Anton J M Wagenmakers

List of Publications by Citations

202 papers	9,691 citations	59 h-index	91 g-index
213 ext. papers	10,607 ext. citations	4.8 avg, IF	5.77 L-index

#	Paper	IF	Citations
202	The effects of increasing exercise intensity on muscle fuel utilisation in humans. *Journal of Physiology*, **2001**, 536, 295-304	3.9	517
201	American College of Sports Medicine roundtable. The physiological and health effects of oral creatine supplementation. *Medicine and Science in Sports and Exercise*, **2000**, 32, 706-17	1.2	280
200	Plasma insulin responses after ingestion of different amino acid or protein mixtures with carbohydrate. *American Journal of Clinical Nutrition*, **2000**, 72, 96-105	7	271
199	Maximizing postexercise muscle glycogen synthesis: carbohydrate supplementation and the application of amino acid or protein hydrolysate mixtures. *American Journal of Clinical Nutrition*, **2000**, 72, 106-11	7	246
198	Dynamic graciloplasty for treatment of faecal incontinence. *Lancet, The*, **1991**, 338, 1163-5	40	211
197	Relationship between gastro-intestinal complaints and endotoxaemia, cytokine release and the acute-phase reaction during and after a long-distance triathlon in highly trained men. *Clinical Science*, **2000**, 98, 47-55	6.5	198
196	Combined ingestion of protein and free leucine with carbohydrate increases postexercise muscle protein synthesis in vivo in male subjects. *American Journal of Physiology - Endocrinology and Metabolism*, **2005**, 288, E645-53	6	191
195	Preferential uptake of dietary Fatty acids in adipose tissue and muscle in the postprandial period. *Diabetes*, **2007**, 56, 168-76	0.9	182
194	Carbohydrate-electrolyte feedings improve 1 h time trial cycling performance. *International Journal of Sports Medicine*, **1997**, 18, 125-9	3.6	181
193	Amino acid ingestion strongly enhances insulin secretion in patients with long-term type 2 diabetes. *Diabetes Care*, **2003**, 26, 625-30	14.6	164
192	Intramyocellular lipids form an important substrate source during moderate intensity exercise in endurance-trained males in a fasted state. *Journal of Physiology*, **2003**, 553, 611-25	3.9	150
191	Addition of protein and amino acids to carbohydrates does not enhance postexercise muscle glycogen synthesis. *Journal of Applied Physiology*, **2001**, 91, 839-46	3.7	145
190	Sprint interval and endurance training are equally effective in increasing muscle microvascular density and eNOS content in sedentary males. *Journal of Physiology*, **2013**, 591, 641-56	3.9	143
189	Co-ingestion of protein and leucine stimulates muscle protein synthesis rates to the same extent in young and elderly lean men. *American Journal of Clinical Nutrition*, **2006**, 84, 623-32	7	138
188	Impaired oxidation of plasma-derived fatty acids in type 2 diabetic subjects during moderate-intensity exercise. *Diabetes*, **2000**, 49, 2102-7	0.9	136
187	Sprint interval and traditional endurance training increase net intramuscular triglyceride breakdown and expression of perilipin 2 and 5. *Journal of Physiology*, **2013**, 591, 657-75	3.9	129
186	Necrotizing myopathy in critically-ill patients. *Journal of Pathology*, **1991**, 164, 307-14	9.4	126

185	11 Muscle Amino Acid Metabolism at Rest and During Exercise. *Exercise and Sport Sciences Reviews*, **1998**, 26, 287???314	6.7	117
184	Glucose kinetics during prolonged exercise in highly trained human subjects: effect of glucose ingestion. *Journal of Physiology*, **1999**, 515 (Pt 2), 579-89	3.9	115
183	Ingestion of branched-chain amino acids and tryptophan during sustained exercise in man: failure to affect performance. *Journal of Physiology*, **1995**, 486 (Pt 3), 789-94	3.9	106
182	Network distribution of mitochondria and lipid droplets in human muscle fibres. *Histochemistry and Cell Biology*, **2008**, 129, 65-72	2.4	105
