

Paul M Janssen

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220
papers

7,336
citations

46
h-index

76
g-index

262
ext. papers

8,458
ext. citations

6.6
avg, IF

5.77
L-index

#	Paper	IF	Citations
220	Accumulation of autophagic vacuoles and cardiomyopathy in LAMP-2-deficient mice. <i>Nature</i> , 2000 , 406, 902-6	50.4	743
219	Interplay of IKK/NF-kappaB signaling in macrophages and myofibers promotes muscle degeneration in Duchenne muscular dystrophy. <i>Journal of Clinical Investigation</i> , 2007 , 117, 889-901	15.9	334
218	Atrial fibrillation driven by micro-anatomic intramural re-entry revealed by simultaneous sub-epicardial and sub-endocardial optical mapping in explanted human hearts. <i>European Heart Journal</i> , 2015 , 36, 2390-401	9.5	246
217	Small and large animal models in cardiac contraction research: advantages and disadvantages. <i>Pharmacology & Therapeutics</i> , 2014 , 141, 235-49	13.9	240
216	Overexpression of FK506-binding protein FKBP12.6 in cardiomyocytes reduces ryanodine receptor-mediated Ca(2+) leak from the sarcoplasmic reticulum and increases contractility. <i>Circulation Research</i> , 2001 , 88, 188-94	15.7	127
215	Frequency- and afterload-dependent cardiac modulation in vivo by troponin I with constitutively active protein kinase A phosphorylation sites. <i>Circulation Research</i> , 2004 , 94, 496-504	15.7	125
214	Follistatin gene delivery enhances muscle growth and strength in nonhuman primates. <i>Science Translational Medicine</i> , 2009 , 1, 6ra15	17.5	122
213	S100A1: a regulator of myocardial contractility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 13889-94	11.5	116
212	Myofilament properties comprise the rate-limiting step for cardiac relaxation at body temperature in the rat. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002 , 282, H499-507	5.2	108
211	A genetic model of amyotrophic lateral sclerosis in zebrafish displays phenotypic hallmarks of motoneuron disease. <i>DMM Disease Models and Mechanisms</i> , 2010 , 3, 652-62	4.1	104
210	The effect of myosin light chain 2 dephosphorylation on Ca ²⁺ -sensitivity of force is enhanced in failing human hearts. <i>Cardiovascular Research</i> , 2003 , 57, 505-14	9.9	104
209	Early treatment with lisinopril and spironolactone preserves cardiac and skeletal muscle in Duchenne muscular dystrophy mice. <i>Circulation</i> , 2011 , 124, 582-8	16.7	97
208	Role of cardiac myosin binding protein C in sustaining left ventricular systolic stiffening. <i>Circulation Research</i> , 2004 , 94, 1249-55	15.7	93
207	Atrial glutathione content, calcium current, and contractility. <i>Journal of Biological Chemistry</i> , 2007 , 282, 28063-73	5.4	87
206	In Vivo Genome Editing Restores Dystrophin Expression and Cardiac Function in Dystrophic Mice. <i>Circulation Research</i> , 2017 , 121, 923-929	15.7	86
205	Emerging role of oxidative stress in metabolic syndrome and cardiovascular diseases: important role of Rac/NADPH oxidase. <i>Journal of Pathology</i> , 2013 , 231, 290-300	9.4	84
204	A human-specific deletion in mouse Cmah increases disease severity in the mdx model of Duchenne muscular dystrophy. <i>Science Translational Medicine</i> , 2010 , 2, 42ra54	17.5	82

