

Philip Atherton

List of Publications by Year in Descending Order

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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.

186
papers

10,412
citations

48
h-index

101
g-index

212
ext. papers

12,474
ext. citations

5
avg, IF

6.26
L-index

#	Paper	IF	Citations
186	The effects of elective abdominal surgery on protein turnover: A meta-analysis of stable isotope techniques to investigate postoperative catabolism.. <i>Clinical Nutrition</i> , 2022 , 41, 709-722	5.9	0
185	Systematic review and meta-analysis of protein intake to support muscle mass and function in healthy adults.. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2022 ,	10.3	6
184	The Combined Oral Stable Isotope Assessment of Muscle (COSIAM) reveals D-3 creatine derived muscle mass as a standout cross-sectional biomarker of muscle physiology vitality in older age.. <i>GeroScience</i> , 2022 , 1	8.9	1
183	Pharmacological hypogonadism impairs molecular transducers of exercise-induced muscle growth in humans.. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2022 ,	10.3	1
182	Neuromuscular recruitment strategies of the vastus lateralis according to sex.. <i>Acta Physiologica</i> , 2022 , e13803	5.6	1
181	Effects of High-Volume Versus High-Load Resistance Training on Skeletal Muscle Growth and Molecular Adaptations.. <i>Frontiers in Physiology</i> , 2022 , 13, 857555	4.6	1
180	The Vitamin D/Vitamin D receptor (VDR) axis in muscle atrophy and sarcopenia. <i>Cellular Signalling</i> , 2022 , 110355	4.9	1
179	Cardiac stereotactic ablative radiotherapy for control of refractory ventricular tachycardia: initial UK multicentre experience. <i>Open Heart</i> , 2021 , 8,	3	2
178	The importance of protein sources to support muscle anabolism in cancer: An expert group opinion. <i>Clinical Nutrition</i> , 2021 , 41, 192-201	5.9	3
177	Association between frailty and C-terminal agrin fragment with 3-month mortality following ST-elevation myocardial infarction.. <i>Experimental Gerontology</i> , 2021 , 158, 111658	4.5	1
176	Ammonium chloride administration prior to exercise has muscle-specific effects on mitochondrial and myofibrillar protein synthesis in rats. <i>Physiological Reports</i> , 2021 , 9, e14797	2.6	1
175	Factors associated with electrical stimulation-induced performance fatigability are dependent upon stimulation location. <i>Experimental Physiology</i> , 2021 , 106, 828-836	2.4	2
174	Lifelong exercise is associated with more homogeneous motor unit potential features across deep and superficial areas of vastus lateralis. <i>GeroScience</i> , 2021 , 43, 1555-1565	8.9	4
173	Combined in vivo muscle mass, muscle protein synthesis and muscle protein breakdown measurement: a Combined Oral Stable Isotope Assessment of Muscle (COSIAM) Approach. <i>GeroScience</i> , 2021 , 43, 2653-2665	8.9	2
172	The physiological impact of high-intensity interval training in octogenarians with comorbidities. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2021 , 12, 866-879	10.3	6
171	Transcriptomic meta-analysis of disuse muscle atrophy vs. resistance exercise-induced hypertrophy in young and older humans. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2021 , 12, 629-645	10.3	1
170	A collagen extraction and deuterium oxide stable isotope tracer method for the quantification of bone collagen synthesis rates in vivo. <i>Physiological Reports</i> , 2021 , 9, e14799	2.6	1

