

# Kerry S Mcdonald

## 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.

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	Cardiac MyBP-C phosphorylation regulates the Frank-Starling relationship in murine hearts. <i>Journal of General Physiology</i> , <b>2021</b> , 153,	3.4	4
54	Regulation of Myofilament Contractile Function in Human Donor and Failing Hearts. <i>Frontiers in Physiology</i> , <b>2020</b> , 11, 468	4.6	7
53	Transient receptor potential vanilloid-4 contributes to stretch-induced hypercontractility and time-dependent dysfunction in the aged heart. <i>Cardiovascular Research</i> , <b>2020</b> , 116, 1887-1896	9.9	7
52	Regulating myofilament power: The determinant of health. <i>Archives of Biochemistry and Biophysics</i> , <b>2019</b> , 663, 160-164	4.1	2
51	Regulation of myofilament force and loaded shortening by skeletal myosin binding protein C. <i>Journal of General Physiology</i> , <b>2019</b> , 151, 645-659	3.4	16
50	Western Diet-Fed, Aortic-Banded Ossabaw Swine: A Preclinical Model of Cardio-Metabolic Heart Failure. <i>JACC Basic To Translational Science</i> , <b>2019</b> , 4, 404-421	8.7	25
49	Jack-of-many-trades: discovering new roles for troponin C. <i>Journal of Physiology</i> , <b>2018</b> , 596, 4553-4554	3.9	1
48	Chronic low-intensity exercise attenuates cardiomyocyte contractile dysfunction and impaired adrenergic responsiveness in aortic-banded mini-swine. <i>Journal of Applied Physiology</i> , <b>2018</b> , 124, 1034-1044	3.7	13
47	Cardiac myofibrillar contractile properties during the progression from hypertension to decompensated heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2017</b> , 313, H103-H113	5.2	13
46	Molecule specific effects of PKA-mediated phosphorylation on rat isolated heart and cardiac myofibrillar function. <i>Archives of Biochemistry and Biophysics</i> , <b>2016</b> , 601, 22-31	4.1	15
45	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> , <b>2016</b> , 39, 709-716	4.7	14
44	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> , <b>2016</b> , 5, e003277	6	20
43	Elevated Ca <sup>2+</sup> 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> , <b>2015</b> , 308, H1086-95	5.2	10
42	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> , <b>2015</b> , 309, H918-25	5.2	12
41	Titin-mediated control of cardiac myofibrillar function. <i>Archives of Biochemistry and Biophysics</i> , <b>2014</b> , 552-553, 83-91	4.1	10
40	Dantrolene suppresses spontaneous Ca <sup>2+</sup> release without altering excitation-contraction coupling in cardiomyocytes of aged mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2014</b> , 307, H818-29	5.2	14
39	Heart failure with preserved ejection fraction: chronic low-intensity interval exercise training preserves myocardial O <sub>2</sub> balance and diastolic function. <i>Journal of Applied Physiology</i> , <b>2013</b> , 114, 131-47	3.7	50

38	Length dependence of striated muscle force generation is controlled by phosphorylation of cTnI at serines 23/24. <i>Journal of Physiology</i> , <b>2013</b> , 591, 4535-47	3.9	28
37	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> , <b>2012</b> , 33, 439-48	3.5	17
36	Length and PKA Dependence of Force Generation and Loaded Shortening in Porcine Cardiac Myocytes. <i>Biochemistry Research International</i> , <b>2012</b> , 2012, 371415	2.4	17
35	The interdependence of Ca <sup>2+</sup> activation, sarcomere length, and power output in the heart. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2011</b> , 462, 61-7	4.6	19
34	Length dependence of force generation exhibit similarities between rat cardiac myocytes and skeletal muscle fibres. <i>Journal of Physiology</i> , <b>2010</b> , 588, 2891-903	3.9	36
33	TEAD-1 overexpression in the mouse heart promotes an age-dependent heart dysfunction. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 13721-35	5.4	37
32	Determinants of Loaded Shortening in Cardiac Myocytes. <i>Biophysical Journal</i> , <b>2010</b> , 98, 152a	2.9	2
31	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> , <b>2009</b> , 296, H1524-31	5.2	28
30	AMP activated kinase $\alpha$ 1 subunit knock-out causes concentric hypertrophy and elevated ventricular function. <i>FASEB Journal</i> , <b>2009</b> , 23, 989.4	0.9	
29	Cardiac function and modulation of sarcomeric function by length. <i>Cardiovascular Research</i> , <b>2008</b> , 77, 627-36	9.9	67
28	Sarcomere length dependence of rat skinned cardiac myocyte mechanical properties: dependence on myosin heavy chain. <i>Journal of Physiology</i> , <b>2007</b> , 581, 725-39	3.9	49
27	Regulation of cardiac muscle contraction: how paramount are the sarcomeres?. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2007</b> , 293, R961-R962	3.2	
26	Stretch-induced force deficits in murine extensor digitorum longus muscles after cardiotoxin injection. <i>Muscle and Nerve</i> , <b>2006</b> , 34, 485-8	3.4	2
25	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> , <b>2006</b> , 290, H869-77 <sup>2</sup>	5.2	4
24	Porcine cardiac myocyte power output is increased after chronic exercise training. <i>Journal of Applied Physiology</i> , <b>2006</b> , 101, 40-6	3.7	14
23	Skinned single fibers from normal and dystrophin-deficient dogs incur comparable stretch-induced force deficits. <i>Muscle and Nerve</i> , <b>2005</b> , 31, 768-71	3.4	11
22	Exercise improves impaired ventricular function and alterations of cardiac myofibrillar proteins in diabetic dyslipidemic pigs. <i>Journal of Applied Physiology</i> , <b>2005</b> , 98, 461-7	3.7	24
21	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> , <b>2005</b> , 289, H801-12	5.2	88