203	Utrophin deficiency worsens cardiac contractile dysfunction present in dystrophin-deficient mdx mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 289, H2373-8	5.2	82
202	Influence of pyruvate on contractile performance and Ca(2+) cycling in isolated failing human myocardium. <i>Circulation</i> , 2002 , 105, 194-9	16.7	79
201	Three-dimensional Integrated Functional, Structural, and Computational Mapping to Define the Structural "Fingerprints" of Heart-Specific Atrial Fibrillation Drivers in Human Heart Ex Vivo. <i>Journal of the American Heart Association</i> , 2017 , 6,	6	78
200	A translational approach for limb vascular delivery of the micro-dystrophin gene without high volume or high pressure for treatment of Duchenne muscular dystrophy. <i>Journal of Translational Medicine</i> , 2007 , 5, 45	8.5	77
199	Hydroxyl radical-induced acute diastolic dysfunction is due to calcium overload via reverse-mode Na(+)-Ca(2+) exchange. <i>Circulation Research</i> , 2002 , 90, 988-95	15.7	77
198	Adenosine-Induced Atrial Fibrillation: Localized Reentrant Drivers in Lateral Right Atria due to Heterogeneous Expression of Adenosine A1 Receptors and GIRK4 Subunits in the Human Heart. <i>Circulation</i> , 2016 , 134, 486-98	16.7	70
197	Overexpression of Galgt2 in skeletal muscle prevents injury resulting from eccentric contractions in both mdx and wild-type mice. <i>American Journal of Physiology - Cell Physiology</i> , 2009 , 296, C476-88	5.4	69
196	Evaluation of Changes in Morphology and Function of Human Induced Pluripotent Stem Cell Derived Cardiomyocytes (hiPSC-CMs) Cultured on an Aligned-Nanofiber Cardiac Patch. <i>PLoS ONE</i> , 2015 , 10, e0126338	3.7	69
195	Myocardial contraction-relaxation coupling. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010 , 299, H1741-9	5.2	68
194	Frequency-dependent acceleration of relaxation involves decreased myofilament calcium sensitivity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 292, H2212-9	5.2	67
193	Abnormal frequency-dependent responses represent the pathophysiologic signature of contractile failure in human myocardium. <i>Journal of Molecular and Cellular Cardiology</i> , 2004 , 36, 33-42	5.8	67
192	Determinants of frequency-dependent contraction and relaxation of mammalian myocardium. <i>Journal of Molecular and Cellular Cardiology</i> , 2007 , 43, 523-31	5.8	66
191	Physiological determinants of contractile force generation and calcium handling in mouse myocardium. <i>Journal of Molecular and Cellular Cardiology</i> , 2002 , 34, 1367-76	5.8	61
190	Tri-modal regulation of cardiac muscle relaxation; intracellular calcium decline, thin filament deactivation, and cross-bridge cycling kinetics. <i>Biophysical Reviews</i> , 2014 , 6, 273-289	3.7	60
189	Molecular basis of diastolic dysfunction. <i>Heart Failure Clinics</i> , 2008 , 4, 13-21	3.3	60
188	IKK β and alternative NF- κ B regulate PGC-1 α to promote oxidative muscle metabolism. <i>Journal of Cell Biology</i> , 2012 , 196, 497-511	7.3	57
187	Levosimendan improves diastolic and systolic function in failing human myocardium. <i>European Journal of Pharmacology</i> , 2000 , 404, 191-9	5.3	57
186	Kinetics of cardiac muscle contraction and relaxation are linked and determined by properties of the cardiac sarcomere. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010 , 299, H1092-9	5.2	56

