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List of Publications by Year
in descending order

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54 papers	1,907 citations	430843 18 h-index	254170 43 g-index
57 all docs	57 docs citations	57 times ranked	2734 citing authors

#	Article	IF	Citations
1	Ryanodine Receptor Oxidation Causes Intracellular Calcium Leak and Muscle Weakness in Aging. Cell Metabolism, 2011, 14, 196-207.	16.2	335
2	Structure of the Membrane Protein FhaC: A Member of the Omp85-TpsB Transporter Superfamily. Science, 2007, 317, 957-961.	12.6	226
3	Role of chronic ryanodine receptor phosphorylation in heart failure and Î²-adrenergic receptor blockade in mice. Journal of Clinical Investigation, 2010, 120, 4375-4387.	8.2	205
4	Role of Leaky Neuronal Ryanodine Receptors in Stress- Induced Cognitive Dysfunction. Cell, 2012, 150, 1055-1067.	28.9	132
5	Post-translational remodeling of ryanodine receptor induces calcium leak leading to Alzheimerâ€™s disease-like pathologies and cognitive deficits. Acta Neuropathologica, 2017, 134, 749-767.	7.7	130
6	Ryanodine receptor leak mediated by caspase-8 activation leads to left ventricular injury after myocardial ischemia-reperfusion. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13258-13263.	7.1	98
7	Leaky ryanodine receptors in Î²-sarcoglycan deficient mice: a potential common defect in muscular dystrophy. Skeletal Muscle, 2012, 2, 9.	4.2	67
8	TNF-Â-mediated caspase-8 activation induces ROS production and TRPM2 activation in adult ventricular myocytes. Cardiovascular Research, 2014, 103, 90-99.	3.8	67
9	Atomic force microscopy combined with human pluripotent stem cell derived cardiomyocytes for biomechanical sensing. Biosensors and Bioelectronics, 2016, 85, 751-757.	10.1	63
10	A Novel Ryanodine Receptor Mutation Linked to Sudden Death Increases Sensitivity to Cytosolic Calcium. Circulation Research, 2011, 109, 281-290.	4.5	57
11	Channel Properties of TpsB Transporter FhaC Point to Two Functional Domains with a C-terminal Protein-conducting Pore*. Journal of Biological Chemistry, 2006, 281, 158-166.	3.4	56
12	Human Pluripotent Stem Cell-Derived Cardiomyocytes as Research and Therapeutic Tools. BioMed Research International, 2014, 2014, 1-14.	1.9	48
13	Speckle-Tracking Echocardiography in Children With Duchenne Muscular Dystrophy: A Prospective Multicenter Controlled Cross-Sectional Study. Journal of the American Society of Echocardiography, 2019, 32, 412-422.	2.8	44
14	Short-coupled polymorphic ventricular tachycardia at rest linked to a novel ryanodine receptor (RyR2) mutation: Leaky RyR2 channels under non-stress conditions. International Journal of Cardiology, 2015, 180, 228-236.	1.7	42
15	Post-Translational Modifications and Diastolic Calcium Leak Associated to the Novel RyR2-D3638A Mutation Lead to CPVT in Patient-Specific hiPSC-Derived Cardiomyocytes. Journal of Clinical Medicine, 2018, 7, 423.	2.4	40
16	MicroRNA Profiling of Activated and Tolerogenic Human Dendritic Cells. Mediators of Inflammation, 2014, 2014, 1-10.	3.0	39
17	Forced aggregation and defined factors allow highly uniform-sized embryoid bodies and functional cardiomyocytes from human embryonic and induced pluripotent stem cells. Heart and Vessels, 2014, 29, 834-846.	1.2	39
18	Dystrophin Deficiency Leads to Genomic Instability in Human Pluripotent Stem Cells via NO Synthase-Induced Oxidative Stress. Cells, 2019, 8, 53.	4.1	37

