Ruben Coronel

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2123490/publications.pdf

Version: 2024-02-01

241	10,105	34493	49824
papers	citations	54 h-index	91 g-index

245	245	245	8832
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanism of the effects of sodium channel blockade on the arrhythmogenic substrate of Brugada syndrome. Heart Rhythm, 2022, 19, 407-416.	0.3	17
2	Empagliflozin reduces oxidative stress through inhibition of the novel inflammation/NHE/[Na+]c/ROS-pathway in human endothelial cells. Biomedicine and Pharmacotherapy, 2022, 146, 112515.	2.5	47
3	Naked mole-rats maintain cardiac function and body composition well into their fourth decade of life. GeroScience, 2022, , 1.	2.1	9
4	Deep neural networks reveal novel sex-specific electrocardiographic features relevant for mortality risk. European Heart Journal Digital Health, 2022, 3, 245-254.	0.7	6
5	Direct cardiac effects of SGLT2 inhibitors. Cardiovascular Diabetology, 2022, 21, 45.	2.7	62
6	Cardiac mechanisms of the beneficial effects of SGLT2 inhibitors in heart failure: Evidence for potential off-target effects. Journal of Molecular and Cellular Cardiology, 2022, 167, 17-31.	0.9	52
7	Secretome of atrial epicardial adipose tissue facilitates reentrant arrhythmias by myocardial remodeling. Heart Rhythm, 2022, 19, 1461-1470.	0.3	13
8	Risk of out-of-hospital cardiac arrest in patients with rheumatoid arthritis: a nationwide study. Open Heart, 2022, 9, e001987.	0.9	9
9	Dependence of epicardial T-wave on local activation voltage in Brugada syndrome. Heart Rhythm, 2022, 19, 1686-1688.	0.3	5
10	Mechanism of ventricular premature beats elicited by left stellate ganglion stimulation during acute ischaemia of the anterior left ventricle. Cardiovascular Research, 2021, 117, 2083-2091.	1.8	6
11	Critical repolarization gradients determine the induction of reentry-based torsades de pointes arrhythmia in models of long QT syndrome. Heart Rhythm, 2021, 18, 278-287.	0.3	18
12	Fibrosis and Conduction Abnormalities as Basis for Overlap of Brugada Syndrome and Early Repolarization Syndrome. International Journal of Molecular Sciences, 2021, 22, 1570.	1.8	11
13	The Blinding Period Following Ablation Therapy for Atrial Fibrillation. JACC: Clinical Electrophysiology, 2021, 7, 416-430.	1.3	25
14	Why Ablation of Sites With Purkinje Activation Is Antiarrhythmic: The Interplay Between Fast Activation and Arrhythmogenesis. Frontiers in Physiology, 2021, 12, 648396.	1.3	8
15	Severe Bradycardia Increases the Incidence and Severity of Torsade de Pointes Arrhythmias by Augmenting Preexistent Spatial Dispersion of Repolarization in the CAVB Dog Model. Frontiers in Physiology, 2021, 12, 642083.	1.3	4
16	Sodium-glucose co-transporter 2 inhibitor empagliflozin inhibits the cardiac Na+/H+ exchanger 1: persistent inhibition under various experimental conditions. Cardiovascular Research, 2021, 117, 2699-2701.	1.8	37
17	Electrocardiographic Imaging of Repolarization Abnormalities. Journal of the American Heart Association, 2021, 10, e020153.	1.6	17
18	Alcohol Intake and the Arrhythmogenic Substrate in the Pulmonary Veins of AtrialÂFibrillation Patients. JACC: Clinical Electrophysiology, 2021, 7, 671-672.	1.3	0

#	Article	IF	Citations
19	A computational model of pig ventricular cardiomyocyte electrophysiology and calcium handling: Translation from pig to human electrophysiology. PLoS Computational Biology, 2021, 17, e1009137.	1.5	3
20	Towards Molecular Therapy of Atrioventricular Nodal Dysfunction. Circulation Research, 2021, 129, 6-8.	2.0	0
21	Self-Reported Onset of Paroxysmal Atrial Fibrillation Is Related to Sleeping Body Position. Frontiers in Physiology, 2021, 12, 708650.	1.3	3
22	Excitability and propagation of the electrical impulse in Venus flytrap; a comparative electrophysiological study of unipolar electrograms with myocardial tissue. Bioelectrochemistry, 2021, 140, 107810.	2.4	5
23	B-PO02-025 NON-INVASIVE ELECTRICAL IMAGING OF REPOLARIZATION ABNORMALITIES TO PREDICT ARRHYTHMIC RISK. Heart Rhythm, 2021, 18, S105.	0.3	0
24	B-PO03-143 LOCALIZED PULMONARY VEIN STRESS INDUCED BY POSTURAL CHANGE IN HEALTHY HUMANS. Heart Rhythm, 2021, 18, S247.	0.3	0
25	Localized Pulmonary Vein Scar Promotes Atrial Fibrillation in High Left Atrial Pressure. Frontiers in Physiology, 2021, 12, 709844.	1.3	1
26	B-PO05-019 THE ATRIAL-PULMONARY VEIN JUNCTION CONSTITUTES AN ARRHYTHMOGENIC SUBSTRATE. Heart Rhythm, 2021, 18, S379.	0.3	0
27	B-PO01-013 ABLATION SCAR IN A SINGLE PULMONARY VEIN CAUSES PROARRHYTHMIC MECHANICAL DESTABILIZATION IN HEALTHY SHEEP ATRIA. Heart Rhythm, 2021, 18, S55-S56.	0.3	0
28	B-PO03-090 ABLATION SCAR CAUSES A DECREASE IN PULMONARY VEIN DIAMETER IN ATRIAL FIBRILLATION PATIENTS AND IN HEALTHY SHEEP. Heart Rhythm, 2021, 18, S225.	0.3	0
29	Interplay between temporal and spatial dispersion of repolarization in the initiation and perpetuation of torsades de pointes in the chronic atrioventricular block dog. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 321, H569-H576.	1.5	8
30	A left lateral body position increases pulmonary vein stress in healthy humans. Physiological Reports, 2021, 9, e15022.	0.7	3
31	Ex vivo Validation of Noninvasive Epicardial and Endocardial Repolarization Mapping. Frontiers in Physiology, 2021, 12, 737609.	1.3	2
32	Modulation of Cardiac Arrhythmogenesis by Epicardial Adipose Tissue. Journal of the American College of Cardiology, 2021, 78, 1730-1745.	1.2	52
33	Reduction in left atrial and pulmonary vein dimensions after ablation therapy is mediated by scar. IJC Heart and Vasculature, 2021, 37, 100894.	0.6	2
34	Profibrillatory Structural and Functional Properties of the Atrial-Pulmonary Junction in the Absence of Remodeling. Frontiers in Physiology, 2021, 12, 748203.	1.3	3
35	Noninvasive detection of spatiotemporal activation-repolarization interactions that prime idiopathic ventricular fibrillation. Science Translational Medicine, 2021, 13, eabi9317.	5.8	14
36	Stellate ganglion stimulation causes spatiotemporal changes in ventricular repolarization in pig. Heart Rhythm, 2020, 17, 795-803.	0.3	12

