Xander H T Wehrens

List of Publications by Year in Descending Order

226 papers	13,845 citations	64 h-index	111 g-index
275 ext. papers	16,343 ext. citations	9.2 avg, IF	6.33 L-index

#	Paper	IF	Citations
226	The Role of Junctophilin Proteins in Cellular Function.. *Physiological Reviews*, **2022**,	47.9	5
225	TBX5-encoded T-box transcription factor 5 variant T223M is associated with long QT syndrome and pediatric sudden cardiac death. *American Journal of Medical Genetics, Part A*, **2021**, 185, 923-929	2.5	1
224	Inhibition of the Anti-Apoptotic Bcl-2 Family by BH3 Mimetics Sensitize the Mitochondrial Permeability Transition Pore Through Bax and Bak.. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 765973	5.7	2
223	Genetic inhibition of Nuclear Factor of Activated T-cell c2 (NFATc2) prevents atrial fibrillation in CREM transgenic mice. *Cardiovascular Research*, **2021**,	9.9	1
222	Irisin: A Promising Target for Ischemia-Reperfusion Injury Therapy. *Oxidative Medicine and Cellular Longevity*, **2021**, 2021, 5391706	6.7	0
221	SPEG: a key regulator of cardiac calcium homeostasis. *Cardiovascular Research*, **2021**, 117, 2175-2185	9.9	5
220	Reversible cardiac disease features in an inducible CUG repeat RNA-expressing mouse model of myotonic dystrophy. *JCI Insight*, **2021**, 6,	9.9	2
219	Phosphorylation-Dependent Interactome of Ryanodine Receptor Type 2 in the Heart. *Proteomes*, **2021**, 9,	4.6	1
218	Efficacy of RyR2 inhibitor EL20 in induced pluripotent stem cell-derived cardiomyocytes from a patient with catecholaminergic polymorphic ventricular tachycardia. *Journal of Cellular and Molecular Medicine*, **2021**, 25, 6115	5.6	4
217	Crucial Role of Mammalian Glutaredoxin 3 in Cardiac Energy Metabolism in Diet-induced Obese Mice Revealed by Transcriptome Analysis. *International Journal of Biological Sciences*, **2021**, 17, 2871-2883	11.2	1
216	Genetic testing in ambulatory cardiology clinics reveals high rate of findings with clinical management implications. *Genetics in Medicine*, **2021**, 23, 2404-2414	8.1	3
215	Atrial-Specific LKB1 Knockdown Represents a Novel Mouse Model of Atrial Cardiomyopathy With Spontaneous Atrial Fibrillation. *Circulation*, **2021**, 144, 909-912	16.7	2
214	Mechanisms underlying pathological Ca handling in diseases of the heart. *Pflugers Archiv European Journal of Physiology*, **2021**, 473, 331-347	4.6	5
213	Paracrine signalling by cardiac calcitonin controls atrial fibrogenesis and arrhythmia. *Nature*, **2020**, 587, 460-465	50.4	19
212	Wolff-Parkinson-White syndrome: De novo variants and evidence for mutational burden in genes associated with atrial fibrillation. *American Journal of Medical Genetics, Part A*, **2020**, 182, 1387-1399	2.5	5
211	Cardiac dysregulation following intrahippocampal kainate-induced status epilepticus. *Scientific Reports*, **2020**, 10, 4043	4.9	1
210	Nuclear localization of a novel calpain-2 mediated junctophilin-2 C-terminal cleavage peptide promotes cardiomyocyte remodeling. *Basic Research in Cardiology*, **2020**, 115, 49	11.8	20

209	Genetic basis and molecular biology of cardiac arrhythmias in cardiomyopathies. *Cardiovascular Research*, **2020**, 116, 1600-1619	9.9	15
208	Prevention of connexin-43 remodeling protects against Duchenne muscular dystrophy cardiomyopathy. *Journal of Clinical Investigation*, **2020**, 130, 1713-1727	15.9	24
207	Determinants of Ca2+ release restitution: Insights from genetically altered animals and mathematical modeling. *Journal of General Physiology*, **2020**, 152,	3.4	2
