Xander H T Wehrens

List of Publications by Year
in descending order

264 papers	18,152 citations	11608 70 h-index	15683 125 g-index
275 all docs	275 docs citations	275 times ranked	15196 citing authors

#	Article	IF	Citations
1	FKBP12.6 Deficiency and Defective Calcium Release Channel (Ryanodine Receptor) Function Linked to Exercise-Induced Sudden Cardiac Death. Cell, 2003, 113, 829-840.	13.5	683
2	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.	1.2	578
3	Ca 2+ /Calmodulin-Dependent Protein Kinase II Phosphorylation Regulates the Cardiac Ryanodine Receptor. Circulation Research, 2004, 94, e61-70.	2.0	539
4	Enhanced Sarcoplasmic Reticulum Ca ²⁺ Leak and Increased Na ⁺ -Ca ²⁺ Exchanger Function Underlie Delayed Afterdepolarizations in Patients With Chronic Atrial Fibrillation. Circulation, 2012, 125, 2059-2070.	1.6	523
5	Phosphodiesterase 4D Deficiency in the Ryanodine-Receptor Complex Promotes Heart Failure and Arrhythmias. Cell, 2005, 123, 25-35.	13.5	453
6	Protection from Cardiac Arrhythmia Through Ryanodine Receptor-Stabilizing Protein Calstabin2. Science, 2004, 304, 292-296.	6.0	431
7	Cellular and Molecular Mechanisms of Atrial Arrhythmogenesis in Patients With Paroxysmal Atrial Fibrillation. Circulation, 2014, 129, 145-156.	1.6	386
8	Enhanced Cardiomyocyte NLRP3 Inflammasome Signaling Promotes Atrial Fibrillation. Circulation, 2018, 138, 2227-2242.	1.6	376
9	Calcium Signaling and Cardiac Arrhythmias. Circulation Research, 2017, 120, 1969-1993.	2.0	368
10	Calmodulin kinase IIâ€“mediated sarcoplasmic reticulum Ca2+ leak promotes atrial fibrillation in mice. Journal of Clinical Investigation, 2009, 119, 1940-51.	3.9	338
11	Defective Cardiac Ryanodine Receptor Regulation During Atrial Fibrillation. Circulation, 2005, 111, 2025-2032.	1.6	329
12	Ryanodine receptor/calcium release channel PKA phosphorylation: A critical mediator of heart failure progression. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 511-518.	3.3	323
13	INTRACELLULAR CALCIUM RELEASE AND CARDIAC DISEASE. Annual Review of Physiology, 2005, 67, 69-98.	5.6	312
14	Circadian rhythms govern cardiac repolarization and arrhythmogenesis. Nature, 2012, 483, 96-99.	13.7	311
15	Sudden Death in Familial Polymorphic Ventricular Tachycardia Associated With Calcium Release Channel (Ryanodine Receptor) Leak. Circulation, 2004, 109, 3208-3214.	1.6	308
16	<i>Pitx2</i> 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, 9753-9758.	3.3	283
17	Î²-Blockers Restore Calcium Release Channel Function and Improve Cardiac Muscle Performance in Human Heart Failure. Circulation, 2003, 107, 2459-2466.	1.6	281
18	Ryanodine Receptor Phosphorylation by Calcium/Calmodulin-Dependent Protein Kinase II Promotes Life-Threatening Ventricular Arrhythmias in Mice With Heart Failure. Circulation, 2010, 122, 2669-2679.	1.6	261

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19	Oxidized Ca ²⁺ /Calmodulin-Dependent Protein Kinase II Triggers Atrial Fibrillation. Circulation, 2013, 128, 1748-1757.	1.6	256
20	Disrupted Junctional Membrane Complexes and Hyperactive Ryanodine Receptors After Acute Junctophilin Knockdown in Mice. Circulation, 2011, 123, 979-988.	1.6	224
21	Stabilization of cardiac ryanodine receptor prevents intracellular calcium leak and arrhythmias. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 7906-7910.	3.3	209
22	Role of RyR2 Phosphorylation at S2814 During Heart Failure Progression. Circulation Research, 2012, 110, 1474-1483.	2.0	187
23	Mice with the R176Q cardiac ryanodine receptor mutation exhibit catecholamine-induced ventricular tachycardia and cardiomyopathy. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 12179-12184.	3.3	172