#	Article	IF	Citations
37	T-box transcription factor 3 governs a transcriptional program for the function of the mouse atrioventricular conduction system. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18617-18626.	3.3	19
38	The Future of Physiology: Cardiac Electrophysiology. Frontiers in Physiology, 2020, 11, 854.	1.3	1
39	On Publication Strategies. Another Advice to a Beginning Scientist. Frontiers in Physiology, 2020, 11, 1073.	1.3	3
40	Empagliflozin Decreases Lactate Generation in an NHE-1 Dependent Fashion and Increases Î±-Ketoglutarate Synthesis From Palmitate in Type II Diabetic Mouse Hearts. Frontiers in Cardiovascular Medicine, 2020, 7, 592233.	1.1	22
41	Reply. JACC: Clinical Electrophysiology, 2020, 6, 1863-1864.	1.3	2
42	Structurally Abnormal Myocardium Underlies Ventricular Fibrillation Storms in a Patient Diagnosed With the EarlyÂRepolarization Pattern. JACC: Clinical Electrophysiology, 2020, 6, 1395-1404.	1.3	15
43	In silico validation of electrocardiographic imaging to reconstruct the endocardial and epicardial repolarization pattern using the equivalent dipole layer source model. Medical and Biological Engineering and Computing, 2020, 58, 1739-1749.	1.6	6
44	The Amplitude-Normalized Area of a Bipolar Electrogram as a Measure of Local Conduction Delay in the Heart. Frontiers in Physiology, 2020, 11, 465.	1.3	4
45	Mechanism of spontaneous initiation of ventricular fibrillation in patients with implantable defibrillators. Journal of Cardiovascular Electrophysiology, 2020, 31, 2415-2424.	0.8	2
46	Electrophysiological Abnormalities in VLCAD Deficient hiPSC-Cardiomyocytes Can Be Improved by Lowering Accumulation of Fatty Acid Oxidation Intermediates. International Journal of Molecular Sciences, 2020, 21, 2589.	1.8	24
47	Validation of quantitative measure of repolarization reserve as a novel marker of drug induced proarrhythmia. Journal of Molecular and Cellular Cardiology, 2020, 145, 122-132.	0.9	10
48	Advantages and pitfalls of noninvasive electrocardiographic imaging. Journal of Electrocardiology, 2019, 57, S15-S20.	0.4	23
49	Acetylcholine Delays Atrial Activation to Facilitate Atrial Fibrillation. Frontiers in Physiology, 2019, 10, 1105.	1.3	19
50	Mapping and Ablation of Ventricular Fibrillation Associated With Early Repolarization Syndrome. Circulation, 2019, 140, 1477-1490.	1.6	80
51	Transient ST-segment elevation and coronary flow. European Heart Journal, 2019, 40, 2463-2464.	1.0	7
52	Adriaan van Oosterom, PhD. Heart Rhythm, 2019, 16, e299.	0.3	0
53	J-Waves in Epicardial Electrograms Can Guide Ablation of Arrhythmogenic Substrates. Circulation Research, 2019, 124, 205-207.	2.0	7
54	Delayed ischaemic contracture onset by empagliflozin associates with NHE1 inhibition and is dependent on insulin in isolated mouse hearts. Cardiovascular Research, 2019, 115, 1533-1545.	1.8	71

