List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8752306/publications.pdf Version: 2024-02-01



RENIAMIN F MILLED

#	Article	IF	CITATIONS
1	Coordinated collagen and muscle protein synthesis in human patella tendon and quadriceps muscle after exercise. Journal of Physiology, 2005, 567, 1021-1033.	2.9	469
2	Longer lifespan in male mice treated with a weakly estrogenic agonist, an antioxidant, an αâ€glucosidase inhibitor or a Nrf2â€inducer. Aging Cell, 2016, 15, 872-884.	6.7	277
3	Tendon collagen synthesis at rest and after exercise in women. Journal of Applied Physiology, 2007, 102, 541-546.	2.5	135
4	Metformin inhibits mitochondrial adaptations to aerobic exercise training in older adults. Aging Cell, 2019, 18, e12880.	6.7	135
5	Greater muscle protein synthesis and mitochondrial biogenesis in males compared with females during sprint interval training. FASEB Journal, 2014, 28, 2705-2714.	0.5	128
6	A comprehensive assessment of mitochondrial protein synthesis and cellular proliferation with age and caloric restriction. Aging Cell, 2012, 11, 150-161.	6.7	117
7	Longâ€ŧerm synthesis rates of skeletal muscle DNA and protein are higher during aerobic training in older humans than in sedentary young subjects but are not altered by protein supplementation. FASEB Journal, 2011, 25, 3240-3249.	0.5	114
8	Mitochondria as a Target for Mitigating Sarcopenia. Frontiers in Physiology, 2018, 9, 1883.	2.8	96
9	No effect of menstrual cycle on myofibrillar and connective tissue protein synthesis in contracting skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2006, 290, E163-E168.	3.5	89
10	Assessment of Mitochondrial Biogenesis and mTORC1 Signaling During Chronic Rapamycin Feeding in Male and Female Mice. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2013, 68, 1493-1501.	3.6	84
11	Circulating protein synthesis rates reveal skeletal muscle proteome dynamics. Journal of Clinical Investigation, 2015, 126, 288-302.	8.2	72
12	A perspective on the determination of mitochondrial biogenesis. American Journal of Physiology - Endocrinology and Metabolism, 2012, 302, E496-E499.	3.5	71
13	Mechanisms of In Vivo Ribosome Maintenance Change in Response to Nutrient Signals. Molecular and Cellular Proteomics, 2017, 16, 243-254.	3.8	67
14	Necroptosis contributes to chronic inflammation and fibrosis in aging liver. Aging Cell, 2021, 20, e13512.	6.7	66
15	Muscleâ€specific changes in protein synthesis with aging and reloading after disuse atrophy. Journal of Cachexia, Sarcopenia and Muscle, 2019, 10, 1195-1209.	7.3	60
16	Modeling the contribution of individual proteins to mixed skeletal muscle protein synthetic rates over increasing periods of label incorporation. Journal of Applied Physiology, 2015, 118, 655-661.	2.5	58
17	Enhanced skeletal muscle regrowth and remodelling in massaged and contralateral nonâ€massaged hindlimb. Journal of Physiology, 2018, 596, 83-103.	2.9	56
18	Skeletal Muscle Mitochondrial Protein Synthesis and Respiration Increase With Low-Load Blood Flow Restricted as Well as High-Load Resistance Training. Frontiers in Physiology, 2018, 9, 1796.	2.8	55

