

# Ian C Smith

## List of Publications by Citations

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46  
papers

760  
citations

15  
h-index

26  
g-index

47  
ext. papers

940  
ext. citations

3.2  
avg, IF

3.97  
L-index

#	Paper	IF	Citations
46	Obesity, Metabolic Syndrome, and Musculoskeletal Disease: Common Inflammatory Pathways Suggest a Central Role for Loss of Muscle Integrity. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 112	4.6	113
45	ATP consumption by sarcoplasmic reticulum Ca <sup>2+</sup> pumps accounts for 40-50% of resting metabolic rate in mouse fast and slow twitch skeletal muscle. <i>PLoS ONE</i> , <b>2013</b> , 8, e68924	3.7	67
44	A High-Fat High-Sucrose Diet Rapidly Alters Muscle Integrity, Inflammation and Gut Microbiota in Male Rats. <i>Scientific Reports</i> , <b>2016</b> , 6, 37278	4.9	65
43	Sarcolipin trumps $\beta$ -adrenergic receptor signaling as the favored mechanism for muscle-based diet-induced thermogenesis. <i>FASEB Journal</i> , <b>2013</b> , 27, 3871-8	0.9	40
42	Ablation of sarcolipin decreases the energy requirements for Ca <sup>2+</sup> transport by sarco(endo)plasmic reticulum Ca <sup>2+</sup> -ATPases in resting skeletal muscle. <i>FEBS Letters</i> , <b>2013</b> , 587, 1687-92	3.8	39
41	Nonlocalized postactivation performance enhancement (PAPE) effects in trained athletes: a pilot study. <i>Applied Physiology, Nutrition and Metabolism</i> , <b>2017</b> , 42, 1122-1125	3	39
40	Myosin phosphorylation and force potentiation in skeletal muscle: evidence from animal models. <i>Journal of Muscle Research and Cell Motility</i> , <b>2013</b> , 34, 317-32	3.5	38
39	Muscle metabolic, SR Ca <sup>2+</sup> -cycling responses to prolonged cycling, with and without glucose supplementation. <i>Journal of Applied Physiology</i> , <b>2007</b> , 103, 1986-98	3.7	36
38	Potentiation in mouse lumbrical muscle without myosin light chain phosphorylation: is resting calcium responsible?. <i>Journal of General Physiology</i> , <b>2013</b> , 141, 297-308	3.4	33
37	Sarcolipin provides a novel muscle-based mechanism for adaptive thermogenesis. <i>Exercise and Sport Sciences Reviews</i> , <b>2014</b> , 42, 136-42	6.7	30
36	The effect of skeletal myosin light chain kinase gene ablation on the fatigability of mouse fast muscle. <i>Journal of Muscle Research and Cell Motility</i> , <b>2011</b> , 31, 337-48	3.5	24
35	Protection of muscle membrane excitability during prolonged cycle exercise with glucose supplementation. <i>Journal of Applied Physiology</i> , <b>2007</b> , 103, 331-9	3.7	22
34	Phospholamban overexpression in mice causes a centronuclear myopathy-like phenotype. <i>DMM Disease Models and Mechanisms</i> , <b>2015</b> , 8, 999-1009	4.1	21
33	Acute and chronic changes in rat soleus muscle after high-fat high-sucrose diet. <i>Physiological Reports</i> , <b>2017</b> , 5, e13270	2.6	21
32	Titin force enhancement following active stretch of skinned skeletal muscle fibres. <i>Journal of Experimental Biology</i> , <b>2017</b> , 220, 3110-3118	3	15
31	Functional, morphological, and apoptotic alterations in skeletal muscle of ARC deficient mice. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , <b>2015</b> , 20, 310-26	5.4	15
30	Diaphragm assessment in mice overexpressing phospholamban in slow-twitch type I muscle fibers. <i>Brain and Behavior</i> , <b>2016</b> , 6, e00470	3.4	13

