

# Bethan E Phillips

## 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.

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	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> , <b>2022</b> , 1	8.9	1
96	Pharmacological hypogonadism impairs molecular transducers of exercise-induced muscle growth in humans.. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , <b>2022</b> ,	10.3	1
95	Neuromuscular recruitment strategies of the vastus lateralis according to sex.. <i>Acta Physiologica</i> , <b>2022</b> , e13803	5.6	1
94	Regenerative Rehabilitation in Sarcopenia, Dynapenia, and Frailty. <i>Physiology in Health and Disease</i> , <b>2022</b> , 121-176	0.2	
93	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> , <b>2022</b> , 51,	3	1
92	Association between frailty and C-terminal agrin fragment with 3-month mortality following ST-elevation myocardial infarction.. <i>Experimental Gerontology</i> , <b>2021</b> , 158, 111658	4.5	1
91	Factors associated with electrical stimulation-induced performance fatigability are dependent upon stimulation location. <i>Experimental Physiology</i> , <b>2021</b> , 106, 828-836	2.4	2
90	Using a quick timed-up-and-go test to predict surgical risk. <i>JCSM Rapid Communications</i> , <b>2021</b> , 4, 159-165.	6	
89	Lifelong exercise is associated with more homogeneous motor unit potential features across deep and superficial areas of vastus lateralis. <i>GeroScience</i> , <b>2021</b> , 43, 1555-1565	8.9	4
88	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> , <b>2021</b> , 43, 2653-2665	8.9	2
87	The physiological impact of high-intensity interval training in octogenarians with comorbidities. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , <b>2021</b> , 12, 866-879	10.3	6
86	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> , <b>2021</b> , 12, 629-645	10.3	1
85	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> , <b>2021</b> , 12, 653060	4.6	1
84	Contrast-enhanced ultrasound assessed renal microvascular perfusion may predict postoperative renal complications following colorectal surgery. <i>Clinical and Experimental Pharmacology and Physiology</i> , <b>2021</b> , 48, 971-977	3	
83	Myokine Responses to Exercise in a Rat Model of Low/High Adaptive Potential. <i>Frontiers in Endocrinology</i> , <b>2021</b> , 12, 645881	5.7	2
82	Age-related alterations in muscle architecture are a signature of sarcopenia: the ultrasound sarcopenia index. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , <b>2021</b> , 12, 973-982	10.3	8
81	Dietary protein, exercise, ageing and physical inactivity: interactive influences on skeletal muscle proteostasis. <i>Proceedings of the Nutrition Society</i> , <b>2021</b> , 80, 106-117	2.9	6

80	Influence of sex on the age-related adaptations of neuromuscular function and motor unit properties in elite masters athletes. <i>Journal of Physiology</i> , <b>2021</b> , 599, 193-205	3.9	13
79	The mechanisms of skeletal muscle atrophy in response to transient knockdown of the vitamin D receptor in vivo. <i>Journal of Physiology</i> , <b>2021</b> , 599, 963-979	3.9	10
78	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> , <b>2021</b> , 38, 149-163	4.1	2
77	Molecular and neural adaptations to neuromuscular electrical stimulation; Implications for ageing muscle. <i>Mechanisms of Ageing and Development</i> , <b>2021</b> , 193, 111402	5.6	5
76	Application of dynamic contrast enhanced ultrasound in the assessment of kidney diseases. <i>Current Opinion in Nephrology and Hypertension</i> , <b>2021</b> , 30, 138-143	3.5	3
75	Time-efficient physical activity interventions to reduce blood pressure in older adults: a randomised controlled trial. <i>Age and Ageing</i> , <b>2021</b> , 50, 980-984	3	6
74	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> , <b>2021</b> , 106, 585-592	2.4	1
73	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> , <b>2021</b> , 3, 697518	2.3	0
72	Indicators of response to exercise training: a systematic review and meta-analysis. <i>BMJ Open</i> , <b>2021</b> , 11, e044676	3	1
71	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> , <b>2021</b> , 35, e21830	0.9	0
70	Six weeks of high-intensity interval training enhances contractile activity induced vascular reactivity and skeletal muscle perfusion in older adults. <i>GeroScience</i> , <b>2021</b> , 43, 2667-2678	8.9	0
69	Overcoming protein-energy malnutrition in older adults in the residential care setting: A narrative review of causes and interventions. <i>Ageing Research Reviews</i> , <b>2021</b> , 70, 101401	12	2
68	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> , <b>2021</b> , 46, 1147-1151	3	
67	Transcriptomic adaptation during skeletal muscle habituation to eccentric or concentric exercise training.. <i>Scientific Reports</i> , <b>2021</b> , 11, 23930	4.9	0
66	Circulating testosterone and dehydroepiandrosterone are associated with individual motor unit features in untrained and highly active older men. <i>GeroScience</i> , <b>2021</b> , 1	8.9	0
65	The time course of physiological adaptations to high-intensity interval training in older adults. <i>Aging Medicine (Milton (N S W))</i> , <b>2020</b> , 3, 245-251	3.5	4
64	Challenges and practical recommendations for successfully recruiting inactive, statin-free older adults to clinical trials. <i>BMC Research Notes</i> , <b>2020</b> , 13, 174	2.3	1
63	Exploring the Association between Vascular Dysfunction and Skeletal Muscle Mass, Strength and Function in Healthy Adults: A Systematic Review. <i>Nutrients</i> , <b>2020</b> , 12,	6.7	14