185	Targeted overexpression of sarcolipin in the mouse heart decreases sarcoplasmic reticulum calcium transport and cardiac contractility. <i>Journal of Biological Chemistry</i> , 2006 , 281, 3972-9	5.4	56
184	Homologous recombination mediates functional recovery of dysferlin deficiency following AAV5 gene transfer. <i>PLoS ONE</i> , 2012 , 7, e39233	3.7	54
183	Neuronal nitric oxide synthase signaling within cardiac myocytes targets phospholamban. <i>American Journal of Physiology - Cell Physiology</i> , 2008 , 294, C1566-75	5.4	53
182	Effect of muscle dimensions on trabecular contractile performance under physiological conditions. <i>Pflügers Archiv European Journal of Physiology</i> , 2006 , 451, 625-30	4.6	53
181	Cross-bridge kinetics in rat myocardium: effect of sarcomere length and calcium activation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000 , 279, H779-90	5.2	53
180	Molecular Mapping of Sinoatrial Node HCN Channel Expression in the Human Heart. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2015 , 8, 1219-27	6.4	52
179	Human sinoatrial node structure: 3D microanatomy of sinoatrial conduction pathways. <i>Progress in Biophysics and Molecular Biology</i> , 2016 , 120, 164-78	4.7	52
178	Redundant and diverse intranodal pacemakers and conduction pathways protect the human sinoatrial node from failure. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	49
177	Micro-dystrophin and follistatin co-delivery restores muscle function in aged DMD model. <i>Human Molecular Genetics</i> , 2013 , 22, 4929-37	5.6	49
176	Peptide-based inhibition of NF- κ B rescues diaphragm muscle contractile dysfunction in a murine model of Duchenne muscular dystrophy. <i>Molecular Medicine</i> , 2011 , 17, 508-15	6.2	47
175	Calcium-activated potassium current modulates ventricular repolarization in chronic heart failure. <i>PLoS ONE</i> , 2014 , 9, e108824	3.7	46
174	Prednisolone attenuates improvement of cardiac and skeletal contractile function and histopathology by lisinopril and spironolactone in the mdx mouse model of Duchenne muscular dystrophy. <i>PLoS ONE</i> , 2014 , 9, e88360	3.7	43
173	Increased phosphorylation of tropomyosin, troponin I, and myosin light chain-2 after stretch in rabbit ventricular myocardium under physiological conditions. <i>Journal of Molecular and Cellular Cardiology</i> , 2010 , 48, 1023-8	5.8	43
172	Decreased RyR2 refractoriness determines myocardial synchronization of aberrant Ca ²⁺ release in a genetic model of arrhythmia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 10312-7	11.5	42
171	LAMP-2 deficient mice show depressed cardiac contractile function without significant changes in calcium handling. <i>Basic Research in Cardiology</i> , 2006 , 101, 281-91	11.8	42
170	SCN5A variant that blocks fibroblast growth factor homologous factor regulation causes human arrhythmia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 12528-33	11.5	41
169	Dysfunction in the α II spectrin-dependent cytoskeleton underlies human arrhythmia. <i>Circulation</i> , 2015 , 131, 695-708	16.7	41
168	Preservation of contractile characteristics of human myocardium in multi-day cell culture. <i>Journal of Molecular and Cellular Cardiology</i> , 1999 , 31, 1419-27	5.8	41

167	Integration of High-Resolution Optical Mapping and 3-Dimensional Micro-Computed Tomographic Imaging to Resolve the Structural Basis of Atrial Conduction in the Human Heart. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2015 , 8, 1514-7	6.4	40
166	mdx($\bar{\nu}$) mice manifest more severe muscle dysfunction and diaphragm force deficits than do mdx Mice. <i>American Journal of Pathology</i> , 2011 , 179, 2464-74	5.8	39
165	Dissociation of force decline from calcium decline by preload in isolated rabbit myocardium. <i>Pflügers Archiv European Journal of Physiology</i> , 2008 , 456, 267-76	4.6	38
164	Myofilament Calcium Sensitivity: Role in Regulation of Cardiac Contraction and Relaxation. <i>Frontiers in Physiology</i> , 2016 , 7, 562	4.6	38
163	Measurement of myofilament calcium sensitivity at physiological temperature in intact cardiac trabeculae. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 290, H2092-7	5.2	37
162	Overexpression of sarcolipin decreases myocyte contractility and calcium transient. <i>Cardiovascular Research</i> , 2005 , 65, 177-86	9.9	37
161	Effect of muscle length on cross-bridge kinetics in intact cardiac trabeculae at body temperature. <i>Journal of General Physiology</i> , 2013 , 141, 133-9	3.4	36
160	The positive force-frequency relationship is maintained in absence of sarcoplasmic reticulum function in rabbit, but not in rat myocardium. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2009 , 179, 469-79	2.2	36
159	Cardiovascular effects of gamma-MSH/ACTH-like peptides: structure-activity relationship. <i>European Journal of Pharmacology</i> , 1995 , 294, 795-803	5.3	36
158	Low levels of Survival Motor Neuron protein are sufficient for normal muscle function in the SMN Δ mouse model of SMA. <i>Human Molecular Genetics</i> , 2015 , 24, 6160-73	5.6	35
157	Effects of dietary omega-3 fatty acids on ventricular function in dogs with healed myocardial infarctions: in vivo and in vitro studies. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010 , 298, H1219-28	5.2	34
156	Influence of cyclosporine A on contractile function, calcium handling, and energetics in isolated human and rabbit myocardium. <i>Cardiovascular Research</i> , 2000 , 47, 99-107	9.9	34
155	Nitroxyl enhances myocyte Ca ²⁺ transients by exclusively targeting SR Ca ²⁺ -cycling. <i>Frontiers in Bioscience - Elite</i> , 2010 , 2, 614-26	1.6	34
154	Force-Dependent Recruitment from the Myosin Off State Contributes to Length-Dependent Activation. <i>Biophysical Journal</i> , 2018 , 115, 543-553	2.9	33
153	Improvement of cardiac contractile function by peptide-based inhibition of NF- κ B in the utrophin/dystrophin-deficient murine model of muscular dystrophy. <i>Journal of Translational Medicine</i> , 2011 , 9, 68	8.5	33
152	Genetic disruption of Ano5 in mice does not recapitulate human ANO5-deficient muscular dystrophy. <i>Skeletal Muscle</i> , 2015 , 5, 43	5.1	32
151	Impairment of diastolic function by lack of frequency-dependent myofilament desensitization rabbit right ventricular hypertrophy. <i>Circulation: Heart Failure</i> , 2009 , 2, 472-81	7.6	32
150	Protein kinase A does not alter unloaded velocity of sarcomere shortening in skinned rat cardiac trabeculae. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1997 , 273, H2415-22	5.2	32