24	YAP Partially Reprograms Chromatin Accessibility to Directly Induce Adult Cardiogenesis InÂVivo. Developmental Cell, 2019, 48, 765-779.e7.	3.1	171
25	The value of basic research insights into atrial fibrillation mechanisms as a guide to therapeutic innovation: a critical analysis. Cardiovascular Research, 2016, 109, 467-479.	1.8	166
26	Mutations in JPH2-encoded junctophilin-2 associated with hypertrophic cardiomyopathy in humans. Journal of Molecular and Cellular Cardiology, 2007, 42, 1026-1035.	0.9	165
27	Mutation E169K in Junctophilin-2 Causes Atrial Fibrillation Due to Impaired RyR2 Stabilization. Journal of the American College of Cardiology, 2013, 62, 2010-2019.	1.2	165
28	Transverse Aortic Constriction in Mice. Journal of Visualized Experiments, 2010, , .	0.2	163
29	Targeted Deletion of MicroRNA-22 Promotes Stress-Induced Cardiac Dilation and Contractile Dysfunction. Circulation, 2012, 125, 2751-2761.	1.6	161
30	Enhancing calstabin binding to ryanodine receptors improves cardiac and skeletal muscle function in heart failure. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9607-9612.	3.3	160
31	Ryanodine Receptorâ€"Mediated Calcium Leak Drives Progressive Development of an Atrial Fibrillation Substrate in a Transgenic Mouse Model. Circulation, 2014, 129, 1276-1285.	1.6	160
32	Role of RyR2 Phosphorylation in Heart Failure and Arrhythmias. Circulation Research, 2014, 114, 1311-1319.	2.0	152
33	Atrial Myocyte NLRP3/CaMKII Nexus Forms a Substrate for Postoperative Atrial Fibrillation. Circulation Research, 2020, 127, 1036-1055.	2.0	152
34	Increased atrial arrhythmia susceptibility induced by intense endurance exercise in mice requires TNFÎ±. Nature Communications, 2015, 6, 6018.	5.8	148
35	Epac2 Mediates Cardiac Î²1-Adrenergicâ€"Dependent Sarcoplasmic Reticulum Ca ²⁺ Leak and Arrhythmia. Circulation, 2013, 127, 913-922.	1.6	145
36	Inhibition of CaMKII Phosphorylation of RyR2 Prevents Induction of Atrial Fibrillation in FKBP12.6 Knockout Mice. Circulation Research, 2012, 110, 465-470.	2.0	140

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37	Non-Equilibrium Gating in Cardiac Na + Channels. Circulation, 2003, 107, 2233-2237.	1.6	136
38	NFATc2 Is a Necessary Mediator of Calcineurin-dependent Cardiac Hypertrophy and Heart Failure. Journal of Biological Chemistry, 2008, 283, 22295-22303.	1.6	136
39	Alternative splicing regulates vesicular trafficking genes in cardiomyocytes during postnatal heart development. Nature Communications, 2014, 5, 3603.	5.8	133
40	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, 5972-5977.	3.3	130
41	Heart-specific overexpression of CUGBP1 reproduces functional and molecular abnormalities of myotonic dystrophy type 1. Human Molecular Genetics, 2010, 19, 1066-1075.	1.4	130
42	The mitochondrial uniporter controls fight or flight heart rate increases. Nature Communications, 2015, 6, 6081.	5.8	126
43	Altered function and regulation of cardiac ryanodine receptors in cardiac disease. Trends in Biochemical Sciences, 2003, 28, 671-678.	3.7	117
44	Intracellular calcium leak due to FKBP12.6 deficiency in mice facilitates the inducibility of atrial fibrillation. Heart Rhythm, 2008, 5, 1047-1054.	0.3	116
45	Atrial Identity Is Determined by a COUP-TFII Regulatory Network. Developmental Cell, 2013, 25, 417-426.	3.1	116
46	Microtubule-Mediated Defects in Junctophilin-2 Trafficking Contribute to Myocyte Transverse-Tubule Remodeling and Ca ²⁺ Handling Dysfunction in Heart Failure. Circulation, 2014, 129, 1742-1750.	1.6	116
