-Physiology and Pathophysiology. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	15
64	K4.3 Expression Modulates $Na_{1.5}$ Sodium Current. <i>Frontiers in Physiology</i> , 2018 , 9, 178	4.6	15
63	Electrophysiological Abnormalities in VLCAD Deficient hiPSC-Cardiomyocytes Can Be Improved by Lowering Accumulation of Fatty Acid Oxidation Intermediates. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	13
62	Incorporated fish oil fatty acids prevent action potential shortening induced by circulating fish oil fatty acids. <i>Frontiers in Physiology</i> , 2010 , 1, 149	4.6	13
61	Two types of action potential configuration in single cardiac Purkinje cells of sheep. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999 , 277, H1299-310	5.2	12
60	Role of Ca^{2+} -activated Cl^- current during proarrhythmic early afterdepolarizations in sheep and human ventricular myocytes. <i>Acta Physiologica Scandinavica</i> , 2003 , 179, 143-8		10
59	Absence of Functional $Na_{1.8}$ Channels in Non-diseased Atrial and Ventricular Cardiomyocytes. <i>Cardiovascular Drugs and Therapy</i> , 2019 , 33, 649-660	3.9	10
58	Enhanced late sodium current underlies pro-arrhythmic intracellular sodium and calcium dysregulation in murine sodium channelopathy. <i>International Journal of Cardiology</i> , 2018 , 263, 54-62	3.2	10

57	Role of Ca(2+)-activated Cl(-) current in ventricular action potentials of sheep during adrenoceptor stimulation. <i>Experimental Physiology</i> , 2001 , 86, 151-9	2.4	9
56	Isogenic Sets of hiPSC-CMs Harboring Distinct KCNH2 Mutations Differ Functionally and in Susceptibility to Drug-Induced Arrhythmias. <i>Stem Cell Reports</i> , 2020 , 15, 1127-1139	8	9
55	Differential effects on out-of-hospital cardiac arrest of dihydropyridines: real-world data from population-based cohorts across two European countries. <i>European Heart Journal - Cardiovascular Pharmacotherapy</i> , 2020 , 6, 347-355	6.4	9
54	Considerations in studying the transient outward K(+) current in cells exhibiting the hyperpolarization-activated current. <i>Cardiovascular Research</i> , 2001 , 52, 517-20	9.9	8
53	Acetylcholine Delays Atrial Activation to Facilitate Atrial Fibrillation. <i>Frontiers in Physiology</i> , 2019 , 10, 1105	4.6	7
52	Genetic variation in causes bradycardia by augmenting the cholinergic response via increased acetylcholine-activated potassium current (). <i>DMM Disease Models and Mechanisms</i> , 2019 , 12,	4.1	7
51	Ca(2+) cycling properties are conserved despite bradycardic effects of heart failure in sinoatrial node cells. <i>Frontiers in Physiology</i> , 2015 , 6, 18	4.6	7
50	The chemical compound PTC124 does not affect cellular electrophysiology of cardiac ventricular myocytes. <i>Cardiovascular Drugs and Therapy</i> , 2012 , 26, 41-5	3.9	7
49	Fish oil curtails the human action potential dome in a heterogeneous manner: implication for arrhythmogenesis. <i>International Journal of Cardiology</i> , 2009 , 132, 138-40	3.2	7
48	Gender disparities in torsade de pointes ventricular tachycardia. <i>Netherlands Heart Journal</i> , 2007 , 15, 405-11	2.2	7
47	Self-restoration of cardiac excitation rhythm by anti-arrhythmic ion channel gating. <i>ELife</i> , 2020 , 9,	8.9	7
46	Genome-Wide Analysis Identifies an Essential Human TBX3 Pacemaker Enhancer. <i>Circulation Research</i> , 2020 , 127, 1522-1535	15.7	7
45	Pharmacodynamics and Pharmacokinetics of Lidocaine in a Rodent Model of Diabetic Neuropathy. <i>Anesthesiology</i> , 2018 , 128, 609-619	4.3	6
44	Dynamic clamp as a tool to study the functional effects of individual membrane currents. <i>Methods in Molecular Biology</i> , 2014 , 1183, 309-26	1.4	6
43	Chronically elevated branched chain amino acid levels are pro-arrhythmic. <i>Cardiovascular Research</i> , 2021 ,	9.9	6
42	Neurokinin-3 receptor activation selectively prolongs atrial refractoriness by inhibition of a background K channel. <i>Nature Communications</i> , 2018 , 9, 4357	17.4	6
41	Cardiomyocyte Progenitor Cells as a Functional Gene Delivery Vehicle for Long-Term Biological Pacing. <i>Molecules</i> , 2019 , 24,	4.8	5
40	Validation of quantitative measure of repolarization reserve as a novel marker of drug induced proarrhythmia. <i>Journal of Molecular and Cellular Cardiology</i> , 2020 , 145, 122-132	5.8	5