169	Atrophy Resistant vs. Atrophy Susceptible Skeletal Muscles: "aRaS" as a Novel Experimental Paradigm to Study the Mechanisms of Human Disuse Atrophy. <i>Frontiers in Physiology</i> , 2021 , 12, 653060	4.6	1
168	Diet-induced vitamin D deficiency reduces skeletal muscle mitochondrial respiration. <i>Journal of Endocrinology</i> , 2021 , 249, 113-124	4.7	5
167	Myokine Responses to Exercise in a Rat Model of Low/High Adaptive Potential. <i>Frontiers in Endocrinology</i> , 2021 , 12, 645881	5.7	2
166	A collagen hydrolysate/milk protein-blend stimulates muscle anabolism equivalently to an isoenergetic milk protein-blend containing a greater quantity of essential amino acids in older men. <i>Clinical Nutrition</i> , 2021 , 40, 4456-4464	5.9	2
165	Age-related alterations in muscle architecture are a signature of sarcopenia: the ultrasound sarcopenia index. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2021 , 12, 973-982	10.3	8
164	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
163	Higher strength gain after hypoxic vs normoxic resistance training despite no changes in muscle thickness and fractional protein synthetic rate. <i>FASEB Journal</i> , 2021 , 35, e21773	0.9	2
162	Dietary protein, exercise, ageing and physical inactivity: interactive influences on skeletal muscle proteostasis. <i>Proceedings of the Nutrition Society</i> , 2021 , 80, 106-117	2.9	6
161	Influence of sex on the age-related adaptations of neuromuscular function and motor unit properties in elite masters athletes. <i>Journal of Physiology</i> , 2021 , 599, 193-205	3.9	13
160	Myogenic, genomic and non-genomic influences of the vitamin D axis in skeletal muscle. <i>Cell Biochemistry and Function</i> , 2021 , 39, 48-59	4.2	7
159	The mechanisms of skeletal muscle atrophy in response to transient knockdown of the vitamin D receptor in vivo. <i>Journal of Physiology</i> , 2021 , 599, 963-979	3.9	10
158	The Effects of Very Low Energy Diets and Low Energy Diets with Exercise Training on Skeletal Muscle Mass: A Narrative Review. <i>Advances in Therapy</i> , 2021 , 38, 149-163	4.1	2
157	Molecular and neural adaptations to neuromuscular electrical stimulation; Implications for ageing muscle. <i>Mechanisms of Ageing and Development</i> , 2021 , 193, 111402	5.6	5
156	Phenylbutyrate, a branched-chain amino acid keto dehydrogenase activator, promotes branched-chain amino acid metabolism and induces muscle catabolism in C2C12 cells. <i>Experimental Physiology</i> , 2021 , 106, 585-592	2.4	1
155	Short-Term, Equipment-Free High Intensity Interval Training Elicits Significant Improvements in Cardiorespiratory Fitness Irrespective of Supervision in Early Adulthood. <i>Frontiers in Sports and Active Living</i> , 2021 , 3, 697518	2.3	0
154	Indicators of response to exercise training: a systematic review and meta-analysis. <i>BMJ Open</i> , 2021 , 11, e044676	3	1
153	Transcriptomic links to muscle mass loss and declines in cumulative muscle protein synthesis during short-term disuse in healthy younger humans. <i>FASEB Journal</i> , 2021 , 35, e21830	0.9	0
152	Six weeks of high-intensity interval training enhances contractile activity induced vascular reactivity and skeletal muscle perfusion in older adults. <i>GeroScience</i> , 2021 , 43, 2667-2678	8.9	0

151	Current perspectives on defining and mitigating frailty in relation to critical illness. <i>Clinical Nutrition</i> , 2021 , 40, 5430-5437	5.9	0
150	Exploring the impact of COVID-19 on the willingness of older adults to participate in physiology research: views from past and potential volunteers. <i>Applied Physiology, Nutrition and Metabolism</i> , 2021 , 46, 1147-1151	3	
149	Omega-3 supplementation during unilateral resistance exercise training in older women: A within subject and double-blind placebo-controlled trial. <i>Clinical Nutrition ESPEN</i> , 2021 , 46, 394-404	1.3	3
148	The effect of short-term exercise prehabilitation on skeletal muscle protein synthesis and atrophy during bed rest in older men. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2021 , 12, 52-69	10.3	8
147	Transcriptomic adaptation during skeletal muscle habituation to eccentric or concentric exercise training.. <i>Scientific Reports</i> , 2021 , 11, 23930	4.9	0
146	Circulating testosterone and dehydroepiandrosterone are associated with individual motor unit features in untrained and highly active older men. <i>GeroScience</i> , 2021 , 1	8.9	0
145	The time course of physiological adaptations to high-intensity interval training in older adults. <i>Aging Medicine (Milton (N S W))</i> , 2020 , 3, 245-251	3.5	4
144	Impacts of rat hindlimb Fndc5/irisin overexpression on muscle and adipose tissue metabolism. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2020 , 318, E943-E955	6	2
143	Challenges and practical recommendations for successfully recruiting inactive, statin-free older adults to clinical trials. <i>BMC Research Notes</i> , 2020 , 13, 174	2.3	1
142	CORP: The use of deuterated water for the measurement of protein synthesis. <i>Journal of Applied Physiology</i> , 2020 , 128, 1163-1176	3.7	10
141	An update on nutrient modulation in the management of disease-induced muscle wasting: evidence from human studies. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2020 , 23, 174-180 ^{3.8}		3
140	Exploring the Association between Vascular Dysfunction and Skeletal Muscle Mass, Strength and Function in Healthy Adults: A Systematic Review. <i>Nutrients</i> , 2020 , 12,	6.7	14
139	Targeted genotype analyses of GWAS-derived lean body mass and handgrip strength-associated single-nucleotide polymorphisms in elite master athletes. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020 , 319, R184-R194	3.2	1
138	The vitamin D receptor regulates mitochondrial function in C2C12 myoblasts. <i>American Journal of Physiology - Cell Physiology</i> , 2020 , 318, C536-C541	5.4	22
137	High Levels of Physical Activity in Later Life Are Associated With Enhanced Markers of Mitochondrial Metabolism. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020 , 75, 1481-1487	6.4	8
136	The Effect of Whey Protein Supplementation on Myofibrillar Protein Synthesis and Performance Recovery in Resistance-Trained Men. <i>Nutrients</i> , 2020 , 12,	6.7	3
135	Effect of Intermittent or Continuous Feed on Muscle Wasting in Critical Illness: A Phase 2 Clinical Trial. <i>Chest</i> , 2020 , 158, 183-194	5.3	28
134	Network analysis of human muscle adaptation to aging and contraction. <i>Aging</i> , 2020 , 12, 740-755	5.6	9

