

Brian D Roy

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69

papers

1,507

citations

22

h-index

37

g-index

74

ext. papers

1,658

ext. citations

2.9

avg, IF

4.1

L-index

#	Paper	IF	Citations
69	Postexercise protein-carbohydrate and carbohydrate supplements increase muscle glycogen in men and women. <i>Journal of Applied Physiology</i> , 1997 , 83, 1877-83	3.7	142
68	Resistance-training-induced adaptations in skeletal muscle protein turnover in the fed state. <i>Canadian Journal of Physiology and Pharmacology</i> , 2002 , 80, 1045-53	2.4	119
67	Creatine monohydrate and conjugated linoleic acid improve strength and body composition following resistance exercise in older adults. <i>PLoS ONE</i> , 2007 , 2, e991	3.7	100
66	Human neuromuscular fatigue is associated with altered Na ⁺ -K ⁺ -ATPase activity following isometric exercise. <i>Journal of Applied Physiology</i> , 2002 , 92, 1585-93	3.7	85
65	Increases in submaximal cycling efficiency mediated by altitude acclimatization. <i>Journal of Applied Physiology</i> , 2000 , 89, 1189-97	3.7	81
64	Skeletal muscle PLIN proteins, ATGL and CGI-58, interactions at rest and following stimulated contraction. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013 , 304, R644-50	3.2	64
63	Myofibrillar disruption following acute concentric and eccentric resistance exercise in strength-trained men. <i>Canadian Journal of Physiology and Pharmacology</i> , 2000 , 78, 656-661	2.4	63
62	Influence of differing macronutrient intakes on muscle glycogen resynthesis after resistance exercise. <i>Journal of Applied Physiology</i> , 1998 , 84, 890-6	3.7	63
61	Downregulation in muscle Na ⁽⁺⁾ -K ⁽⁺⁾ -ATPase following a 21-day expedition to 6,194 m. <i>Journal of Applied Physiology</i> , 2000 , 88, 634-40	3.7	62
60	Effect of creatine supplementation and resistance-exercise training on muscle insulin-like growth factor in young adults. <i>International Journal of Sport Nutrition and Exercise Metabolism</i> , 2008 , 18, 389-98	4.4	56
59	Milk: the new sports drink? A Review. <i>Journal of the International Society of Sports Nutrition</i> , 2008 , 5, 15	4.5	47
58	Skeletal muscle type comparison of subsarcolemmal mitochondrial membrane phospholipid fatty acid composition in rat. <i>Journal of Membrane Biology</i> , 2010 , 234, 207-15	2.3	41
57	Attenuation of free radical production and paracrystalline inclusions by creatine supplementation in a patient with a novel cytochrome b mutation. <i>Muscle and Nerve</i> , 2004 , 29, 537-47	3.4	41
56	Influence of high-fat diet from differential dietary sources on bone mineral density, bone strength, and bone fatty acid composition in rats. <i>Applied Physiology, Nutrition and Metabolism</i> , 2010 , 35, 598-606	3	31
55	The acute effects of differential dietary fatty acids on human skeletal muscle pyruvate dehydrogenase activity. <i>Journal of Applied Physiology</i> , 2008 , 104, 1-9	3.7	30
54	Subcellular localization of skeletal muscle lipid droplets and PLIN family proteins OXPAT and ADRP at rest and following contraction in rat soleus muscle. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012 , 302, R29-36	3.2	29
53	Creatine monohydrate increases bone mineral density in young Sprague-Dawley rats. <i>Medicine and Science in Sports and Exercise</i> , 2007 , 39, 816-20	1.2	29