149	Neuronal Na ⁺ channel blockade suppresses arrhythmogenic diastolic Ca ²⁺ release. <i>Cardiovascular Research</i> , 2015 , 106, 143-52	9.9	31
148	Tissue triage and freezing for models of skeletal muscle disease. <i>Journal of Visualized Experiments</i> , 2014 ,	1.6	30
147	AAV-mediated overexpression of human α integrin leads to histological and functional improvement in dystrophic mice. <i>Molecular Therapy</i> , 2013 , 21, 520-5	11.7	30
146	Up-regulation of sarcoplasmic reticulum Ca(2+) uptake leads to cardiac hypertrophy, contractile dysfunction and early mortality in mice deficient in CASQ2. <i>Cardiovascular Research</i> , 2013 , 98, 297-306	9.9	30
145	Transient and sustained impacts of hydroxyl radicals on sarcoplasmic reticulum function: protective effects of nebivolol. <i>European Journal of Pharmacology</i> , 1999 , 366, 223-32	5.3	30
144	Role of endothelin in the induction of cardiac hypertrophy in vitro. <i>PLoS ONE</i> , 2012 , 7, e43179	3.7	30
143	The rates of Ca ²⁺ dissociation and cross-bridge detachment from ventricular myofibrils as reported by a fluorescent cardiac troponin C. <i>Journal of Biological Chemistry</i> , 2012 , 287, 27930-40	5.4	29
142	Human Atrial Fibrillation Drivers Resolved With Integrated Functional and Structural Imaging to Benefit Clinical Mapping. <i>JACC: Clinical Electrophysiology</i> , 2018 , 4, 1501-1515	4.6	29
141	Tropomyosin Ser-283 pseudo-phosphorylation slows myofibril relaxation. <i>Archives of Biochemistry and Biophysics</i> , 2013 , 535, 30-8	4.1	28
140	The Frank-Starling mechanism involves deceleration of cross-bridge kinetics and is preserved in failing human right ventricular myocardium. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 309, H2077-86	5.2	28
139	SERCA overexpression reduces hydroxyl radical injury in murine myocardium. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 291, H3130-5	5.2	28
138	Improved systolic and diastolic myocardial function with intracoronary pyruvate in patients with congestive heart failure. <i>European Journal of Heart Failure</i> , 2004 , 6, 213-8	12.3	28
137	Notch1 haploinsufficiency causes ascending aortic aneurysms in mice. <i>JCI Insight</i> , 2017 , 2,	9.9	27
136	Rationally engineered Troponin C modulates in vivo cardiac function and performance in health and disease. <i>Nature Communications</i> , 2016 , 7, 10794	17.4	27
135	Role of Oxidative Stress in Thyroid Hormone-Induced Cardiomyocyte Hypertrophy and Associated Cardiac Dysfunction: An Undisclosed Story. <i>Oxidative Medicine and Cellular Longevity</i> , 2015 , 2015, 854265	6.7	27
134	The Frank-Starling mechanism is not mediated by changes in rate of cross-bridge detachment. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1997 , 273, H2428-35	5.2	27
133	Frequency-dependent contractile response of isolated cardiac trabeculae under hypo-, normo-, and hyperthermic conditions. <i>Journal of Applied Physiology</i> , 2006 , 100, 1727-32	3.7	27
132	Isometric contraction induces rapid myocyte remodeling in cultured rat right ventricular papillary muscles. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 293, H3707-12	5.2	26