#	Article	IF	Citations
55	Depolarization versus repolarization abnormality underlying inferolateral J-wave syndromes: New concepts in sudden cardiac death with apparently normal hearts. Heart Rhythm, 2019, 16, 781-790.	0.3	52
56	Cardiac electrical dyssynchrony is accurately detected by noninvasive electrocardiographic imaging. Heart Rhythm, 2018, 15, 1058-1069.	0.3	53
57	Class effects of SGLT2 inhibitors in mouse cardiomyocytes and hearts: inhibition of Na+/H+ exchanger, lowering of cytosolic Na+ and vasodilation. Diabetologia, 2018, 61, 722-726.	2.9	412
58	Direct Cardiac Actions of Sodium Glucose Cotransporter 2 Inhibitors Target Pathogenic Mechanisms Underlying Heart Failure in Diabetic Patients. Frontiers in Physiology, 2018, 9, 1575.	1.3	130
59	Neurokinin-3 receptor activation selectively prolongs atrial refractoriness by inhibition of a background K+ channel. Nature Communications, 2018, 9, 4357.	5.8	9
60	Gold-catalyzed synthesis of Î²-trifluoromethylated Î±,Î²-unsaturated ketones from CF3-substituted propargylic carboxylates and their reactivity in Diels-Alder reactions. Tetrahedron, 2018, 74, 5232-5239.	1.0	6
61	Activation-repolarization mapping to guide VT-ablation without the need to induce the arrhythmia. International Journal of Cardiology, 2018, 271, 111-112.	0.8	0
62	Localized Structural Alterations Underlying a Subset of Unexplained Sudden Cardiac Death. Circulation: Arrhythmia and Electrophysiology, 2018, 11, e006120.	2.1	67
63	The effect of revascularization of a chronic total coronary occlusion on electrocardiographic variables. A sub-study of the EXPLORE trial. Journal of Electrocardiology, 2018, 51, 906-912.	0.4	6
64	Empagliflozin effects on ischemic contracture and I/R injury in isolated mouse hearts perfused with or without insulin. Journal of Molecular and Cellular Cardiology, 2018, 120, 19.	0.9	0
65	Effects of ECG Signal Processing on the Inverse Problem of Electrocardiography. , 2018, 45, .		15
66	Empagliflozin effects on ischemic contracture and I/R injury in isolated mouse hearts perfused with or without insulin. FASEB Journal, 2018, 32, lb292.	0.2	0
67	Cardiac activationâ€“repolarization patterns and ion channel expression mapping in intact isolated normal human hearts. Heart Rhythm, 2017, 14, 265-272.	0.3	36
68	The pro- or antiarrhythmic actions of polyunsaturated fatty acids and of cholesterol. , 2017, 176, 40-47.		9
69	Mechano-electric coupling, heterogeneity in repolarization and the electrocardiographic T-wave. Progress in Biophysics and Molecular Biology, 2017, 130, 356-364.	1.4	4
70	The Brugada Syndrome Susceptibility Gene HEY2 Modulates Cardiac Transmural Ion Channel Patterning and Electrical Heterogeneity. Circulation Research, 2017, 121, 537-548.	2.0	63
71	Fractionated electrograms with ST-segment elevation recorded from the human right ventricular outflow tract. HeartRhythm Case Reports, 2017, 3, 546-550.	0.2	13
72	Response by Veerman et al to Letter Regarding Article, â€œThe Brugada Syndrome Susceptibility Gene HEY2 Modulates Cardiac Transmural Ion Channel Patterning and Electrical Heterogeneityâ€• Circulation Research, 2017, 121, e21.	2.0	0

#	Article	IF	Citations
73	Local transmural action potential gradients are absent in the isolated, intact dog heart but present in the corresponding coronary-perfused wedge. Physiological Reports, 2017, 5, e13251.	0.7	15
74	Dissecting the Genetic Basis of the ECG as a Means of Understanding Mechanisms of Arrhythmia. Circulation: Cardiovascular Genetics, 2017, 10, .	5.1	2
75	Restitution slope is determined by the steady state action potential duration: law and disorder. Cardiovascular Research, 2017, 113, 705-707.	1.8	1
76	Empagliflozin decreases myocardial cytoplasmic Na+ through inhibition of the cardiac Na+/H+ exchanger in rats and rabbits. Diabetologia, 2017, 60, 568-573.	2.9	468
77	Differential Mechanisms of Myocardial Conduction Slowing by Adipose Tissue-Derived Stromal Cells Derived from Different Species. Stem Cells Translational Medicine, 2017, 6, 22-30.	1.6	9
78	Human Cardiomyocyte Progenitor Cells in Co-culture with Rat Cardiomyocytes Form a Pro-arrhythmic Substrate: Evidence for Two Different Arrhythmogenic Mechanisms. Frontiers in Physiology, 2017, 8, 797.	1.3	3
79	Recombinant human collagen-based microspheres mitigate cardiac conduction slowing induced by adipose tissue-derived stromal cells. PLoS ONE, 2017, 12, e0183481.	1.1	9
80	Reduced Sodium Current in the Lateral Ventricular Wall Induces Inferolateral J-Waves. Frontiers in Physiology, 2016, 7, 365.	1.3	13
81	Transmural electrophysiological heterogeneity, the T-wave and ventricular arrhythmias. Progress in Biophysics and Molecular Biology, 2016, 122, 202-214.	1.4	25
82	Selective subepicardial localization of monocyte subsets in response to progressive coronary artery constriction. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 311, H239-H250.	1.5	2
83	Experimental Validation of Noninvasive Epicardial and Endocardial Activation Imaging. Circulation: Arrhythmia and Electrophysiology, 2016, 9, e004104.	2.1	25
84	Concise Review: Pluripotent Stem Cell-Derived Cardiac Cells, A Promising Cell Source for Therapy of Heart Failure: Where Do We Stand?. Stem Cells, 2016, 34, 34-43.	1.4	27
85	Increased Late Sodium Current Contributes to the Electrophysiological Effects of Chronic, but Not Acute, Dofetilide Administration. Circulation: Arrhythmia and Electrophysiology, 2016, 9, e003655.	2.1	15
86	Letter by Baartscheer et al Regarding Editorial, â€œMatter of Fat: Are Lipids Antiarrhythmic?â€• Circulation: Arrhythmia and Electrophysiology, 2016, 9, e003933.	2.1	0
87	Dispersion in ventricular repolarization in the human, canine and porcine heart. Progress in Biophysics and Molecular Biology, 2016, 120, 222-235.	1.4	41
88	Embryonic development of the right ventricular outflow tract and arrhythmias. Heart Rhythm, 2016, 13, 616-622.	0.3	13
89	Investigating a Novel Activation-Repolarisation Time Metric to Predict Localised Vulnerability to Reentry Using Computational Modelling. PLoS ONE, 2016, 11, e0149342.	1.1	30
90	Synchronization of repolarization by mechano-electrical coupling in the porcine heart. Cardiovascular Research, 2015, 108, 181-187.	1.8	16