52	Skeletal muscle PLIN3 and PLIN5 are serine phosphorylated at rest and following lipolysis during adrenergic or contractile stimulation. <i>Physiological Reports</i> , 2013 , 1, e00084	2.6	28
51	The effects of acute passive stretch on muscle protein synthesis in humans. <i>Applied Physiology, Nutrition, and Metabolism</i> , 2000 , 25, 165-80		28
50	The influence of post-exercise macronutrient intake on energy balance and protein metabolism in active females participating in endurance training. <i>International Journal of Sport Nutrition and Exercise Metabolism</i> , 2002 , 12, 172-88	4.4	25
49	Macronutrient intake and whole body protein metabolism following resistance exercise. <i>Medicine and Science in Sports and Exercise</i> , 2000 , 32, 1412-8	1.2	24
48	Dietary supplementation with creatine monohydrate prevents corticosteroid-induced attenuation of growth in young rats. <i>Canadian Journal of Physiology and Pharmacology</i> , 2002 , 80, 1008-14	2.4	23
47	Greek Yogurt and 12 Weeks of Exercise Training on Strength, Muscle Thickness and Body Composition in Lean, Untrained, University-Aged Males. <i>Frontiers in Nutrition</i> , 2019 , 6, 55	6.2	19
46	Skeletal muscle type comparison of pyruvate dehydrogenase phosphatase activity and isoform expression: effects of obesity and endurance training. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008 , 295, R1224-30	3.2	18
45	Paradoxical effects of prior activity on human sarcoplasmic reticulum Ca ²⁺ -ATPase response to exercise. <i>Journal of Applied Physiology</i> , 2003 , 95, 138-44	3.7	18
44	Pyruvate dehydrogenase kinase-4 contributes to the recirculation of gluconeogenic precursors during postexercise glycogen recovery. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014 , 306, R102-7	3.2	17
43	Effects of exercise training with weighted vests on bone turnover and isokinetic strength in postmenopausal women. <i>Journal of Aging and Physical Activity</i> , 2007 , 15, 287-99	1.6	17
42	Creatine monohydrate supplementation does not improve functional recovery after total knee arthroplasty. <i>Archives of Physical Medicine and Rehabilitation</i> , 2005 , 86, 1293-8	2.8	17
41	Maternal high fat feeding does not have long-lasting effects on body composition and bone health in female and male Wistar rat offspring at young adulthood. <i>Molecules</i> , 2013 , 18, 15094-109	4.8	15
40	Effect of extracellular osmolality on cell volume and resting metabolism in mammalian skeletal muscle. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007 , 292, R1994-2000	3.2	15
39	An acute oral dose of caffeine does not alter glucose kinetics during prolonged dynamic exercise in trained endurance athletes. <i>European Journal of Applied Physiology</i> , 2001 , 85, 280-6	3.4	14
38	A Low-Therapeutic Dose of Lithium Inhibits GSK3 and Enhances Myoblast Fusion in C2C12 Cells. <i>Cells</i> , 2019 , 8,	7.9	13
37	Effects of a 21-day expedition to 6,194 m on human skeletal muscle SR Ca ²⁺ -ATPase. <i>High Altitude Medicine and Biology</i> , 2000 , 1, 301-10	1.9	13
36	A maternal high fat diet has long-lasting effects on skeletal muscle lipid and PLIN protein content in rat offspring at young adulthood. <i>Lipids</i> , 2015 , 50, 205-17	1.6	11
35	Increases in skeletal muscle ATGL and its inhibitor GOS2 following 8 weeks of endurance training in metabolically different rat skeletal muscles. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016 , 310, R125-33	3.2	10

34	Prolonged exercise following diuretic-induced hypohydration effects on fluid and electrolyte hormones. <i>Hormone and Metabolic Research</i> , 2001 , 33, 540-7	3.1	10
33	Low dose lithium supplementation activates Wnt/ β -catenin signalling and increases bone OPG/RANKL ratio in mice. <i>Biochemical and Biophysical Research Communications</i> , 2019 , 511, 394-397	3.4	9
32	Role of pyruvate dehydrogenase kinase 4 in regulating PDH activation during acute muscle contraction. <i>Applied Physiology, Nutrition and Metabolism</i> , 2012 , 37, 48-52	3	9
31	Acute plasma volume expansion in the untrained alters the hormonal response to prolonged moderate-intensity exercise. <i>Hormone and Metabolic Research</i> , 2001 , 33, 238-45	3.1	8
30	Conjugated linoleic acid prevents growth attenuation induced by corticosteroid administration and increases bone mineral content in young rats. <i>Applied Physiology, Nutrition and Metabolism</i> , 2008 , 33, 1096-104	3	7
29	Low-dose lithium feeding increases the SERCA2a-to-phospholamban ratio, improving SERCA function in murine left ventricles. <i>Experimental Physiology</i> , 2020 , 105, 666-675	2.4	6
28	Cellular responses in skeletal muscle to a season of ice hockey. <i>Applied Physiology, Nutrition and Metabolism</i> , 2010 , 35, 657-70	3	6
27	Consumption of Greek yogurt during 12 weeks of high-impact loading exercise increases bone formation in young, adult males - a secondary analysis from a randomized trial. <i>Applied Physiology, Nutrition and Metabolism</i> , 2020 , 45, 91-100	3	6
26	GSK3 inhibition with low dose lithium supplementation augments murine muscle fatigue resistance and specific force production. <i>Physiological Reports</i> , 2020 , 8, e14517	2.6	6
25	Effects of Post-Exercise Whey Protein Consumption on Recovery Indices in Adolescent Swimmers. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	5
24	Effect of extracellular osmolality on metabolism in contracting mammalian skeletal muscle in vitro. <i>Applied Physiology, Nutrition and Metabolism</i> , 2009 , 34, 1055-64	3	4
23	Associations of oral contraceptive use and dietary restraint with bone speed of sound and bone turnover in university-aged women. <i>Applied Physiology, Nutrition and Metabolism</i> , 2008 , 33, 696-705	3	4
22	Characterization of lipolytic inhibitor G(0)/G(1) switch gene-2 protein (G0S2) expression in male Sprague-Dawley rat skeletal muscle compared to relative content of adipose triglyceride lipase (ATGL) and comparative gene identification-58 (CGI-58). <i>PLoS ONE</i> , 2015 , 10, e0120136	3.7	4
21	Effects of Creatine Supplementation on Brain Function and Health.. <i>Nutrients</i> , 2022 , 14,	6.7	4
20	Muscle cellular properties in the ice hockey player: a model for investigating overtraining?. <i>Canadian Journal of Physiology and Pharmacology</i> , 2012 , 90, 567-78	2.4	2
19	Creatine Monohydrate Supplementation Increases White Adipose Tissue Mitochondrial Markers in Male and Female Rats in a Depot Specific Manner. <i>Nutrients</i> , 2021 , 13,	6.7	2
18	Effects of mild whole body hypothermia on self-paced exercise performance. <i>Journal of Applied Physiology</i> , 2018 , 125, 479-485	3.7	1
17	Elevated concentrations of circulating cytokines and correlations with nerve conduction velocity in human peripheral nerves. <i>Journal of Neuroimmunology</i> , 2014 , 277, 134-9	3.5	1

