Pasi Tavi

List of Publications by Year
in descending order

#	Article	IF	Citations
1	PSEN1 Mutant iPSC-Derived Model Reveals Severe Astrocyte Pathology in Alzheimer's Disease. Stem Cell Reports, 2017, 9, 1885-1897.	4.8	239
2	Impact of Sarcoplasmic Reticulum Calcium Release on Calcium Dynamics and Action Potential Morphology in Human Atrial Myocytes: A Computational Study. PLoS Computational Biology, 2011, 7, e1001067.	3.2	115
3	Structural Immaturity of Human iPSC-Derived Cardiomyocytes: In Silico Investigation of Effects on Function and Disease Modeling. Frontiers in Physiology, 2018, 9, 80.	2.8	110
4	Model of Excitation-Contraction Coupling of Rat Neonatal Ventricular Myocytes. Biophysical Journal, 2009, 96, 1189-1209.	0.5	78
5	The role of cardiac energy metabolism in cardiac hypertrophy and failure. Experimental Cell Research, 2017, 360, 12-18.	2.6	77
6	Increased fatigue resistance linked to Ca²⁺-stimulated mitochondrial biogenesis in muscle fibres of cold-acclimated mice. Journal of Physiology, 2010, 588, 4275-4288.	2.9	71
7	Mitochondrial and myoplasmic [Ca2+] in single fibres from mouse limb muscles during repeated tetanic contractions. Journal of Physiology, 2003, 551, 179-190.	2.9	71
8	The role of <i>in vivo</i> Ca²⁺ signals acting on Ca²⁺â€“calmodulinâ€dependent proteins for skeletal muscle plasticity. Journal of Physiology, 2011, 589, 5021-5031.	2.9	69
9	Calcium signalling in developing cardiomyocytes: implications for model systems and disease. Journal of Physiology, 2015, 593, 1047-1063.	2.9	66
10	Increased mitochondrial Ca 2+ and decreased sarcoplasmic reticulum Ca 2+ in mitochondrial myopathy. Human Molecular Genetics, 2009, 18, 278-288.	2.9	64
11	Ca²⁺â€“calmodulinâ€dependent protein kinase II represses cardiac transcription of the Lâ€type calcium channel Î±_{1C}â€subunit gene (<i>Cacna1c</i>) by DREAM translocation. Journal of Physiology, 2011, 589, 2669-2686.	2.9	63
12	AAV9-mediated VEGF-B Gene Transfer Improves Systolic Function in Progressive Left Ventricular Hypertrophy. Molecular Therapy, 2012, 20, 2212-2221.	8.2	63
13	Nrf2 and SQSTM1/p62 jointly contribute to mesenchymal transition and invasion in glioblastoma. Oncogene, 2019, 38, 7473-7490.	5.9	61
14	In Silico Screening of the Key Cellular Remodeling Targets in Chronic Atrial Fibrillation. PLoS Computational Biology, 2014, 10, e1003620.	3.2	59
15	MicroRNA Profiling of Pericardial Fluid Samples from Patients with Heart Failure. PLoS ONE, 2015, 10, e0119646.	2.5	59
16	Cardiac mechanotransduction: from sensing to disease and treatment. Trends in Pharmacological Sciences, 2001, 22, 254-260.	8.7	58
17	Excitationâ€“Contraction Coupling of the Mouse Embryonic Cardiomyocyte. Journal of General Physiology, 2008, 132, 397-405.	1.9	53
18	Pacing-induced calcineurin activation controls cardiac Ca2+signalling and gene expression. Journal of Physiology, 2004, 554, 309-320.	2.9	51