39	Dietary Omega-3 Polyunsaturated Fatty Acids Suppress NHE-1 Upregulation in a Rabbit Model of Volume- and Pressure-Overload. <i>Frontiers in Physiology</i> , 2012 , 3, 76	4.6	5
38	Etiology-dependency of ionic remodeling in cardiomyopathic rabbits. <i>International Journal of Cardiology</i> , 2011 , 148, 154-60	3.2	5
37	Reply to Christ et al.: LQT1 and JLNS phenotypes in hiPSC-derived cardiomyocytes are due to KCNQ1 mutations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E1969	11.5	4
36	Mature Resting membrane potentials in human-induced pluripotent stem cell-derived cardiomyocytes: fact or artefact?. <i>Europace</i> , 2019 , 21, 1928	3.9	4
35	Activated human platelet products induce proarrhythmic effects in ventricular myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2011 , 51, 347-56	5.8	4
34	Ultrarapid Delayed Rectifier K Channelopathies in Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes. <i>Frontiers in Cell and Developmental Biology</i> , 2020 , 8, 536	5.7	4
33	Sulfonylurea antidiabetics are associated with lower risk of out-of-hospital cardiac arrest: Real-world data from a population-based study. <i>British Journal of Clinical Pharmacology</i> , 2021 , 87, 3588-3598	3.8	4
32	HCN4 current during human sinoatrial node-like action potentials. <i>Progress in Biophysics and Molecular Biology</i> , 2021 , 166, 105-118	4.7	4
31	A Variant Noncoding Region Regulates and Predisposes to Atrial Arrhythmias. <i>Circulation Research</i> , 2021 , 129, 420-434	15.7	4
30	The zebrafish 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,	11.5	4
29	Sodium current inhibition by nanosecond pulsed electric field (nsPEF)--fact or artifact?. <i>Bioelectromagnetics</i> , 2013 , 34, 162-4	1.6	3
28	Computational model of rabbit SA node pacemaker activity probed with action potential and calcium transient clamp. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 156-9		3
27	Diversity in cardiac sodium channel disease phenotype in transgenic mice carrying a single SCN5A mutation. <i>Netherlands Heart Journal</i> , 2007 , 15, 235-8	2.2	3
26	Identification of swelling-activated Cl(-) current in rabbit cardiac Purkinje cells. <i>Cellular and Molecular Life Sciences</i> , 2004 , 61, 1106-13	10.3	3
25	The sodium channel Na 1.5 impacts on early murine embryonic cardiac development, structure and function in a non-electrogenic manner. <i>Acta Physiologica</i> , 2020 , 230, e13493	5.6	2
24	Acetylsalicylic acid prevents platelet-induced proarrhythmic effects on intracellular Ca ²⁺ homeostasis in ventricular myocytes. <i>International Journal of Cardiology</i> , 2013 , 167, 303-5	3.2	2
23	Chemokine ligand 9 modulates cardiac repolarization via Cxcr3 receptor binding. <i>International Journal of Cardiology</i> , 2015 , 201, 49-52	3.2	2
22	Genetic Background Determines Magnitude of Late Sodium Current, Extent of Intracellular Na ⁺ and Ca ²⁺ Dysregulation, and Severity of Cardiomyopathy in Murine Sodium Channelopathy. <i>Heart Rhythm</i> , 2009 , 6, 1686	6.7	2

21	Effects of heart failure on brain-type Na ⁺ channels in rabbit ventricular myocytes: Reply. <i>Europace</i> , 2008 , 10, 257-258	3.9	2
20	Istaroxime treatment ameliorates calcium dysregulation in a zebrafish model of phospholamban R14del cardiomyopathy. <i>Nature Communications</i> , 2021 , 12, 7151	17.4	2
19	Cl current blockade reduces triggered activity based on delayed afterdepolarisations. <i>Netherlands Heart Journal</i> , 2001 , 9, 172-176	2.2	2
18	Limited role of Ca-activated Cl current in early afterdepolarisations. <i>Netherlands Heart Journal</i> , 2002 , 10, 506-511	2.2	2
17	Effects of the Transient Outward Potassium Current on Action Potential Upstroke Velocities Tested Using the Dynamic Clamp Technique		2
16	Dynamic Clamp in Electrophysiological Studies on Stem Cell-Derived Cardiomyocytes-Why and How?. <i>Journal of Cardiovascular Pharmacology</i> , 2021 , 77, 267-279	3.1	2
15	Patch-Clamp Recordings of Action Potentials From Human Atrial Myocytes: Optimization Through Dynamic Clamp. <i>Frontiers in Pharmacology</i> , 2021 , 12, 649414	5.6	2
14	Targeting the Microtubule EB1-CLASP2 Complex Modulates Na _v 1.5 at Intercalated Discs. <i>Circulation Research</i> , 2021 , 129, 349-365	15.7	2
13	Toward Biological Pacing by Cellular Delivery of Hcn2/SkM1. <i>Frontiers in Physiology</i> , 2020 , 11, 588679	4.6	2
12	Electrophysiological Abnormalities in VLCAD Deficient hiPSC-Cardiomyocytes Do not Improve with Carnitine Supplementation. <i>Frontiers in Pharmacology</i> , 2020 , 11, 616834	5.6	2
11	Down the rabbit hole: deciphering the short QT syndrome. <i>European Heart Journal</i> , 2019 , 40, 854-856	9.5	1
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8	Variant Intronic Enhancer Controls Expression and Heart Conduction. <i>Circulation</i> , 2021 , 144, 229-242	16.7	1
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