

# Hakan Westerblad

## List of Publications by Citations

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165  
papers

7,222  
citations

51  
h-index

79  
g-index

193  
ext. papers

8,037  
ext. citations

4.6  
avg, IF

5.85  
L-index

#	Paper	IF	Citations
165	Effect of hydrogen peroxide and dithiothreitol on contractile function of single skeletal muscle fibres from the mouse. <i>Journal of Physiology</i> , <b>1998</b> , 509 ( Pt 2), 565-75	3.9	304
164	Respiratory and limb muscle weakness induced by tumor necrosis factor-alpha: involvement of muscle myofilaments. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2002</b> , 166, 479-84	10.2	249
163	Increased mitochondrial mass in mitochondrial myopathy mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 15066-71	11.5	226
162	Dietary nitrate increases tetanic $[Ca^{2+}]_i$ and contractile force in mouse fast-twitch muscle. <i>Journal of Physiology</i> , <b>2012</b> , 590, 3575-83	3.9	192
161	Skeletal muscle: energy metabolism, fiber types, fatigue and adaptability. <i>Experimental Cell Research</i> , <b>2010</b> , 316, 3093-9	4.2	173
160	Muscle fatigue: lactic acid or inorganic phosphate the major cause?. <i>Physiology</i> , <b>2002</b> , 17, 17-21	9.8	169
159	Muscle glycogen stores and fatigue. <i>Journal of Physiology</i> , <b>2013</b> , 591, 4405-13	3.9	168
158	Properly formed but improperly localized synaptic specializations in the absence of laminin alpha4. <i>Nature Neuroscience</i> , <b>2001</b> , 4, 597-604	25.5	166
157	Role of reactive oxygen species in contraction-mediated glucose transport in mouse skeletal muscle. <i>Journal of Physiology</i> , <b>2006</b> , 575, 251-62	3.9	165
156	Impaired calcium release during fatigue. <i>Journal of Applied Physiology</i> , <b>2008</b> , 104, 296-305	3.7	145
155	Contractile response of skeletal muscle to low peroxide concentrations: myofibrillar calcium sensitivity as a likely target for redox-modulation. <i>FASEB Journal</i> , <b>2001</b> , 15, 309-11	0.9	135
154	Respiratory chain dysfunction in skeletal muscle does not cause insulin resistance. <i>Biochemical and Biophysical Research Communications</i> , <b>2006</b> , 350, 202-7	3.4	122
153	Acute effects of reactive oxygen and nitrogen species on the contractile function of skeletal muscle. <i>Journal of Physiology</i> , <b>2011</b> , 589, 2119-27	3.9	113
152	Hypermetabolism in mice caused by the central action of an unliganded thyroid hormone receptor alpha1. <i>EMBO Journal</i> , <b>2007</b> , 26, 4535-45	13	107
151	Functional significance of $Ca^{2+}$ in long-lasting fatigue of skeletal muscle. <i>European Journal of Applied Physiology</i> , <b>2000</b> , 83, 166-74	3.4	107
150	Muscle fatigue: from observations in humans to underlying mechanisms studied in intact single muscle fibres. <i>European Journal of Applied Physiology</i> , <b>2010</b> , 110, 1-15	3.4	106
149	Ryanodine receptor fragmentation and sarcoplasmic reticulum $Ca^{2+}$ leak after one session of high-intensity interval exercise. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 15492-7	11.5	100