131	The Need for Speed: Mice, Men, and Myocardial Kinetic Reserve. <i>Circulation Research</i> , 2016 , 119, 418-21	15.7	25
130	Claudin-5 levels are reduced in human end-stage cardiomyopathy. <i>Journal of Molecular and Cellular Cardiology</i> , 2008 , 45, 81-7	5.8	24
129	NF- κ B inhibition rescues cardiac function by remodeling calcium genes in a Duchenne muscular dystrophy model. <i>Nature Communications</i> , 2018 , 9, 3431	17.4	23
128	Cardiac troponin I tyrosine 26 phosphorylation decreases myofilament Ca ²⁺ sensitivity and accelerates deactivation. <i>Journal of Molecular and Cellular Cardiology</i> , 2014 , 76, 257-64	5.8	23
127	Ankyrin-B dysfunction predisposes to arrhythmogenic cardiomyopathy and is amenable to therapy. <i>Journal of Clinical Investigation</i> , 2019 , 129, 3171-3184	15.9	23
126	Gender comparison of contractile performance and beta-adrenergic response in isolated rat cardiac trabeculae. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2008 , 178, 307-13	2.2	22
125	Impaired neuronal sodium channels cause intranodal conduction failure and reentrant arrhythmias in human sinoatrial node. <i>Nature Communications</i> , 2020 , 11, 512	17.4	21
124	Temporal changes in expression of connexin 43 after load-induced hypertrophy in vitro. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009 , 296, H806-14	5.2	21
123	Induction of hypertrophy in vitro by mechanical loading in adult rabbit myocardium. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 293, H3759-67	5.2	21
122	Potential of beta-adrenergic inotropic response by pyruvate in failing human myocardium. <i>Cardiovascular Research</i> , 2002 , 53, 116-23	9.9	21
121	Protective role of nebivolol in hydroxyl radical induced injury. <i>Journal of Cardiovascular Pharmacology</i> , 2001 , 38 Suppl 3, S17-23	3.1	21
120	Etiology-dependent impairment of relaxation kinetics in right ventricular end-stage failing human myocardium. <i>Journal of Molecular and Cellular Cardiology</i> , 2018 , 121, 81-93	5.8	20
119	TGF- β 1 affects cell-cell adhesion in the heart in an NCAM1-dependent mechanism. <i>Journal of Molecular and Cellular Cardiology</i> , 2017 , 112, 49-57	5.8	20
118	Murine strain differences in contractile function are temperature- and frequency-dependent. <i>Pflügers Archiv European Journal of Physiology</i> , 2006 , 452, 140-5	4.6	20
117	Myofilament Calcium Sensitivity: Consequences of the Effective Concentration of Troponin I. <i>Frontiers in Physiology</i> , 2016 , 7, 632	4.6	20
116	Novel application of 3D contrast-enhanced CMR to define fibrotic structure of the human sinoatrial node in vivo. <i>European Heart Journal Cardiovascular Imaging</i> , 2017 , 18, 862-869	4.1	18
115	Heterozygosity for the F508del mutation in the cystic fibrosis transmembrane conductance regulator anion channel attenuates influenza severity. <i>Journal of Infectious Diseases</i> , 2013 , 208, 780-9	7	18
114	Vascular remodeling-associated hypertension leads to left ventricular hypertrophy and contractile dysfunction in profilin-1 transgenic mice. <i>Journal of Cardiovascular Pharmacology</i> , 2012 , 60, 544-52	3.1	18