20	Inorganic phosphate speeds loaded shortening in rat skinned cardiac myocytes. <i>American Journal of Physiology - Cell Physiology</i> , <b>2004</b> , 287, C500-7	5.4	26
19	Regulatory light chain phosphorylation increases eccentric contraction-induced injury in skinned fast-twitch fibers. <i>Muscle and Nerve</i> , <b>2004</b> , 29, 313-7	3.4	16
18	Loaded shortening, power output, and rate of force redevelopment are increased with knockout of cardiac myosin binding protein-C. <i>Circulation Research</i> , <b>2003</b> , 93, 752-8	15.7	132
17	Small amounts of alpha-myosin heavy chain isoform expression significantly increase power output of rat cardiac myocyte fragments. <i>Circulation Research</i> , <b>2002</b> , 90, 1150-2	15.7	170
16	Hypertrophic cardiomyopathy in cardiac myosin binding protein-C knockout mice. <i>Circulation Research</i> , <b>2002</b> , 90, 594-601	15.7	280
15	It takes "heart" to win: what makes the heart powerful?. <i>Physiology</i> , <b>2002</b> , 17, 185-90	9.8	12
14	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> , <b>2002</b> , 34, 797-805	5.8	7
13	Eccentric contraction injury in dystrophic canine muscle. <i>Archives of Physical Medicine and Rehabilitation</i> , <b>2002</b> , 83, 1572-8	2.8	46
12	Power output is increased after phosphorylation of myofibrillar proteins in rat skinned cardiac myocytes. <i>Circulation Research</i> , <b>2001</b> , 89, 1184-90	15.7	72
11	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> , <b>2001</b> , 281, H1217-22	5.2	106
10	Ca <sup>2+</sup> dependence of loaded shortening in rat skinned cardiac myocytes and skeletal muscle fibres. <i>Journal of Physiology</i> , <b>2000</b> , 525 Pt 1, 169-81	3.9	48
9	Strongly binding myosin crossbridges regulate loaded shortening and power output in cardiac myocytes. <i>Circulation Research</i> , <b>2000</b> , 87, 768-73	15.7	15
8	Force-velocity and power-load curves in rat skinned cardiac myocytes. <i>Journal of Physiology</i> , <b>1998</b> , 511 ( Pt 2), 519-31	3.9	37
7	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> , <b>1998</b> , 30, 285-96	5.8	24
6	Ca <sup>2+</sup> binding to troponin C in skinned skeletal muscle fibers assessed with caged Ca <sup>2+</sup> and a Ca <sup>2+</sup> fluorophore. Invariance of Ca <sup>2+</sup> binding as a function of sarcomere length. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 6018-27	5.4	20
5	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> , <b>1997</b> , 501 ( Pt 3), 607-21	3.9	68
4	Rate of tension development in cardiac muscle varies with level of activator calcium. <i>Circulation Research</i> , <b>1995</b> , 76, 154-60	15.7	92
3	Osmotic compression of single cardiac myocytes eliminates the reduction in Ca <sup>2+</sup> sensitivity of tension at short sarcomere length. <i>Circulation Research</i> , <b>1995</b> , 77, 199-205	15.7	122

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| 2 | Isometric and dynamic contractile properties of porcine skinned cardiac myocytes after stunning. <i>Circulation Research</i> , <b>1995</b> , 77, 964-72                     | 15.7 | 13  |
| 1 | The determinants of skeletal muscle force and power: their adaptability with changes in activity pattern. <i>Journal of Biomechanics</i> , <b>1991</b> , 24 Suppl 1, 111-22 | 2.9  | 111 |