

Bethan E Phillips

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3079995/bethan-e-phillips-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

97
papers

1,658
citations

23
h-index

38
g-index

106
ext. papers

2,242
ext. citations

5.3
avg, IF

4.78
L-index

#	Paper	IF	Citations
97	Molecular networks of human muscle adaptation to exercise and age. <i>PLoS Genetics</i> , 2013 , 9, e1003389	6	123
96	A novel multi-tissue RNA diagnostic of healthy ageing relates to cognitive health status. <i>Genome Biology</i> , 2015 , 16, 185	18.3	112
95	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
94	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
93	Effect of tumor burden and subsequent surgical resection on skeletal muscle mass and protein turnover in colorectal cancer patients. <i>American Journal of Clinical Nutrition</i> , 2012 , 96, 1064-70	7	87
92	Regulation of muscle protein synthesis in humans. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2012 , 15, 58-63	3.8	58
91	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
90	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	2.6	50
89	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
88	Exercise and other nonpharmacological strategies to reduce blood pressure in older adults: a systematic review and meta-analysis. <i>Journal of the American Society of Hypertension</i> , 2018 , 12, 248-267		45
87	Human Skeletal Muscle Protein Metabolism Responses to Amino Acid Nutrition. <i>Advances in Nutrition</i> , 2016 , 7, 828S-385	10	44
86	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
85	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
84	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
83	"Nutraceuticals" in relation to human skeletal muscle and exercise. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2017 , 312, E282-E299	6	39
82	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
81	Physiological adaptations to resistance exercise as a function of age. <i>JCI Insight</i> , 2017 , 2,	9.9	35

80	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
79	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
78	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
77	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
76	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
75	Effect of colon cancer and surgical resection on skeletal muscle mitochondrial enzyme activity in colon cancer patients: a pilot study. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2013 , 4, 71-7	10.3	24
74	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
73	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
72	Physiological mechanisms of action of incretin and insulin in regulating skeletal muscle metabolism. <i>Current Diabetes Reviews</i> , 2014 , 10, 327-35	2.7	22
71	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
70	Overexpression of the vitamin D receptor (VDR) induces skeletal muscle hypertrophy. <i>Molecular Metabolism</i> , 2020 , 42, 101059	8.8	19
69	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
68	Exercise and Regulation of Protein Metabolism. <i>Progress in Molecular Biology and Translational Science</i> , 2015 , 135, 75-98	4	16
67	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
66	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
65	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
64	Short-Term (. <i>Medicine and Science in Sports and Exercise</i> , 2018 , 50, 1740-1749	1.2	14
63	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

62	Creatinine and myoglobin are poor predictors of anaerobic threshold in colorectal cancer and health. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2015 , 6, 125-31	10.3	13
61	Molecular Transducers of Human Skeletal Muscle Remodeling under Different Loading States. <i>Cell Reports</i> , 2020 , 32, 107980	10.6	13
60	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
59	Short-term pre-operative high-intensity interval training does not improve fitness of colorectal cancer patients. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2019 , 29, 1383-1391	4.6	12
58	Longevity-related molecular pathways are subject to midlife "switch" in humans. <i>Aging Cell</i> , 2019 , 18, e12970	9.9	11
57	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
56	Network analysis of human muscle adaptation to aging and contraction. <i>Aging</i> , 2020 , 12, 740-755	5.6	9
55	Animal, Plant, Collagen and Blended Dietary Proteins: Effects on Musculoskeletal Outcomes. <i>Nutrients</i> , 2020 , 12,	6.7	9
54	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
53	The acute transcriptional response to resistance exercise: impact of age and contraction mode. <i>Aging</i> , 2019 , 11, 2111-2126	5.6	8
52	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
51	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
50	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
49	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
48	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
47	Time-efficient physical activity interventions to reduce blood pressure in older adults: a randomised controlled trial. <i>Age and Ageing</i> , 2021 , 50, 980-984	3	6
46	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
45	Untargeted metabolomics for uncovering biological markers of human skeletal muscle ageing. <i>Aging</i> , 2020 , 12, 12517-12533	5.6	5