148	Effect of nitric oxide on single skeletal muscle fibres from the mouse. <i>Journal of Physiology</i> , <b>1998</b> , 509 ( Pt 2), 577-86	3.9	99
147	Effects of concentric and eccentric contractions on phosphorylation of MAPK(erk1/2) and MAPK(p38) in isolated rat skeletal muscle. <i>Journal of Physiology</i> , <b>2001</b> , 535, 155-64	3.9	95
146	Mitochondrial production of reactive oxygen species contributes to the $\beta$ -adrenergic stimulation of mouse cardiomyocytes. <i>Journal of Physiology</i> , <b>2011</b> , 589, 1791-801	3.9	92
145	Reactive oxygen species and fatigue-induced prolonged low-frequency force depression in skeletal muscle fibres of rats, mice and SOD2 overexpressing mice. <i>Journal of Physiology</i> , <b>2008</b> , 586, 175-84	3.9	92
144	Effects of palmitate on Ca(2+) handling in adult control and ob/ob cardiomyocytes: impact of mitochondrial reactive oxygen species. <i>Diabetes</i> , <b>2007</b> , 56, 1136-42	0.9	91
143	Endurance exercise increases skeletal muscle kynurenine aminotransferases and plasma kynurenic acid in humans. <i>American Journal of Physiology - Cell Physiology</i> , <b>2016</b> , 310, C836-40	5.4	88
142	Neuromuscular junction disassembly and muscle fatigue in mice lacking neurotrophin-4. <i>Molecular and Cellular Neurosciences</i> , <b>2001</b> , 18, 56-67	4.8	88
141	Locomotor deficiencies and aberrant development of subtype-specific GABAergic interneurons caused by an unliganded thyroid hormone receptor alpha1. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 1904-15	6.6	86
140	Emerging roles of ROS/RNS in muscle function and fatigue. <i>Antioxidants and Redox Signaling</i> , <b>2011</b> , 15, 2487-99	8.4	83
139	Is creatine kinase responsible for fatigue? Studies of isolated skeletal muscle deficient in creatine kinase. <i>FASEB Journal</i> , <b>2000</b> , 14, 982-90	0.9	79
138	Doxorubicin acts through tumor necrosis factor receptor subtype 1 to cause dysfunction of murine skeletal muscle. <i>Journal of Applied Physiology</i> , <b>2009</b> , 107, 1935-42	3.7	75
137	Recent advances in the understanding of skeletal muscle fatigue. <i>Current Opinion in Rheumatology</i> , <b>2002</b> , 14, 648-52	5.3	74
136	Reactive oxygen/nitrogen species and contractile function in skeletal muscle during fatigue and recovery. <i>Journal of Physiology</i> , <b>2016</b> , 594, 5149-60	3.9	71
135	The role of Ca <sup>2+</sup> influx for insulin-mediated glucose uptake in skeletal muscle. <i>Diabetes</i> , <b>2006</b> , 55, 2077-83	3.9	69
134	A1 receptor deficiency causes increased insulin and glucagon secretion in mice. <i>Biochemical Pharmacology</i> , <b>2007</b> , 74, 1628-35	6	68
133	Role of myoplasmic phosphate in contractile function of skeletal muscle: studies on creatine kinase-deficient mice. <i>Journal of Physiology</i> , <b>2001</b> , 533, 379-88	3.9	68
132	Limited oxygen diffusion accelerates fatigue development in mouse skeletal muscle. <i>Journal of Physiology</i> , <b>2006</b> , 572, 551-9	3.9	67
131	Insulin and inositol 1,4,5-trisphosphate trigger abnormal cytosolic Ca <sup>2+</sup> transients and reveal mitochondrial Ca <sup>2+</sup> handling defects in cardiomyocytes of ob/ob mice. <i>Diabetes</i> , <b>2005</b> , 54, 2375-81	0.9	67