181	Co-ingestion of a protein hydrolysate and amino acid mixture with carbohydrate improves plasma glucose disposal in patients with type 2 diabetes. *American Journal of Clinical Nutrition*, **2005**, 82, 76-83	7	105
180	Combined ingestion of protein and carbohydrate improves protein balance during ultra-endurance exercise. *American Journal of Physiology - Endocrinology and Metabolism*, **2004**, 287, E712-20	6	103
179	Gastric emptying, absorption, and carbohydrate oxidation during prolonged exercise. *Journal of Applied Physiology*, **1992**, 72, 468-75	3.7	101
178	Plasma FFA utilization and fatty acid-binding protein content are diminished in type 2 diabetic muscle. *American Journal of Physiology - Endocrinology and Metabolism*, **2000**, 279, E146-54	6	100
177	Oxidation rates of orally ingested carbohydrates during prolonged exercise in men. *Journal of Applied Physiology*, **1993**, 75, 2774-80	3.7	100
176	The effect of a 3-month low-intensity endurance training program on fat oxidation and acetyl-CoA carboxylase-2 expression. *Diabetes*, **2002**, 51, 2220-6	0.9	99
175	Plasma free Fatty Acid uptake and oxidation are already diminished in subjects at high risk for developing type 2 diabetes. *Diabetes*, **2001**, 50, 2548-54	0.9	98
174	Effect of exercise training at different intensities on fat metabolism of obese men. *Journal of Applied Physiology*, **2002**, 92, 1300-9	3.7	96
173	Cross-linking of mRNA to proteins by irradiation of intact cells with ultraviolet light. *FEBS Journal*, **1980**, 112, 323-30		95
172	Ingestion of protein hydrolysate and amino acid-carbohydrate mixtures increases postexercise plasma insulin responses in men. *Journal of Nutrition*, **2000**, 130, 2508-13	4.1	93
171	Heat stress increases muscle glycogen use but reduces the oxidation of ingested carbohydrates during exercise. *Journal of Applied Physiology*, **2002**, 92, 1562-72	3.7	92
170	Tracers to investigate protein and amino acid metabolism in human subjects. *Proceedings of the Nutrition Society*, **1999**, 58, 987-1000	2.9	92
169	Effect of protein source and quantity on protein metabolism in elderly women. *American Journal of Clinical Nutrition*, **1998**, 68, 1228-35	7	88
168	Exercise-induced activation of the branched-chain 2-oxo acid dehydrogenase in human muscle. *European Journal of Applied Physiology and Occupational Physiology*, **1989**, 59, 159-67		88

167	Intravenous AICAR administration reduces hepatic glucose output and inhibits whole body lipolysis in type 2 diabetic patients. *Diabetologia*, **2008**, 51, 1893-900	10.3	84
166	Increase in fat oxidation on a high-fat diet is accompanied by an increase in triglyceride-derived fatty acid oxidation. *Diabetes*, **2000**, 49, 640-6	0.9	84
165	Co-ingestion of leucine with protein does not further augment post-exercise muscle protein synthesis rates in elderly men. *British Journal of Nutrition*, **2008**, 99, 571-80	3.6	81
164	Carbohydrate ingestion can completely suppress endogenous glucose production during exercise. *American Journal of Physiology - Endocrinology and Metabolism*, **1999**, 276, E672-83	6	80
163	The effect of exercise and nutrition on intramuscular fat metabolism and insulin sensitivity. *Annual Review of Nutrition*, **2010**, 30, 13-34	9.9	75
162	Effect of medium-chain triacylglycerol and carbohydrate ingestion during exercise on substrate utilization and subsequent cycling performance. *American Journal of Clinical Nutrition*, **1998**, 67, 397-404	7	75
161	The activity state of the branched-chain 2-oxo acid dehydrogenase complex in rat tissues. *Biochemical Journal*, **1984**, 220, 273-81	3.8	75
160	Adipose tissue fatty acid metabolism in insulin-resistant men. *Diabetologia*, **2008**, 51, 1466-74	10.3	73
159	14CO2 production is no adequate measure of [14C]fatty acid oxidation. *Biochemical Medicine and Metabolic Biology*, **1986**, 35, 248-59		72