16	Extracellular hyperosmotic stress stimulates glucose uptake in incubated fast-twitch rat skeletal muscle. <i>Applied Physiology, Nutrition and Metabolism</i> , 2013 , 38, 605-12	3	1
15	Circulating Levels of Bone Markers after Short-Term Intense Training with Increased Dairy Consumption in Adolescent Female Athletes. <i>Children</i> , 2021 , 8,	2.8	1
14	Sex- and tissue-dependent creatine uptake in response to different creatine monohydrate doses in male and female Sprague-Dawley rats. <i>Applied Physiology, Nutrition and Metabolism</i> , 2021 , 46, 1298-1302	3	1
13	Intensified training in adolescent female athletes: a crossover study of Greek yogurt effects on indices of recovery. <i>Journal of the International Society of Sports Nutrition</i> , 2022 , 19, 17-33	4.5	1
12	Substrate turnover and oxidation during moderate-intensity exercise following acute plasma volume expansion. <i>Hormone and Metabolic Research</i> , 2002 , 34, 93-101	3.1	
11	Skeletal muscle pyruvate dehydrogenase phosphatase: effects of obesity and endurance training. <i>FASEB Journal</i> , 2006 , 20, A815	0.9	
10	Adaptation of skeletal muscle pyruvate dehydrogenase kinase in response to starvation in mitochondrial subpopulations. <i>FASEB Journal</i> , 2006 , 20, LB26	0.9	
9	Extracellular hyper-osmolality increases resting skeletal muscle lactate in mammalian skeletal muscle. <i>FASEB Journal</i> , 2006 , 20, A816	0.9	
8	Maternal high fat feeding alters bone lipid content at weaning without long-lasting effects on bone lipid content and bone strength in male offspring at young adulthood (1033.7). <i>FASEB Journal</i> , 2014 , 28, 1033.7	0.9	
7	Subcellular location and colocalization of lipid droplet proteins, ADRP and OXPAT, in resting and stimulated rat soleus. <i>FASEB Journal</i> , 2011 , 25, 1104.10	0.9	
6	Muscle contraction uncouples interactions between skeletal muscle ATGL and lipid droplet protein PLIN2. <i>FASEB Journal</i> , 2012 , 26, 1144.17	0.9	
5	Impact of maternal high saturated fat diet on bone lipid content in weanling and 3 month old female offspring. <i>FASEB Journal</i> , 2013 , 27, lb415	0.9	
4	Higher intakes of low-fat milk combined with 12 weeks of endurance training does not result in lower fat mass and higher lean mass.. <i>FASEB Journal</i> , 2013 , 27, lb777	0.9	
3	Maternal high fat diet results in altered body composition in first generation male offspring at weaning but not adulthood. <i>FASEB Journal</i> , 2013 , 27, 244.8	0.9	
2	A maternal high fat diet has long-lasting effects on skeletal muscle lipid and PLIN protein content in rat offspring at young adulthood (1162.7). <i>FASEB Journal</i> , 2014 , 28, 1162.7	0.9	
1	Role of dairy foods in sport nutrition 2022 , 339-364		