130	Mitochondrial and myoplasmic [Ca <sup>2+</sup> ] in single fibres from mouse limb muscles during repeated tetanic contractions. <i>Journal of Physiology</i> , <b>2003</b> , 551, 179-90	3.9	67
129	Slowed relaxation in fatigued skeletal muscle fibers of <i>Xenopus</i> and Mouse. Contribution of [Ca <sup>2+</sup> ] <sub>i</sub> and cross-bridges. <i>Journal of General Physiology</i> , <b>1997</b> , 109, 385-99	3.4	66
128	Effects of CO <sub>2</sub> -induced acidification on the fatigue resistance of single mouse muscle fibers at 28 degrees C. <i>Journal of Applied Physiology</i> , <b>1998</b> , 85, 478-83	3.7	66
127	Cellular mechanisms of skeletal muscle fatigue. <i>Advances in Experimental Medicine and Biology</i> , <b>2003</b> , 538, 563-70; discussion 571	3.6	65
126	Improved exercise performance and increased aerobic capacity after endurance training of patients with stable polymyositis and dermatomyositis. <i>Arthritis Research and Therapy</i> , <b>2013</b> , 15, R83	5.7	64
125	Difference in skeletal muscle function in males vs. females: role of estrogen receptor-beta. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2004</b> , 287, E1125-31	6	64
124	Effects of HMGB1 on in vitro responses of isolated muscle fibers and functional aspects in skeletal muscles of idiopathic inflammatory myopathies. <i>FASEB Journal</i> , <b>2010</b> , 24, 570-8	0.9	63
123	TLR4 as receptor for HMGB1 induced muscle dysfunction in myositis. <i>Annals of the Rheumatic Diseases</i> , <b>2013</b> , 72, 1390-9	2.4	62
122	Increased fatigue resistance linked to Ca <sup>2+</sup> -stimulated mitochondrial biogenesis in muscle fibres of cold-acclimated mice. <i>Journal of Physiology</i> , <b>2010</b> , 588, 4275-88	3.9	62
121	Mechanisms underlying reduced maximum shortening velocity during fatigue of intact, single fibres of mouse muscle. <i>Journal of Physiology</i> , <b>1998</b> , 510 ( Pt 1), 269-77	3.9	56
120	Increased mitochondrial Ca <sup>2+</sup> and decreased sarcoplasmic reticulum Ca <sup>2+</sup> in mitochondrial myopathy. <i>Human Molecular Genetics</i> , <b>2009</b> , 18, 278-88	5.6	55
119	Knockdown of TRPC3 with siRNA coupled to carbon nanotubes results in decreased insulin-mediated glucose uptake in adult skeletal muscle cells. <i>FASEB Journal</i> , <b>2009</b> , 23, 1728-38	0.9	53
118	Effects of glucose on contractile function, [Ca <sup>2+</sup> ] <sub>i</sub> , and glycogen in isolated mouse skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , <b>2002</b> , 282, C1306-12	5.4	53
117	Ryanodine receptors of pancreatic beta-cells mediate a distinct context-dependent signal for insulin secretion. <i>FASEB Journal</i> , <b>2003</b> , 17, 301-3	0.9	53
116	Antioxidant treatments do not improve force recovery after fatiguing stimulation of mouse skeletal muscle fibres. <i>Journal of Physiology</i> , <b>2015</b> , 593, 457-72	3.9	52
115	TNF- $\alpha$ -mediated caspase-8 activation induces ROS production and TRPM2 activation in adult ventricular myocytes. <i>Cardiovascular Research</i> , <b>2014</b> , 103, 90-9	9.9	51
114	Local arginase inhibition during early reperfusion mediates cardioprotection via increased nitric oxide production. <i>PLoS ONE</i> , <b>2012</b> , 7, e42038	3.7	51
113	Molecular Basis for Exercise-Induced Fatigue: The Importance of Strictly Controlled Cellular Ca Handling. <i>Cold Spring Harbor Perspectives in Medicine</i> , <b>2018</b> , 8,	5.4	50