29	Juxtaposition of the changes in intracellular calcium and force during staircase potentiation at 30 and 37°C. <i>Journal of General Physiology</i> , <b>2014</b> , 144, 561-70	3.4	11
28	Can increases in capillarization explain the early adaptations in metabolic regulation in human muscle to short-term training?. <i>Canadian Journal of Physiology and Pharmacology</i> , <b>2012</b> , 90, 557-66	2.4	10
27	Muscle fatigue and excitation-contraction coupling responses following a session of prolonged cycling. <i>Acta Physiologica</i> , <b>2011</b> , 203, 441-55	5.6	10
26	Can inorganic phosphate explain sag during unfused tetanic contractions of skeletal muscle?. <i>Physiological Reports</i> , <b>2016</b> , 4, e13043	2.6	10
25	Malleability of human skeletal muscle sarcoplasmic reticulum to short-term training. <i>Applied Physiology, Nutrition and Metabolism</i> , <b>2011</b> , 36, 904-12	3	9
24	Muscle metabolic, enzymatic and transporter responses to a session of prolonged cycling. <i>European Journal of Applied Physiology</i> , <b>2011</b> , 111, 827-37	3.4	8
23	The effects of buthionine sulfoximine treatment on diaphragm contractility and SERCA pump function in adult and middle aged rats. <i>Physiological Reports</i> , <b>2015</b> , 3, e12547	2.6	7
22	Posttetanic potentiation in mdx muscle. <i>Journal of Muscle Research and Cell Motility</i> , <b>2010</b> , 31, 267-77	3.5	7
21	Role of exercise duration on metabolic adaptations in working muscle to short-term moderate-to-heavy aerobic-based cycle training. <i>European Journal of Applied Physiology</i> , <b>2013</b> , 113, 1965-78	3.4	6
20	Adaptations in muscle metabolic regulation require only a small dose of aerobic-based exercise. <i>European Journal of Applied Physiology</i> , <b>2013</b> , 113, 313-24	3.4	6
19	Excitation-contraction coupling properties in women with work-related myalgia: a preliminary study. <i>Canadian Journal of Physiology and Pharmacology</i> , <b>2014</b> , 92, 498-506	2.4	6
18	Cellular responses in skeletal muscle to a season of ice hockey. <i>Applied Physiology, Nutrition and Metabolism</i> , <b>2010</b> , 35, 657-70	3	6
17	The sag response in human muscle contraction. <i>European Journal of Applied Physiology</i> , <b>2018</b> , 118, 1063-1077	3.4	4
16	A pilot study to determine whether differences exist in histochemical properties between the trapezius and extensor carpi radialis brevis muscles in women with work-related myalgia. <i>Canadian Journal of Physiology and Pharmacology</i> , <b>2014</b> , 92, 315-23	2.4	4
15	A Comment on "A New Taxonomy for Postactivation Potentiation in Sport". <i>International Journal of Sports Physiology and Performance</i> , <b>2021</b> , 16, 163	3.5	4
14	Contraction-induced enhancement of relaxation during high force contractions of mouse lumbrical muscle at 37°C. <i>Journal of Experimental Biology</i> , <b>2017</b> , 220, 2870-2873	3	3
13	Preliminary observations on high energy phosphates and metabolic pathway and transporter potentials in extensor carpi radialis brevis and trapezius muscles of women with work-related myalgia. <i>Canadian Journal of Physiology and Pharmacology</i> , <b>2014</b> , 92, 953-60	2.4	3
12	Muscle cellular properties in the ice hockey player: a model for investigating overtraining?. <i>Canadian Journal of Physiology and Pharmacology</i> , <b>2012</b> , 90, 567-78	2.4	2

11	Caffeine attenuates contraction-induced diminutions of the intracellular calcium transient in mouse lumbrical muscle ex vivo. <i>Canadian Journal of Physiology and Pharmacology</i> , <b>2019</b> , 97, 429-435	2.4	2
10	The effects of inorganic phosphate on contractile function of slow skeletal muscle fibres are length-dependent. <i>Biochemical and Biophysical Research Communications</i> , <b>2020</b> , 533, 818-823	3.4	2
9	Association of peak aerobic power with capillary density but not oxidative potential in human vastus lateralis muscle. <i>Canadian Journal of Physiology and Pharmacology</i> , <b>2011</b> , 89, 819-27	2.4	2
8	Neuromuscular manifestations of work-related myalgia in women specific to extensor carpi radialis brevis. <i>Canadian Journal of Physiology and Pharmacology</i> , <b>2017</b> , 95, 404-419	2.4	1
7	A brief contraction has complex effects on summation of twitch pairs in human adductor pollicis. <i>Experimental Physiology</i> , <b>2020</b> , 105, 676-689	2.4	1
6	The effect of ARC ablation on skeletal muscle morphology, function, and apoptotic signaling during aging. <i>Experimental Gerontology</i> , <b>2018</b> , 101, 69-79	4.5	1
5	Initial force production before sag is enhanced by prior contraction followed by a 3-minute rest period in fast motor units of the rat medial gastrocnemius. <i>Journal of Electromyography and Kinesiology</i> , <b>2020</b> , 53, 102429	2.5	1
4	Can a chloride channel blocker mitigate muscle fatigue?. <i>Journal of Physiology</i> , <b>2021</b> , 599, 2145-2147	3.9	1
3	Contractility of permeabilized rat vastus intermedius muscle fibres following high-fat, high-sucrose diet consumption. <i>Applied Physiology, Nutrition and Metabolism</i> , <b>2021</b> , 46, 1389-1399	3	1
2	Contractile history affects sag and boost properties of unfused tetanic contractions in human quadriceps muscles. <i>European Journal of Applied Physiology</i> , <b>2021</b> , 121, 645-658	3.4	1
1	Cellular properties of extensor carpi radialis brevis and trapezius muscles in healthy males and females. <i>Canadian Journal of Physiology and Pharmacology</i> , <b>2015</b> , 93, 953-66	2.4	