

Paul L Greenhaff

List of Publications by Citations

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193
papers

8,610
citations

54
h-index

87
g-index

204
ext. papers

9,751
ext. citations

4.7
avg, IF

5.9
L-index

#	Paper	IF	Citations
193	The effects of increasing exercise intensity on muscle fuel utilisation in humans. <i>Journal of Physiology</i> , 2001 , 536, 295-304	3.9	517
192	Disassociation between the effects of amino acids and insulin on signaling, ubiquitin ligases, and protein turnover in human muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008 , 295, E595-604	6	358
191	Influence of oral creatine supplementation of muscle torque during repeated bouts of maximal voluntary exercise in man. <i>Clinical Science</i> , 1993 , 84, 565-71	6.5	350
190	Disuse atrophy and exercise rehabilitation in humans profoundly affects the expression of genes associated with the regulation of skeletal muscle mass. <i>FASEB Journal</i> , 2004 , 18, 1025-7	0.9	280
189	Using molecular classification to predict gains in maximal aerobic capacity following endurance exercise training in humans. <i>Journal of Applied Physiology</i> , 2010 , 108, 1487-96	3.7	252
188	New insights concerning the role of carnitine in the regulation of fuel metabolism in skeletal muscle. <i>Journal of Physiology</i> , 2007 , 581, 431-44	3.9	249
187	Oral creatine supplementation facilitates the rehabilitation of disuse atrophy and alters the expression of muscle myogenic factors in humans. <i>Journal of Physiology</i> , 2001 , 536, 625-33	3.9	217
186	The involvement of the ubiquitin proteasome system in human skeletal muscle remodelling and atrophy. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2008 , 1782, 730-43	6.9	183
185	Impact of sedentarism due to the COVID-19 home confinement on neuromuscular, cardiovascular and metabolic health: Physiological and pathophysiological implications and recommendations for physical and nutritional countermeasures. <i>European Journal of Sport Science</i> , 2021 , 21, 614-635	3.9	161
184	Skeletal muscle hypertrophy adaptations predominate in the early stages of resistance exercise training, matching deuterium oxide-derived measures of muscle protein synthesis and mechanistic target of rapamycin complex 1 signaling. <i>FASEB Journal</i> , 2015 , 29, 4485-96	0.9	129
183	Systematic analysis of adaptations in aerobic capacity and submaximal energy metabolism provides a unique insight into determinants of human aerobic performance. <i>Journal of Applied Physiology</i> , 2009 , 106, 1479-86	3.7	129
182	A potential role for Akt/FOXO signalling in both protein loss and the impairment of muscle carbohydrate oxidation during sepsis in rodent skeletal muscle. <i>Journal of Physiology</i> , 2008 , 586, 5589-600	3.9	127
181	Role of submaximal exercise in promoting creatine and glycogen accumulation in human skeletal muscle. <i>Journal of Applied Physiology</i> , 1999 , 87, 598-604	3.7	123
180	Regulation of human metabolism by hypoxia-inducible factor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 12722-7	11.5	122
179	A validation of the application of D(2)O stable isotope tracer techniques for monitoring day-to-day changes in muscle protein subfraction synthesis in humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014 , 306, E571-9	6	121
178	Chronic oral ingestion of L-carnitine and carbohydrate increases muscle carnitine content and alters muscle fuel metabolism during exercise in humans. <i>Journal of Physiology</i> , 2011 , 589, 963-73	3.9	121
177	Human muscle gene expression responses to endurance training provide a novel perspective on Duchenne muscular dystrophy. <i>FASEB Journal</i> , 2005 , 19, 750-60	0.9	121