158	Fat metabolism during exercise: a review--part II: regulation of metabolism and the effects of training. *International Journal of Sports Medicine*, **1998**, 19, 293-302	3.6	71
157	Sprint interval and moderate-intensity continuous training have equal benefits on aerobic capacity, insulin sensitivity, muscle capillarisation and endothelial eNOS/NAD(P)Hoxidase protein ratio in obese men. *Journal of Physiology*, **2016**, 594, 2307-21	3.9	70
156	Effects of creatine loading and prolonged creatine supplementation on body composition, fuel selection, sprint and endurance performance in humans. *Clinical Science*, **2003**, 104, 153-62	6.5	70
155	Nutritional interventions to promote post-exercise muscle protein synthesis. *Sports Medicine*, **2007**, 37, 895-906	10.6	69
154	Effect of training status on fuel selection during submaximal exercise with glucose ingestion. *Journal of Applied Physiology*, **1999**, 87, 1413-20	3.7	69
153	Creatine supplementation increases glycogen storage but not GLUT-4 expression in human skeletal muscle. *Clinical Science*, **2004**, 106, 99-106	6.5	67
152	Deamination of amino acids as a source for ammonia production in human skeletal muscle during prolonged exercise. *Journal of Physiology*, **1995**, 489 (Pt 1), 251-61	3.9	64
151	Reduced oxidation of dietary fat after a short term high-carbohydrate diet. *American Journal of Clinical Nutrition*, **2008**, 87, 824-31	7	63
150	Co-ingestion of a protein hydrolysate with or without additional leucine effectively reduces postprandial blood glucose excursions in Type 2 diabetic men. *Journal of Nutrition*, **2006**, 136, 1294-9	4.1	63

149	Low-Volume High-Intensity Interval Training in a Gym Setting Improves Cardio-Metabolic and Psychological Health. *PLoS ONE*, **2015**, 10, e0139056	3.7	61
148	Relationship between coronary microvascular dysfunction and cardiac energetics impairment in type 1 diabetes mellitus. *Circulation*, **2010**, 121, 1209-15	16.7	61
147	Energy, substrate and protein metabolism in morbid obesity before, during and after massive weight loss. *International Journal of Obesity*, **2000**, 24, 711-8	5.5	61
146	Modulation of whole body protein metabolism, during and after exercise, by variation of dietary protein. *Journal of Applied Physiology*, **1998**, 85, 1744-52	3.7	61
145	Inhibition of adipose tissue lipolysis increases intramuscular lipid and glycogen use in vivo in humans. *American Journal of Physiology - Endocrinology and Metabolism*, **2005**, 289, E482-93	6	60
144	Fat metabolism during exercise: a review--part III: effects of nutritional interventions. *International Journal of Sports Medicine*, **1998**, 19, 371-9	3.6	59
143	Metabolic availability of medium-chain triglycerides coingested with carbohydrates during prolonged exercise. *Journal of Applied Physiology*, **1995**, 79, 756-62	3.7	59
142	Protein hydrolysate/leucine co-ingestion reduces the prevalence of hyperglycemia in type 2 diabetic patients. *Diabetes Care*, **2006**, 29, 2721-2	14.6	57
141	Skeletal Muscle wasting and contractile performance in septic rats. *Muscle and Nerve*, **2005**, 31, 339-48	3.4	57
140	Exogenous glucose oxidation during exercise in endurance-trained and untrained subjects. *Journal of Applied Physiology*, **1997**, 82, 835-40	3.7	55
139	Influence of prolonged endurance cycling and recovery diet on intramuscular triglyceride content in trained males. *American Journal of Physiology - Endocrinology and Metabolism*, **2003**, 285, E804-11	6	55
138	Effect of starvation and exercise on actual and total activity of the branched-chain 2-oxo acid dehydrogenase complex in rat tissues. *Biochemical Journal*, **1984**, 223, 815-21	3.8	54
137	Protein and amino acid metabolism in human muscle. *Advances in Experimental Medicine and Biology*, **1998**, 441, 307-19	3.6	54