206	Targeting pathological leak of ryanodine receptors: preclinical progress and the potential impact on treatments for cardiac arrhythmias and heart failure. *Expert Opinion on Therapeutic Targets*, **2020**, 24, 25-36	6.4	22
205	Loss of SPEG Inhibitory Phosphorylation of Ryanodine Receptor Type-2 Promotes Atrial Fibrillation. *Circulation*, **2020**, 142, 1159-1172	16.7	20
204	Atrial Myocyte NLRP3/CaMKII Nexus Forms a Substrate for Postoperative Atrial Fibrillation. *Circulation Research*, **2020**, 127, 1036-1055	15.7	43
203	Calmodulin kinase II regulates atrial myocyte late sodium current, calcium handling, and atrial arrhythmia. *Heart Rhythm*, **2020**, 17, 503-511	6.7	20
202	Exercise restores dysregulated gene expression in a mouse model of arrhythmogenic cardiomyopathy. *Cardiovascular Research*, **2020**, 116, 1199-1213	9.9	18
201	Analysis of enriched rare variants in JPH2-encoded junctophilin-2 among Greater Middle Eastern individuals reveals a novel homozygous variant associated with neonatal dilated cardiomyopathy. *Scientific Reports*, **2019**, 9, 9038	4.9	12
200	Loss of Protein Phosphatase 1 Regulatory Subunit PPP1R3A Promotes Atrial Fibrillation. *Circulation* , **2019**, 140, 681-693	16.7	28
199	Cardiac-specific ablation of glutaredoxin 3 leads to cardiac hypertrophy and heart failure. *Physiological Reports*, **2019**, 7, e14071	2.6	10
198	The Role of Non-coding RNAs in Ischemic Myocardial Reperfusion Injury. *Cardiovascular Drugs and Therapy*, **2019**, 33, 489-498	3.9	15
197	Depletion of Endothelial Prolyl Hydroxylase Domain Protein 2 and 3 Promotes Cardiomyocyte Proliferation and Prevents Ventricular Failure Induced by Myocardial Infarction. *Circulation*, **2019**, 140, 440-442	16.7	8
196	Junctophilin-2 expression rescues atrial dysfunction through polyadic junctional membrane complex biogenesis. *JCI Insight*, **2019**, 4,	9.9	8
195	YAP Partially Reprograms Chromatin Accessibility to Directly Induce Adult Cardiogenesis In Vivo. *Developmental Cell*, **2019**, 48, 765-779.e7	10.2	89
194	Ablation of phospholamban rescues reperfusion arrhythmias but exacerbates myocardium infarction in hearts with Ca2+/calmodulin kinase II constitutive phosphorylation of ryanodine receptors. *Cardiovascular Research*, **2019**, 115, 556-569	9.9	15
193	Protein Phosphatase 2A Regulates Cardiac Na Channels. *Circulation Research*, **2019**, 124, 737-746	15.7	24
192	Atrial-Specific Gene Delivery Using an Adeno-Associated Viral Vector. *Circulation Research*, **2019**, 124, 256-262	15.7	29

191	Ranolazine prevents pressure overload-induced cardiac hypertrophy and heart failure by restoring aberrant Na and Ca handling. *Journal of Cellular Physiology*, **2019**, 234, 11587-11601	7	27
190	Genetics of atrial fibrillation: an update. *Current Opinion in Cardiology*, **2018**, 33, 304-310	2.1	6
189	Myocardial remodeling and susceptibility to ventricular tachycardia in a model of chronic epilepsy. *Epilepsia Open*, **2018**, 3, 213-223	4	8
188	Oxidized CaMKII (Ca/Calmodulin-Dependent Protein Kinase II) Is Essential for Ventricular Arrhythmia in a Mouse Model of Duchenne Muscular Dystrophy. *Circulation: Arrhythmia and Electrophysiology*, **2018**, 11, e005682	6.4	23
187	Rearrangement of the Protein Phosphatase 1 Interactome During Heart Failure Progression. *Circulation*, **2018**, 138, 1569-1581	16.7	8
186	EL20, a potent antiarrhythmic compound, selectively inhibits calmodulin-deficient ryanodine receptor type 2. *Heart Rhythm*, **2018**, 15, 578-586	6.7	12