133	Untargeted metabolomics for uncovering biological markers of human skeletal muscle ageing. <i>Aging</i> , 2020 , 12, 12517-12533	5.6	5
132	A Novel Dietary Intervention Reduces Circulatory Branched-Chain Amino Acids by 50%: A Pilot Study of Relevance for Obesity and Diabetes. <i>Nutrients</i> , 2020 , 13,	6.7	3
131	A novel stable isotope tracer method to simultaneously quantify skeletal muscle protein synthesis and breakdown. <i>Metabolism Open</i> , 2020 , 5, 100022	2.8	4
130	Exploring mechanistic links between extracellular branched-chain amino acids and muscle insulin resistance: an in vitro approach. <i>American Journal of Physiology - Cell Physiology</i> , 2020 , 319, C1151-C1157	5.4	7
129	Associations between Plasma Branched Chain Amino Acids and Health Biomarkers in Response to Resistance Exercise Training Across Age. <i>Nutrients</i> , 2020 , 12,	6.7	1
128	Response. <i>Chest</i> , 2020 , 158, 2708-2711	5.3	
127	Overexpression of the vitamin D receptor (VDR) induces skeletal muscle hypertrophy. <i>Molecular Metabolism</i> , 2020 , 42, 101059	8.8	19
126	Glucagon-like peptide 1 infusions overcome anabolic resistance to feeding in older human muscle. <i>Aging Cell</i> , 2020 , 19, e13202	9.9	4
125	The impact of acute beta-hydroxy-beta-methylbutyrate (HMB) ingestion on glucose and insulin kinetics in young and older men. <i>Journal of Functional Foods</i> , 2020 , 73, 104163	5.1	0
124	Animal, Plant, Collagen and Blended Dietary Proteins: Effects on Musculoskeletal Outcomes. <i>Nutrients</i> , 2020 , 12,	6.7	9
123	Links Between Testosterone, Oestrogen, and the Growth Hormone/Insulin-Like Growth Factor Axis and Resistance Exercise Muscle Adaptations. <i>Frontiers in Physiology</i> , 2020 , 11, 621226	4.6	16
122	Longevity-related molecular pathways are subject to midlife "switch" in humans. <i>Aging Cell</i> , 2019 , 18, e12970	9.9	11
121	Integrated Myofibrillar Protein Synthesis in Recovery From Unaccustomed and Accustomed Resistance Exercise With and Without Multi-ingredient Supplementation in Overweight Older Men. <i>Frontiers in Nutrition</i> , 2019 , 6, 40	6.2	10
120	Gene-based analysis of angiogenesis, mitochondrial and insulin-related pathways in skeletal muscle of older individuals following nutraceutical supplementation. <i>Journal of Functional Foods</i> , 2019 , 56, 216-223	5.1	1
119	The effect of acute oral phosphatidic acid ingestion on myofibrillar protein synthesis and intracellular signaling in older males. <i>Clinical Nutrition</i> , 2019 , 38, 1423-1432	5.9	10
118	A statistical and biological response to an informatics appraisal of healthy aging gene signatures. <i>Genome Biology</i> , 2019 , 20, 152	18.3	1
117	Differential Stimulation of Post-Exercise Myofibrillar Protein Synthesis in Humans Following Isonitrogenous, Isocaloric Pre-Exercise Feeding. <i>Nutrients</i> , 2019 , 11,	6.7	10
116	The effect of oral essential amino acids on incretin hormone production in youth and ageing. <i>Endocrinology, Diabetes and Metabolism</i> , 2019 , 2, e00085	2.7	2

