

Kerry S Mcdonald

List of Publications by Citations

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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.

55
papers

2,099
citations

24
h-index

45
g-index

59
ext. papers

2,316
ext. citations

5.8
avg, IF

4.69
L-index

#	Paper	IF	Citations
55	Hypertrophic cardiomyopathy in cardiac myosin binding protein-C knockout mice. <i>Circulation Research</i> , 2002 , 90, 594-601	15.7	280
54	Small amounts of alpha-myosin heavy chain isoform expression significantly increase power output of rat cardiac myocyte fragments. <i>Circulation Research</i> , 2002 , 90, 1150-2	15.7	170
53	Loaded shortening, power output, and rate of force redevelopment are increased with knockout of cardiac myosin binding protein-C. <i>Circulation Research</i> , 2003 , 93, 752-8	15.7	132
52	Osmotic compression of single cardiac myocytes eliminates the reduction in Ca ²⁺ sensitivity of tension at short sarcomere length. <i>Circulation Research</i> , 1995 , 77, 199-205	15.7	122
51	The determinants of skeletal muscle force and power: their adaptability with changes in activity pattern. <i>Journal of Biomechanics</i> , 1991 , 24 Suppl 1, 111-22	2.9	111
50	Loaded shortening and power output in cardiac myocytes are dependent on myosin heavy chain isoform expression. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 281, H1217-22	5.2	106
49	Rate of tension development in cardiac muscle varies with level of activator calcium. <i>Circulation Research</i> , 1995 , 76, 154-60	15.7	92
48	Power output is linearly related to MyHC content in rat skinned myocytes and isolated working hearts. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 289, H801-12	5.2	88
47	Power output is increased after phosphorylation of myofibrillar proteins in rat skinned cardiac myocytes. <i>Circulation Research</i> , 2001 , 89, 1184-90	15.7	72
46	Sarcomere length dependence of the rate of tension redevelopment and submaximal tension in rat and rabbit skinned skeletal muscle fibres. <i>Journal of Physiology</i> , 1997 , 501 (Pt 3), 607-21	3.9	68
45	Cardiac function and modulation of sarcomeric function by length. <i>Cardiovascular Research</i> , 2008 , 77, 627-36	9.9	67
44	Heart failure with preserved ejection fraction: chronic low-intensity interval exercise training preserves myocardial O ₂ balance and diastolic function. <i>Journal of Applied Physiology</i> , 2013 , 114, 131-47	3.7	50
43	Sarcomere length dependence of rat skinned cardiac myocyte mechanical properties: dependence on myosin heavy chain. <i>Journal of Physiology</i> , 2007 , 581, 725-39	3.9	49
42	Ca ²⁺ dependence of loaded shortening in rat skinned cardiac myocytes and skeletal muscle fibres. <i>Journal of Physiology</i> , 2000 , 525 Pt 1, 169-81	3.9	48
41	Eccentric contraction injury in dystrophic canine muscle. <i>Archives of Physical Medicine and Rehabilitation</i> , 2002 , 83, 1572-8	2.8	46
40	TEAD-1 overexpression in the mouse heart promotes an age-dependent heart dysfunction. <i>Journal of Biological Chemistry</i> , 2010 , 285, 13721-35	5.4	37
39	Force-velocity and power-load curves in rat skinned cardiac myocytes. <i>Journal of Physiology</i> , 1998 , 511 (Pt 2), 519-31	3.9	37

38	Length dependence of force generation exhibit similarities between rat cardiac myocytes and skeletal muscle fibres. <i>Journal of Physiology</i> , 2010 , 588, 2891-903	3.9	36
37	Length dependence of striated muscle force generation is controlled by phosphorylation of cTnI at serines 23/24. <i>Journal of Physiology</i> , 2013 , 591, 4535-47	3.9	28
36	Sarcomere length dependence of power output is increased after PKA treatment in rat cardiac myocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009 , 296, H1524-31	5.2	28
35	Inorganic phosphate speeds loaded shortening in rat skinned cardiac myocytes. <i>American Journal of Physiology - Cell Physiology</i> , 2004 , 287, C500-7	5.4	26
34	Western Diet-Fed, Aortic-Banded Ossabaw Swine: A Preclinical Model of Cardio-Metabolic Heart Failure. <i>JACC Basic To Translational Science</i> , 2019 , 4, 404-421	8.7	25
33	Exercise improves impaired ventricular function and alterations of cardiac myofibrillar proteins in diabetic dyslipidemic pigs. <i>Journal of Applied Physiology</i> , 2005 , 98, 461-7	3.7	24
32	Incorporation of the troponin regulatory complex of post-ischemic stunned porcine myocardium reduces myofilament calcium sensitivity in rabbit psoas skeletal muscle fibers. <i>Journal of Molecular and Cellular Cardiology</i> , 1998 , 30, 285-96	5.8	24
31	Saxagliptin and Tadalafil Differentially Alter Cyclic Guanosine Monophosphate (cGMP) Signaling and Left Ventricular Function in Aortic-Banded Mini-Swine. <i>Journal of the American Heart Association</i> , 2016 , 5, e003277	6	20
30	Ca ²⁺ binding to troponin C in skinned skeletal muscle fibers assessed with caged Ca ²⁺ and a Ca ²⁺ fluorophore. Invariance of Ca ²⁺ binding as a function of sarcomere length. <i>Journal of Biological Chemistry</i> , 1997 , 272, 6018-27	5.4	20
29	The interdependence of Ca ²⁺ activation, sarcomere length, and power output in the heart. <i>Pflugers Archiv European Journal of Physiology</i> , 2011 , 462, 61-7	4.6	19
28	Protein kinase C depresses cardiac myocyte power output and attenuates myofilament responses induced by protein kinase A. <i>Journal of Muscle Research and Cell Motility</i> , 2012 , 33, 439-48	3.5	17
27	Length and PKA Dependence of Force Generation and Loaded Shortening in Porcine Cardiac Myocytes. <i>Biochemistry Research International</i> , 2012 , 2012, 371415	2.4	17
26	Regulation of myofilament force and loaded shortening by skeletal myosin binding protein C. <i>Journal of General Physiology</i> , 2019 , 151, 645-659	3.4	16
25	Regulatory light chain phosphorylation increases eccentric contraction-induced injury in skinned fast-twitch fibers. <i>Muscle and Nerve</i> , 2004 , 29, 313-7	3.4	16
24	Molecule specific effects of PKA-mediated phosphorylation on rat isolated heart and cardiac myofibrillar function. <i>Archives of Biochemistry and Biophysics</i> , 2016 , 601, 22-31	4.1	15
23	Strongly binding myosin crossbridges regulate loaded shortening and power output in cardiac myocytes. <i>Circulation Research</i> , 2000 , 87, 768-73	15.7	15
22	Histone deacetyltransferase inhibitors Trichostatin A and Mocetinostat differentially regulate MMP9, IL-18 and RECK expression, and attenuate Angiotensin II-induced cardiac fibroblast migration and proliferation. <i>Hypertension Research</i> , 2016 , 39, 709-716	4.7	14
21	Dantrolene suppresses spontaneous Ca ²⁺ release without altering excitation-contraction coupling in cardiomyocytes of aged mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014 , 307, H818-29	5.2	14