185	Early effects of Epac depend on the fine-tuning of the sarcoplasmic reticulum Ca handling in cardiomyocytes. *Journal of Molecular and Cellular Cardiology*, **2018**, 114, 1-9	5.8	6
184	The Molecular Pathophysiology of Atrial Fibrillation **2018**, 396-408		
183	Mouse Models of Cardiac Arrhythmias. *Circulation Research*, **2018**, 123, 332-334	15.7	18
182	STAT3: a link between CaMKII-IV-spectrin and maladaptive remodeling?. *Journal of Clinical Investigation*, **2018**, 128, 5219-5221	15.9	4
181	Profibrotic, Electrical, and Calcium-Handling Remodeling of the Atria in Heart Failure Patients With and Without Atrial Fibrillation. *Frontiers in Physiology*, **2018**, 9, 1383	4.6	39
180	In Vivo Ryr2 Editing Corrects Catecholaminergic Polymorphic Ventricular Tachycardia. *Circulation Research*, **2018**, 123, 953-963	15.7	29
179	CRISPR -Mediated Expression of the Fetal Scn5a Isoform in Adult Mice Causes Conduction Defects and Arrhythmias. *Journal of the American Heart Association*, **2018**, 7, e010393	6	13
178	Enhanced Cardiomyocyte NLRP3 Inflammasome Signaling Promotes Atrial Fibrillation. *Circulation*, **2018**, 138, 2227-2242	16.7	174
177	Serine/Threonine Phosphatases in Atrial Fibrillation. *Journal of Molecular and Cellular Cardiology*, **2017**, 103, 110-120	5.8	25
176	Calcium-calmodulin-dependent protein kinase mediates the intracellular signalling pathways of cardiac apoptosis in mice with impaired glucose tolerance. *Journal of Physiology*, **2017**, 595, 4089-4108	3.9	36
175	Calcium-mediated cellular triggered activity in atrial fibrillation. *Journal of Physiology*, **2017**, 595, 4001-4008	3.9	32
174	Calcium Signaling and Cardiac Arrhythmias. *Circulation Research*, **2017**, 120, 1969-1993	15.7	207

173	RyR2 Tetramer Distributions in Ventricular Myocytes from Phosphomutant Mice. *Biophysical Journal*, **2017**, 112, 161a	2.9	2
172	Novel junctophilin-2 mutation A405S is associated with basal septal hypertrophy and diastolic dysfunction. *JACC Basic To Translational Science*, **2017**, 2, 56-67	8.7	14
171	Loss of glutaredoxin 3 impedes mammary lobuloalveolar development during pregnancy and lactation. *American Journal of Physiology - Endocrinology and Metabolism*, **2017**, 312, E136-E149	6	7
170	Distinct Cellular Basis for Early Cardiac Arrhythmias, the Cardinal Manifestation of Arrhythmogenic Cardiomyopathy, and the Skin Phenotype of Cardiocutaneous Syndromes. *Circulation Research*, **2017**, 121, 1346-1359	15.7	15
169	Circadian Variation of Ventricular Arrhythmias in Catecholaminergic Polymorphic Ventricular Tachycardia. *JACC: Clinical Electrophysiology*, **2017**, 3, 1308-1317	4.6	8
168	Enhanced Activation of Inflammasome Promotes Atrial Fibrillation. *Journal of Molecular and Cellular Cardiology*, **2017**, 112, 147	5.8	3
167	Treatment of catecholaminergic polymorphic ventricular tachycardia in mice using novel RyR2-modifying drugs. *International Journal of Cardiology*, **2017**, 227, 668-673	3.2	20
166	SPEG (Striated Muscle Preferentially Expressed Protein Kinase) Is Essential for Cardiac Function by Regulating Junctional Membrane Complex Activity. *Circulation Research*, **2017**, 120, 110-119	15.7	59
165	Hemodynamic and Pathologic Characterization of the TASK-1 Mouse Does Not Demonstrate Pulmonary Hypertension. *Frontiers in Medicine*, **2017**, 4, 177	4.9	14
164	Tead1 is required for maintaining adult cardiomyocyte function, and its loss results in lethal dilated cardiomyopathy. *JCI Insight*, **2017**, 2,	9.9	21
163	CaMKII-dependent phosphorylation of RyR2 promotes targetable pathological RyR2 conformational shift. *Journal of Molecular and Cellular Cardiology*, **2016**, 98, 62-72	5.8	55