62	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> , <b>2020</b> , 319, R184-R194	3.2	1
61	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> , <b>2020</b> , 75, 1481-1487	6.4	8
60	Network analysis of human muscle adaptation to aging and contraction. <i>Aging</i> , <b>2020</b> , 12, 740-755	5.6	9
59	Untargeted metabolomics for uncovering biological markers of human skeletal muscle ageing. <i>Aging</i> , <b>2020</b> , 12, 12517-12533	5.6	5
58	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> , <b>2020</b> , 39, 2055-2061	5.9	2
57	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> , <b>2020</b> , 319, C1151-C1157	5.4	7
56	Associations between Plasma Branched Chain Amino Acids and Health Biomarkers in Response to Resistance Exercise Training Across Age. <i>Nutrients</i> , <b>2020</b> , 12,	6.7	1
55	Overexpression of the vitamin D receptor (VDR) induces skeletal muscle hypertrophy. <i>Molecular Metabolism</i> , <b>2020</b> , 42, 101059	8.8	19
54	Glucagon-like peptide 1 infusions overcome anabolic resistance to feeding in older human muscle. <i>Aging Cell</i> , <b>2020</b> , 19, e13202	9.9	4
53	Molecular Transducers of Human Skeletal Muscle Remodeling under Different Loading States. <i>Cell Reports</i> , <b>2020</b> , 32, 107980	10.6	13
52	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> , <b>2020</b> , 73, 104163	5.1	0
51	Animal, Plant, Collagen and Blended Dietary Proteins: Effects on Musculoskeletal Outcomes. <i>Nutrients</i> , <b>2020</b> , 12,	6.7	9
50	Links Between Testosterone, Oestrogen, and the Growth Hormone/Insulin-Like Growth Factor Axis and Resistance Exercise Muscle Adaptations. <i>Frontiers in Physiology</i> , <b>2020</b> , 11, 621226	4.6	16
49	Longevity-related molecular pathways are subject to midlife "switch" in humans. <i>Aging Cell</i> , <b>2019</b> , 18, e12970	9.9	11
48	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> , <b>2019</b> , 29, 1383-1391	4.6	12
47	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> , <b>2019</b> , 56, 216-223	5.1	1
46	A statistical and biological response to an informatics appraisal of healthy aging gene signatures. <i>Genome Biology</i> , <b>2019</b> , 20, 152	18.3	1
45	The effect of oral essential amino acids on incretin hormone production in youth and ageing. <i>Endocrinology, Diabetes and Metabolism</i> , <b>2019</b> , 2, e00085	2.7	2