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19	DMD Pluripotent Stem Cell Derived Cardiac Cells Recapitulate in vitro Human Cardiac Pathophysiology. Frontiers in Bioengineering and Biotechnology, 2020, 8, 535.	4.1	25
20	Deciphering DSC2 arrhythmogenic cardiomyopathy electrical instability: From ion channels to ECG and tailored drug therapy. Clinical and Translational Medicine, 2021, 11, e319.	4.0	20
21	Modeling polymorphic ventricular tachycardia at rest using patient-specific induced pluripotent stem cell-derived cardiomyocytes. EBioMedicine, 2020, 60, 103024.	6.1	19
22	Influence of the passenger domain of a model autotransporter on the properties of its translocator domain. Molecular Membrane Biology, 2008, 25, 192-202.	2.0	15
23	Urinary MicroRNAs as a New Class of Noninvasive Biomarkers in Oncology, Nephrology, and Cardiology. Methods in Molecular Biology, 2015, 1218, 439-463.	0.9	12
24	Dynamic interplay of membraneâ€proximal <scp>POTRA</scp> domain and conserved loop <scp>L</scp>6 in <scp>O</scp>mp85 transporter <scp>FhaC</scp>. Molecular Microbiology, 2015, 98, 490-501.	2.5	11
25	â€œRyanopathiesâ€•and RyR2 dysfunctions: can we further decipher them using in vitro human disease models?. Cell Death and Disease, 2021, 12, 1041.	6.3	10
26	Generation of two Duchenne muscular dystrophy patient-specific induced pluripotent stem cell lines DMD02 and DMD03 (MUNIi001-A and MUNIi003-A). Stem Cell Research, 2019, 40, 101562.	0.7	9
27	Speckle tracking echocardiography in healthy children: comparison between the QLAB by Philips and the EchoPAC by General Electric. International Journal of Cardiovascular Imaging, 2019, 35, 799-809.	1.5	9
28	Skeletal Ryanodine Receptors Are Involved in Impaired Myogenic Differentiation in Duchenne Muscular Dystrophy Patients. International Journal of Molecular Sciences, 2021, 22, 12985.	4.1	8
29	Oxygen Is an Ambivalent Factor for the Differentiation of Human Pluripotent Stem Cells in Cardiac 2D Monolayer and 3D Cardiac Spheroids. International Journal of Molecular Sciences, 2021, 22, 662.	4.1	7
30	Internal structure and remodeling in dystrophin-deficient cardiomyocytes using second harmonic generation. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 30, 102295.	3.3	6
31	Stabilizing Ryanodine Receptors Improves Left Ventricular Function inÂJuvenile Dogs With Duchenne MuscularÂDystrophy. Journal of the American College of Cardiology, 2021, 78, 2439-2453.	2.8	5
32	EtpB Is a Pore-Forming Outer Membrane Protein Showing TpsB Protein Features Involved in the Two-Partner Secretion System. Journal of Membrane Biology, 2009, 230, 143-154.	2.1	4
33	The impact of cardiovascular diseases and new gene variants in swaying Alzheimerâ€™s disease. Cardiovascular Research, 2019, 115, e102-e104.	3.8	4
34	Concomitant systolic and diastolic alterations during chronic hypertension in pig. Journal of Molecular and Cellular Cardiology, 2019, 131, 155-163.	1.9	4
35	Molecular and Functional Characterization of Uniform-Sized Beating Embryoid Bodies and Cardiomyocytes from Human Embryonic and Induced Pluripotent Stem Cells. Biophysical Journal, 2014, 106, 565a.	0.5	3
36	MorphoScript: a dedicated analysis to assess the morphology and contractile structures of cardiomyocytes derived from stem cells. Bioinformatics, 2021, 37, 4209-4215.	4.1	3

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37	Generation of three Duchenne Muscular Dystrophy patient-specific induced pluripotent stem cell lines DMD_YoTaz_PhyMedEXp, DMD_RaPer_PhyMedEXp, DMD_OuMen_PhyMedEXp (INSRMi008-A,) Tj ETQq1 1 0.784314 rgBT /Ov	0.7	
38	Circadian clock: each tissue has its own rhythm. Cardiovascular Research, 2018, 114, e57-e59.	3.8	1
39	Scientists on the Spot: Myocardium and myofilaments. Cardiovascular Research, 2020, 116, e96-e97.	3.8	1
40	When immune cells are coached by intestinal microbiota. Cardiovascular Research, 2020, 116, e21-e22.	3.8	1
41	Dystrophin Deficiency Causes Progressive Depletion of Cardiovascular Progenitor Cells in the Heart. International Journal of Molecular Sciences, 2021, 22, 5025.	4.1	1
42	Cellular pathology of the human heart in Duchenne muscular dystrophy (DMD): lessons learned from in vitro modeling. Pflugers Archiv European Journal of Physiology, 2021, 473, 1099-1115.	2.8	1
43	Assessment of left ventricular dyssynchrony by speckle tracking echocardiography in children with duchenne muscular dystrophy. International Journal of Cardiovascular Imaging, 2022, 38, 79-89.	1.5	1
44	Mapping the Ryanodine Receptors Pore Region Using the Substituted Cysteine Accessibility Method. Biophysical Journal, 2009, 96, 106a.	0.5	0
45	Role of the Ryanodine Receptor/Calcium Release Channel in Beta-adrenergic Receptor Blocker Treatment of Heart Failure. Biophysical Journal, 2009, 96, 115a.	0.5	0
46	Altered Ca2+ Sensitivity and Gating Properties of Skeletal Muscle Ryanodine Receptors in Aged Mice. Biophysical Journal, 2011, 100, 417a.	0.5	0
47	Altered Ion Channel Properties of Ryanodine Receptor from Heart Mice Lacking Calstabin2. Biophysical Journal, 2014, 106, 125a.	0.5	0
48	Scientists on the Spot: advances in cardiac surgery. Cardiovascular Research, 2019, 115, e32-e33.	3.8	0
49	A low protein diet to target cardiovascular disease and cancer in one shot?. Cardiovascular Research, 2019, 115, e1-e2.	3.8	0
50	Scientists on the Spot: Putting a halt to hypertrophic cardiomyopathy. Cardiovascular Research, 2020, 116, e42-e43.	3.8	0
51	Genome protection on the move. Cardiovascular Research, 2020, 116, e109-e111.	3.8	0
52	Scientists on the Spot: Calcium dynamics in heart function. Cardiovascular Research, 2020, 116, e73-e74.	3.8	0
53	Special issue on recent progress with hPSC-derived cardiovascular cells for organoids, engineered myocardium, drug discovery, disease models, and therapy. Pflugers Archiv European Journal of Physiology, 2021, 473, 983-988.	2.8	0
54	Generation of catecholaminergic polymorphic ventricular tachycardia patient-specific induced pluripotent stem cell line. Stem Cell Research, 2022, 60, 102727.	0.7	0