47	Novel Arrhythmogenic Mechanism Revealed by a Long-QT Syndrome Mutation in the Cardiac Na+Channel. Circulation Research, 2001, 88, 740-745.	2.0	114
48	Novel therapeutic approaches for heart failure by normalizing calcium cycling. Nature Reviews Drug Discovery, 2004, 3, 565-574.	21.5	109
49	<i>Pitx2</i> -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, 9181-9186.	3.3	109
50	PKC inhibition ameliorates the cardiac phenotype in a mouse model of myotonic dystrophy type 1. Journal of Clinical Investigation, 2009, 119, 3797-3806.	3.9	109
51	Defects in Ankyrin-Based Membrane Protein Targeting Pathways Underlie Atrial Fibrillation. Circulation, 2011, 124, 1212-1222.	1.6	102
52	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, 1214-1222.	2.1	101
53	The ryanodine receptor channel as a molecular motif in atrial fibrillation: pathophysiological and therapeutic implications. Cardiovascular Research, 2011, 89, 734-743.	1.8	98
54	Junctophilin-2 is necessary for T-tubule maturation during mouse heart development. Cardiovascular Research, 2013, 100, 44-53.	1.8	98

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55	Junctophilin-2 Expression Silencing Causes Cardiocyte Hypertrophy and Abnormal Intracellular Calcium-Handling. Circulation: Heart Failure, 2011, 4, 214-223.	1.6	92
56	Critical roles of junctophilin-2 in T-tubule and excitationâ€“contraction coupling maturation during postnatal development. Cardiovascular Research, 2013, 100, 54-62.	1.8	89
57	Hrd1 and ER-Associated Protein Degradation, ERAD, Are Critical Elements of the Adaptive ER Stress Response in Cardiac Myocytes. Circulation Research, 2015, 117, 536-546.	2.0	89
58	SPEG (Striated Muscle Preferentially Expressed Protein Kinase) Is Essential for Cardiac Function by Regulating Junctional Membrane Complex Activity. Circulation Research, 2017, 120, 110-119.	2.0	86
59	Molecular Pharmacology of the Sodium Channel Mutation D1790G Linked to the Long-QT Syndrome. Circulation, 2000, 102, 921-925.	1.6	85
60	Exercise training during diabetes attenuates cardiac ryanodine receptor dysregulation. Journal of Applied Physiology, 2009, 106, 1280-1292.	1.2	82
61	K+CHANNELSTRUCTURE-ACTIVITYRELATIONSHIPS ANDMECHANISMS OFDRUG-INDUCEDQT PROLONGATION. Annual Review of Pharmacology and Toxicology, 2003, 43, 441-461.	4.2	81
62	CaMKII-dependent phosphorylation of RyR2 promotes targetable pathological RyR2 conformational shift. Journal of Molecular and Cellular Cardiology, 2016, 98, 62-72.	0.9	80
63	Cardiac Ryanodine Receptor Function and Regulation in Heart Disease. Annals of the New York Academy of Sciences, 2004, 1015, 144-159.	1.8	78
64	Cardiac rupture complicating myocardial infarction. International Journal of Cardiology, 2004, 95, 285-292.	0.8	78
65	Increased Reliance on Muscle-based Thermogenesis upon Acute Minimization of Brown Adipose Tissue Function. Journal of Biological Chemistry, 2016, 291, 17247-17257.	1.6	78
66	Calstabin deficiency, ryanodine receptors, and sudden cardiac death. Biochemical and Biophysical Research Communications, 2004, 322, 1267-1279.	1.0	77
67	Analysis of calstabin2 (FKBP12.6)-ryanodine receptor interactions: Rescue of heart failure by calstabin2 in mice. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 3456-3461.	3.3	77
68	Profibrotic, Electrical, and Calcium-Handling Remodeling of the Atria in Heart Failure Patients With and Without Atrial Fibrillation. Frontiers in Physiology, 2018, 9, 1383.	1.3	77
69	Calcium-calmodulin dependent protein kinase II (CaMKII): A main signal responsible for early reperfusion arrhythmias. Journal of Molecular and Cellular Cardiology, 2011, 51, 936-944.	0.9	76