136	Effect of inhibitors of arachidonic acid metabolism on efflux of intracellular enzymes from skeletal muscle following experimental damage. *Biochemical Journal*, **1987**, 241, 403-7	3.8	53
135	Prolonged exercise training increases intramuscular lipid content and perilipin 2 expression in type I muscle fibers of patients with type 2 diabetes. *American Journal of Physiology - Endocrinology and Metabolism*, **2012**, 303, E1158-65	6	51
134	Improvement in cardiac energetics by perhexiline in heart failure due to dilated cardiomyopathy. *JACC: Heart Failure*, **2015**, 3, 202-11	7.9	50
133	Adipophilin distribution and colocalization with lipid droplets in skeletal muscle. *Histochemistry and Cell Biology*, **2009**, 131, 575-81	2.4	49
132	Oxidation of exogenous [13C]galactose and [13C]glucose during exercise. *Journal of Applied Physiology*, **1995**, 79, 720-5	3.7	48

131	Exogenous carbohydrate oxidation from different carbohydrate sources during exercise. *Journal of Applied Physiology*, **1993**, 75, 2168-72	3.7	48
130	Glucocorticoids fail to cause insulin resistance in human subcutaneous adipose tissue in vivo. *Journal of Clinical Endocrinology and Metabolism*, **2013**, 98, 1631-40	5.6	46
129	Preferential utilization of perilipin 2-associated intramuscular triglycerides during 1 h of moderate-intensity endurance-type exercise. *Experimental Physiology*, **2012**, 97, 970-80	2.4	45
128	Muscle function in critically ill patients. *Clinical Nutrition*, **2001**, 20, 451-4	5.9	45
127	Validation of the [1,2-13C]acetate recovery factor for correction of [U-13C]palmitate oxidation rates in humans. *Journal of Physiology*, **1998**, 513 (Pt 1), 215-23	3.9	44
126	Lipid droplet remodelling and reduced muscle ceramides following sprint interval and moderate-intensity continuous exercise training in obese males. *International Journal of Obesity*, **2017**, 41, 1745-1754	5.5	43
125	Increased muscle blood supply and transendothelial nutrient and insulin transport induced by food intake and exercise: effect of obesity and ageing. *Journal of Physiology*, **2016**, 594, 2207-22	3.9	42
124	The effect of low-intensity exercise training on fat metabolism of obese women. *Obesity*, **2001**, 9, 86-96		41
123	Response of glutamine metabolism to glutamine-supplemented parenteral nutrition. *American Journal of Clinical Nutrition*, **2000**, 72, 790-5	7	41
122	Muscle protein degradation and amino acid metabolism during prolonged knee-extensor exercise in humans. *Clinical Science*, **1999**, 97, 557-567	6.5	41
121	Substrate source utilisation in long-term diagnosed type 2 diabetes patients at rest, and during exercise and subsequent recovery. *Diabetologia*, **2007**, 50, 103-12	10.3	40
120	Effects of carbohydrate (CHO) and fat supplementation on CHO metabolism during prolonged exercise. *Metabolism: Clinical and Experimental*, **1996**, 45, 915-21	12.7	40
119	Effects of acute (-)-hydroxycitrate supplementation on substrate metabolism at rest and during exercise in humans. *American Journal of Clinical Nutrition*, **2000**, 72, 1445-50	7	39
118	Absence of glutamine isotopic steady state: implications for the assessment of whole-body glutamine production rate. *Clinical Science*, **1998**, 95, 339	6.5	39
117	Effect of endogenous carbohydrate availability on oral medium-chain triglyceride oxidation during prolonged exercise. *Journal of Applied Physiology*, **1996**, 80, 949-54	3.7	39
116	Weight Reduction and the Impaired Plasma-Derived Free Fatty Acid Oxidation in Type 2 Diabetic Subjects. *Journal of Clinical Endocrinology and Metabolism*, **2001**, 86, 1638-1644	5.6	39
115	The fate of [U-(13)C]palmitate extracted by skeletal muscle in subjects with type 2 diabetes and control subjects. *Diabetes*, **2002**, 51, 784-9	0.9	38
