

Paul M Janssen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	The Case For, and Challenges of, Human Cardiac Tissue in Advancing Phosphoprotein Research.. <i>Frontiers in Physiology</i> , 2022 , 13, 853511	4.6	1
219	UCHL1 protects against ischemic heart injury via activating HIF-1 β signal pathway.. <i>Redox Biology</i> , 2022 , 52, 102295	11.3	1
218	Effect of hypothyroidism on contractile performance of isolated end-stage failing human myocardium.. <i>PLoS ONE</i> , 2022 , 17, e0265731	3.7	
217	Distributed synthesis of sarcolemmal and sarcoplasmic reticulum membrane proteins in cardiac myocytes. <i>Basic Research in Cardiology</i> , 2021 , 116, 63	11.8	1
216	Impact of etiology on force and kinetics of left ventricular end-stage failing human myocardium. <i>Journal of Molecular and Cellular Cardiology</i> , 2021 , 156, 7-19	5.8	3
215	Amino terminus of cardiac myosin binding protein-C regulates cardiac contractility. <i>Journal of Molecular and Cellular Cardiology</i> , 2021 , 156, 33-44	5.8	2
214	Fibroblast-Specific Proteotranscriptomes Reveal Distinct Fibrotic Signatures of Human Sinoatrial Node in Nonfailing and Failing Hearts. <i>Circulation</i> , 2021 , 144, 126-143	16.7	6
213	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
212	Paracardial fat remodeling affects systemic metabolism through alcohol dehydrogenase 1. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	1
211	Microfibrillar-Associated Protein 4 Regulates Stress-Induced Cardiac Remodeling. <i>Circulation Research</i> , 2021 , 128, 723-737	15.7	3
210	Serum Antibodies to N-Glycolylneuraminic Acid Are Elevated in Duchenne Muscular Dystrophy and Correlate with Increased Disease Pathology in Cmahmdx Mice. <i>American Journal of Pathology</i> , 2021 , 191, 1474-1486	5.8	
209	Altered microRNA and mRNA profiles during heart failure in the human sinoatrial node. <i>Scientific Reports</i> , 2021 , 11, 19328	4.9	3
208	MG53 suppresses NF- κ B activation to mitigate age-related heart failure. <i>JCI Insight</i> , 2021 , 6,	9.9	2
207	Memantine and its benefits for cancer, cardiovascular and neurological disorders. <i>European Journal of Pharmacology</i> , 2021 , 910, 174455	5.3	1
206	Cell fusion is differentially regulated in zebrafish post-embryonic slow and fast muscle. <i>Developmental Biology</i> , 2020 , 462, 85-100	3.1	8
205	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
204	Unmasking Arrhythmogenic Hubs of Reentry Driving Persistent Atrial Fibrillation for Patient-Specific Treatment. <i>Journal of the American Heart Association</i> , 2020 , 9, e017789	6	7

203	Muscle Twitch Kinetics Are Dependent on Muscle Group, Disease State, and Age in Duchenne Muscular Dystrophy Mouse Models. <i>Frontiers in Physiology</i> , 2020 , 11, 568909	4.6	2
202	Silencing miR-370-3p rescues funny current and sinus node function in heart failure. <i>Scientific Reports</i> , 2020 , 10, 11279	4.9	13
201	Response to Hall et al. <i>American Journal of Human Genetics</i> , 2020 , 107, 1188-1189	11	
200	Mutations in MYLPP Cause a Novel Segmental Amyoplasia that Manifests as Distal Arthrogryposis. <i>American Journal of Human Genetics</i> , 2020 , 107, 293-310	11	6
199	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
198	Mineralocorticoid receptor antagonism by finerenone is sufficient to improve function in preclinical muscular dystrophy. <i>ESC Heart Failure</i> , 2020 , 7, 3983	3.7	6
197	Stretching single titin molecules from failing human hearts reveals titin's role in blunting cardiac kinetic reserve. <i>Cardiovascular Research</i> , 2020 , 116, 127-137	9.9	
196	Impact of heart rate on cross-bridge cycling kinetics in failing and nonfailing human myocardium. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019 , 317, H640-H647	5.2	2
195	Assessment of temporal functional changes and miRNA profiling of human iPSC-derived cardiomyocytes. <i>Scientific Reports</i> , 2019 , 9, 13188	4.9	16
194	Defining new mechanistic roles for β spectrin in cardiac function. <i>Journal of Biological Chemistry</i> , 2019 , 294, 9576-9591	5.4	3
193	Modeling heart failure in animal models for novel drug discovery and development. <i>Expert Opinion on Drug Discovery</i> , 2019 , 14, 355-363	6.2	4
192	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
191	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
190	Patient mutations linked to arrhythmogenic cardiomyopathy enhance calpain-mediated desmoplakin degradation. <i>JCI Insight</i> , 2019 , 5,	9.9	16
189	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
188	An Overview of Muscle Biology and Physiology for Muscle Gene Therapy 2019 , 3-12		
187	Mineralocorticoid receptor antagonists improve membrane integrity independent of muscle force in muscular dystrophy. <i>Human Molecular Genetics</i> , 2019 , 28, 2030-2045	5.6	5
186	Myocardial relaxation in human heart failure: Why sarcomere kinetics should be center-stage. <i>Archives of Biochemistry and Biophysics</i> , 2019 , 661, 145-148	4.1	4