70	Molecular evolution of the junctophilin gene family. Physiological Genomics, 2009, 37, 175-186.	1.0	75
71	Junctophilin-2 gene therapy rescues heart failure by normalizing RyR2-mediated Ca2+ release. International Journal of Cardiology, 2016, 225, 371-380.	0.8	73
72	Pathogenesis of Lethal Cardiac Arrhythmias in <i>Mecp2</i> Mutant Mice: Implication for Therapy in Rett Syndrome. Science Translational Medicine, 2011, 3, 113ra125.	5.8	72

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73	microRNA-22 Promotes Heart Failure through Coordinate Suppression of PPAR/ERR-Nuclear Hormone Receptor Transcription. PLoS ONE, 2013, 8, e75882.	1.1	72
74	CaMKIIÎ´ mediates Î²-adrenergic effects on RyR2 phosphorylation and SR Ca2+ leak and the pathophysiological response to chronic Î²-adrenergic stimulation. Journal of Molecular and Cellular Cardiology, 2015, 85, 282-291.	0.9	69
75	Mouse electrocardiography An interval of thirty years. Cardiovascular Research, 2000, 45, 231-237.	1.8	68
76	Emerging roles of junctophilin-2 in the heart and implications for cardiac diseases. Cardiovascular Research, 2014, 103, 198-205.	1.8	68
77	In Vivo <i>Ryr</i> 2 Editing Corrects Catecholaminergic Polymorphic Ventricular Tachycardia. Circulation Research, 2018, 123, 953-963.	2.0	63
78	20p12.3 microdeletion predisposes to Wolff-Parkinson-White syndrome with variable neurocognitive deficits. Journal of Medical Genetics, 2008, 46, 168-175.	1.5	61
79	CaMKII-dependent phosphorylation of cardiac ryanodine receptors regulates cell death in cardiac ischemia/reperfusion injury. Journal of Molecular and Cellular Cardiology, 2014, 74, 274-283.	0.9	61
80	Association of systolic blood pressure with mortality in patients with heart failure with reduced ejection fraction: A complex relationship. American Heart Journal, 2011, 161, 567-573.	1.2	60
81	The junctophilin family of proteins: from bench to bedside. Trends in Molecular Medicine, 2014, 20, 353-362.	3.5	60
82	Dysregulation of RBFOX2 Is an Early Event in Cardiac Pathogenesis of Diabetes. Cell Reports, 2016, 15, 2200-2213.	2.9	60
83	Novel Insights in the Congenital Long QT Syndrome. Annals of Internal Medicine, 2002, 137, 981.	2.0	59
84	Accelerated Development of Pressure Overloadâ€"Induced Cardiac Hypertrophy and Dysfunction in an RyR2-R176Q Knockin Mouse Model. Hypertension, 2010, 55, 932-938.	1.3	57
85	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, 366-374.	0.8	57
86	Calciumâ€mediated cellular triggered activity in atrial fibrillation. Journal of Physiology, 2017, 595, 4001-4008.	1.3	57
87	A comparison of electrocardiographic changes during reperfusion of acute myocardial infarction by thrombolysis or percutaneous transluminal coronary angioplasty. American Heart Journal, 2000, 139, 430-436.	1.2	56
88	Impaired local regulation of ryanodine receptor type 2 by protein phosphatase 1 promotes atrial fibrillation. Cardiovascular Research, 2014, 103, 178-187.	1.8	56
89	Smoothelin Expression Characteristics: Development of a Smooth Muscle Cell in vitro System and Identification of a Vascular Variant.. Cell Structure and Function, 1997, 22, 65-72.	0.5	56
90	Calcium dysregulation in atrial fibrillation: the role of CaMKII. Frontiers in Pharmacology, 2014, 5, 30.	1.6	55

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91	Paracrine signalling by cardiac calcitonin controls atrial fibrogenesis and arrhythmia. Nature, 2020, 587, 460-465.	13.7	55
92	Nanoscale Organization of Junctophilin-2 and Ryanodine Receptors within Peripheral Couplings of Rat Ventricular Cardiomyocytes. Biophysical Journal, 2012, 102, L19-L21.	0.2	54