20	Porcine cardiac myocyte power output is increased after chronic exercise training. <i>Journal of Applied Physiology</i> , 2006 , 101, 40-6	3.7	14
19	Cardiac myofibrillar contractile properties during the progression from hypertension to decompensated heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017 , 313, H103-H113	5.2	13
18	Isometric and dynamic contractile properties of porcine skinned cardiac myocytes after stunning. <i>Circulation Research</i> , 1995 , 77, 964-72	15.7	13
17	Chronic low-intensity exercise attenuates cardiomyocyte contractile dysfunction and impaired adrenergic responsiveness in aortic-banded mini-swine. <i>Journal of Applied Physiology</i> , 2018 , 124, 1034-1044	3.7	13
16	Attenuated sarcomere lengthening of the aged murine left ventricle observed using two-photon fluorescence microscopy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 309, H918-25	5.2	12
15	It takes "heart" to win: what makes the heart powerful?. <i>Physiology</i> , 2002 , 17, 185-90	9.8	12
14	Skinned single fibers from normal and dystrophin-deficient dogs incur comparable stretch-induced force deficits. <i>Muscle and Nerve</i> , 2005 , 31, 768-71	3.4	11
13	Elevated Ca ²⁺ transients and increased myofibrillar power generation cause cardiac hypercontractility in a model of Noonan syndrome with multiple lentigines. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 308, H1086-95	5.2	10
12	Titin-mediated control of cardiac myofibrillar function. <i>Archives of Biochemistry and Biophysics</i> , 2014 , 552-553, 83-91	4.1	10
11	Regulation of Myofilament Contractile Function in Human Donor and Failing Hearts. <i>Frontiers in Physiology</i> , 2020 , 11, 468	4.6	7
10	Maximal ATPase activity and calcium sensitivity of reconstituted myofilaments are unaltered by the fetal troponin T re-expressed during human heart failure. <i>Journal of Molecular and Cellular Cardiology</i> , 2002 , 34, 797-805	5.8	7
9	Transient receptor potential vanilloid-4 contributes to stretch-induced hypercontractility and time-dependent dysfunction in the aged heart. <i>Cardiovascular Research</i> , 2020 , 116, 1887-1896	9.9	7
8	Beta-myosin heavy chain myocytes are more resistant to changes in power output induced by ischemic conditions. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 290, H869-77	5.2	4
7	Cardiac MyBP-C phosphorylation regulates the Frank-Starling relationship in murine hearts. <i>Journal of General Physiology</i> , 2021 , 153,	3.4	4
6	Regulating myofilament power: The determinant of health. <i>Archives of Biochemistry and Biophysics</i> , 2019 , 663, 160-164	4.1	2
5	Determinants of Loaded Shortening in Cardiac Myocytes. <i>Biophysical Journal</i> , 2010 , 98, 152a	2.9	2
4	Stretch-induced force deficits in murine extensor digitorum longus muscles after cardiotoxin injection. <i>Muscle and Nerve</i> , 2006 , 34, 485-8	3.4	2
3	Jack-of-many-trades: discovering new roles for troponin C. <i>Journal of Physiology</i> , 2018 , 596, 4553-4554	3.9	1

- 2 Regulation of cardiac muscle contraction: how paramount are the sarcomeres?. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2007**, 293, R961-R962 3.2
- 1 AMP activated kinase α 1 subunit knock-out causes concentric hypertrophy and elevated ventricular function. *FASEB Journal*, **2009**, 23, 989.4 0.9