185 Mechanisms of Muscle Contraction and Relaxation **2019**, 39-50

184 Defining the molecular signatures of human right heart failure. *Life Sciences*, **2018**, 196, 118-126 6.8 13

183 Increased cross-bridge recruitment contributes to transient increase in force generation beyond maximal capacity in human myocardium. *Journal of Molecular and Cellular Cardiology*, **2018**, 114, 116-123^{5.8} 2

182 Altered regulation of cardiac ankyrin repeat protein in heart failure. *Heliyon*, **2018**, 4, e00514 3.6 7

181 Force-Dependent Recruitment from the Myosin Off State Contributes to Length-Dependent Activation. *Biophysical Journal*, **2018**, 115, 543-553 2.9 33

180 Mineralocorticoid Receptor Antagonists in Muscular Dystrophy Mice During Aging and Exercise. *Journal of Neuromuscular Diseases*, **2018**, 5, 295-306 5 8

179 Etiology-dependent impairment of relaxation kinetics in right ventricular end-stage failing human myocardium. *Journal of Molecular and Cellular Cardiology*, **2018**, 121, 81-93 5.8 20

178 NF- κ B inhibition rescues cardiac function by remodeling calcium genes in a Duchenne muscular dystrophy model. *Nature Communications*, **2018**, 9, 3431 17.4 23

177 Synchronization of Intracellular Ca Release in Multicellular Cardiac Preparations. *Frontiers in Physiology*, **2018**, 9, 968 4.6 2

176 Contraction and Relaxation Coupling Unaffected by Disease in Canine and Human Myocardium. *FASEB Journal*, **2018**, 32, 901.6 0.9

175 Submaximal Level Single Twitch Kinetics Dependent on Disease State in Duchenne Muscular Dystrophy Mouse Model. *FASEB Journal*, **2018**, 32, 852.3 0.9

174 Antiarrhythmic Activity of NMDA Receptor Antagonists in Humans Versus Animal Models. *FASEB Journal*, **2018**, 32, 901.16 0.9

173 Force-frequency Relationship and Early Relaxation Kinetics Are Preserved Upon SR Blockade in Human Myocardium. *FASEB Journal*, **2018**, 32, 903.15 0.9

172 Stretching Single Titin Molecules from Failing Human Hearts at Cardiac Cycle Reveals Titin's Role in Cardiac Kinetic Reserve. *FASEB Journal*, **2018**, 32, 903.6 0.9

171 Pazopanib for renal cell carcinoma leads to elevated mean arterial pressures in a murine model. *Clinical and Experimental Hypertension*, **2018**, 40, 524-533 2.2 3

170 Human Myocardium Has a Robust β_1 -Subtype Adrenergic Receptor Inotropic Response. *Journal of Cardiovascular Pharmacology*, **2018**, 72, 136-142 3.1 18

169 Protein Kinase A as a Promising Target for Heart Failure Drug Development. *Archives of Medical Research*, **2018**, 49, 530-537 6.6 15

168 Novel Mechanistic Roles for Ankyrin-G in Cardiac Remodeling and Heart Failure. *JACC Basic To Translational Science*, **2018**, 3, 675-689 8.7 8