93	Loss of SPEG Inhibitory Phosphorylation of Ryanodine Receptor Type-2 Promotes Atrial Fibrillation. Circulation, 2020, 142, 1159-1172.	1.6	54
94	Junctophilin-2 in the nanoscale organisation and functional signalling of ryanodine receptor clusters in cardiomyocytes. Journal of Cell Science, 2016, 129, 4388-4398.	1.2	53
95	Prevention of connexin-43 remodeling protects against Duchenne muscular dystrophy cardiomyopathy. Journal of Clinical Investigation, 2020, 130, 1713-1727.	3.9	52
96	Angiogenesis-independent cardioprotection in FGF-1 transgenic mice. Cardiovascular Research, 2002, 55, 768-777.	1.8	51
97	Ryanodine Receptor-Targeted Anti-Arrhythmic Therapy. Annals of the New York Academy of Sciences, 2005, 1047, 366-375.	1.8	51
98	Transthoracic Echocardiography in Mice. Journal of Visualized Experiments, 2010, , .	0.2	50
99	Atrial-Specific Gene Delivery Using an Adeno-Associated Viral Vector. Circulation Research, 2019, 124, 256-262.	2.0	48
100	Loss of Protein Phosphatase 1 Regulatory Subunit PPP1R3A Promotes Atrial Fibrillation. Circulation, 2019, 140, 681-693.	1.6	47
101	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, 13165-13170.	3.3	46
102	Identification of microRNAâ€“mRNA dysregulations in paroxysmal atrial fibrillation. International Journal of Cardiology, 2015, 184, 190-197.	0.8	46
103	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.	3.3	46
104	Calciumâ€calmodulinâ€dependent protein kinase mediates the intracellular signalling pathways of cardiac apoptosis in mice with impaired glucose tolerance. Journal of Physiology, 2017, 595, 4089-4108.	1.3	46
105	Ranolazine prevents pressure overloadâ€induced cardiac hypertrophy and heart failure by restoring aberrant Na⁺ and Ca²⁺ handling. Journal of Cellular Physiology, 2019, 234, 11587-11601.	2.0	46
106	Phosphorylation of RyR2 and shortening of RyR2 cluster spacing in spontaneously hypertensive rat with heart failure. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H2409-H2417.	1.5	45
107	Protein phosphatase 2A regulatory subunit B56Î± limits phosphatase activity in the heart. Science Signaling, 2015, 8, ra72.	1.6	45
108	Exercise restores dysregulated gene expression in a mouse model of arrhythmogenic cardiomyopathy. Cardiovascular Research, 2020, 116, 1199-1213.	1.8	44

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109	Inhibition of CaMKII phosphorylation of RyR2 prevents inducible ventricular arrhythmias in mice with Duchenne muscular dystrophy. Heart Rhythm, 2013, 10, 592-599.	0.3	43
110	Effects of CaMKII-Mediated Phosphorylation of Ryanodine Receptor Type 2 on Islet Calcium Handling, Insulin Secretion, and Glucose Tolerance. PLoS ONE, 2013, 8, e58655.	1.1	43
111	Sarcoplasmic reticulum calcium leak and cardiac arrhythmias. Biochemical Society Transactions, 2007, 35, 952-956.	1.6	42
112	CaMKII inhibition rescues proarrhythmic phenotypes in the model of human ankyrin-B syndrome. Heart Rhythm, 2012, 9, 2034-2041.	0.3	42
113	Tead1 is required for maintaining adult cardiomyocyte function, and its loss results in lethal dilated cardiomyopathy. JCI Insight, 2017, 2, .	2.3	42
114	Ryanodine receptor phosphorylation by oxidized CaMKII contributes to the cardiotoxic effects of cardiac glycosides. Cardiovascular Research, 2014, 101, 165-174.	1.8	41
115	Fetal cardiovascular response to large placental chorioangiomas. Journal of Perinatal Medicine, 2004, 32, 107-12.	0.6	40
116	Oxidized CaMKII (Ca ²⁺ /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.	2.1	39