112	The role of in vivo Ca <sup>2+</sup> signals acting on Ca <sup>2+</sup> -calmodulin-dependent proteins for skeletal muscle plasticity. <i>Journal of Physiology</i> , <b>2011</b> , 589, 5021-31	3.9	50
111	Nonshivering thermogenesis protects against defective calcium handling in muscle. <i>FASEB Journal</i> , <b>2008</b> , 22, 3919-24	0.9	49
110	Mechanisms of fatigue induced by isometric contractions in exercising humans and in mouse isolated single muscle fibres. <i>Clinical and Experimental Pharmacology and Physiology</i> , <b>2009</b> , 36, 334-9	3	47
109	Physiology. Lactic acid--the latest performance-enhancing drug. <i>Science</i> , <b>2004</b> , 305, 1112-3	33.3	47
108	Acidosis Is Not a Significant Cause of Skeletal Muscle Fatigue. <i>Medicine and Science in Sports and Exercise</i> , <b>2016</b> , 48, 2339-2342	1.2	47
107	Pacing-induced calcineurin activation controls cardiac Ca <sup>2+</sup> signalling and gene expression. <i>Journal of Physiology</i> , <b>2004</b> , 554, 309-20	3.9	46
106	Subcellular distribution of glycogen and decreased tetanic Ca <sup>2+</sup> in fatigued single intact mouse muscle fibres. <i>Journal of Physiology</i> , <b>2014</b> , 592, 2003-12	3.9	45
105	Cross bridges account for only 20% of total ATP consumption during submaximal isometric contraction in mouse fast-twitch skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , <b>2006</b> , 291, C147-54	5.4	45
104	Post-exercise recovery of contractile function and endurance in humans and mice is accelerated by heating and slowed by cooling skeletal muscle. <i>Journal of Physiology</i> , <b>2017</b> , 595, 7413-7426	3.9	44
103	Ca(2+) and insulin-mediated glucose uptake. <i>Current Opinion in Pharmacology</i> , <b>2008</b> , 8, 339-45	5.1	44
102	Vacuole formation in fatigued skeletal muscle fibres from frog and mouse: effects of extracellular lactate. <i>Journal of Physiology</i> , <b>2000</b> , 526 Pt 3, 597-611	3.9	42
101	Insulin potentiates TRPC3-mediated cation currents in normal but not in insulin-resistant mouse cardiomyocytes. <i>Cardiovascular Research</i> , <b>2007</b> , 73, 376-85	9.9	40
100	Vacuole formation in fatigued single muscle fibres from frog and mouse. <i>Journal of Muscle Research and Cell Motility</i> , <b>1999</b> , 20, 19-32	3.5	38
99	Impaired myofibrillar function in the soleus muscle of mice with collagen-induced arthritis. <i>Arthritis and Rheumatism</i> , <b>2009</b> , 60, 3280-9		37
98	Nitrosative modifications of the Ca <sup>2+</sup> release complex and actin underlie arthritis-induced muscle weakness. <i>Annals of the Rheumatic Diseases</i> , <b>2015</b> , 74, 1907-14	2.4	34
97	Inhibition of creatine kinase reduces the rate of fatigue-induced decrease in tetanic [Ca(2+)](i) in mouse skeletal muscle. <i>Journal of Physiology</i> , <b>2001</b> , 533, 639-49	3.9	34
96	Mice expressing L345P mutant desmin exhibit morphological and functional changes of skeletal and cardiac mitochondria. <i>Journal of Muscle Research and Cell Motility</i> , <b>2008</b> , 29, 25-36	3.5	33
95	Activation of aconitase in mouse fast-twitch skeletal muscle during contraction-mediated oxidative stress. <i>American Journal of Physiology - Cell Physiology</i> , <b>2007</b> , 293, C1154-9	5.4	31

94	Effects of CGS 9343B (a putative calmodulin antagonist) on isolated skeletal muscle. Dissociation of signaling pathways for insulin-mediated activation of glycogen synthase and hexose transport. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 25613-8	5.4	31
93	Mechanisms of force depression caused by different types of physical exercise studied by direct electrical stimulation of human quadriceps muscle. <i>European Journal of Applied Physiology</i> , <b>2016</b> , 116, 2215-2224	3.4	30
92	Effects of congestive heart failure on Ca <sup>2+</sup> handling in skeletal muscle during fatigue. <i>Circulation Research</i> , <b>2006</b> , 98, 1514-9	15.7	29
91	Calmodulin kinase modulates Ca <sup>2+</sup> release in mouse skeletal muscle. <i>Journal of Physiology</i> , <b>2003</b> , 551, 5-12	3.9	29
90	Impaired mitochondrial respiration and decreased fatigue resistance followed by severe muscle weakness in skeletal muscle of mitochondrial DNA mutator mice. <i>Journal of Physiology</i> , <b>2012</b> , 590, 6187-97	3.9	28
89	{beta}-Hydroxybutyrate inhibits insulin-mediated glucose transport in mouse oxidative muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2010</b> , 299, E364-73	6	28
88	High temperature does not alter fatigability in intact mouse skeletal muscle fibres. <i>Journal of Physiology</i> , <b>2009</b> , 587, 4717-24	3.9	27
87	Mechanical work as predictor of force enhancement and force depression. <i>Journal of Biomechanics</i> , <b>2009</b> , 42, 1628-34	2.9	25
86	Mechanical load plays little role in contraction-mediated glucose transport in mouse skeletal muscle. <i>Journal of Physiology</i> , <b>2007</b> , 579, 527-34	3.9	25
85	Impaired Ca <sup>2+</sup> handling and contraction in cardiomyocytes from mice with a dominant negative thyroid hormone receptor alpha1. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2005</b> , 38, 655-63	5.8	25
84	Mitochondrial function in intact skeletal muscle fibres of creatine kinase deficient mice. <i>Journal of Physiology</i> , <b>2003</b> , 552, 393-402	3.9	25
83	Doublet discharge stimulation increases sarcoplasmic reticulum Ca <sup>2+</sup> release and improves performance during fatiguing contractions in mouse muscle fibres. <i>Journal of Physiology</i> , <b>2013</b> , 591, 3739-48	3.9	23
82	Muscle dysfunction associated with adjuvant-induced arthritis is prevented by antioxidant treatment. <i>Skeletal Muscle</i> , <b>2015</b> , 5, 20	5.1	23
81	Methods to detect Ca(2+) in living cells. <i>Advances in Experimental Medicine and Biology</i> , <b>2012</b> , 740, 27-43	3.6	23
80	Antioxidants and Skeletal Muscle Performance: "Common Knowledge" vs. Experimental Evidence. <i>Frontiers in Physiology</i> , <b>2012</b> , 3, 46	4.6	23
79	Interpolated twitches in fatiguing single mouse muscle fibres: implications for the assessment of central fatigue. <i>Journal of Physiology</i> , <b>2008</b> , 586, 2799-805	3.9	23
78	Intracellular ATP measured with luciferin/luciferase in isolated single mouse skeletal muscle fibres. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2002</b> , 443, 836-42	4.6	23
77	Creatine kinase injection restores contractile function in creatine-kinase-deficient mouse skeletal muscle fibres. <i>Journal of Physiology</i> , <b>2003</b> , 547, 395-403	3.9	23