162	Regulating the regulator: Insights into the cardiac protein phosphatase 1 interactome. *Journal of Molecular and Cellular Cardiology*, **2016**, 101, 165-172	5.8	25
161	Junctophilin-2 gene therapy rescues heart failure by normalizing RyR2-mediated Ca release. *International Journal of Cardiology*, **2016**, 225, 371-380	3.2	49
160	Methyl-CpG binding-protein 2 function in cholinergic neurons mediates cardiac arrhythmogenesis. *Human Molecular Genetics*, **2016**, 25, 4983-4995	5.6	11
159	Reply from Pei-Chi Yang, Jonathan D. Moreno, Mao-Tsuen Jeng, Xander H. T. Wehrens, Sergei Noskov and Colleen E. Clancy. *Journal of Physiology*, **2016**, 594, 6433-6435	3.9	1
158	Cardiac expression of the CREM repressor isoform CREM-Ib□-X in mice leads to arrhythmogenic alterations in ventricular cardiomyocytes. *Basic Research in Cardiology*, **2016**, 111, 15	11.8	16
157	Increased Reliance on Muscle-based Thermogenesis upon Acute Minimization of Brown Adipose Tissue Function. *Journal of Biological Chemistry*, **2016**, 291, 17247-57	5.4	51
156	Dysregulation of RBFOX2 Is an Early Event in Cardiac Pathogenesis of Diabetes. *Cell Reports*, **2016**, 15, 2200-2213	10.6	35

155	A Single Protein Kinase A or Calmodulin Kinase II Site Does Not Control the Cardiac Pacemaker Ca2+ Clock. *Circulation: Arrhythmia and Electrophysiology*, **2016**, 9, e003180	6.4	7
154	The value of basic research insights into atrial fibrillation mechanisms as a guide to therapeutic innovation: a critical analysis. *Cardiovascular Research*, **2016**, 109, 467-79	9.9	108
153	SRC-1 Regulates Blood Pressure and Aortic Stiffness in Female Mice. *PLoS ONE*, **2016**, 11, e0168644	3.7	5
152	Phospholamban ablation rescues the enhanced propensity to arrhythmias of mice with CaMKII-constitutive phosphorylation of RyR2 at site S2814. *Journal of Physiology*, **2016**, 594, 3005-30	3.9	18
151	Junctophilin-2 in the nanoscale organisation and functional signalling of ryanodine receptor clusters in cardiomyocytes. *Journal of Cell Science*, **2016**, 129, 4388-4398	5.3	40
150	In silico prediction of drug therapy in catecholaminergic polymorphic ventricular tachycardia. *Journal of Physiology*, **2016**, 594, 567-93	3.9	28
149	Reversible redox modifications of ryanodine receptor ameliorate ventricular arrhythmias in the ischemic-reperfused heart. *American Journal of Physiology - Heart and Circulatory Physiology*, **2016**, 311, H713-24	5.2	17
148	Leaky RyR2 channels unleash a brainstem spreading depolarization mechanism of sudden cardiac death. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E4895-903	11.5	33
147	The mitochondrial uniporter controls fight or flight heart rate increases. *Nature Communications*, **2015**, 6, 6081	17.4	106
146	Identification of microRNA-mRNA dysregulations in paroxysmal atrial fibrillation. *International Journal of Cardiology*, **2015**, 184, 190-197	3.2	32
145	CaMKII□mediates □adrenergic effects on RyR2 phosphorylation and SR Ca(2+) leak and the pathophysiological response to chronic □adrenergic stimulation. *Journal of Molecular and Cellular Cardiology*, **2015**, 85, 282-91	5.8	53
144	Hrd1 and ER-Associated Protein Degradation, ERAD, are Critical Elements of the Adaptive ER Stress Response in Cardiac Myocytes. *Circulation Research*, **2015**, 117, 536-46	15.7	64
143	Protein phosphatase 2A regulatory subunit B56□limits phosphatase activity in the heart. *Science Signaling*, **2015**, 8, ra72	8.8	37