114	Neutrophil and Monocyte Bactericidal Responses to 10 Weeks of Low-Volume High-Intensity Interval or Moderate-Intensity Continuous Training in Sedentary Adults. *Oxidative Medicine and Cellular Longevity*, **2017**, 2017, 8148742	6.7	36

113	Determinants of the acetate recovery factor: implications for estimation of [13C]substrate oxidation. *Clinical Science*, **2000**, 98, 587-592	6.5	36
112	Habitual physical activity is associated with the maintenance of neutrophil migratory dynamics in healthy older adults. *Brain, Behavior, and Immunity*, **2016**, 56, 12-20	16.6	34
111	Weight reduction and the impaired plasma-derived free fatty acid oxidation in type 2 diabetic subjects. *Journal of Clinical Endocrinology and Metabolism*, **2001**, 86, 1638-44	5.6	34
110	Substrate utilization in non-obese Type II diabetic patients at rest and during exercise. *Clinical Science*, **2002**, 103, 559-66	6.5	33
109	Co-ingestion of a protein hydrolysate and amino acid mixture with carbohydrate improves plasma glucose disposal in patients with type 2 diabetes. *American Journal of Clinical Nutrition*, **2005**, 82, 76-83	7	33
108	Glutamine: the pivot of our nitrogen economy?. *Journal of Parenteral and Enteral Nutrition*, **1999**, 23, S45-8	4.2	31
107	Lysosomal dysfunction in muscle with special reference to glycogen storage disease type II. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2003**, 1637, 164-70	6.9	30
106	Absence of glutamine isotopic steady state: implications for the assessment of whole-body glutamine production rate. *Clinical Science*, **1998**, 95, 339-346	6.5	30
105	Gastric emptying of carbohydrate--medium chain triglyceride suspensions at rest. *International Journal of Sports Medicine*, **1992**, 13, 581-4	3.6	29
104	The metabolic fate of branched-chain amino acids and 2-oxo acids in rat muscle homogenates and diaphragms. *International Journal of Biochemistry & Cell Biology*, **1985**, 17, 957-65		29
103	Resistance training increases skeletal muscle oxidative capacity and net intramuscular triglyceride breakdown in type I and II fibres of sedentary males. *Experimental Physiology*, **2014**, 99, 894-908	2.4	28
102	Impaired performance of skeletal muscle in alpha-glucosidase knockout mice. *Muscle and Nerve*, **2002**, 25, 873-83	3.4	28
101	Glutamine appearance rate in plasma is not increased after gastrointestinal surgery in humans. *Journal of Nutrition*, **2000**, 130, 1566-71	4.1	28
100	Reduced in vivo skeletal muscle oxygen consumption in patients with chronic heart failure--a study using Near Infrared Spectrophotometry (NIRS). *European Journal of Heart Failure*, **2008**, 10, 652-7	12.3	27
99	Passive heat therapy in sedentary humans increases skeletal muscle capillarization and eNOS content but not mitochondrial density or GLUT4 content. *American Journal of Physiology - Heart and Circulatory Physiology*, **2019**, 317, H114-H123	5.2	26
98	The effect of free glutamine and peptide ingestion on the rate of muscle glycogen resynthesis in man. *International Journal of Sports Medicine*, **2000**, 21, 25-30	3.6	25
97	Myocardial substrate uptake and oxidation during and after routine cardiac surgery. *Journal of Thoracic and Cardiovascular Surgery*, **1999**, 118, 71-80	1.5	25
96	Muscle protein degradation and amino acid metabolism during prolonged knee-extensor exercise in humans. *Clinical Science*, **1999**, 97, 557-67	6.5	25

95	The metabolic consequences of reduced habitual activities in patients with muscle pain and disease. *Ergonomics*, **1988**, 31, 1519-27	2.9	25
94	Quantitative immunofluorescence microscopy of subcellular GLUT4 distribution in human skeletal muscle: effects of endurance and sprint interval training. *Physiological Reports*, **2014**, 2, e12085	2.6	24