115	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
114	The acute transcriptional response to resistance exercise: impact of age and contraction mode. <i>Aging</i> , 2019 , 11, 2111-2126	5.6	8
113	1979-P: GLP-1 Recruits Skeletal Muscle Microvasculature without Impacting Glucose Uptake or Protein Metabolism in Older Men during Postabsorptive Insulin Clamps. <i>Diabetes</i> , 2019 , 68, 1979-P	0.9	
112	2048-P: The Physiological Effects of VLCD in Overweight Nondiabetics. <i>Diabetes</i> , 2019 , 68, 2048-P	0.9	
111	229-OR: GLP-1 Infusions during Postprandial Insulin Clamps Enhance Muscle Microvascular Flow, Glucose Uptake, and Protein Anabolism in Older Men. <i>Diabetes</i> , 2019 , 68, 229-OR	0.9	
110	The efficacy of static training interventions for improving indices of cardiorespiratory fitness in premenopausal females. <i>European Journal of Applied Physiology</i> , 2019 , 119, 645-652	3.4	4
109	Nutritional Considerations for Concurrent Training 2019 , 229-252		
108	A double-blind placebo controlled trial into the impacts of HMB supplementation and exercise on free-living muscle protein synthesis, muscle mass and function, in older adults. <i>Clinical Nutrition</i> , 2019 , 38, 2071-2078	5.9	18
107	Regional regulation of focal adhesion kinase after concentric and eccentric loading is related to remodelling of human skeletal muscle. <i>Acta Physiologica</i> , 2018 , 223, e13056	5.6	43
106	Impact of the calcium form of β-hydroxy-β-methylbutyrate upon human skeletal muscle protein metabolism. <i>Clinical Nutrition</i> , 2018 , 37, 2068-2075	5.9	30
105	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, 2011-2021	5.9	54
104	Tart cherry concentrate does not enhance muscle protein synthesis response to exercise and protein in healthy older men. <i>Experimental Gerontology</i> , 2018 , 110, 202-208	4.5	10
103	Environmental hypoxia favors myoblast differentiation and fast phenotype but blunts activation of protein synthesis after resistance exercise in human skeletal muscle. <i>FASEB Journal</i> , 2018 , 32, 5272-5284	0.9	16
102	The age-related loss of skeletal muscle mass and function: Measurement and physiology of muscle fibre atrophy and muscle fibre loss in humans. <i>Ageing Research Reviews</i> , 2018 , 47, 123-132	12	172
101	Metabolic phenotype of skeletal muscle in early critical illness. <i>Thorax</i> , 2018 , 73, 926-935	7.3	77
100	A coding and non-coding transcriptomic perspective on the genomics of human metabolic disease. <i>Nucleic Acids Research</i> , 2018 , 46, 7772-7792	20.1	22
99	The metabolic and molecular mechanisms of hyperammonaemia- and hyperethanolaemia-induced protein catabolism in skeletal muscle cells. <i>Journal of Cellular Physiology</i> , 2018 , 233, 9663-9673	7	3
98	Food texture: A potential dietary consideration for obesity prevention?. <i>Experimental Physiology</i> , 2018 , 103, 1298-1299	2.4	