#	Article	IF	Citations
91	Response to Letter Regarding Article, â€œAtrial Fibrosis and Conduction Slowing in the Left Atrial Appendage of Patients Undergoing Thoracoscopic Surgical Pulmonary Vein Isolation for Atrial Fibrillationâ€. Circulation: Arrhythmia and Electrophysiology, 2015, 8, 997-997.	2.1	4
92	Treatment of Atrial and VentricularÂArrhythmias ThroughÂAutonomic Modulation. JACC: Clinical Electrophysiology, 2015, 1, 496-508.	1.3	36
93	J-wave syndrome(s). Trends in Cardiovascular Medicine, 2015, 25, 22-23.	2.3	1
94	Interventricular dispersion in repolarization causes bifid T waves in dogs with dofetilide-induced long QT syndrome. Heart Rhythm, 2015, 12, 1343-1351.	0.3	11
95	Atrial Fibrosis and Conduction Slowing in the Left Atrial Appendage of Patients Undergoing Thoracoscopic Surgical Pulmonary Vein Isolation for Atrial Fibrillation. Circulation: Arrhythmia and Electrophysiology, 2015, 8, 288-295.	2.1	110
96	An activation-repolarization time metric to predict localized regions of high susceptibility to reentry. Heart Rhythm, 2015, 12, 1644-1653.	0.3	40
97	Feasibility of a semi-automated method for cardiac conduction velocity analysis of high-resolution activation maps. Computers in Biology and Medicine, 2015, 65, 177-183.	3.9	40
98	ST-Segment Elevation and Fractionated Electrograms in Brugada Syndrome Patients Arise From the Same Structurally Abnormal Subepicardial RVOT Area but Have a Different Mechanism. Circulation: Arrhythmia and Electrophysiology, 2015, 8, 1382-1392.	2.1	43
99	Dyscholesterolemia Protects Against Ischemia-Induced Ventricular Arrhythmias. Circulation: Arrhythmia and Electrophysiology, 2015, 8, 1481-1490.	2.1	22
100	Stem cells can form gap junctions with cardiac myocytes and exert pro-arrhythmic effects. Frontiers in Physiology, 2014, 5, 419.	1.3	20
101	How to measure propagation velocity in cardiac tissue: a simulation study. Frontiers in Physiology, 2014, 5, 267.	1.3	14
102	Oscillatory behavior of ventricular action potential duration in heart failure patients at respiratory rate and low frequency. Frontiers in Physiology, 2014, 5, 414.	1.3	42
103	Misinterpretation of the mouse ECG: â€˜musing the waves of Mus musculusâ€™. Journal of Physiology, 2014, 592, 4613-4626.	1.3	103
104	Coxsackie and Adenovirus Receptor Is a Modifier of Cardiac Conduction and Arrhythmia Vulnerability in the Setting of Myocardial Ischemia. Journal of the American College of Cardiology, 2014, 63, 549-559.	1.2	58
105	Detection and quantification methods of monocyte homing in coronary vasculature with an imaging cryomicrotome. Journal of Molecular and Cellular Cardiology, 2014, 76, 196-204.	0.9	9
106	Disparate response of high-frequency ganglionic plexus stimulation on sinus node function and atrial propagation in patients with atrial fibrillation. Heart Rhythm, 2014, 11, 1743-1751.	0.3	24
107	Electrocardiographic T Wave and its Relation With Ventricular Repolarization Along Major Anatomical Axes. Circulation: Arrhythmia and Electrophysiology, 2014, 7, 524-531.	2.1	55
108	Hypercholesterolemia Protects Against Ischemia-Induced Ventricular Tachycardia and Ventricular Fibrillation. Biophysical Journal, 2014, 106, 772a-773a.	0.2	0