44	Testosterone therapy induces molecular programming augmenting physiological adaptations to resistance exercise in older men. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , <b>2019</b> , 10, 1276-1294	10.3	34
43	The acute transcriptional response to resistance exercise: impact of age and contraction mode. <i>Aging</i> , <b>2019</b> , 11, 2111-2126	5.6	8
42	Short-Term (. <i>Medicine and Science in Sports and Exercise</i> , <b>2018</b> , 50, 1740-1749	1.2	14
41	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> , <b>2018</b> , 12, 248-267		45
40	Oesophageal Doppler guided optimization of cardiac output does not increase visceral microvascular blood flow in healthy volunteers. <i>Clinical Physiology and Functional Imaging</i> , <b>2018</b> , 38, 213-219	2	
39	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> , <b>2018</b> , 37, 2011-2021	5.9	54
38	A coding and non-coding transcriptomic perspective on the genomics of human metabolic disease. <i>Nucleic Acids Research</i> , <b>2018</b> , 46, 7772-7792	20.1	22
37	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> , <b>2018</b> , 73, 539-545	6.4	27
36	Contact tracing for chronic hepatitis B in primary care? A snapshot audit in Grampian, Northeast Scotland. <i>Scottish Medical Journal</i> , <b>2018</b> , 63, 75-79	1.8	1
35	Enriching a protein drink with leucine augments muscle protein synthesis after resistance exercise in young and older men. <i>Clinical Nutrition</i> , <b>2017</b> , 36, 888-895	5.9	34
34	"Nutraceuticals" in relation to human skeletal muscle and exercise. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2017</b> , 312, E282-E299	6	39
33	Human skeletal muscle is refractory to the anabolic effects of leucine during the postprandial muscle-full period in older men. <i>Clinical Science</i> , <b>2017</b> , 131, 2643-2653	6.5	22
32	Physiological adaptations to resistance exercise as a function of age. <i>JCI Insight</i> , <b>2017</b> , 2,	9.9	35
31	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> , <b>2017</b> , 6, 1235	3.6	5
30	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> , <b>2017</b> , 5, e13390	2.6	17
29	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> , <b>2017</b> , 36, 1573-1579	5.9	16
28	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> , <b>2017</b> , 8, 229	5.7	49
27	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> , <b>2017</b> , 6, 1235	3.6	4

26	Human Skeletal Muscle Protein Metabolism Responses to Amino Acid Nutrition. <i>Advances in Nutrition</i> , <b>2016</b> , 7, 828S-38S	10	44
25	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> , <b>2016</b> , 41, 548-56	3	14
24	Synchronous deficits in cumulative muscle protein synthesis and ribosomal biogenesis underlie age-related anabolic resistance to exercise in humans. <i>Journal of Physiology</i> , <b>2016</b> , 594, 7399-7417	3.9	102
23	Exercise and Regulation of Protein Metabolism. <i>Progress in Molecular Biology and Translational Science</i> , <b>2015</b> , 135, 75-98	4	16
22	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> , <b>2015</b> , 308, E847	6	6
21	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> , <b>2015</b> , 593, 2721-34	3.9	29
20	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> , <b>2015</b> , 308, E1056-65	6	88
19	Creatinine and myoglobin are poor predictors of anaerobic threshold in colorectal cancer and health. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , <b>2015</b> , 6, 125-31	10.3	13
18	A novel multi-tissue RNA diagnostic of healthy ageing relates to cognitive health status. <i>Genome Biology</i> , <b>2015</b> , 16, 185	18.3	112
17	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> , <b>2015</b> , 309, E450-7	6	37
16	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> , <b>2015</b> , 145, 207-14	4.1	43
15	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> , <b>2015</b> , 70, 174-81	6.4	44
14	Internal comparison between deuterium oxide (D2O) and L-[ring-13C6] phenylalanine for acute measurement of muscle protein synthesis in humans. <i>Physiological Reports</i> , <b>2015</b> , 3, e12433	2.6	34
13	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> , <b>2014</b> , 306, E168-76	6	21
12	Physiological mechanisms of action of incretin and insulin in regulating skeletal muscle metabolism. <i>Current Diabetes Reviews</i> , <b>2014</b> , 10, 327-35	2.7	22
11	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> , <b>2013</b> , 4, 71-7	10.3	24
10	Molecular networks of human muscle adaptation to exercise and age. <i>PLoS Genetics</i> , <b>2013</b> , 9, e1003389	6	123
9	Development of a new SonoVue <sup>®</sup> contrast-enhanced ultrasound approach reveals temporal and age-related features of muscle microvascular responses to feeding. <i>Physiological Reports</i> , <b>2013</b> , 1, e00119 <sup>6</sup>	2.6	50

8	Adding arginine to an essential amino acid (EAA) feed reverses age-related impairments in vascular responsiveness. <i>FASEB Journal</i> , <b>2013</b> , 27, 679.5	0.9	
7	The effects of bolus versus pulse feeding strategies on muscle anabolism in older men. <i>FASEB Journal</i> , <b>2013</b> , 27, 1208.3	0.9	
6	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> , <b>2013</b> , 27, 1132.9	0.9	
5	Regulation of muscle protein synthesis in humans. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , <b>2012</b> , 15, 58-63	3.8	58
4	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> , <b>2012</b> , 96, 1064-70	7	87
3	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> , <b>2012</b> , 112, 347-53	3.7	41
2	Human skeletal muscle microvascular blood volume: effects of ageing, feeding and exercise training. <i>FASEB Journal</i> , <b>2012</b> , 26, 1142.2	0.9	
1	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> , <b>2010</b> , 24, 618.11	0.9	