76	Isometric force and endurance in soleus muscle of thyroid hormone receptor-alpha(1)- or -beta-deficient mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2000</b> , 278, R598-603	3.2	23
75	Mechanical isolation, and measurement of force and myoplasmic free [Ca] in fully intact single skeletal muscle fibers. <i>Nature Protocols</i> , <b>2017</b> , 12, 1763-1776	18.8	22
74	The decrease in electrically evoked force production is delayed by a previous bout of stretch-shortening cycle exercise. <i>Acta Physiologica</i> , <b>2010</b> , 198, 91-8	5.6	20
73	Abnormal Ca(2+) release and catecholamine-induced arrhythmias in mitochondrial cardiomyopathy. <i>Human Molecular Genetics</i> , <b>2005</b> , 14, 1069-76	5.6	20
72	SR Ca leak in skeletal muscle fibers acts as an intracellular signal to increase fatigue resistance. <i>Journal of General Physiology</i> , <b>2019</b> , 151, 567-577	3.4	20
71	Prolonged force depression after mechanically demanding contractions is largely independent of Ca and reactive oxygen species. <i>FASEB Journal</i> , <b>2017</b> , 31, 4809-4820	0.9	19
70	Dietary nitrate markedly improves voluntary running in mice. <i>Physiology and Behavior</i> , <b>2017</b> , 168, 55-61	3.5	19
69	Upregulation of MHC class I in transgenic mice results in reduced force-generating capacity in slow-twitch muscle. <i>Muscle and Nerve</i> , <b>2009</b> , 39, 674-82	3.4	19
68	Myogenic skeletal muscle satellite cells communicate by tunnelling nanotubes. <i>Journal of Cellular Physiology</i> , <b>2010</b> , 223, 376-83	7	19
67	Regulation of myoplasmic Ca(2+) in genetically obese (ob/ob) mouse single skeletal muscle fibres. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2002</b> , 444, 692-9	4.6	19
66	Muscular force production after concentric contraction. <i>Journal of Biomechanics</i> , <b>2008</b> , 41, 2422-9	2.9	18
65	CBA/J mice infected with <i>Trypanosoma cruzi</i> : an experimental model for inflammatory myopathies. <i>Muscle and Nerve</i> , <b>2003</b> , 27, 442-8	3.4	18
64	Impaired Ca(2+) release contributes to muscle weakness in a rat model of critical illness myopathy. <i>Critical Care</i> , <b>2016</b> , 20, 254	10.8	18
63	Fast skeletal muscle troponin activator CK-2066260 increases fatigue resistance by reducing the energetic cost of muscle contraction. <i>Journal of Physiology</i> , <b>2019</b> , 597, 4615-4625	3.9	17
62	Intracellular Ca(2+)-handling differs markedly between intact human muscle fibers and myotubes. <i>Skeletal Muscle</i> , <b>2015</b> , 5, 26	5.1	17
61	A Mechanism for Statin-Induced Susceptibility to Myopathy. <i>JACC Basic To Translational Science</i> , <b>2019</b> , 4, 509-523	8.7	16
60	Superoxide dismutase/catalase mimetic EUK-134 prevents diaphragm muscle weakness in monocrotalin-induced pulmonary hypertension. <i>PLoS ONE</i> , <b>2017</b> , 12, e0169146	3.7	16
59	Effects of N-acetylcysteine on isolated mouse skeletal muscle: contractile properties, temperature dependence, and metabolism. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2014</b> , 466, 577-85	4.6	16