176	Muscle thickness correlates to muscle cross-sectional area in the assessment of strength training-induced hypertrophy. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2018 , 28, 846-853	4.6	117
175	Branched-chain amino acids as fuels and anabolic signals in human muscle. <i>Journal of Nutrition</i> , 2006 , 136, 264S-8S	4.1	113
174	Effect of oral creatine supplementation on human muscle GLUT4 protein content after immobilization. <i>Diabetes</i> , 2001 , 50, 18-23	0.9	111
173	Synchronous deficits in cumulative muscle protein synthesis and ribosomal biogenesis underlie age-related anabolic resistance to exercise in humans. <i>Journal of Physiology</i> , 2016 , 594, 7399-7417	3.9	102
172	Oxygen uptake on-kinetics in dog gastrocnemius in situ following activation of pyruvate dehydrogenase by dichloroacetate. <i>Journal of Physiology</i> , 2002 , 538, 195-207	3.9	99
171	Modulation of extracellular matrix genes reflects the magnitude of physiological adaptation to aerobic exercise training in humans. <i>BMC Biology</i> , 2005 , 3, 19	7.3	97
170	Does dietary creatine supplementation play a role in skeletal muscle metabolism and performance?. <i>American Journal of Clinical Nutrition</i> , 2000 , 72, 607S-17S	7	95
169	Effect of carbohydrate ingestion on glycogen resynthesis in human liver and skeletal muscle, measured by (13)C MRS. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2000 , 278, E65-75	6	95
168	Maximal voluntary contraction force, SR function and glycogen resynthesis during the first 72 h after a high-level competitive soccer game. <i>European Journal of Applied Physiology</i> , 2011 , 111, 2987-95	3.4	90
167	Intake of low-dose leucine-rich essential amino acids stimulates muscle anabolism equivalently to bolus whey protein in older women at rest and after exercise. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015 , 308, E1056-65	6	88
166	Blunted Akt/FOXO signalling and activation of genes controlling atrophy and fuel use in statin myopathy. <i>Journal of Physiology</i> , 2009 , 587, 219-30	3.9	86
165	Control of skeletal muscle atrophy in response to disuse: clinical/preclinical contentions and fallacies of evidence. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016 , 311, E594-604	6	83
164	Mechanisms regulating muscle mass during disuse atrophy and rehabilitation in humans. <i>Journal of Applied Physiology</i> , 2011 , 110, 555-60	3.7	82
163	Human Skeletal Muscle Disuse Atrophy: Effects on Muscle Protein Synthesis, Breakdown, and Insulin Resistance-A Qualitative Review. <i>Frontiers in Physiology</i> , 2016 , 7, 361	4.6	80
162	Metabolic phenotype of skeletal muscle in early critical illness. <i>Thorax</i> , 2018 , 73, 926-935	7.3	77
161	Novel events in the molecular regulation of muscle mass in critically ill patients. <i>Journal of Physiology</i> , 2011 , 589, 3883-95	3.9	76
160	Effect of oral creatine supplementation on respiratory gas exchange and blood lactate accumulation during steady-state incremental treadmill exercise and recovery in man. <i>Clinical Science</i> , 1994 , 87, 707-10	6.5	75
159	Muscle acetyl group availability is a major determinant of oxygen deficit in humans during submaximal exercise. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1998 , 274, E377-80	6	74