142	Expression and function of Kv1.1 potassium channels in human atria from patients with atrial fibrillation. *Basic Research in Cardiology*, **2015**, 110, 505	11.8	25
141	Genetic deletion of Rnd3/RhoE results in mouse heart calcium leakage through upregulation of protein kinase A signaling. *Circulation Research*, **2015**, 116, e1-e10	15.7	20
140	Loss-of-Function SCN5A Mutations Associated With Sinus Node Dysfunction, Atrial Arrhythmias, and Poor Pacemaker Capture. *Circulation: Arrhythmia and Electrophysiology*, **2015**, 8, 1105-12	6.4	9
139	Treatment of cardiac arrhythmias in a mouse model of Rett syndrome with Na+-channel-blocking antiepileptic drugs. *DMM Disease Models and Mechanisms*, **2015**, 8, 363-71	4.1	12
138	Neuronally released vasoactive intestinal polypeptide alters atrial electrophysiological properties and may promote atrial fibrillation. *Heart Rhythm*, **2015**, 12, 1352-61	6.7	3

137	Crosstalk between RyR2 oxidation and phosphorylation contributes to cardiac dysfunction in mice with Duchenne muscular dystrophy. *Journal of Molecular and Cellular Cardiology*, **2015**, 89, 177-84	5.8	22
136	Increased atrial arrhythmia susceptibility induced by intense endurance exercise in mice requires TNF *Nature Communications*, **2015**, 6, 6018	17.4	92
135	Alterations in the interactome of serine/threonine protein phosphatase type-1 in atrial fibrillation patients. *Journal of the American College of Cardiology*, **2015**, 65, 163-73	15.1	31
134	PHD2/3-dependent hydroxylation tunes cardiac response to adrenergic stress via phospholamban. *Journal of Clinical Investigation*, **2015**, 125, 2759-71	15.9	24
133	Identification of MicroRNA-mRNA Dysregulations in Paroxysmal Atrial Fibrillation. *FASEB Journal*, **2015**, 29, 46.10	0.9	
132	Ryanodine receptor phosphorylation by oxidized CaMKII contributes to the cardiotoxic effects of cardiac glycosides. *Cardiovascular Research*, **2014**, 101, 165-74	9.9	36
131	Role of RyR2 phosphorylation in heart failure and arrhythmias: Controversies around ryanodine receptor phosphorylation in cardiac disease. *Circulation Research*, **2014**, 114, 1311-9; discussion 1319	15.7	101
130	Long-term simulated microgravity causes cardiac RyR2 phosphorylation and arrhythmias in mice. *International Journal of Cardiology*, **2014**, 176, 994-1000	3.2	13
129	Cellular and molecular mechanisms of atrial arrhythmogenesis in patients with paroxysmal atrial fibrillation. *Circulation*, **2014**, 129, 145-156	16.7	273
128	CaMKII-dependent phosphorylation of cardiac ryanodine receptors regulates cell death in cardiac ischemia/reperfusion injury. *Journal of Molecular and Cellular Cardiology*, **2014**, 74, 274-83	5.8	51
127	Alternative splicing regulates vesicular trafficking genes in cardiomyocytes during postnatal heart development. *Nature Communications*, **2014**, 5, 3603	17.4	98
126	Pitx2-microRNA pathway that delimits sinoatrial node development and inhibits predisposition to atrial fibrillation. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 9181-6	11.5	84
125	Emerging roles of junctophilin-2 in the heart and implications for cardiac diseases. *Cardiovascular Research*, **2014**, 103, 198-205	9.9	46
124	Calcium dysregulation in atrial fibrillation: the role of CaMKII. *Frontiers in Pharmacology*, **2014**, 5, 30	5.6	35
123	Lack of UCP3 does not affect skeletal muscle mitochondrial function under lipid-challenged conditions, but leads to sudden cardiac death. *Basic Research in Cardiology*, **2014**, 109, 447	11.8	10
122	Microtubule-mediated defects in junctophilin-2 trafficking contribute to myocyte transverse-tubule remodeling and Ca2+ handling dysfunction in heart failure. *Circulation*, **2014**, 129, 1742-50	16.7	92