#	Article	IF	CITATIONS
19	Calorie Restriction Does Not Increase Short-term or Long-term Protein Synthesis. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2013, 68, 530-538.	3.6	49
20	The measurement of protein synthesis for assessing proteostasis in studies of slowed aging. Ageing Research Reviews, 2014, 18, 106-111.	10.9	46
21	Longâ€lived Snell dwarf mice display increased proteostatic mechanisms that are not dependent on decreased <scp>mTORC</scp> 1 activity. Aging Cell, 2015, 14, 474-482.	6.7	45
22	CORP: The use of deuterated water for the measurement of protein synthesis. Journal of Applied Physiology, 2020, 128, 1163-1176.	2.5	42
23	The ketogenic diet preserves skeletal muscle with aging in mice. Aging Cell, 2021, 20, e13322.	6.7	42
24	Influence of Nrf2 activators on subcellular skeletal muscle protein and DNA synthesis rates after 6Âweeks of milk protein feeding in older adults. GeroScience, 2017, 39, 175-186.	4.6	41
25	The rigorous study of exercise adaptations: why mRNA might not be enough. Journal of Applied Physiology, 2016, 121, 594-596.	2.5	40
26	Dietary Methionine Restriction Regulates Liver Protein Synthesis and Gene Expression Independently of Eukaryotic Initiation Factor 2 Phosphorylation in Mice. Journal of Nutrition, 2017, 147, 1031-1040.	2.9	39
27	Long-lived crowded-litter mice have an age-dependent increase in protein synthesis to DNA synthesis ratio and mTORC1 substrate phosphorylation. American Journal of Physiology - Endocrinology and Metabolism, 2014, 307, E813-E821.	3.5	36
28	Hematological and acid-base changes in men during prolonged exercise with and without sodium-lactate infusion. Journal of Applied Physiology, 2005, 98, 856-865.	2.5	35
29	Impact of dairy protein during limb immobilization and recovery on muscle size and protein synthesis; a randomized controlled trial. Journal of Applied Physiology, 2018, 124, 717-728.	2.5	35
30	Six Weeks of Low-Load Blood Flow Restricted and High-Load Resistance Exercise Training Produce Similar Increases in Cumulative Myofibrillar Protein Synthesis and Ribosomal Biogenesis in Healthy Males. Frontiers in Physiology, 2019, 10, 649.	2.8	34
31	Effect of Blood Flow Restricted Resistance Exercise and Remote Ischemic Conditioning on Functional Capacity and Myocellular Adaptations in Patients With Heart Failure. Circulation: Heart Failure, 2019, 12, e006427.	3.9	33
32	A viewpoint on considering physiological principles to study stress resistance and resilience with aging. Ageing Research Reviews, 2017, 38, 1-5.	10.9	32
33	Ribosome biogenesis and degradation regulate translational capacity during muscle disuse and reloading. Journal of Cachexia, Sarcopenia and Muscle, 2021, 12, 130-143.	7.3	32
34	Targeting mitochondrial function and proteostasis to mitigate dynapenia. European Journal of Applied Physiology, 2018, 118, 1-9.	2.5	31
35	Cancer cachexia in a mouse model of oxidative stress. Journal of Cachexia, Sarcopenia and Muscle, 2020, 11, 1688-1704.	7.3	31
36	A Novel Stable Isotope Approach Demonstrates Surprising Degree of Age-Related Decline in Skeletal Muscle Collagen Proteostasis. Function, 2021, 2, zqab028.	2.3	30

#	Article	IF	CITATIONS
37	Mitochondrial proteostasis as a shared characteristic of slowed aging: the importance of considering cell proliferation. Journal of Physiology, 2017, 595, 6401-6407.	2.9	29
38	Short-term Calorie Restriction and 17α-Estradiol Administration Elicit Divergent Effects on Proteostatic Processes and Protein Content in Metabolically Active Tissues. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, 849-857.	3.6	28
39	Taming expectations of metformin as a treatment to extend healthspan. GeroScience, 2019, 41, 101-108.	4.6	27
40	Glutathione as a mediator of cartilage oxidative stress resistance and resilience during aging and osteoarthritis. Connective Tissue Research, 2020, 61, 34-47.	2.3	27
41	Inducible cell-specific mouse models for paired epigenetic and transcriptomic studies of microglia and astroglia. Communications Biology, 2020, 3, 693.	4.4	27
42	Massage as a mechanotherapy promotes skeletal muscle protein and ribosomal turnover but does not mitigate muscle atrophy during disuse in adult rats. Acta Physiologica, 2020, 229, e13460.	3.8	27
43	Î ² -Adrenergic receptor blockade blunts postexercise skeletal muscle mitochondrial protein synthesis rates in humans. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 301, R327-R334.	1.8	25
44	Molecular changes associated with spinal cord aging. GeroScience, 2020, 42, 765-784.	4.6	25
45	Physiologic Responses to Dietary Sulfur Amino Acid Restriction in Mice Are Influenced by Atf4 Status and Biological Sex. Journal of Nutrition, 2021, 151, 785-799.	2.9	24
46	Differential effects of vitamin C or protandim on skeletal muscle adaptation to exercise. Journal of Applied Physiology, 2018, 125, 661-671.	2.5	22
47	Skeletal muscle mitochondrial protein synthesis and respiration in response to the energetic stress of an ultra-endurance race. Journal of Applied Physiology, 2017, 123, 1516-1524.	2.5	21
48	Long-term rates of mitochondrial protein synthesis are increased in mouse skeletal muscle with high-fat feeding regardless of insulin-sensitizing treatment. American Journal of Physiology - Endocrinology and Metabolism, 2017, 313, E552-E562.	3.5	21
49	Sex differences in changes of protein synthesis with rapamycin treatment are minimized when metformin is added to rapamycin. GeroScience, 2021, 43, 809-828.	4.6	21
50	Long-term aerobic exercise preserves muscle mass and function with age. Current Opinion in Physiology, 2019, 10, 70-74.	1.8	18
51	Serum extracellular vesicle miR-203a-3p content is associated with skeletal muscle mass and protein turnover during disuse atrophy and regrowth. American Journal of Physiology - Cell Physiology, 2020, 319, C419-C431.	4.6	18
52	Brain Protein Synthesis Rates in the UM-HET3 Mouse Following Treatment With Rapamycin or Rapamycin With Metformin. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, 40-49.	3.6	17
53	Exercise-Pharmacology Interactions: Metformin, Statins, and Healthspan. Physiology, 2020, 35, 338-347.	3.1	15
54	Determining the contributions of protein synthesis and breakdown to muscle atrophy requires	7.3	15