58	What limits exercise during high-intensity aerobic exercise?. <i>European Journal of Applied Physiology</i> , <b>2010</b> , 110, 661-2; author reply 663-4	3.4	16
57	Contraction-mediated glycogenolysis in mouse skeletal muscle lacking creatine kinase: the role of phosphorylase b activation. <i>Journal of Physiology</i> , <b>2003</b> , 553, 523-31	3.9	16
56	Dietary nitrate improves cardiac contractility via enhanced cellular Ca <sup>2+</sup> signaling. <i>Basic Research in Cardiology</i> , <b>2016</b> , 111, 34	11.8	16
55	Activation of glucose transport and AMP-activated protein kinase during muscle contraction in adenylate kinase-1 knockout mice. <i>Acta Physiologica</i> , <b>2008</b> , 192, 413-20	5.6	15
54	STIM1 R304W causes muscle degeneration and impaired platelet activation in mice. <i>Cell Calcium</i> , <b>2018</b> , 76, 87-100	4	15
53	Impaired sarcoplasmic reticulum Ca release is the major cause of fatigue-induced force loss in intact single fibres from human intercostal muscle. <i>Journal of Physiology</i> , <b>2020</b> , 598, 773-787	3.9	14
52	The Role of Reactive Oxygen Species in $\beta$ -Adrenergic Signaling in Cardiomyocytes from Mice with the Metabolic Syndrome. <i>PLoS ONE</i> , <b>2016</b> , 11, e0167090	3.7	14
51	Muscle Fatigue Affects the Interpolated Twitch Technique When Assessed Using Electrically-Induced Contractions in Human and Rat Muscles. <i>Frontiers in Physiology</i> , <b>2016</b> , 7, 252	4.6	14
50	Preconditioning contractions prevent the delayed onset of myofibrillar dysfunction after damaging eccentric contractions. <i>Journal of Physiology</i> , <b>2018</b> , 596, 4427-4442	3.9	13
49	Regulation of glycogen breakdown and its consequences for skeletal muscle function after training. <i>Mammalian Genome</i> , <b>2014</b> , 25, 464-72	3.2	13
48	The Ca sensitizer CK-2066260 increases myofibrillar Ca sensitivity and submaximal force selectively in fast skeletal muscle. <i>Journal of Physiology</i> , <b>2017</b> , 595, 1657-1670	3.9	13
47	Residual force depression following muscle shortening is exaggerated by prior eccentric drop jump exercise. <i>Journal of Applied Physiology</i> , <b>2013</b> , 115, 1191-5	3.7	13
46	Mechanisms of skeletal muscle weakness. <i>Advances in Experimental Medicine and Biology</i> , <b>2010</b> , 682, 279-96	3.6	13
45	Insulin-independent glycogen supercompensation in isolated mouse skeletal muscle: role of phosphorylase inactivation. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2004</b> , 448, 533-8	4.6	13
44	Dynamic vacuolation in skeletal muscle fibres after fatigue. <i>Cell Biology International</i> , <b>2002</b> , 26, 911-20	4.5	13
43	Toxic doses of caffeine are needed to increase skeletal muscle contractility. <i>American Journal of Physiology - Cell Physiology</i> , <b>2019</b> , 316, C246-C251	5.4	13
42	Thyroid hormone receptor alpha can control action potential duration in mouse ventricular myocytes through the KCNE1 ion channel subunit. <i>Acta Physiologica</i> , <b>2010</b> , 198, 133-42	5.6	12
41	Loss of $\beta$ actinin-3 during human evolution provides superior cold resilience and muscle heat generation. <i>American Journal of Human Genetics</i> , <b>2021</b> , 108, 446-457	11	12