121	Loss of microRNA-106b-25 cluster promotes atrial fibrillation by enhancing ryanodine receptor type-2 expression and calcium release. *Circulation: Arrhythmia and Electrophysiology*, **2014**, 7, 1214-22	6.4	78
120	Ryanodine receptor-mediated calcium leak drives progressive development of an atrial fibrillation substrate in a transgenic mouse model. *Circulation*, **2014**, 129, 1276-1285	16.7	114

119	TWIK-2 channel deficiency leads to pulmonary hypertension through a rho-kinase-mediated process. *Hypertension*, **2014**, 64, 1260-5	8.5	26
118	Reduced junctional Na+/Ca2+-exchanger activity contributes to sarcoplasmic reticulum Ca2+ leak in junctophilin-2-deficient mice. *American Journal of Physiology - Heart and Circulatory Physiology*, **2014**, 307, H1317-26	5.2	25
117	Impaired local regulation of ryanodine receptor type 2 by protein phosphatase 1 promotes atrial fibrillation. *Cardiovascular Research*, **2014**, 103, 178-87	9.9	49
116	Oxidative stress and ca(2+) release events in mouse cardiomyocytes. *Biophysical Journal*, **2014**, 107, 2815-28276	3.9	
115	The junctophilin family of proteins: from bench to bedside. *Trends in Molecular Medicine*, **2014**, 20, 353-62	11.5	44
114	Overexpression of cAMP-response element modulator causes abnormal growth and development of the atrial myocardium resulting in a substrate for sustained atrial fibrillation in mice. *International Journal of Cardiology*, **2013**, 166, 366-74	3.2	38
113	Inhibition of CaMKII phosphorylation of RyR2 prevents inducible ventricular arrhythmias in mice with Duchenne muscular dystrophy. *Heart Rhythm*, **2013**, 10, 592-9	6.7	36
112	Worsening renal function is not associated with response to treatment in acute heart failure. *International Journal of Cardiology*, **2013**, 167, 1912-7	3.2	19
111	Atrial identity is determined by a COUP-TFII regulatory network. *Developmental Cell*, **2013**, 25, 417-26	10.2	80
110	Mutation E169K in junctophilin-2 causes atrial fibrillation due to impaired RyR2 stabilization. *Journal of the American College of Cardiology*, **2013**, 62, 2010-9	15.1	120
109	Alterations in ryanodine receptors and related proteins in heart failure. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2013**, 1832, 2425-31	6.9	28
108	Junctophilin-2 is necessary for T-tubule maturation during mouse heart development. *Cardiovascular Research*, **2013**, 100, 44-53	9.9	73
107	Critical roles of junctophilin-2 in T-tubule and excitation-contraction coupling maturation during postnatal development. *Cardiovascular Research*, **2013**, 100, 54-62	9.9	67
106	Oxidized Ca(2+)/calmodulin-dependent protein kinase II triggers atrial fibrillation. *Circulation*, **2013**, 128, 1748-57	16.7	186
105	Epac2 mediates cardiac β1-adrenergic-dependent sarcoplasmic reticulum Ca2+ leak and arrhythmia. *Circulation*, **2013**, 127, 913-22	16.7	117
104	184. *Critical Care Medicine*, **2013**, 41, A40	1.4	
103	microRNA-22 promotes heart failure through coordinate suppression of PPAR/ERR-nuclear hormone receptor transcription. *PLoS ONE*, **2013**, 8, e75882	3.7	59
102	Effects of CaMKII-mediated phosphorylation of ryanodine receptor type 2 on islet calcium handling, insulin secretion, and glucose tolerance. *PLoS ONE*, **2013**, 8, e58655	3.7	36

101	Ca2+ Release Channels (Ryanodine Receptors) and Arrhythmogenesis **2013**, 281-297		1
100	CaMKII effects on inotropic but not lusitropic force frequency responses require phospholamban. *Journal of Molecular and Cellular Cardiology*, **2012**, 53, 429-36	5.8	16