#	Article	IF	Citations
109	Common variants at SCN5A-SCN10A and HEY2 are associated with Brugada syndrome, a rare disease with high risk of sudden cardiac death. Nature Genetics, 2013, 45, 1044-1049.	9.4	467
110	Dyscholesterolemia Alters L-Type Calcium Current Which Protects against Ischemia-Induced Ventricular Tachycardia and Ventricular Fibrillation. Biophysical Journal, 2013, 104, 314a.	0.2	0
111	Critical appraisal of the mechanism underlying J waves. Journal of Electrocardiology, 2013, 46, 390-394.	0.4	13
112	Neuropeptide Substance-P Modulates Electrical Characteristics of Rabbit Atrial Myocytes. Biophysical Journal, 2013, 104, 282a.	0.2	1
113	Electrophysiological changes in heart failure and their implications for arrhythmogenesis. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2013, 1832, 2432-2441.	1.8	84
114	The J-wave conundrum: Early repolarization and Brugada syndrome. Heart Rhythm, 2013, 10, 540-541.	0.3	5
115	Early repolarization in mice causes overestimation of ventricular activation time by the QRS duration. Cardiovascular Research, 2013, 97, 182-191.	1.8	49
116	Reduced Sodium Channel Function Unmasks Residual Embryonic Slow Conduction in the Adult Right Ventricular Outflow Tract. Circulation Research, 2013, 113, 137-141.	2.0	87
117	Cyclical modulation of human ventricular repolarization by respiration. Frontiers in Physiology, 2012, 3, 379.	1.3	25
118	Ventricular fibrillation hampers the restoration of creatine-phosphate levels during simulated cardiopulmonary resuscitations. Europace, 2012, 14, 1518-1523.	0.7	16
119	A Diet Rich in Unsaturated Fatty Acids Prevents Progression Toward Heart Failure in a Rabbit Model of Pressure and Volume Overload. Circulation: Heart Failure, 2012, 5, 376-384.	1.6	20
120	Increased amount of atrial fibrosis in patients with atrial fibrillation secondary to mitral valve disease. Journal of Thoracic and Cardiovascular Surgery, 2012, 144, 327-333.	0.4	15
121	Early repolarization patterns: The good, the bad, and the ugly?. Heart Rhythm, 2012, 9, 230-231.	0.3	4
122	Postrepolarization refractoriness in acute ischemia and after antiarrhythmic drug administration: Action potential duration is not always an index of the refractory period. Heart Rhythm, 2012, 9, 977-982.	0.3	44
123	Postrepolarization Refractoriness in Acute Ischemia and After Antiarrhythmic Drug Administration. Heart Rhythm, 2012, 9, e14.	0.3	0
124	Repolarization gradients in the intact heart: Transmural or apico-basal?. Progress in Biophysics and Molecular Biology, 2012, 109, 6-15.	1.4	61
125	Fifty years of publishing in biomedical engineering: reflections after 7-year editorship. Medical and Biological Engineering and Computing, 2012, 50, 1183-1186.	1.6	2
126	Dietary Omega-3 Polyunsaturated Fatty Acids Suppress NHE-1 Upregulation in a Rabbit Model of Volume- and Pressure-Overload. Frontiers in Physiology, 2012, 3, 76.	1.3	8

#	Article	IF	Citations
127	The Association of Abnormal Ventricular Wall Motion and Increased Dispersion of Repolarization in Humans is Independent of the Presence of Myocardial Infarction. Frontiers in Physiology, 2012, 3, 235.	1.3	15
128	Structural microvascular changes as a consequence of cyclophosphamide induced heart failure in rabbits. FASEB Journal, 2012, 26, 682.13.	0.2	0
129	ST segment elevation by current-to-load mismatch: an experimental and computational study. Heart Rhythm, 2011, 8, 111-118.	0.3	64
130	Rebuttal to M cells are present in the ventricular myocardium. Heart Rhythm, 2011, 8, 1100.	0.3	3
131	Counterpoint: M cells do not have a functional role in the ventricular myocardium of the intact heart. Heart Rhythm, 2011, 8, 934-937.	0.3	28
132	Load-Reducing Therapy Prevents Development of Arrhythmogenic Right Ventricular Cardiomyopathy in Plakoglobin-Deficient Mice. Journal of the American College of Cardiology, 2011, 57, 740-750.	1.2	103
133	Reconstituted High-Density Lipoprotein Shortens Cardiac Repolarization. Journal of the American College of Cardiology, 2011, 58, 40-44.	1.2	34
134	Etiology-dependency of ionic remodeling in cardiomyopathic rabbits. International Journal of Cardiology, 2011, 148, 154-160.	0.8	6
135	Quantitative trait loci for electrocardiographic parameters and arrhythmia in the mouse. Journal of Molecular and Cellular Cardiology, 2011, 50, 380-389.	0.9	22
136	The Driving Force of the Na+/Ca2+-Exchanger during Metabolic Inhibition. Frontiers in Physiology, 2011, 2, 10.	1.3	15
137	Noninvasive detection of epicardial and endocardial activity of the heart. Netherlands Heart Journal, 2011, 19, 488-491.	0.3	7
138	Engineering and ethical constraints. Medical and Biological Engineering and Computing, 2011, 49, 1-2.	1.6	12
139	Letter by Opthof et al Regarding Article, â€œProlonged Tpeak to Tend Interval on the Resting Electrocardiogram Is Associated With Increased Risk of Sudden Cardiac Deathâ€• Circulation: Arrhythmia and Electrophysiology, 2011, 4, e87; author reply e88.	2.1	1
140	Defective Tbx2-dependent patterning of the atrioventricular canal myocardium causes accessory pathway formation in mice. Journal of Clinical Investigation, 2011, 121, 534-544.	3.9	78
141	Antiarrhythmic Gene Therapy for Depressed Conduction in Myocardial Infarction. Journal of Arrhythmia, 2011, 27, SS5_3.	0.5	0
142	Challenging cardiac electrophysiology. Frontiers in Physiology, 2010, 1, 8.	1.3	1
143	Anti- or profibrillatory effects of Na+ channel blockade depend on the site of application relative to gradients in repolarization. Frontiers in Physiology, 2010, 1, 10.	1.3	12
144	Incorporated Fish Oil Fatty Acids Prevent Action Potential Shortening Induced by Circulating Fish Oil Fatty Acids. Frontiers in Physiology, 2010, 1, 149.	1.3	16