93	Effect of oral glucose on leucine turnover in human subjects at rest and during exercise at two levels of dietary protein. *Journal of Physiology*, **2000**, 525 Pt 1, 271-81	3.9	24
92	Mitochondrial protein content and in vivo synthesis rates in skeletal muscle from critically ill rats. *Clinical Science*, **1996**, 91, 475-81	6.5	24
91	Home-hit improves muscle capillarisation and eNOS/NAD(P)Hoxidase protein ratio in obese individuals with elevated cardiovascular disease risk. *Journal of Physiology*, **2019**, 597, 4203-4225	3.9	23
90	Reduced oxidation rates of ingested glucose during prolonged exercise with low endogenous CHO availability. *Journal of Applied Physiology*, **1996**, 81, 1952-7	3.7	23
89	Degradation of branched-chain amino acids and their derived 2-oxo acids and fatty acids in human and rat heart and skeletal muscle. *Biochemical Medicine*, **1982**, 28, 16-31		22
88	Integration of the metabolic and cardiovascular effects of exercise. *Essays in Biochemistry*, **2006**, 42, 193-210	7.0	22
87	Carbohydrate Restriction in Type 1 Diabetes: A Realistic Therapy for Improved Glycaemic Control and Athletic Performance?. *Nutrients*, **2019**, 11,	6.7	21
86	Intrinsic motivation in two exercise interventions: Associations with fitness and body composition. *Health Psychology*, **2016**, 35, 195-8	5	21
85	The use of the [1,2-13C]acetate recovery factor in metabolic research. *European Journal of Applied Physiology*, **2003**, 89, 377-83	3.4	21
84	Amino acid supplements to improve athletic performance. *Current Opinion in Clinical Nutrition and Metabolic Care*, **1999**, 2, 539-44	3.8	21
83	Coronary sinus catheter placement: assessment of placement criteria and cardiac complications. *Chest*, **2003**, 124, 1259-65	5.3	20
82	Discrepancy between muscle and whole body protein turnover. *Current Opinion in Clinical Nutrition and Metabolic Care*, **1999**, 2, 29-32	3.8	20
81	Fasted High-Intensity Interval and Moderate-Intensity Exercise Do Not Lead to Detrimental 24-Hour Blood Glucose Profiles. *Journal of Clinical Endocrinology and Metabolism*, **2019**, 104, 111-117	5.6	20
80	The effect of different training modes on skeletal muscle microvascular density and endothelial enzymes controlling NO availability. *Journal of Physiology*, **2016**, 594, 2245-57	3.9	19
79	Age-related morphological changes in skeletal muscle cells of acid alpha-glucosidase knockout mice. *Muscle and Nerve*, **2006**, 33, 505-13	3.4	19
78	High-Intensity Interval Training Improves Aerobic Capacity Without a Detrimental Decline in Blood Glucose in People With Type 1 Diabetes. *Journal of Clinical Endocrinology and Metabolism*, **2019**, 104, 604-612	5.6	19

77	Effect of acute exercise on glucose tolerance following post-exercise feeding. *European Journal of Applied Physiology*, **2007**, 100, 711-7	3.4	18
76	Effect of clofibrate feeding on palmitate and branched-chain 2-oxo acid oxidation in rat liver and muscle. *Biochemical Pharmacology*, **1983**, 32, 2489-93	6	18
75	Determinants of the acetate recovery factor: implications for estimation of [13C]substrate oxidation. *Clinical Science*, **2000**, 98, 587	6.5	17
74	Prolonged changes in protein and amino acid metabolism after zymosan treatment in rats. *Clinical Science*, **1994**, 87, 619-26	6.5	16
73	Visualization and quantitation of GLUT4 translocation in human skeletal muscle following glucose ingestion and exercise. *Physiological Reports*, **2015**, 3, e12375	2.6	15
72	Substrate source use in older, trained males after decades of endurance training. *Medicine and Science in Sports and Exercise*, **2007**, 39, 2160-70	1.2	15
71	Ubiquitin-proteasome-dependent proteolytic activity remains elevated after zymosan-induced sepsis in rats while muscle mass recovers. *International Journal of Biochemistry and Cell Biology*, **2005**, 37, 2217-25	5.6	15