158	Carnosine and taurine contents in individual fibres of human vastus lateralis muscle. <i>Journal of Sports Sciences</i> , 1998 , 16, 639-643	3.6	73
157	The skeletal muscle satellite cell response to a single bout of resistance-type exercise is delayed with aging in men. <i>Age</i> , 2014 , 36, 9699		72
156	Insulin stimulates L-carnitine accumulation in human skeletal muscle. <i>FASEB Journal</i> , 2006 , 20, 377-9	0.9	72
155	An acute increase in skeletal muscle carnitine content alters fuel metabolism in resting human skeletal muscle. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2006 , 91, 5013-8	5.6	69
154	Creatine and its application as an ergogenic aid. <i>International Journal of Sport Nutrition</i> , 1995 , 5 Suppl, S100-10		68
153	Substrate availability limits human skeletal muscle oxidative ATP regeneration at the onset of ischemic exercise. <i>Journal of Clinical Investigation</i> , 1998 , 101, 79-85	15.9	66
152	Increased acetyl group availability enhances contractile function of canine skeletal muscle during ischemia. <i>Journal of Clinical Investigation</i> , 1996 , 97, 879-83	15.9	66
151	Dietary creatine supplementation does not affect some haematological indices, or indices of muscle damage and hepatic and renal function. <i>British Journal of Sports Medicine</i> , 2000 , 34, 284-8	10.3	65
150	Obesity Appears to Be Associated With Altered Muscle Protein Synthetic and Breakdown Responses to Increased Nutrient Delivery in Older Men, but Not Reduced Muscle Mass or Contractile Function. <i>Diabetes</i> , 2015 , 64, 3160-71	0.9	64
149	Energy metabolism in single human muscle fibres during intermittent contraction with occluded circulation. <i>Journal of Physiology</i> , 1993 , 460, 443-53	3.9	64
148	Energy metabolism in type I and type II human muscle fibres during short term electrical stimulation at different frequencies. <i>Acta Physiologica Scandinavica</i> , 1992 , 144, 15-22		64
147	Randomized controlled trial of dietary creatine as an adjunct therapy to physical training in chronic obstructive pulmonary disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2008 , 178, 233-9	10.2	63
146	The effect of dietary creatine supplementation on skeletal muscle metabolism in congestive heart failure. <i>European Heart Journal</i> , 1998 , 19, 617-22	9.5	61
145	Energy metabolism and fatigue during intense muscle contraction. <i>Biochemical Society Transactions</i> , 1991 , 19, 347-53	5.1	61
144	Inhibition of adipose tissue lipolysis increases intramuscular lipid and glycogen use in vivo in humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005 , 289, E482-93	6	60
143	Glycogen phosphorylase inhibition in type 2 diabetes therapy: a systematic evaluation of metabolic and functional effects in rat skeletal muscle. <i>Diabetes</i> , 2005 , 54, 2453-9	0.9	60
142	The nutritional biochemistry of creatine. <i>Journal of Nutritional Biochemistry</i> , 1997 , 8, 610-618	6.3	59
141	Resistance to aerobic exercise training causes metabolic dysfunction and reveals novel exercise-regulated signaling networks. <i>Diabetes</i> , 2013 , 62, 2717-27	0.9	56

140	Diet composition and the performance of high-intensity exercise. <i>Journal of Sports Sciences</i> , 1997 , 15, 265-75	3.6	56
139	Effects of leucine-enriched essential amino acid and whey protein bolus dosing upon skeletal muscle protein synthesis at rest and after exercise in older women. <i>Clinical Nutrition</i> , 2018 , 37, 2011-2025	5.9	54
138	Perioperative nutrition: Recommendations from the ESPEN expert group. <i>Clinical Nutrition</i> , 2020 , 39, 3211-3227	5.9	54
137	Dietary supplements for football. <i>Journal of Sports Sciences</i> , 2006 , 24, 749-61	3.6	52
136	PPARdelta agonism induces a change in fuel metabolism and activation of an atrophy programme, but does not impair mitochondrial function in rat skeletal muscle. <i>Journal of Physiology</i> , 2007 , 583, 381-90	3.9	51
135	Skeletal muscle carnitine loading increases energy expenditure, modulates fuel metabolism gene networks and prevents body fat accumulation in humans. <i>Journal of Physiology</i> , 2013 , 591, 4655-66	3.9	48
134	Tricarboxylic acid cycle intermediate pool size: functional importance for oxidative metabolism in exercising human skeletal muscle. <i>Sports Medicine</i> , 2007 , 37, 1071-88	10.6	46
133	Skeletal muscle molecular responses to resistance training and dietary supplementation in COPD. <i>Thorax</i> , 2013 , 68, 625-33	7.3	45
132	The role of FOXO and PPAR transcription factors in diet-mediated inhibition of PDC activation and carbohydrate oxidation during exercise in humans and the role of pharmacological activation of PDC in overriding these changes. <i>Diabetes</i> , 2012 , 61, 1017-24	0.9	44
131	Applications of multi-nuclear magnetic resonance spectroscopy at 7T. <i>World Journal of Radiology</i> , 2011 , 3, 105-13	2.9	44
130	Temporal changes in the involvement of pyruvate dehydrogenase complex in muscle lactate accumulation during lipopolysaccharide infusion in rats. <i>Journal of Physiology</i> , 2008 , 586, 1767-75	3.9	43
129	Glycogen phosphorylase inhibition as a therapeutic target: a review of the recent patent literature. <i>Expert Opinion on Therapeutic Patents</i> , 2006 , 16, 459-466	6.8	43
128	Relative Contribution of Intramyocellular Lipid to Whole-Body Fat Oxidation Is Reduced With Age but Subsarcolemmal Lipid Accumulation and Insulin Resistance Are Only Associated With Overweight Individuals. <i>Diabetes</i> , 2016 , 65, 840-50	0.9	41
127	Resistance exercise training improves age-related declines in leg vascular conductance and rejuvenates acute leg blood flow responses to feeding and exercise. <i>Journal of Applied Physiology</i> , 2012 , 112, 347-53	3.7	41
126	Increased uncoupling protein 3 content does not affect mitochondrial function in human skeletal muscle in vivo. <i>Journal of Clinical Investigation</i> , 2003 , 111, 479-86	15.9	40
125	Low intensity exercise in humans accelerates mitochondrial ATP production and pulmonary oxygen kinetics during subsequent more intense exercise. <i>Journal of Physiology</i> , 2002 , 538, 931-9	3.9	39
124	Carbohydrate ingestion augments L-carnitine retention in humans. <i>Journal of Applied Physiology</i> , 2007 , 102, 1065-70	3.7	38
123	An acetyl group deficit limits mitochondrial ATP production at the onset of exercise. <i>Biochemical Society Transactions</i> , 2002 , 30, 275-280	5.1	38