#	Article	IF	Citations
145	The Brugada ECG Pattern. Circulation: Arrhythmia and Electrophysiology, 2010, 3, 283-290.	2.1	129
146	Organization and collateralization of a subendocardial plexus in end-stage human heart failure. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H158-H162.	1.5	19
147	Left atrial pressure reduction for mitral stenosis reverses left atrial direction-dependent conduction abnormalities. Cardiovascular Research, 2010, 85, 711-718.	1.8	29
148	Mechanism of right precordial ST-segment elevation in structural heart disease: Excitation failure by current-to-load mismatch. Heart Rhythm, 2010, 7, 238-248.	0.3	117
149	Cardiac expression of skeletal muscle sodium channels increases longitudinal conduction velocity in the canine 1-week myocardial infarction. Heart Rhythm, 2010, 7, 1104-1110.	0.3	26
150	Mind the gap: Engineering resilient gap junctions. Heart Rhythm, 2010, 7, 1499-1500.	0.3	0
151	Challenging Cardiac Electrophysiology. Frontiers in Physiology, 2010, 0, .	1.3	0
152	Validation of a simple model for the morphology of the T wave in unipolar electrograms. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 297, H792-H801.	1.5	95
153	Is there a significant transmural gradient in repolarization time in the intact heart?. Circulation: Arrhythmia and Electrophysiology, 2009, 2, 89-96.	2.1	102
154	Developmental Basis for Electrophysiological Heterogeneity in the Ventricular and Outflow Tract Myocardium As a Substrate for Life-Threatening Ventricular Arrhythmias. Circulation Research, 2009, 104, 19-31.	2.0	143
155	The effect of enhanced gap junctional conductance on ventricular conduction in explanted hearts from patients with heart failure. Basic Research in Cardiology, 2009, 104, 321-332.	2.5	18
156	The Response to Fish Oil in Patients with Heart Disease Depends on the Predominant Arrhythmia Mechanism. Cardiovascular Drugs and Therapy, 2009, 23, 333-334.	1.3	7
157	Fish oil curtails the human action potential dome in a heterogeneous manner: Implication for arrhythmogenesis. International Journal of Cardiology, 2009, 132, 138-140.	0.8	8
158	Dispersion of repolarization and arrhythmogenesis. Heart Rhythm, 2009, 6, 537-543.	0.3	113
159	Dietary fish oil reduces pacemaker current and heart rate in rabbit. Heart Rhythm, 2009, 6, 1485-1492.	0.3	44
160	Complexity and the interpretation of results. Heart Rhythm, 2009, 6, 528-529.	0.3	1
161	Chronic inhibition of the Na⁺/H⁺â€•exchanger causes regression of hypertrophy, heart failure, and ionic and electrophysiological remodelling. British Journal of Pharmacology, 2008, 154, 1266-1275.	2.7	70
162	Reentry in survived subepicardium coupled to depolarized and inexcitable midmyocardium: Insights into arrhythmogenesis in ischemia phase 1B. Heart Rhythm, 2008, 5, 1036-1044.	0.3	20

#	Article	IF	Citations
163	Transmural dispersion of refractoriness and conduction velocity is associated with heterogeneously reduced connexin43 in a rabbit model of heart failure. Heart Rhythm, 2008, 5, 1178-1185.	0.3	56
164	Acute Administration of Fish Oil Inhibits Triggered Activity in Isolated Myocytes From Rabbits and Patients With Heart Failure. Circulation, 2008, 117, 536-544.	1.6	72
165	Slow and Discontinuous Conduction Conspire in Brugada Syndrome. Circulation: Arrhythmia and Electrophysiology, 2008, 1, 379-386.	2.1	121
166	Response to Letter Regarding Article â€œAcute Administration of Fish Oil Inhibits Triggered Activity in Isolated Myocytes From Rabbits and Patients With Heart Failureâ€• Circulation, 2008, 118, .	1.6	0
167	The complexity of genotype-phenotype relations associated with loss-of-function sodium channel mutations and the role of in silico studies. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 295, H8-H9.	1.5	6
168	Differences in fatty acid composition between cerebral brain lobes in juvenile pigs after fish oil feeding. British Journal of Nutrition, 2008, 100, 794-800.	1.2	11
169	Long-term cardiac memory in canine heart is associated with the evolution of a transmural repolarization gradient. Cardiovascular Research, 2007, 74, 416-425.	1.8	45
170	Modeling transport of interstitial potassium in regional myocardial ischemia: effect on the injury current. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 6331-4.	0.5	1
171	Pro- and antiarrhythmic properties of a diet rich in fish oil. Cardiovascular Research, 2007, 73, 316-325.	1.8	94
172	Dietary n-3 fatty acids promote arrhythmias during acute regional myocardial ischemia in isolated pig heartsâ˜†. Cardiovascular Research, 2007, 73, 386-394.	1.8	60
173	Simulating T-wave parameters of local extracellular electrograms with a whole-heart bidomain reaction-diffusion model: Size matters!. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 6644-7.	0.5	3
174	Pacemaker current (If) in the human sinoatrial node. European Heart Journal, 2007, 28, 2472-2478.	1.0	148
175	Dispersion of repolarization in canine ventricle and the electrocardiographic T wave: Tp-e interval does not reflect transmural dispersion. Heart Rhythm, 2007, 4, 341-348.	0.3	244
176	Single Cells Isolated from Human Sinoatrial Node: Action Potentials and Numerical Reconstruction of Pacemaker Current. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 904-7.	0.5	26
177	A wedge is not a heart. Heart Rhythm, 2007, 4, 1116-1119.	0.3	34
178	The effect of lesion size and tissue remodeling on ST deviation in partial-thickness ischemia. Heart Rhythm, 2007, 4, 200-206.	0.3	28
179	Dietary fish oil reduces the incidence of triggered arrhythmias in pig ventricular myocytes. Heart Rhythm, 2007, 4, 1452-1460.	0.3	34
180	Myths, metaphors, and mathematical models. Heart Rhythm, 2007, 4, 1046-1047.	0.3	4