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19	Aggravated Postinfarct Heart Failure in Type 2 Diabetes Is Associated with Impaired Mitophagy and Exaggerated Inflammasome Activation. American Journal of Pathology, 2017, 187, 2659-2673.	3.8	48
20	Hypoxia-inducible factor 1-induced G protein-coupled receptor 35 expression is an early marker of progressive cardiac remodelling. Cardiovascular Research, 2014, 101, 69-77.	3.8	39
21	Heart specific PGC-1Î± deletion identifies metabolome of cardiac restricted metabolic heart failure. Cardiovascular Research, 2019, 115, 107-118.	3.8	38
22	Generation of Functional Neuromuscular Junctions from Human Pluripotent Stem Cell Lines. Frontiers in Cellular Neuroscience, 2015, 9, 473.	3.7	35
23	Refractoriness in human atria: Time and voltage dependence of sodium channel availability. Journal of Molecular and Cellular Cardiology, 2016, 101, 26-34.	1.9	35
24	Calmodulin kinase modulates Ca2+ release in mouse skeletal muscle. Journal of Physiology, 2003, 551, 5-12.	2.9	34
25	Hypoxia and HIF-1 suppress SERCA2a expression in embryonic cardiac myocytes through two interdependent hypoxia response elements. Journal of Molecular and Cellular Cardiology, 2011, 50, 1008-1016.	1.9	33
26	Endothelial Bmx tyrosine kinase activity is essential for myocardial hypertrophy and remodeling. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13063-13068.	7.1	31
27	Local Ca²⁺ releases enable rapid heart rates in developing cardiomyocytes. Journal of Physiology, 2010, 588, 1407-1417.	2.9	30
28	Mitochondrial uncoupling downregulates calsequestrin expression and reduces SR Ca2+ stores in cardiomyocytes. Cardiovascular Research, 2010, 88, 75-82.	3.8	26
29	Impaired Ca handling and contraction in cardiomyocytes from mice with a dominant negative thyroid hormone receptor ?. Journal of Molecular and Cellular Cardiology, 2005, 38, 655-663.	1.9	25
30	Regulation of excitation-contraction coupling in mouse cardiac myocytes: integrative analysis with mathematical modelling. BMC Physiology, 2009, 9, 16.	3.6	23
31	Oxidative hotspots on actin promote skeletal muscle weakness in rheumatoid arthritis. JCI Insight, 2019, 4, .	5.0	23
32	Abnormal Ca2+ release and catecholamine-induced arrhythmias in mitochondrial cardiomyopathy. Human Molecular Genetics, 2005, 14, 1069-1076.	2.9	22
33	Mathematical Model of Mouse Embryonic Cardiomyocyte Excitationâ€“Contraction Coupling. Journal of General Physiology, 2008, 132, 407-419.	1.9	22
34	Peroxisome proliferatorâ€activated receptorâ€Î³ coactivator 1 Î±1 induces a cardiac excitationâ€“contraction coupling phenotype without metabolic remodelling. Journal of Physiology, 2016, 594, 7049-7071.	2.9	20
35	Injected nanoparticles: The combination of experimental systems to assess cardiovascular adverse effects. European Journal of Pharmaceutics and Biopharmaceutics, 2014, 87, 64-72.	4.3	17
36	Genome-Wide Dynamics of Nascent Noncoding RNA Transcription in Porcine Heart After Myocardial Infarction. Circulation: Cardiovascular Genetics, 2017, 10, .	5.1	17

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37	Loss of CLN5 causes altered neurogenesis in a childhood neurodegenerative disorder. DMM Disease Models and Mechanisms, 2017, 10, 1089-1100.	2.4	14
38	PGC-1Î± deficiency reveals sex-specific links between cardiac energy metabolism and EC-coupling during development of heart failure in mice. Cardiovascular Research, 2022, 118, 1520-1534.	3.8	8
39	WDR12, a Member of Nucleolar PeBoW-Complex, Is Up-Regulated in Failing Hearts and Causes Deterioration of Cardiac Function. PLoS ONE, 2015, 10, e0124907.	2.5	7
40	cAMP- and cGMP-independent stretch-induced changes in the contraction of rat atrium. Pflugers Archiv European Journal of Physiology, 2000, 441, 65-68.	2.8	5
41	Vascular Endothelial Growth Factor-B Induces a Distinct Electrophysiological Phenotype in Mouse Heart. Frontiers in Physiology, 2017, 8, 373.	2.8	5
42	Sarcoplasmic reticulum Ca²⁺-induced Ca²⁺release regulates class IIa HDAC localization in mouse embryonic cardiomyocytes. Physiological Reports, 2018, 6, e13522.	1.7	5
43	Potassium Channel Interacting Protein 2 (KChIP2) is not a transcriptional regulator of cardiac electrical remodeling. Scientific Reports, 2016, 6, 28760.	3.3	3
44	The Ablation of VEGFR-1 Signaling Promotes Pressure Overload-Induced Cardiac Dysfunction and Sudden Death. Biomolecules, 2021, 11, 452.	4.0	3
45	Short highâ€fat diet interferes with the physiological maturation of the late adolescent mouse heart. Physiological Reports, 2020, 8, e14474.	1.7	1
46	Mathematical modelling elucidates sex disparities in human cardiac physiology. Acta Physiologica, 2006, 187, 431-431.	3.8	0