97	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
96	Physiological adaptations to resistance training in rats selectively bred for low and high response to aerobic exercise training. <i>Experimental Physiology</i> , 2018 , 103, 1513-1523	2.4	7
95	Enriching a protein drink with leucine augments muscle protein synthesis after resistance exercise in young and older men. <i>Clinical Nutrition</i> , 2017 , 36, 888-895	5.9	34
94	"Nutraceuticals" in relation to human skeletal muscle and exercise. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2017 , 312, E282-E299	6	39
93	Michael J. Rennie: a perspective on a scientist whose life's work helped sculpt knowledge about the regulation of the musculoskeletal system by nutrition, exercise and inactivity. <i>Experimental Physiology</i> , 2017 , 102, 611-613	2.4	
92	Michael John Rennie, MSc, PhD, FRSE, FHEA, 1946-2017: an appreciation of his work on protein metabolism in human muscle. <i>American Journal of Clinical Nutrition</i> , 2017 , 106, 1-9	7	3
91	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
90	A novel puromycin incorporation method to quantify skeletal muscle protein breakdown: A proof-of-concept study. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 494, 608-614	3.4	2
89	Physiological adaptations to resistance exercise as a function of age. <i>JCI Insight</i> , 2017 , 2,	9.9	35
88	A 4-week, lifestyle-integrated, home-based exercise training programme elicits improvements in physical function and lean mass in older men and women: a pilot study. <i>F1000Research</i> , 2017 , 6, 1235	3.6	5
87	Nutrient modulation in the management of disease-induced muscle wasting: evidence from human studies. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2017 , 20, 433-439	3.8	9
86	Electrical pulse stimulation: an in vitro exercise model for the induction of human skeletal muscle cell hypertrophy. A proof-of-concept study. <i>Experimental Physiology</i> , 2017 , 102, 1405-1413	2.4	24
85	The efficacy of unsupervised home-based exercise regimens in comparison to supervised laboratory-based exercise training upon cardio-respiratory health facets. <i>Physiological Reports</i> , 2017 , 5, e13390	2.6	17
84	A dynamic ribosomal biogenesis response is not required for IGF-1-mediated hypertrophy of human primary myotubes. <i>FASEB Journal</i> , 2017 , 31, 5196-5207	0.9	7
83	A novel DO tracer method to quantify RNA turnover as a biomarker of de novo ribosomal biogenesis, in vitro, in animal models, and in human skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2017 , 313, E681-E689	6	20
82	Mechanistic Links Underlying the Impact of C-Reactive Protein on Muscle Mass in Elderly. <i>Cellular Physiology and Biochemistry</i> , 2017 , 44, 267-278	3.9	35
81	Recent developments in deuterium oxide tracer approaches to measure rates of substrate turnover: implications for protein, lipid, and nucleic acid research. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2017 , 20, 375-381	3.8	18
80	An overview of technical considerations for Western blotting applications to physiological research. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2017 , 27, 4-25	4.6	150

79	Supplementing essential amino acids with the nitric oxide precursor, l-arginine, enhances skeletal muscle perfusion without impacting anabolism in older men. <i>Clinical Nutrition</i> , 2017 , 36, 1573-1579	5.9	16
78	A reverse genetics cell-based evaluation of genes linked to healthy human tissue age. <i>FASEB Journal</i> , 2017 , 31, 96-108	0.9	8
77	Stable isotope tracers and exercise physiology: past, present and future. <i>Journal of Physiology</i> , 2017 , 595, 2873-2882	3.9	29
76	A Practical and Time-Efficient High-Intensity Interval Training Program Modifies Cardio-Metabolic Risk Factors in Adults with Risk Factors for Type II Diabetes. <i>Frontiers in Endocrinology</i> , 2017 , 8, 229	5.7	49
75	A 4-week, lifestyle-integrated, home-based exercise training programme elicits improvements in physical function and lean mass in older men and women: a pilot study. <i>F1000Research</i> , 2017 , 6, 1235	3.6	4
74	The metabolic and temporal basis of muscle hypertrophy in response to resistance exercise. <i>European Journal of Sport Science</i> , 2016 , 16, 633-44	3.9	18
73	Biomarkers of browning of white adipose tissue and their regulation during exercise- and diet-induced weight loss. <i>American Journal of Clinical Nutrition</i> , 2016 , 104, 557-65	7	39
72	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
71	Human Skeletal Muscle Protein Metabolism Responses to Amino Acid Nutrition. <i>Advances in Nutrition</i> , 2016 , 7, 828S-38S	10	44
70	Fascicle length does increase in response to longitudinal resistance training and in a contraction-mode specific manner. <i>SpringerPlus</i> , 2016 , 5, 94		17
69	Acute cocoa flavanol supplementation improves muscle macro- and microvascular but not anabolic responses to amino acids in older men. <i>Applied Physiology, Nutrition and Metabolism</i> , 2016 , 41, 548-56	3	14
68	Insulin resistance and sarcopenia: mechanistic links between common co-morbidities. <i>Journal of Endocrinology</i> , 2016 , 229, R67-81	4.7	226
67	Role of insulin in the regulation of human skeletal muscle protein synthesis and breakdown: a systematic review and meta-analysis. <i>Diabetologia</i> , 2016 , 59, 44-55	10.3	103
66	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
65	iGEMS: an integrated model for identification of alternative exon usage events. <i>Nucleic Acids Research</i> , 2016 , 44, e109	20.1	16
64	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
63	Skeletal muscle homeostasis and plasticity in youth and ageing: impact of nutrition and exercise. <i>Acta Physiologica</i> , 2016 , 216, 15-41	5.6	81
62	Exercise and Regulation of Protein Metabolism. <i>Progress in Molecular Biology and Translational Science</i> , 2015 , 135, 75-98	4	16