122	Transient transcriptional events in human skeletal muscle at the outset of concentric resistance exercise training. <i>Journal of Applied Physiology</i> , 2014 , 116, 113-25	3.7	37
121	Low-dose dexamethasone prevents endotoxaemia-induced muscle protein loss and impairment of carbohydrate oxidation in rat skeletal muscle. <i>Journal of Physiology</i> , 2010 , 588, 1333-47	3.9	36
120	Physiological adaptations to resistance exercise as a function of age. <i>JCI Insight</i> , 2017 , 2,	9.9	35
119	Testosterone therapy induces molecular programming augmenting physiological adaptations to resistance exercise in older men. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2019 , 10, 1276-1294	10.3	34
118	Statin myalgia is not associated with reduced muscle strength, mass or protein turnover in older male volunteers, but is allied with a slowing of time to peak power output, insulin resistance and differential muscle mRNA expression. <i>Journal of Physiology</i> , 2015 , 593, 1239-57	3.9	29
117	1 Interaction Between Aerobic and Anaerobic Metabolism During Intense Muscle Contraction. <i>Exercise and Sport Sciences Reviews</i> , 1998 , 26, 1??30	6.7	29
116	The impact of immobilisation and inflammation on the regulation of muscle mass and insulin resistance: different routes to similar end-points. <i>Journal of Physiology</i> , 2019 , 597, 1259-1270	3.9	28
115	Pharmacological activation of the pyruvate dehydrogenase complex reduces statin-mediated upregulation of FOXO gene targets and protects against statin myopathy in rodents. <i>Journal of Physiology</i> , 2012 , 590, 6389-402	3.9	28
114	Dichloroacetate enhances performance and reduces blood lactate during maximal cycle exercise in chronic obstructive pulmonary disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2008 , 177, 1090-4	10.2	28
113	Adenine nucleotide loss in the skeletal muscles during exercise in chronic obstructive pulmonary disease. <i>Thorax</i> , 2005 , 60, 932-6	7.3	28
112	Changing to a vegetarian diet reduces the body creatine pool in omnivorous women, but appears not to affect carnitine and carnosine homeostasis: a randomised trial. <i>British Journal of Nutrition</i> , 2018 , 119, 759-770	3.6	27
111	Muscle and Tendon Contributions to Reduced Rate of Torque Development in Healthy Older Males. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2018 , 73, 539-545	6.4	27
110	Creatine ingestion augments dietary carbohydrate mediated muscle glycogen supercompensation during the initial 24h of recovery following prolonged exhaustive exercise in humans. <i>Amino Acids</i> , 2016 , 48, 1831-42	3.5	26
109	Effect of whey protein- and carbohydrate-enriched diet on glycogen resynthesis during the first 48 h after a soccer game. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2013 , 23, 508-15	4.6	25
108	The acetyl group deficit at the onset of contraction in ischaemic canine skeletal muscle. <i>Journal of Physiology</i> , 2002 , 544, 591-602	3.9	25
107	Phosphocreatine degradation in type I and type II muscle fibres during submaximal exercise in man: effect of carbohydrate ingestion. <i>Journal of Physiology</i> , 2001 , 537, 305-11	3.9	25
106	Post-exercise ingestion of a unique, high molecular weight glucose polymer solution improves performance during a subsequent bout of cycling exercise. <i>Journal of Sports Sciences</i> , 2008 , 26, 149-54	3.6	24
105	Contraction-induced muscle fiber damage is increased in soleus muscle of streptozotocin-diabetic rats and is associated with elevated expression of brain-derived neurotrophic factor mRNA in muscle fibers and activated satellite cells. <i>Experimental Neurology</i> , 2000 , 161, 597-608	5.7	24