113	Pyruvate potentiates inotropic effects of isoproterenol and Ca(2+) in rabbit cardiac muscle preparations. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000 , 279, H702-8	5.2	18
112	Human Myocardium Has a Robust β_1 -Subtype Adrenergic Receptor Inotropic Response. <i>Journal of Cardiovascular Pharmacology</i> , 2018 , 72, 136-142	3.1	18
111	Differential involvement of various sources of reactive oxygen species in thyroxin-induced hemodynamic changes and contractile dysfunction of the heart and diaphragm muscles. <i>Free Radical Biology and Medicine</i> , 2015 , 83, 252-61	7.8	17
110	Dysfunction of the β_2 -spectrin-based pathway in human heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016 , 310, H1583-91	5.2	17
109	Pulmonary artery banding alters the expression of Ca ²⁺ transport proteins in the right atrium in rabbits. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009 , 296, H1933-9	5.2	17
108	Intracellular beta-blockade: overexpression of Galpha(i2) depresses the beta-adrenergic response in intact myocardium. <i>Cardiovascular Research</i> , 2002 , 55, 300-8	9.9	17
107	Memantine, an NMDA receptor antagonist, attenuates cardiac remodeling, lipid peroxidation and neutrophil recruitment in heart failure: A cardioprotective agent?. <i>Biomedicine and Pharmacotherapy</i> , 2018 , 108, 1237-1243	7.5	17
106	Assessment of temporal functional changes and miRNA profiling of human iPSC-derived cardiomyocytes. <i>Scientific Reports</i> , 2019 , 9, 13188	4.9	16
105	Ablation of HRC alleviates cardiac arrhythmia and improves abnormal Ca handling in CASQ2 knockout mice prone to CPVT. <i>Cardiovascular Research</i> , 2015 , 108, 299-311	9.9	16
104	Cardiomyopathy in the dystrophin/utrophin-deficient mouse model of severe muscular dystrophy is characterized by dysregulation of matrix metalloproteinases. <i>Neuromuscular Disorders</i> , 2012 , 22, 1006-14	4.9	16
103	Effects of increased systolic Ca ²⁺ and phospholamban phosphorylation during β_1 -adrenergic stimulation on Ca ²⁺ transient kinetics in cardiac myocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011 , 301, H1570-8	5.2	16
102	Patient mutations linked to arrhythmogenic cardiomyopathy enhance calpain-mediated desmoplakin degradation. <i>JCI Insight</i> , 2019 , 5,	9.9	16
101	Myofilament Calcium Sensitivity: Mechanistic Insight into Tnl Ser-23/24 and Ser-150 Phosphorylation Integration. <i>Frontiers in Physiology</i> , 2016 , 7, 567	4.6	16
100	Claudin-5 levels are reduced from multiple cell types in human failing hearts and are associated with mislocalization of ephrin-B1. <i>Cardiovascular Pathology</i> , 2015 , 24, 160-167	3.8	15
99	The Angiotensin Converting Enzyme Inhibitor Lisinopril Improves Muscle Histopathology but not Contractile Function in a Mouse Model of Duchenne Muscular Dystrophy. <i>Journal of Neuromuscular Diseases</i> , 2015 , 2, 257-268	5	15
98	Rac-induced left ventricular dilation in thyroxin-treated ZmRacD transgenic mice: role of cardiomyocyte apoptosis and myocardial fibrosis. <i>PLoS ONE</i> , 2012 , 7, e42500	3.7	15
97	Optical Mapping-Validated Machine Learning Improves Atrial Fibrillation Driver Detection by Multi-Electrode Mapping. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020 , 13, e008249	6.4	15
96	Protein Kinase A as a Promising Target for Heart Failure Drug Development. <i>Archives of Medical Research</i> , 2018 , 49, 530-537	6.6	15