#	Article	IF	Citations
181	To The Editorâ€"Response. Heart Rhythm, 2007, 4, 121.	0.3	6
182	The role of extracellular potassium transport in computer models of the ischemic zone. Medical and Biological Engineering and Computing, 2007, 45, 1187-1199.	1.6	12
183	Monophasic action potentials and activation recovery intervals as measures of ventricular action potential duration: Experimental evidence to resolve some controversies. Heart Rhythm, 2006, 3, 1043-1050.	0.3	180
184	Dietary fish oil reduces the occurrence of early afterdepolarizations in pig ventricular myocytes. Journal of Molecular and Cellular Cardiology, 2006, 41, 914-917.	0.9	29
185	Why the Brugada syndrome is not yet a disease: Syndromes, diseases, and genetic causality. Cardiovascular Research, 2006, 72, 361-363.	1.8	10
186	Larger Cell Size in Rabbits With Heart Failure Increases Myocardial Conduction Velocity and QRS Duration. Circulation, 2006, 113, 806-813.	1.6	97
187	Incorporated sarcolemmal fish oil fatty acids shorten pig ventricular action potentials. Cardiovascular Research, 2006, 70, 509-520.	1.8	83
188	Chronic inhibition of Na/H-exchanger attenuates cardiac hypertrophy and prevents cellular remodeling in heart failure. Cardiovascular Research, 2005, 65, 83-92.	1.8	111
189	Transmural dispersion in LQT and arrhythmogenesis. Cardiovascular Research, 2005, 68, 336-337.	1.8	5
190	Right Ventricular Fibrosis and Conduction Delay in a Patient With Clinical Signs of Brugada Syndrome. Circulation, 2005, 112, 2769-2777.	1.6	401
191	Repolarization Gradients in the Canine Left Ventricle Before and After Induction of Short-Term Cardiac Memory. Circulation, 2005, 112, 1711-1718.	1.6	104
192	T wave and dispersion of repolarization. Heart Rhythm, 2005, 2, 170-171.	0.3	3
193	Impact factors: no totum pro parte by skewness of citation. Cardiovascular Research, 2004, 61, 201-203.	1.8	25
194	Intercellular coupling through gap junctions masks M cells in the human heart. Cardiovascular Research, 2004, 62, 407-414.	1.8	98
195	Acute ischemia-induced gap junctional uncoupling and arrhythmogenesis. Cardiovascular Research, 2004, 62, 323-334.	1.8	118
196	Mechanical effects on arrhythmogenesis: from pipette to patient. Progress in Biophysics and Molecular Biology, 2003, 82, 187-195.	1.4	40
197	Electrotonic cancellation of transmural electrical gradients in the left ventricle in man. Progress in Biophysics and Molecular Biology, 2003, 82, 243-254.	1.4	52
198	Wavebreak Formation During Ventricular Fibrillation in the Isolated, Regionally Ischemic Pig Heart. Circulation Research, 2003, 92, 546-553.	2.0	107

#	Article	IF	Citations
199	Ionic Remodeling of Sinoatrial Node Cells by Heart Failure. Circulation, 2003, 108, 760-766.	1.6	102
200	Increased Na+/H+-exchange activity is the cause of increased [Na+]i and underlies disturbed calcium handling in the rabbit pressure and volume overload heart failure model. Cardiovascular Research, 2003, 57, 1015-1024.	1.8	175
201	Conduction slowing by the gap junctional uncoupler carbenoxolone. Cardiovascular Research, 2003, 60, 288-297.	1.8	82
202	[Na+]i and the driving force of the Na+/Ca2+-exchanger in heart failure. Cardiovascular Research, 2003, 57, 986-995.	1.8	81
203	Intrinsic heterogeneity in repolarization is increased in isolated failing rabbit cardiomyocytes during simulated ischemia. Cardiovascular Research, 2003, 59, 705-714.	1.8	26
204	SR calcium handling and calcium after-transients in a rabbit model of heart failure. Cardiovascular Research, 2003, 58, 99-108.	1.8	86
205	Reduced swelling-activated Clâ^' current densities in hypertrophied ventricular myocytes of rabbits with heart failure. Cardiovascular Research, 2002, 53, 869-878.	1.8	19
206	Submissions, impact factor, reviewer's recommendations and geographical bias within the peer review system (1997â€“2002) Focus on Germany. Cardiovascular Research, 2002, 55, 215-219.	1.8	12
207	The significance of the peer review process against the background of bias: priority ratings of reviewers and editors and the prediction of citation, the role of geographical bias. Cardiovascular Research, 2002, 56, 339-346.	1.8	52
208	Origin of ischemia-induced phase 1b ventricular arrhythmias in pig hearts. Journal of the American College of Cardiology, 2002, 39, 166-176.	1.2	71
209	Productivity in science: more more and more?. Cardiovascular Research, 2002, 56, 175-177.	1.8	4
210	Transmural repolarisation in the left ventricle in humans during normoxia and ischaemia. Cardiovascular Research, 2001, 50, 454-462.	1.8	147
211	Impact factor of Cardiovascular Research in 2000: all time high!. Cardiovascular Research, 2001, 50, 1-2.	1.8	4
212	KATP Channel Opening During Ischemia: Effects on Myocardial Noradrenaline Release and Ventricular Arrhythmias. Journal of Cardiovascular Pharmacology, 2001, 38, 406-416.	0.8	11
213	Arrhythmogenesis in Heart Failure. Journal of Cardiovascular Electrophysiology, 2001, 12, 496-499.	0.8	27
214	Activation Delay After Premature Stimulation in Chronically Diseased Human Myocardium Relates to the Architecture of Interstitial Fibrosis. Circulation, 2001, 104, 3069-3075.	1.6	335
215	Effects of cell-to-cell uncoupling and catecholamines on Purkinje and ventricular action potentials: implications for phase-1b arrhythmias. Cardiovascular Research, 2001, 51, 30-40.	1.8	26
216	Submissions and impact factor 1997â€“2001: Focus on Sweden. Cardiovascular Research, 2001, 51, 202-204.	1.8	4