167	Impaired adhesion of induced pluripotent stem cell-derived cardiac progenitor cells (iPSC-CPCs) to isolated extracellular matrix from failing hearts. <i>Heliyon</i> , 2018 , 4, e00870	3.6	
166	Assessment of PKA and PKC inhibitors on force and kinetics of non-failing and failing human myocardium. <i>Life Sciences</i> , 2018 , 215, 119-127	6.8	6
165	Force-frequency relationship and early relaxation kinetics are preserved upon sarcoplasmic blockade in human myocardium. <i>Physiological Reports</i> , 2018 , 6, e13898	2.6	9
164	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
163	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
162	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
161	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
160	Recovery following Thyroxine Treatment Withdrawal, but Not Propylthiouracil, Averts In Vivo and Ex Vivo Thyroxine-Provoked Cardiac Complications in Adult FVB/N Mice. <i>BioMed Research International</i> , 2017 , 2017, 6071031	3	6
159	Notch1 haploinsufficiency causes ascending aortic aneurysms in mice. <i>JCI Insight</i> , 2017 , 2,	9.9	27
158	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
157	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
156	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
155	In Vivo Genome Editing Restores Dystrophin Expression and Cardiac Function in Dystrophic Mice. <i>Circulation Research</i> , 2017 , 121, 923-929	15.7	86
154	Memantine, an NMDA Receptor Antagonist, Prevents Thyroxin-induced Hypertension, but Not Cardiac Remodeling. <i>Journal of Cardiovascular Pharmacology</i> , 2017 , 70, 305-313	3.1	7
153	Altered protein levels in the isolated extracellular matrix of failing human hearts with dilated cardiomyopathy. <i>Cardiovascular Pathology</i> , 2017 , 26, 12-20	3.8	9
152	Length-Dependent Prolongation of Force Relaxation Is Unaltered by Delay of Intracellular Calcium Decline in Early-Stage Rabbit Right Ventricular Hypertrophy. <i>Frontiers in Physiology</i> , 2017 , 8, 945	4.6	5
151	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
150	The Need for Speed: Mice, Men, and Myocardial Kinetic Reserve. <i>Circulation Research</i> , 2016 , 119, 418-21	15.7	25

149	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
148	Dysfunction of the β -spectrin-based pathway in human heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016 , 310, H1583-91	5.2	17
147	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
146	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
145	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
144	The Effect of Sorafenib, Tadalafil and Macitentan Treatments on Thyroxin-Induced Hemodynamic Changes and Cardiac Abnormalities. <i>PLoS ONE</i> , 2016 , 11, e0153694	3.7	4
143	Myocardial Contractile Dysfunction Is Present without Histopathology in a Mouse Model of Limb-Girdle Muscular Dystrophy-2F and Is Prevented after Claudin-5 Virotherapy. <i>Frontiers in Physiology</i> , 2016 , 7, 539	4.6	3
142	Myofilament Calcium Sensitivity: Role in Regulation of Cardiac Contraction and Relaxation. <i>Frontiers in Physiology</i> , 2016 , 7, 562	4.6	38
141	Myofilament Calcium Sensitivity: Mechanistic Insight into TnI Ser-23/24 and Ser-150 Phosphorylation Integration. <i>Frontiers in Physiology</i> , 2016 , 7, 567	4.6	16
140	Myofilament Calcium Sensitivity: Consequences of the Effective Concentration of Troponin I. <i>Frontiers in Physiology</i> , 2016 , 7, 632	4.6	20
139	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
138	Effect of exercise training and myocardial infarction on force development and contractile kinetics in isolated canine myocardium. <i>Journal of Applied Physiology</i> , 2016 , 120, 817-24	3.7	3
137	Insights into length-dependent regulation of cardiac cross-bridge cycling kinetics in human myocardium. <i>Archives of Biochemistry and Biophysics</i> , 2016 , 601, 48-55	4.1	8
136	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
135	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
134	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
133	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
132	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

131	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
130	Genetic disruption of <i>Ano5</i> in mice does not recapitulate human ANO5-deficient muscular dystrophy. <i>Skeletal Muscle</i> , 2015 , 5, 43	5.1	32
129	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
128	Dissociation of Calcium Transients and Force Development following a Change in Stimulation Frequency in Isolated Rabbit Myocardium. <i>BioMed Research International</i> , 2015 , 2015, 468548	3	3
127	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
126	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
125	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
124	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
123	In vivo assessment of contractile strength distinguishes differential gene function in skeletal muscle of zebrafish larvae. <i>Journal of Applied Physiology</i> , 2015 , 119, 799-806	3.7	8
122	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
121	Neuronal Na ⁺ channel blockade suppresses arrhythmogenic diastolic Ca ²⁺ release. <i>Cardiovascular Research</i> , 2015 , 106, 143-52	9.9	31
120	Dysfunction in the β II spectrin-dependent cytoskeleton underlies human arrhythmia. <i>Circulation</i> , 2015 , 131, 695-708	16.7	41
119	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
118	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
117	Small and large animal models in cardiac contraction research: advantages and disadvantages. <i>Pharmacology & Therapeutics</i> , 2014 , 141, 235-49	13.9	240
116	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
115	Tissue triage and freezing for models of skeletal muscle disease. <i>Journal of Visualized Experiments</i> , 2014 ,	1.6	30
114	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