104	Glutamine supplementation promotes anaplerosis but not oxidative energy delivery in human skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2001 , 280, E669-75	6	24
103	The importance of pyruvate availability to PDC activation and anaplerosis in human skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1999 , 276, E472-8	6	23
102	Human skeletal muscle is refractory to the anabolic effects of leucine during the postprandial muscle-full period in older men. <i>Clinical Science</i> , 2017 , 131, 2643-2653	6.5	22
101	The integrin-adhesome is required to maintain muscle structure, mitochondrial ATP production, and movement forces in <i>Caenorhabditis elegans</i> . <i>FASEB Journal</i> , 2015 , 29, 1235-46	0.9	22
100	Resistance exercise and the mechanisms of muscle mass regulation in humans: acute effects on muscle protein turnover and the gaps in our understanding of chronic resistance exercise training adaptation. <i>International Journal of Biochemistry and Cell Biology</i> , 2013 , 45, 2209-14	5.6	22
99	PPARdelta agonism inhibits skeletal muscle PDC activity, mitochondrial ATP production and force generation during prolonged contraction. <i>Journal of Physiology</i> , 2009 , 587, 231-9	3.9	22
98	Physiological control of muscle mass in humans during resistance exercise, disuse and rehabilitation. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2010 , 13, 249-54	3.8	22
97	The experimental type 2 diabetes therapy glycogen phosphorylase inhibition can impair aerobic muscle function during prolonged contraction. <i>Diabetes</i> , 2006 , 55, 1855-61	0.9	22
96	Metabolic inertia in contracting skeletal muscle: a novel approach for pharmacological intervention in peripheral vascular disease. <i>British Journal of Clinical Pharmacology</i> , 2004 , 57, 237-43	3.8	22
95	Cardiovascular fitness and thermoregulation during prolonged exercise in man. <i>British Journal of Sports Medicine</i> , 1989 , 23, 109-14	10.3	22
94	Acute dietary protein intake restriction is associated with changes in myostatin expression after a single bout of resistance exercise in healthy young men. <i>Journal of Nutrition</i> , 2014 , 144, 137-45	4.1	20
93	Systems biology in human exercise physiology: is it something different from integrative physiology?. <i>Journal of Physiology</i> , 2011 , 589, 1031-6	3.9	19
92	Chronic treatment with the beta(2)-adrenoceptor agonist prodrug BRL-47672 impairs rat skeletal muscle function by inducing a comprehensive shift to a faster muscle phenotype. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006 , 319, 439-46	4.7	19
91	Muscle pyruvate availability can limit the flux, but not activation, of the pyruvate dehydrogenase complex during submaximal exercise in humans. <i>Journal of Physiology</i> , 2004 , 561, 647-55	3.9	19
90	Exercise with low muscle glycogen augments TCA cycle anaplerosis but impairs oxidative energy provision in humans. <i>Journal of Physiology</i> , 2002 , 540, 1079-86	3.9	19
89	An acute decrease in TCA cycle intermediates does not affect aerobic energy delivery in contracting rat skeletal muscle. <i>Journal of Physiology</i> , 2005 , 565, 637-43	3.9	19
88	The plasma ammonia response to cycle exercise in COPD. <i>European Respiratory Journal</i> , 2008 , 31, 751-8	13.6	18
87	Greater loss of mitochondrial function with ageing is associated with earlier onset of sarcopenia in. <i>Aging</i> , 2018 , 10, 3382-3396	5.6	18