95	Effects of zacopride, a moderate I channel agonist, on triggered arrhythmia and contractility in human ventricular myocardium. <i>Pharmacological Research</i> , 2017 , 115, 309-318	10.2	14
94	Decrease in sarcoplasmic reticulum calcium content, not myofilament function, contributes to muscle twitch force decline in isolated cardiac trabeculae. <i>Journal of Muscle Research and Cell Motility</i> , 2014 , 35, 225-34	3.5	14
93	Sustaining cardiac claudin-5 levels prevents functional hallmarks of cardiomyopathy in a muscular dystrophy mouse model. <i>Molecular Therapy</i> , 2012 , 20, 1378-83	11.7	14
92	Frequency-dependent contractile strength in mice over- and underexpressing the sarco(endo)plasmic reticulum calcium-ATPase. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007 , 293, R30-6	3.2	14
91	Selective contractile dysfunction of left, not right, ventricular myocardium in the SHHF rat. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003 , 284, H772-8	5.2	14
90	The positive inotropic effect of pyruvate involves an increase in myofilament calcium sensitivity. <i>PLoS ONE</i> , 2013 , 8, e63608	3.7	14
89	MG 53 Protein Protects Aortic Valve Interstitial Cells From Membrane Injury and Fibrocalcific Remodeling. <i>Journal of the American Heart Association</i> , 2019 , 8, e009960	6	13
88	Defining the molecular signatures of human right heart failure. <i>Life Sciences</i> , 2018 , 196, 118-126	6.8	13
87	Post-translational modifications of myofilament proteins involved in length-dependent prolongation of relaxation in rabbit right ventricular myocardium. <i>Archives of Biochemistry and Biophysics</i> , 2013 , 535, 22-9	4.1	13
86	Use of whole exome sequencing for the identification of Ito-based arrhythmia mechanism and therapy. <i>Journal of the American Heart Association</i> , 2015 , 4,	6	13
85	Abstract 18402: Human Atrial Fibrillation Drivers Seen Simultaneously by Focal Impulse and Rotor Mapping and High-resolution Optical Mapping. <i>Circulation</i> , 2015 , 132,	16.7	13
84	Impact of beta-adrenoceptor antagonists on myofilament calcium sensitivity of rabbit and human myocardium. <i>Journal of Cardiovascular Pharmacology</i> , 2000 , 36, 126-31	3.1	13
83	Silencing miR-370-3p rescues funny current and sinus node function in heart failure. <i>Scientific Reports</i> , 2020 , 10, 11279	4.9	13
82	Ablation of the calpain-targeted site in cardiac myosin binding protein-C is cardioprotective during ischemia-reperfusion injury. <i>Journal of Molecular and Cellular Cardiology</i> , 2019 , 129, 236-246	5.8	12
81	Influence of metabolic dysfunction on cardiac mechanics in decompensated hypertrophy and heart failure. <i>Journal of Molecular and Cellular Cardiology</i> , 2016 , 94, 162-175	5.8	12
80	Designing proteins to combat disease: Cardiac troponin C as an example. <i>Archives of Biochemistry and Biophysics</i> , 2016 , 601, 4-10	4.1	12
79	N-Glycolylneuraminic acid deficiency worsens cardiac and skeletal muscle pathophysiology in β -mannosidase-deficient mice. <i>Glycobiology</i> , 2013 , 23, 833-43	5.8	12
78	Myocardial Rac1 exhibits partial involvement in thyroxin-induced cardiomyocyte hypertrophy and its inhibition is not sufficient to improve cardiac dysfunction or contractile abnormalities in mouse papillary muscles. <i>Journal of Cardiovascular Pharmacology</i> , 2013 , 61, 536-44	3.1	11

77	Remodeling of the mA landscape in the heart reveals few conserved post-transcriptional events underlying cardiomyocyte hypertrophy. <i>Journal of Molecular and Cellular Cardiology</i> , 2021 , 151, 46-55	5.8	11
76	The force-temperature relationship in healthy and dystrophic mouse diaphragm; implications for translational study design. <i>Frontiers in Physiology</i> , 2012 , 3, 422	4.6	10
75	Similar efficacy from specific and non-specific mineralocorticoid receptor antagonist treatment of muscular dystrophy mice. <i>Journal of Neuromuscular Diseases</i> , 2016 , 3, 395-404	5	10
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73	Effects of increased systolic Ca(2+) and β -adrenergic stimulation on Ca(2+) transient decline in NOS1 knockout cardiac myocytes. <i>Nitric Oxide - Biology and Chemistry</i> , 2012 , 27, 242-7	5	9
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