99	CaMKII inhibition rescues proarrhythmic phenotypes in the model of human ankyrin-B syndrome. *Heart Rhythm*, **2012**, 9, 2034-41	6.7	34
98	Circadian rhythms govern cardiac repolarization and arrhythmogenesis. *Nature*, **2012**, 483, 96-9	50.4	241
97	Impact of noncardiac comorbidities on morbidity and mortality in a predominantly male population with heart failure and preserved versus reduced ejection fraction. *Journal of the American College of Cardiology*, **2012**, 59, 998-1005	15.1	455
96	Nanoscale organization of junctophilin-2 and ryanodine receptors within peripheral couplings of rat ventricular cardiomyocytes. *Biophysical Journal*, **2012**, 102, L19-21	2.9	46
95	Human stanniocalcin-1 suppresses angiotensin II-induced superoxide generation in cardiomyocytes through UCP3-mediated anti-oxidant pathway. *PLoS ONE*, **2012**, 7, e36994	3.7	24
94	Targeted deletion of microRNA-22 promotes stress-induced cardiac dilation and contractile dysfunction. *Circulation*, **2012**, 125, 2751-61	16.7	134
93	Enhanced sarcoplasmic reticulum Ca2+ leak and increased Na+-Ca2+ exchanger function underlie delayed afterdepolarizations in patients with chronic atrial fibrillation. *Circulation*, **2012**, 125, 2059-70	16.7	395
92	Role of RyR2 phosphorylation at S2814 during heart failure progression. *Circulation Research*, **2012**, 110, 1474-83	15.7	158
91	Inhibition of CaMKII phosphorylation of RyR2 prevents induction of atrial fibrillation in FKBP12.6 knockout mice. *Circulation Research*, **2012**, 110, 465-70	15.7	109
90	Association of systolic blood pressure with mortality in patients with heart failure with reduced ejection fraction: a complex relationship. *American Heart Journal*, **2011**, 161, 567-73	4.9	43
89	Digoxin treatment in heart failure--unveiling risk by cluster analysis of DIG data. *International Journal of Cardiology*, **2011**, 150, 264-9	3.2	15
88	Calcium-calmodulin dependent protein kinase II (CaMKII): a main signal responsible for early reperfusion arrhythmias. *Journal of Molecular and Cellular Cardiology*, **2011**, 51, 936-44	5.8	65
87	Ryanodine receptor phosphorylation, calcium/calmodulin-dependent protein kinase II, and life-threatening ventricular arrhythmias. *Trends in Cardiovascular Medicine*, **2011**, 21, 48-51	6.9	16
86	The ryanodine receptor channel as a molecular motif in atrial fibrillation: pathophysiological and therapeutic implications. *Cardiovascular Research*, **2011**, 89, 734-43	9.9	80
85	CaMKII regulation of the cardiac ryanodine receptor and sarcoplasmic reticulum calcium release. *Heart Rhythm*, **2011**, 8, 323-5	6.7	21
84	Targeting ryanodine receptors for anti-arrhythmic therapy. *Acta Pharmacologica Sinica*, **2011**, 32, 749-578		26

83	Defects in ankyrin-based membrane protein targeting pathways underlie atrial fibrillation. *Circulation*, **2011**, 124, 1212-22	16.7	78
82	Junctophilin-2 expression silencing causes cardiocyte hypertrophy and abnormal intracellular calcium-handling. *Circulation: Heart Failure*, **2011**, 4, 214-23	7.6	80
81	Disrupted junctional membrane complexes and hyperactive ryanodine receptors after acute junctophilin knockdown in mice. *Circulation*, **2011**, 123, 979-88	16.7	174
80	Pathogenesis of lethal cardiac arrhythmias in Mecp2 mutant mice: implication for therapy in Rett syndrome. *Science Translational Medicine*, **2011**, 3, 113ra125	17.5	57
79	Stress synchronizes calcium release and promotes SR calcium leak. *Journal of Physiology*, **2010**, 588, 391-2	3.9	3