61	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
60	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
59	The effects of resistance exercise training on macro- and micro-circulatory responses to feeding and skeletal muscle protein anabolism in older men. <i>Journal of Physiology</i> , 2015 , 593, 2721-34	3.9	29
58	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
57	A novel multi-tissue RNA diagnostic of healthy ageing relates to cognitive health status. <i>Genome Biology</i> , 2015 , 16, 185	18.3	112
56	The impact of delivery profile of essential amino acids upon skeletal muscle protein synthesis in older men: clinical efficacy of pulse vs. bolus supply. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015 , 309, E450-7	6	37
55	A dose- rather than delivery profile-dependent mechanism regulates the "muscle-full" effect in response to oral essential amino acid intake in young men. <i>Journal of Nutrition</i> , 2015 , 145, 207-14	4.1	43
54	Protein carbonylation and heat shock proteins in human skeletal muscle: relationships to age and sarcopenia. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015 , 70, 174-81	6.4	44
53	Early structural remodeling and deuterium oxide-derived protein metabolic responses to eccentric and concentric loading in human skeletal muscle. <i>Physiological Reports</i> , 2015 , 3, e12593	2.6	47
52	Internal comparison between deuterium oxide (D2O) and L-[ring-13C6] phenylalanine for acute measurement of muscle protein synthesis in humans. <i>Physiological Reports</i> , 2015 , 3, e12433	2.6	34
51	Architectural, functional and molecular responses to concentric and eccentric loading in human skeletal muscle. <i>Acta Physiologica</i> , 2014 , 210, 642-54	5.6	201
50	Pharmacological enhancement of leg and muscle microvascular blood flow does not augment anabolic responses in skeletal muscle of young men under fed conditions. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014 , 306, E168-76	6	21
49	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
48	Acute post-exercise myofibrillar protein synthesis is not correlated with resistance training-induced muscle hypertrophy in young men. <i>PLoS ONE</i> , 2014 , 9, e89431	3.7	142
47	Two weeks of reduced activity decreases leg lean mass and induces "anabolic resistance" of myofibrillar protein synthesis in healthy elderly. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013 , 98, 2604-12	5.6	225
46	Effects of leucine and its metabolite β-hydroxy-β-methylbutyrate on human skeletal muscle protein metabolism. <i>Journal of Physiology</i> , 2013 , 591, 2911-23	3.9	286
45	Molecular networks of human muscle adaptation to exercise and age. <i>PLoS Genetics</i> , 2013 , 9, e1003389	6	123
44	Focal adhesion kinase is required for IGF-I-mediated growth of skeletal muscle cells via a TSC2/mTOR/S6K1-associated pathway. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013 , 305, E183-93	6	55

43	Greek goddess or Greek myth: the effects of exercise on irisin/FNDC5 in humans. <i>Journal of Physiology</i> , 2013 , 591, 5267-8	3.9	15
42	Development of a new SonoVue [®] contrast-enhanced ultrasound approach reveals temporal and age-related features of muscle microvascular responses to feeding. <i>Physiological Reports</i> , 2013 , 1, e00119 ⁶	3.6	50
41	Adding arginine to an essential amino acid (EAA) feed reverses age-related impairments in vascular responsiveness. <i>FASEB Journal</i> , 2013 , 27, 679.5	0.9	
40	The effects of bolus versus pulse feeding strategies on muscle anabolism in older men. <i>FASEB Journal</i> , 2013 , 27, 1208.3	0.9	
39	Resistance exercise training reverses age-related impairments in macro and microvascular blood flow and the associated blunted muscle protein synthesis response to nutrition. <i>FASEB Journal</i> , 2013 , 27, 1132.9	0.9	
38	Muscle protein synthetic responses to exercise: effects of age, volume, and intensity. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2012 , 67, 1170-7	6.4	89
37	Is irisin a human exercise gene?. <i>Nature</i> , 2012 , 488, E9-10; discussion E10-1	50.4	265
36	Muscle protein synthesis in response to nutrition and exercise. <i>Journal of Physiology</i> , 2012 , 590, 1049-57	3.9	191
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