117	Programmed Electrical Stimulation in Mice. Journal of Visualized Experiments, 2010, , .	0.2	38
118	Alterations in the Interactome of Serine/Threonine Protein Phosphatase Type-1 in Atrial Fibrillation Patients. Journal of the American College of Cardiology, 2015, 65, 163-173.	1.2	38
119	Calmodulin Kinase II, Sarcoplasmic Reticulum Ca2+ Leak, and Atrial Fibrillation. Trends in Cardiovascular Medicine, 2010, 20, 30-34.	2.3	37
120	TWIK-2 Channel Deficiency Leads to Pulmonary Hypertension Through a Rho-Kinaseâ€“Mediated Process. Hypertension, 2014, 64, 1260-1265.	1.3	37
121	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.	1.5	37
122	Animal models of arrhythmogenic cardiomyopathy. DMM Disease Models and Mechanisms, 2009, 2, 563-570.	1.2	36
123	Targeting ryanodine receptors for anti-arrhythmic therapy. Acta Pharmacologica Sinica, 2011, 32, 749-757.	2.8	36
124	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-H1326.	1.5	36
125	Mouse Models of Cardiac Arrhythmias. Circulation Research, 2018, 123, 332-334.	2.0	36
126	Nuclear localization of a novel calpain-2 mediated junctophilin-2 C-terminal cleavage peptide promotes cardiomyocyte remodeling. Basic Research in Cardiology, 2020, 115, 49.	2.5	36

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127	PHD2/3-dependent hydroxylation tunes cardiac response to Î^{2}-adrenergic stress via phospholamban. Journal of Clinical Investigation, 2015, 125, 2759-2771.	3.9	36
128	Expression and function of Kv1.1 potassium channels in human atria from patients with atrial fibrillation. Basic Research in Cardiology, 2015, 110, 505.	2.5	35
129	<i>In silico</i> prediction of drug therapy in catecholaminergic polymorphic ventricular tachycardia. Journal of Physiology, 2016, 594, 567-593.	1.3	35
130	Alterations in ryanodine receptors and related proteins in heart failure. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2013, 1832, 2425-2431.	1.8	34
131	Serine/Threonine Phosphatases in Atrial Fibrillation. Journal of Molecular and Cellular Cardiology, 2017, 103, 110-120.	0.9	34
132	Protein Phosphatase 2A Regulates Cardiac Na ⁺ Channels. Circulation Research, 2019, 124, 737-746.	2.0	34
133	Calmodulin kinase II regulates atrial myocyte late sodium current, calcium handling, and atrial arrhythmia. Heart Rhythm, 2020, 17, 503-511.	0.3	34
134	Localization of smoothelin in avian smooth muscle and identification of a vascular-specific isoform. FEBS Letters, 1997, 405, 315-320.	1.3	33
135	A Novel mutation L619F in the cardiac Na channel SCN5A associated with long-QT syndrome (LQT3): a role for the I-II linker in inactivation gating. Human Mutation, 2003, 21, 552-552.	1.1	33
136	The molecular basis of catecholaminergic polymorphic ventricular tachycardia: What are the different hypotheses regarding mechanisms?. Heart Rhythm, 2007, 4, 794-797.	0.3	29
137	Genetic Deletion of Rnd3/RhoE Results in Mouse Heart Calcium Leakage Through Upregulation of Protein Kinase A Signaling. Circulation Research, 2015, 116, e1-e10.	2.0	29
138	Emerging role of junctophilin-2 as a regulator of calcium handling in the heart. Acta Pharmacologica Sinica, 2010, 31, 1019-1021.	2.8	28
139	Genetic basis and molecular biology of cardiac arrhythmias in cardiomyopathies. Cardiovascular Research, 2020, 116, 1600-1619.	1.8	28
140	Defective Ryanodine Receptor Interdomain Interactions May Contribute to Intracellular Ca 2+ Leak. Circulation, 2005, 111, 3342-3346.	1.6	27
141	Human Stanniocalcin-1 Suppresses Angiotensin II-Induced Superoxide Generation in Cardiomyocytes through UCP3-Mediated Anti-Oxidant Pathway. PLoS ONE, 2012, 7, e36994.	1.1	27