78	Accelerated development of pressure overload-induced cardiac hypertrophy and dysfunction in an RyR2-R176Q knockin mouse model. *Hypertension*, **2010**, 55, 932-8	8.5	53
77	Heart-specific overexpression of CUGBP1 reproduces functional and molecular abnormalities of myotonic dystrophy type 1. *Human Molecular Genetics*, **2010**, 19, 1066-75	5.6	118
76	Ryanodine receptor phosphorylation by calcium/calmodulin-dependent protein kinase II promotes life-threatening ventricular arrhythmias in mice with heart failure. *Circulation*, **2010**, 122, 2669-79	16.7	207
75	Genetic inhibition of PKA phosphorylation of RyR2 prevents dystrophic cardiomyopathy. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 13165-70	11.5	37
74	Pitx2 prevents susceptibility to atrial arrhythmias by inhibiting left-sided pacemaker specification. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 9753-8	11.5	212
73	Emerging role of junctophilin-2 as a regulator of calcium handling in the heart. *Acta Pharmacologica Sinica*, **2010**, 31, 1019-21	8	24
72	Transverse aortic constriction in mice. *Journal of Visualized Experiments*, **2010**,	1.6	127
71	Ambulatory ECG recording in mice. *Journal of Visualized Experiments*, **2010**,	1.6	10
70	Programmed electrical stimulation in mice. *Journal of Visualized Experiments*, **2010**,	1.6	26
69	Transthoracic echocardiography in mice. *Journal of Visualized Experiments*, **2010**,	1.6	38
68	Calmodulin kinase II, sarcoplasmic reticulum Ca2+ leak, and atrial fibrillation. *Trends in Cardiovascular Medicine*, **2010**, 20, 30-4	6.9	29
67	Role of abnormal sarcoplasmic reticulum function in atrial fibrillation. *Therapy: Open Access in Clinical Medicine*, **2010**, 7, 147-158		4
66	Calmodulin kinase II is required for fight or flight sinoatrial node physiology. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 5972-7	11.5	112

65	Exercise training during diabetes attenuates cardiac ryanodine receptor dysregulation. *Journal of Applied Physiology*, **2009**, 106, 1280-92	3.7	74
64	Molecular evolution of the junctophilin gene family. *Physiological Genomics*, **2009**, 37, 175-86	3.6	60
63	Sudden infant death syndrome in mice with an inherited mutation in RyR2. *Circulation: Arrhythmia and Electrophysiology*, **2009**, 2, 677-85	6.4	18
62	Computational and experimental models of Ca2+-dependent arrhythmias. *Drug Discovery Today: Disease Models*, **2009**, 6, 57-61	1.3	
61	Animal models of arrhythmogenic cardiomyopathy. *DMM Disease Models and Mechanisms*, **2009**, 2, 563-70	4.1	32
60	20p12.3 microdeletion predisposes to Wolff-Parkinson-White syndrome with variable neurocognitive deficits. *Journal of Medical Genetics*, **2009**, 46, 168-75	5.8	53
59	Calmodulin kinase II-mediated sarcoplasmic reticulum Ca2+ leak promotes atrial fibrillation in mice. *Journal of Clinical Investigation*, **2009**, 119, 1940-51	15.9	279
58	PKC inhibition ameliorates the cardiac phenotype in a mouse model of myotonic dystrophy type 1. *Journal of Clinical Investigation*, **2009**, 119, 3797-806	15.9	85
57	Alternative splicing: a key mechanism for ankyrin-B functional diversity?. *Journal of Molecular and Cellular Cardiology*, **2008**, 45, 709-11	5.8	3
56	Intracellular calcium leak due to FKBP12.6 deficiency in mice facilitates the inducibility of atrial fibrillation. *Heart Rhythm*, **2008**, 5, 1047-54	6.7	100
55	NFATc2 is a necessary mediator of calcineurin-dependent cardiac hypertrophy and heart failure. *Journal of Biological Chemistry*, **2008**, 283, 22295-303	5.4	109
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