40	Cyclophilin D, a target for counteracting skeletal muscle dysfunction in mitochondrial myopathy. <i>Human Molecular Genetics</i> , <b>2015</b> , 24, 6580-7	5.6	11
39	History effect and timing of force production introduced in a skeletal muscle model. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2012</b> , 11, 947-57	3.8	11
38	Activation of Ca(2+)-dependent protein kinase II during repeated contractions in single muscle fibres from mouse is dependent on the frequency of sarcoplasmic reticulum Ca(2+) release. <i>Acta Physiologica</i> , <b>2007</b> , 191, 131-7	5.6	10
37	Frog skeletal muscle fibers recovering from fatigue have reduced charge movement. <i>Journal of Muscle Research and Cell Motility</i> , <b>2000</b> , 21, 621-8	3.5	10
36	Vitamin C and E Treatment Blunts Sprint Interval Training-Induced Changes in Inflammatory Mediator-, Calcium-, and Mitochondria-Related Signaling in Recreationally Active Elderly Humans. <i>Antioxidants</i> , <b>2020</b> , 9,	7.1	10
35	An updated h-index measures both the primary and total scientific output of a researcher. <i>Discoveries</i> , <b>2015</b> , 3,	3.7	9
34	Enhanced cardiomyocyte Ca(2+) cycling precedes terminal AV-block in mitochondrial cardiomyopathy Mterf3 KO mice. <i>Antioxidants and Redox Signaling</i> , <b>2011</b> , 15, 2455-64	8.4	9
33	Usage of a localised microflow device to show that mitochondrial networks are not extensive in skeletal muscle fibres. <i>PLoS ONE</i> , <b>2014</b> , 9, e108601	3.7	8
32	Three weeks of sprint interval training improved high-intensity cycling performance and limited ryanodine receptor modifications in recreationally active human subjects. <i>European Journal of Applied Physiology</i> , <b>2019</b> , 119, 1951-1958	3.4	7
31	A numerical model for fatigue effects in whole-body human exercise. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , <b>2016</b> , 22, 21-38	1	6
30	Moderately elevated extracellular [K] potentiates submaximal force and power in skeletal muscle via increased [Ca] during contractions. <i>American Journal of Physiology - Cell Physiology</i> , <b>2019</b> , 317, C900-C909	5.1	6
29	Intramuscular Contributions to Low-Frequency Force Potentiation Induced by a High-Frequency Conditioning Stimulation. <i>Frontiers in Physiology</i> , <b>2017</b> , 8, 712	4.6	6
28	Insulin-mediated activation of glycogen synthase in isolated skeletal muscle: role of mitochondrial respiration. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>1995</b> , 1244, 229-32	4	6
27	Measuring Ca in Living Cells. <i>Advances in Experimental Medicine and Biology</i> , <b>2020</b> , 1131, 7-26	3.6	6
26	Quantification of Plasma Kynurenine Metabolites Following One Bout of Sprint Interval Exercise. <i>International Journal of Tryptophan Research</i> , <b>2020</b> , 13, 1178646920978241	5.6	6
25	Force generated by myosin cross-bridges is reduced in myofibrils exposed to ROS/RNS. <i>American Journal of Physiology - Cell Physiology</i> , <b>2019</b> , 317, C1304-C1312	5.4	5
24	Carbohydrates do not accelerate force recovery after glycogen-depleting followed by high-intensity exercise in humans. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2020</b> , 30, 998-1007	4.6	5
23	Electrical Stimulation Prevents Preferential Skeletal Muscle Myosin Loss in Steroid-Denervation Rats. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 1111	4.6	5

22	Neuromuscular electrical stimulation prevents skeletal muscle dysfunction in adjuvant-induced arthritis rat. <i>PLoS ONE</i> , <b>2017</b> , 12, e0179925	3.7	5
21	Actinin-3: why gene loss is an evolutionary gain. <i>PLoS Genetics</i> , <b>2015</b> , 11, e1004908	6	4
20	Kynurenine aminotransferase isoforms display fiber-type specific expression in young and old human skeletal muscle. <i>Experimental Gerontology</i> , <b>2020</b> , 134, 110880	4.5	3
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14	Larger improvements in fatigue resistance and mitochondrial function with high- than with low-intensity contractions during interval training of mouse skeletal muscle. <i>FASEB Journal</i> , <b>2021</b> , 35, e21988	0.9	0
13	Eccentric Resistance Training Ameliorates Muscle Weakness in a Mouse Model of Idiopathic Inflammatory Myopathies. <i>Arthritis and Rheumatology</i> , <b>2021</b> , 73, 848-857	9.5	0
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11	HMGB1 mediates muscle fatigue via TLR4 - a possible mechanism for muscle fatigue in patients with inflammatory myopathies. <i>Annals of the Rheumatic Diseases</i> , <b>2012</b> , 71, A42.2-A43	2.4	
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