44	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
43	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
42	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
41	Glucagon-like peptide 1 infusions overcome anabolic resistance to feeding in older human muscle. <i>Aging Cell</i> , 2020 , 19, e13202	9.9	4
40	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
39	Application of dynamic contrast enhanced ultrasound in the assessment of kidney diseases. <i>Current Opinion in Nephrology and Hypertension</i> , 2021 , 30, 138-143	3.5	3
38	Oesophageal Doppler guided optimization of cardiac output does not increase visceral microvascular blood flow in healthy volunteers. <i>Clinical Physiology and Functional Imaging</i> , 2018 , 38, 213-219	2.4	2
37	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
36	A double-blind randomized controlled trial of the effects of eicosapentaenoic acid supplementation on muscle inflammation and physical function in patients undergoing colorectal cancer resection. <i>Clinical Nutrition</i> , 2020 , 39, 2055-2061	5.9	2
35	Factors associated with electrical stimulation-induced performance fatigability are dependent upon stimulation location. <i>Experimental Physiology</i> , 2021 , 106, 828-836	2.4	2
34	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
33	Myokine Responses to Exercise in a Rat Model of Low/High Adaptive Potential. <i>Frontiers in Endocrinology</i> , 2021 , 12, 645881	5.7	2
32	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
31	Overcoming protein-energy malnutrition in older adults in the residential care setting: A narrative review of causes and interventions. <i>Ageing Research Reviews</i> , 2021 , 70, 101401	12	2
30	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
29	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
28	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
27	A statistical and biological response to an informatics appraisal of healthy aging gene signatures. <i>Genome Biology</i> , 2019 , 20, 152	18.3	1

26	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
25	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
24	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
23	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
22	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
21	Contact tracing for chronic hepatitis B in primary care? A Snapshot Audit in Grampian, Northeast Scotland. <i>Scottish Medical Journal</i> , 2018 , 63, 75-79	1.8	1
20	Indicators of response to exercise training: a systematic review and meta-analysis. <i>BMJ Open</i> , 2021 , 11, e044676	3	1
19	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
18	Pharmacological hypogonadism impairs molecular transducers of exercise-induced muscle growth in humans.. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2022 ,	10.3	1
17	Neuromuscular recruitment strategies of the vastus lateralis according to sex.. <i>Acta Physiologica</i> , 2022 , e13803	5.6	1
16	The role of resistance exercise training for improving cardiorespiratory fitness in healthy older adults: a systematic review and meta-analysis. <i>Age and Ageing</i> , 2022 , 51,	3	1
15	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
14	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
13	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
12	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
11	Transcriptomic adaptation during skeletal muscle habituation to eccentric or concentric exercise training.. <i>Scientific Reports</i> , 2021 , 11, 23930	4.9	0
10	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
9	20 wk resistance training (RT) in 70 y olds improves glucose handling and leg blood flow (LBF) responsiveness to feeding and exercise-plus-feeding without reversing age-related declines in protein kinase B (PKB) responses or increasing endothelial markers. <i>FASEB Journal</i> , 2010 , 24, 618.11	0.9	

8	Human skeletal muscle microvascular blood volume: effects of ageing, feeding and exercise training. <i>FASEB Journal</i> , 2012 , 26, 1142.2	0.9
7	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
6	The effects of bolus versus pulse feeding strategies on muscle anabolism in older men. <i>FASEB Journal</i> , 2013 , 27, 1208.3	0.9
5	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
4	Using a quick timed-up-and-go test to predict surgical risk. <i>JCSM Rapid Communications</i> , 2021 , 4, 159-165.6	
3	Contrast-enhanced ultrasound assessed renal microvascular perfusion may predict postoperative renal complications following colorectal surgery. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2021 , 48, 971-977	3
2	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
1	Regenerative Rehabilitation in Sarcopenia, Dynapenia, and Frailty. <i>Physiology in Health and Disease</i> , 2022 , 121-176	0.2