113	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
112	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
111	Calcium-activated potassium current modulates ventricular repolarization in chronic heart failure. <i>PLoS ONE</i> , 2014 , 9, e108824	3.7	46
110	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
109	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
108	Tropomyosin Ser-283 pseudo-phosphorylation slows myofibril relaxation. <i>Archives of Biochemistry and Biophysics</i> , 2013 , 535, 30-8	4.1	28
107	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
106	AAV-mediated overexpression of human β 1 integrin leads to histological and functional improvement in dystrophic mice. <i>Molecular Therapy</i> , 2013 , 21, 520-5	11.7	30
105	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
104	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
103	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
102	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
101	Decreased RyR2 refractoriness determines myocardial synchronization of aberrant Ca2+ 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
100	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
99	The positive inotropic effect of pyruvate involves an increase in myofilament calcium sensitivity. <i>PLoS ONE</i> , 2013 , 8, e63608	3.7	14
98	Influenza-induced cardiopulmonary dysfunction and alveolar fluid clearance inhibition are attenuated in F508del CFTRheterozygous mice. <i>FASEB Journal</i> , 2013 , 27, 913.7	0.9	
97	The rates of Ca2+ 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
96	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

95	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	2.9	16
94	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
93	Impact of hydroxyl radical-induced injury on calcium handling and myofilament sensitivity in isolated myocardium. <i>Journal of Applied Physiology</i> , 2012 , 113, 766-74	3.7	5
92	Effects of increased preload on the force-frequency response and contractile kinetics in early stages of cardiac muscle hypertrophy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 302, H2509-17	5.2	5
91	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
90	Contractile parameters and occurrence of alternans in isolated rat myocardium at supra-physiological stimulation frequency. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 302, H2267-75	5.2	6
89	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
88	Staurosporine inhibits frequency-dependent myofilament desensitization in intact rabbit cardiac trabeculae. <i>Biochemistry Research International</i> , 2012 , 2012, 290971	2.4	4
87	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
86	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
85	Homologous recombination mediates functional recovery of dysferlin deficiency following AAV5 gene transfer. <i>PLoS ONE</i> , 2012 , 7, e39233	3.7	54
84	Role of endothelin in the induction of cardiac hypertrophy in vitro. <i>PLoS ONE</i> , 2012 , 7, e43179	3.7	30
83	mdx(β v) 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
82	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
81	In vitro studies of early cardiac remodeling impact on contraction and calcium handling. <i>Frontiers in Bioscience - Scholar</i> , 2011 , S3, 1047-1057	2.4	
80	Lengthening-contractions in isolated myocardium impact force development and worsen cardiac contractile function in the mdx mouse model of muscular dystrophy. <i>Journal of Applied Physiology</i> , 2011 , 110, 512-9	3.7	5
79	Effect of twitch interval duration on the contractile function of subsequent twitches in isolated rat, rabbit, and dog myocardium under physiological conditions. <i>Journal of Applied Physiology</i> , 2011 , 111, 1159-67	3.7	8
78	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

77	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
76	Effects of increased systolic Ca ²⁺ and phospholamban phosphorylation during β -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
75	Contractile strength during variable heart duration is species and preload dependent. <i>Journal of Biomedicine and Biotechnology</i> , 2011 , 2011, 294204		3
74	In vitro studies of early cardiac remodeling: impact on contraction and calcium handling. <i>Frontiers in Bioscience - Scholar</i> , 2011 , 3, 1047-57	2.4	3
73	Challenges in cardiac muscle physiology. <i>Frontiers in Physiology</i> , 2010 , 1, 2	4.6	4
72	Effects of hydroxyl radical induced-injury in atrial versus ventricular myocardium of dog and rabbit. <i>Frontiers in Physiology</i> , 2010 , 1, 25	4.6	2
71	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
70	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
69	Myocardial contraction-relaxation coupling. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010 , 299, H1741-9	5.2	68
68	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
67	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
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