#	Article	IF	Citations
217	Late ventricular arrhythmias during acute regional ischemia in the isolated blood perfused pig heart Role of electrical cellular coupling. Cardiovascular Research, 2001, 50, 362-372.	1.8	65
218	Defining heart failure. Cardiovascular Research, 2001, 50, 419-422.	1.8	60
219	The Arrhythmogenic Substrate in Ischemic and Non-ischemic Cardiomyopathies. Developments in Cardiovascular Medicine, 2001, , 3-11.	0.1	4
220	The normal range and determinants of the intrinsic heart rate in man. Cardiovascular Research, 2000, 45, 175-176.	1.8	7
221	Laplacian Electrograms and the Interpretation of Complex Ventricular Activation Patterns During Ventricular Fibrillation. Journal of Cardiovascular Electrophysiology, 2000, 11, 1119-1128.	0.8	45
222	Submissions, editorial process and impact factor 1992â€“2000 Focus on Europe. Cardiovascular Research, 2000, 47, 203-206.	1.8	6
223	Where do our reviewers come from?. Cardiovascular Research, 2000, 46, 1-13.	1.8	3
224	The most frequently cited papers of Cardiovascular Research (1967â€“1998) 'The Millennium Minutes'. Cardiovascular Research, 2000, 45, 3-5.	1.8	8
225	Regrets or no regrets? No regrets! The fate of rejected manuscripts. Cardiovascular Research, 2000, 45, 255-258.	1.8	42
226	Electrocardiogram of the normal mouse, Mus musculus General considerations and genetic aspects. Cardiovascular Research, 2000, 45, 229-230.	1.8	2
227	Changes in Sinus Node Function in a Rabbit Model of Heart Failure With Ventricular Arrhythmias and Sudden Death. Circulation, 2000, 101, 2975-2980.	1.6	58
228	Inhomogeneous Transmural Conduction During Early Ischaemia in Patients with Coronary Artery Disease. Journal of Molecular and Cellular Cardiology, 2000, 32, 621-630.	0.9	178
229	Intracellular Ca2+ and delay of ischemia-induced electrical uncoupling in preconditioned rabbit ventricular myocardium. Cardiovascular Research, 1999, 44, 101-112.	1.8	17
230	The role of the reviewer in editorial decision-making. Cardiovascular Research, 1999, 43, 261-264.	1.8	15
231	Effects of Intracavitary Blood Flow and Electrodeâ€“Target Distance on Radiofrequency Power Required for Transient Conduction Block in a Langendorff-Perfused Canine Model. Journal of the American College of Cardiology, 1998, 31, 231-235.	1.2	23
232	Cellular Uncoupling During Ischemia in Hypertrophied and Failing Rabbit Ventricular Myocardium. Circulation, 1998, 97, 1724-1730.	1.6	39
233	Profibrillatory Effects of Intracoronary Thrombus in Acute Regional Ischemia of the In Situ Porcine Heart. Circulation, 1997, 96, 3985-3991.	1.6	29
234	Intracellular Ca ²⁺ , Intercellular Electrical Coupling, and Mechanical Activity in Ischemic Rabbit Papillary Muscle. Circulation Research, 1996, 79, 237-246.	2.0	128

#	Article	IF	Citations
235	Ventricular Fibrillation Is Not Always Due to Multiple Wavelet Reentry. Journal of Cardiovascular Electrophysiology, 1995, 6, 512-521.	0.8	48
236	Heterogeneities in [K ⁺] _o and TQ Potential and the Inducibility of Ventricular Fibrillation During Acute Regional Ischemia in the Isolated Perfused Porcine Heart. Circulation, 1995, 92, 120-129.	1.6	48
237	Slow potentials in the atrioventricular junctional area of patients operated on for atrioventricular node tachycardias and in isolated porcine hearts. Journal of the American College of Cardiology, 1994, 23, 709-715.	1.2	24
238	R 56865 Delays Cellular Electrical Uncoupling in Ischemic Rabbit Papillary Muscle. Journal of Molecular and Cellular Cardiology, 1993, 25, 1059-1066.	0.9	6
239	Electrophysiologic Changes and Ventricular Fibrillation in Acute Regional Ischemia in the Porcine Heart: The Concept of Wavelength. Journal of Cardiovascular Electrophysiology, 1992, 3, 128-140.	0.8	9
240	Ventricular tachyrdia in the infarcted, Langendorff-perfused human heart: Role of the arrangement of surviving cardiac fibers. Journal of the American College of Cardiology, 1990, 15, 1594-1607.	1.2	240
241	Detection of Incomplete Left Bundle Branch Block by Noninvasive Electrocardiographic Imaging. , 0, , .		2