70	The metabolism of linoleic acid in healthy subjects after intake of a single dose of (13)C-linoleic acid. *European Journal of Clinical Nutrition*, **2001**, 55, 321-6	5.2	15
69	In It Together: A Qualitative Evaluation of Participant Experiences of a 10-Week, Group-Based, Workplace HIIT Program for Insufficiently Active Adults. *Journal of Sport and Exercise Psychology*, **2018**, 40, 10-19	1.5	14
68	Effect of muscle metaboreflex activation on central hemodynamics and cardiac function in humans. *Applied Physiology, Nutrition and Metabolism*, **2014**, 39, 861-70	3	14
67	Effect of carbohydrate supplementation on plasma glutamine during prolonged exercise and recovery. *International Journal of Sports Medicine*, **1998**, 19, 82-6	3.6	14
66	Effect of resistance training on microvascular density and eNOS content in skeletal muscle of sedentary men. *Microcirculation*, **2014**, 21, 738-46	2.9	13
65	Immunofluorescence microscopy to assess enzymes controlling nitric oxide availability and microvascular blood flow in muscle. *Microcirculation*, **2012**, 19, 642-51	2.9	13
64	Contraction failure of skeletal muscle of rats recovering from critical illness. *Clinical Science*, **1997**, 92, 189-95	6.5	13
63	High-Fat Overfeeding Impairs Peripheral Glucose Metabolism and Muscle Microvascular eNOS Ser1177 Phosphorylation. *Journal of Clinical Endocrinology and Metabolism*, **2020**, 105,	5.6	13
62	A Multidisciplinary Evaluation of a Virtually Supervised Home-Based High-Intensity Interval Training Intervention in People With Type 1 Diabetes. *Diabetes Care*, **2019**, 42, 2330-2333	14.6	12
61	Probiotic supplementation increases carbohydrate metabolism in trained male cyclists: a randomized, double-blind, placebo-controlled crossover trial. *American Journal of Physiology - Endocrinology and Metabolism*, **2020**, 318, E504-E513	6	12
60	Hormone-sensitive lipase preferentially redistributes to lipid droplets associated with perilipin-5 in human skeletal muscle during moderate-intensity exercise. *Journal of Physiology*, **2018**, 596, 2077-2090	3.9	12

59	Ethnicity and long-term heart rate variability in children. *Archives of Disease in Childhood*, **2013**, 98, 292-8	2.2	12
58	Isolation and quantitation of isotopically labeled amino acids from biological samples. *Biomedical Applications*, **1997**, 691, 287-96		12
57	Glutamate metabolism of the heart during coronary artery bypass grafting. *Clinical Nutrition*, **1998**, 17, 73-5	5.9	12
56	Assessment of whole body protein metabolism in critically ill children: can we use the [15N]glycine single oral dose method?. *Clinical Nutrition*, **2004**, 23, 153-60	5.9	12
55	The effect of starvation on branched-chain 2-oxo acid oxidation in rat muscle. *Biochemical Journal*, **1984**, 219, 253-60	3.8	12
54	Metabolic manipulation in chronic heart failure: study protocol for a randomised controlled trial. *Trials*, **2011**, 12, 140	2.8	11
53	Lifestyle intervention and fatty acid metabolism in glucose-intolerant subjects. *Obesity*, **2005**, 13, 1354-62		11
52	Prolonged activation of the branched-chain alpha-keto acid dehydrogenase complex in muscle of zymosan treated rats. *European Journal of Clinical Investigation*, **1995**, 25, 548-52	4.6	11
51	Immunofluorescence microscopy of SNAP23 in human skeletal muscle reveals colocalization with plasma membrane, lipid droplets, and mitochondria. *Physiological Reports*, **2016**, 4, e12662	2.6	11
50	Interaction of octanoate with branched-chain 2-oxo acid oxidation in rat and human muscle in vitro. *International Journal of Biochemistry & Cell Biology*, **1984**, 16, 977-84		10
49	Age-related decline in muscle strength and power output in acid 1-4 alpha-glucosidase knockout mice. *Muscle and Nerve*, **2005**, 31, 374-81	3.4	9
48	Increase of the activity state and loss of total activity of the branched-chain 2-oxo acid dehydrogenase in rat diaphragm during incubation. *Biochemical Journal*, **1984**, 224, 491-6	3.8	9