86	Muscle carnitine availability plays a central role in regulating fuel metabolism in the rodent. <i>Journal of Physiology</i> , 2017 , 595, 5765-5780	3.9	17
85	Creatine supplementation does not affect human skeletal muscle glycogen content in the absence of prior exercise. <i>Journal of Applied Physiology</i> , 2008 , 104, 508-12	3.7	16
84	A threshold exists for the stimulatory effect of insulin on plasma L-carnitine clearance in humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007 , 292, E637-41	6	16
83	Gender and age differences in plasma carnitine, muscle strength, and exercise tolerance in haemodialysis patients. <i>Nephrology Dialysis Transplantation</i> , 2002 , 17, 1808-13	4.3	16
82	Free and esterified carnitine in continuous ambulatory peritoneal dialysis patients. <i>Kidney International</i> , 1996 , 49, 158-62	9.9	16
81	The effect of age and unilateral leg immobilization for 2 weeks on substrate utilization during moderate-intensity exercise in human skeletal muscle. <i>Journal of Physiology</i> , 2016 , 594, 2339-58	3.9	16
80	Vegetarians have a reduced skeletal muscle carnitine transport capacity. <i>American Journal of Clinical Nutrition</i> , 2011 , 94, 938-44	7	15
79	Anaerobic energy production in human skeletal muscle in intense contraction: a comparison of ³¹ P magnetic resonance spectroscopy and biochemical techniques. <i>Experimental Physiology</i> , 1997 , 82, 593-604	6.4	15
78	Muscle atrophy in immobilization and senescence in humans. <i>Current Opinion in Neurology</i> , 2009 , 22, 500-5	7.1	14
77	L-arginine ingestion after rest and exercise: effects on glucose disposal. <i>Medicine and Science in Sports and Exercise</i> , 2003 , 35, 1309-15	1.2	14
76	Acetyl-CoA provision and the acetyl group deficit at the onset of contraction in ischemic canine skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005 , 288, E327-34	6	14
75	Attenuation by creatine of myocardial metabolic stress in Brattleboro rats caused by chronic inhibition of nitric oxide synthase. <i>British Journal of Pharmacology</i> , 1995 , 116, 3288-92	8.6	14
74	The effect of the beta2-adrenoceptor agonist prodrug BRL-47672 on cardiovascular function, skeletal muscle myosin heavy chain, and MyoD expression in the rat. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2004 , 311, 1225-31	4.7	13
73	Acetyl group availability influences phosphocreatine degradation even during intense muscle contraction. <i>Journal of Physiology</i> , 2004 , 561, 851-9	3.9	13
72	Protein ingestion acutely inhibits insulin-stimulated muscle carnitine uptake in healthy young men. <i>American Journal of Clinical Nutrition</i> , 2016 , 103, 276-82	7	12
71	Physiological responses to moderate cold stress in man and the influence of prior prolonged exhaustive exercise. <i>Experimental Physiology</i> , 1998 , 83, 679-95	2.4	12
70	Peroxisome proliferator-activated receptor β agonism attenuates endotoxaemia-induced muscle protein loss and lactate accumulation in rats. <i>Clinical Science</i> , 2017 , 131, 1437-1447	6.5	11
69	The clinical usefulness of muscle mass and strength measures in older people: a systematic review. <i>Age and Ageing</i> , 2021 , 50, 88-95	3	11