142	Regulating the regulator: Insights into the cardiac protein phosphatase 1 interactome. Journal of Molecular and Cellular Cardiology, 2016, 101, 165-172.	0.9	27
143	Treatment of catecholaminergic polymorphic ventricular tachycardia in mice using novel RyR2-modifying drugs. International Journal of Cardiology, 2017, 227, 668-673.	0.8	27
144	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.	1.8	27

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145	CaMKII regulation of the cardiac ryanodine receptor and sarcoplasmic reticulum calcium release. Heart Rhythm, 2011, 8, 323-325.	0.3	26
146	Crosstalk between RyR2 oxidation and phosphorylation contributes to cardiac dysfunction in mice with Duchenne muscular dystrophy. Journal of Molecular and Cellular Cardiology, 2015, 89, 177-184.	0.9	26
147	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.	2.0	26
148	EL20, a potent antiarrhythmic compound, selectively inhibits calmodulin-deficient ryanodine receptor type 2. Heart Rhythm, 2018, 15, 578-586.	0.3	26
149	Sudden Infant Death Syndrome in Mice With an Inherited Mutation in <i>RyR2</i>. Circulation: Arrhythmia and Electrophysiology, 2009, 2, 677-685.	2.1	25
150	The role of junctophilin proteins in cellular function. Physiological Reviews, 2022, 102, 1211-1261.	13.1	25
151	Molecular determinants of altered contractility in heart failure. Annals of Medicine, 2004, 36, 70-80.	1.5	24
152	Mechanisms of Human Arrhythmia Syndromes: Abnormal Cardiac Macromolecular Interactions. Physiology, 2007, 22, 342-350.	1.6	24
153	CRISPRâ€Mediated Expression of the Fetal <i>Scn5a</i> Isoform in Adult Mice Causes Conduction Defects and Arrhythmias. Journal of the American Heart Association, 2018, 7, e010393.	1.6	24
154	Ryanodine receptors as pharmacological targets for heart disease. Acta Pharmacologica Sinica, 2007, 28, 937-944.	2.8	23
155	Worsening renal function is not associated with response to treatment in acute heart failure. International Journal of Cardiology, 2013, 167, 1912-1917.	0.8	23
156	Junctophilin-2 expression rescues atrial dysfunction through polyadic junctional membrane complex biogenesis. JCI Insight, 2019, 4, .	2.3	23
157	Long-term simulated microgravity causes cardiac RyR2 phosphorylation and arrhythmias in mice. International Journal of Cardiology, 2014, 176, 994-1000.	0.8	22
158	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-H724.	1.5	22
159	Cardiac expression of the CREM repressor isoform CREM-Ibî”C-X in mice leads to arrhythmogenic alterations in ventricular cardiomyocytes. Basic Research in Cardiology, 2016, 111, 15.	2.5	22
160	Novel Junctophilin-2 Mutation A405S Is Associated With Basal Septal Hypertrophy and Diastolic Dysfunction. JACC Basic To Translational Science, 2017, 2, 56-67.	1.9	22
161	The Role of Non-coding RNAs in Ischemic Myocardial Reperfusion Injury. Cardiovascular Drugs and Therapy, 2019, 33, 489-498.	1.3	22
162	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.	1.6	22

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163	Ryanodine Receptor Phosphorylation, Calcium/Calmodulin-Dependent Protein Kinase II, and Life-Threatening Ventricular Arrhythmias. Trends in Cardiovascular Medicine, 2011, 21, 48-51.	2.3	21
164	Phospholamban ablation rescues the enhanced propensity to arrhythmias of mice with CaMKIIâ€constitutive phosphorylation of RyR2 at site S2814. Journal of Physiology, 2016, 594, 3005-3030.	1.3	20
165	SPEG: a key regulator of cardiac calcium homeostasis. Cardiovascular Research, 2021, 117, 2175-2185.	1.8	20
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