47	Insulin resistance in the offspring of parents with type 2 diabetes. *PLoS Medicine*, **2005**, 2, e289	11.6	8
46	Chronic fatigue syndrome: the physiology of people on the low end of the spectrum of physical activity?. *Clinical Science*, **1999**, 97, 611-613	6.5	8
45	Derangement in aerobic and anaerobic energy metabolism in skeletal muscle of critically ill and recovering rats. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **1996**, 1315, 55-60	6.9	8
44	Vascular Health in Patients in Remission of Cushing's Syndrome Is Comparable With That in BMI-Matched Controls. *Journal of Clinical Endocrinology and Metabolism*, **2016**, 101, 4142-4150	5.6	7
43	Interaction of various metabolites and agents with branched-chain 2-oxo acid oxidation in rat and human muscle in vitro. *International Journal of Biochemistry & Cell Biology*, **1984**, 16, 971-6		7
42	"Girls Aren't Meant to Exercise": Perceived Influences on Physical Activity among Adolescent Girls-The HERizon Project. *Children*, **2021**, 8,	2.8	7

41	A 7-day high-fat, high-calorie diet induces fibre-specific increases in intramuscular triglyceride and perilipin protein expression in human skeletal muscle. *Journal of Physiology*, **2020**, 598, 1151-1167	3.9	6
40	Interaction of short-chain and branched-chain fatty acids and their carnitine and CoA esters and of various metabolites and agents with branched-chain 2-oxo acid oxidation in rat muscle and liver mitochondria. *International Journal of Biochemistry & Cell Biology*, **1985**, 17, 967-74		6
39	Home-based high-intensity interval training reduces barriers to exercise in people with type 1 diabetes. *Experimental Physiology*, **2020**, 105, 571-578	2.4	6
38	Chronic oral lactate supplementation does not affect lactate disappearance from blood after exercise. *International Journal of Sport Nutrition*, **1995**, 5, 117-24		5
37	In vivo cross-linking of proteins to mRNA in human cells. *Molecular Biology Reports*, **1981**, 7, 93-9	2.8	5
36	Immunofluorescent visualisation of focal adhesion kinase in human skeletal muscle and its associated microvasculature. *Histochemistry and Cell Biology*, **2012**, 138, 617-26	2.4	4
35	Tissue-effective investigation of mitochondrial metabolism in needle biopsy samples of human skeletal muscle. *Biochemical Society Transactions*, **1986**, 14, 696-697	5.1	4
34	Postnatal development of the actual and total activity of the branched-chain 2-oxo acid dehydrogenase complex in rat tissues. *International Journal of Biochemistry & Cell Biology*, **1987**, 19, 205-7		4
33	Decreased Aerobic Exercise Capacity After Long-Term Remission From Cushing Syndrome: Exploration of Mechanisms. *Journal of Clinical Endocrinology and Metabolism*, **2020**, 105,	5.6	3
32	Paxillin and focal adhesion kinase colocalise in human skeletal muscle and its associated microvasculature. *Histochemistry and Cell Biology*, **2014**, 142, 245-56	2.4	3
31	The effect of glutamate infusion on cardiac performance is independent of changes in metabolism in patients undergoing routine coronary artery bypass surgery. *Clinical Science*, **2001**, 101, 573	6.5	3
30	Effect of an enterally administered glutamine-rich protein on the catabolic response to a zymosan challenge in rats. *Clinical Nutrition*, **1995**, 14, 105-15	5.9	3
29	Glucose metabolism and radioactive labeling. *Medicine and Science in Sports and Exercise*, **1994**, 26, 1316-21318	1.2	3
28	Procainamide therapy, physical performance and energy expenditure in the Schwartz-Jampel syndrome. *Neuromuscular Disorders*, **1991**, 1, 371-4	2.9	3
27	Effect of clofibrate on branched-chain amino acid metabolism. *Biochemical Pharmacology*, **1985**, 34, 2169-73	6	3
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