68	The molecular physiology of human limb immobilization and rehabilitation. <i>Exercise and Sport Sciences Reviews</i> , 2006 , 34, 159-63	6.7	10
67	Influence of sodium bicarbonate ingestion on plasma ammonia accumulation during incremental exercise in man. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1993 , 66, 49-54		10
66	Age-related changes in muscle architecture and metabolism in humans: The likely contribution of physical inactivity to age-related functional decline. <i>Ageing Research Reviews</i> , 2021 , 68, 101344	12	10
65	Degenerin channel activation causes caspase-mediated protein degradation and mitochondrial dysfunction in adult <i>C. elegans</i> muscle. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2016 , 7, 181-92	10.3	10
64	Increasing cardiac pyruvate dehydrogenase flux during chronic hypoxia improves acute hypoxic tolerance. <i>Journal of Physiology</i> , 2018 , 596, 3357-3369	3.9	9
63	Inflammation-mediated muscle metabolic dysregulation local and remote to the site of major abdominal surgery. <i>Clinical Nutrition</i> , 2018 , 37, 2178-2185	5.9	9
62	Increasing skeletal muscle carnitine availability does not alter the adaptations to high-intensity interval training. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2018 , 28, 107-115	4.6	9
61	Effects of endotoxaemia on protein metabolism in rat fast-twitch skeletal muscle and myocardium. <i>PLoS ONE</i> , 2009 , 4, e6945	3.7	9
60	BJSM reviews: A-Z of nutritional supplements: dietary supplements, sports nutrition foods and ergogenic aids for health and performance Part 4. <i>British Journal of Sports Medicine</i> , 2009 , 43, 1088-90	10.3	9
59	Optimization of insulin-mediated creatine retention during creatine feeding in humans. <i>Journal of Sports Sciences</i> , 2010 , 28, 67-74	3.6	8
58	Regulation of skeletal muscle carbohydrate oxidation during steady-state contraction. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1998 , 274, R1384-9	3.2	8
57	Perpetual muscle PDH activation in PDH kinase knockout mice protects against high-fat feeding-induced muscle insulin resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E824	11.5	7
56	Pyruvate dehydrogenase complex activation status and acetyl group availability as a site of interchange between anaerobic and oxidative metabolism during intense exercise. <i>Advances in Experimental Medicine and Biology</i> , 1998 , 441, 287-98	3.6	7
55	Application of deuterium oxide (D2O) to metabolic research: just D2O it? Depends just how you D2O it!. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015 , 308, E847	6	6
54	G protein-coupled receptor kinases 2 and 5 are differentially expressed in rat skeletal muscle and remain unchanged following beta2-agonist administration. <i>Experimental Physiology</i> , 2003 , 88, 277-84	2.4	6
53	Glycogen resynthesis in liver and muscle after exercise: measurement of the rate of resynthesis by ¹³ C magnetic resonance spectroscopy. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1994 , 2, 429-432	2.8	6
52	Longitudinal hypertrophic and transcriptional responses to high-load eccentric-concentric vs concentric training in males. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2020 , 30, 2101-2115	4.6	6
51	Mitochondrial DNA copy number associates with insulin sensitivity and aerobic capacity, and differs between sedentary, overweight middle-aged males with and without type 2 diabetes. <i>International Journal of Obesity</i> , 2020 , 44, 929-936	5.5	6

50	Increasing skeletal muscle carnitine content in older individuals increases whole-body fat oxidation during moderate-intensity exercise. <i>Aging Cell</i> , 2021 , 20, e13303	9.9	6
49	Investigating musculoskeletal health and wellbeing; a cohort study protocol. <i>BMC Musculoskeletal Disorders</i> , 2020 , 21, 182	2.8	5
48	Pre-Operative nutrition In Neck of femur Trial (POINT)--carbohydrate loading in patients with fragility hip fracture: study protocol for a randomised controlled trial. <i>Trials</i> , 2014 , 15, 475	2.8	5
47	A comparison of the beta 1-selectivity of conventional metoprolol and metoprolol CR during exercise in healthy volunteers. <i>Journal of Clinical Pharmacy and Therapeutics</i> , 1993 , 18, 259-66	2.2	5
46	Untargeted metabolomics for uncovering biological markers of human skeletal muscle ageing. <i>Aging</i> , 2020 , 12, 12517-12533	5.6	5
45	Review article: The aetiology of fatigue in inflammatory bowel disease and potential therapeutic management strategies. <i>Alimentary Pharmacology and Therapeutics</i> , 2021 , 54, 368-387	6.1	5
44	Gastrointestinal surgery mediated increases in gut permeability and expression of IL6 and PDK4 mRNAs in quadriceps muscle may underpin the post-operative increase in whole-body insulin resistance in humans. <i>Journal of the American College of Surgeons</i> , 2011 , 213, S53	4.4	4
43	Acute pantothenic acid and cysteine supplementation does not affect muscle coenzyme A content, fuel selection, or exercise performance in healthy humans. <i>Journal of Applied Physiology</i> , 2012 , 112, 272-87	2.7	4
42	Bicarbonate-induced alkalosis augments cellular acetyl group availability and isometric force during the rest-to-work transition in canine skeletal muscle. <i>Experimental Physiology</i> , 2002 , 87, 489-98	2.4	4
41	Creatine367-378		4
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