#	Article	IF	CITATIONS
55	The combination of exercise training and sodium-glucose cotransporter-2 inhibition improves glucose tolerance and exercise capacity in a rodent model of type 2 diabetes. Metabolism: Clinical and Experimental, 2019, 97, 68-80.	3.4	14
56	Differential Effects of Rapamycin and Metformin in Combination With Rapamycin on Mechanisms of Proteostasis in Cultured Skeletal Myotubes. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, 32-39.	3.6	13
57	Utilization of biomarkers as predictors of skeletal muscle mitochondrial content after physiological intervention and in clinical settings. American Journal of Physiology - Endocrinology and Metabolism, 2020, 318, E886-E889.	3.5	13
58	Mitochondrial adaptations to exercise do not require Bcl2â€mediated autophagy but occur with BNIP3/Parkin activation. FASEB Journal, 2020, 34, 4602-4618.	0.5	12
59	Assessment of protein synthesis in highly aerobic canine species at the onset and during exercise training. Journal of Applied Physiology, 2015, 118, 811-817.	2.5	11
60	Tumor burden negatively impacts protein turnover as a proteostatic process in non-cancerous liver, heart, and muscle, but not brain. Journal of Applied Physiology, 2021, 131, 72-82.	2.5	8
61	An In Vivo Stable Isotope Labeling Method to Investigate Individual Matrix Protein Synthesis, Ribosomal Biogenesis, and Cellular Proliferation in Murine Articular Cartilage. Function, 2022, 3, zqac008.	2.3	8
62	Muscle from aged rats is resistant to mechanotherapy during atrophy and reloading. GeroScience, 2021, 43, 65-83.	4.6	7
63	Massage as a Mechanotherapy for Skeletal Muscle. Exercise and Sport Sciences Reviews, 2021, 49, 107-114.	3.0	7
64	Age-Related Susceptibility to Muscle Damage Following Mechanotherapy in Rats Recovering From Disuse Atrophy. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2021, 76, 2132-2140.	3.6	6
65	Short-term changes in diet composition do not affect in vivo hepatic protein synthesis in rats. American Journal of Physiology - Endocrinology and Metabolism, 2018, 314, E241-E250.	3.5	5
66	Cognitive function is preserved in aged mice following long-term Î ² -hydroxy Î ² -methylbutyrate supplementation. Nutritional Neuroscience, 2020, 23, 170-182.	3.1	5
67	Mechanotherapy Reprograms Aged Muscle Stromal Cells to Remodel the Extracellular Matrix during Recovery from Disuse. Function, 2022, 3, zqac015.	2.3	4
68	Systemic delivery of a mitochondria targeted antioxidant partially preserves limb muscle mass and grip strength in response to androgen deprivation. Molecular and Cellular Endocrinology, 2021, 535, 111391.	3.2	3
69	Antecedent Metabolic Health and Metformin (ANTHEM) Aging Study: Rationale and Study Design for a Randomized Controlled Trial. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2022, 77, 2373-2377.	3.6	3
70	Oklahoma Nathan Shock Aging Center — assessing the basic biology of aging from genetics to protein and function. GeroScience, 2021, 43, 2183-2203.	4.6	2
71	Assessing the Dynamic Mitochondrial Fission and Fusion Events in Skeletal Muscle <i>in vivo</i> . FASEB Journal, 2021, 35,	0.5	0
72	Heterochronic Plasma Transfer Alters Proteostatic Maintenance in Skeletal Muscle. FASEB Journal, 2021, 35, .	0.5	0

#	Article	IF	CITATIONS
73	Mechanotherapy does not Enhance Recovery Following Muscle Disuse Atrophy in Female Rats. FASEB Journal, 2022, 36, .	0.5	0
74	Myonuclei Can Replicate DNA. FASEB Journal, 2022, 36, .	0.5	0
75	Intrinsic Mitochondrial Function Impacts the Outcomes of Metformin Treatment on Skeletal Muscle Mitochondrial Morphology in Aged Rat. FASEB Journal, 2022, 36, .	0.5	0
76	Impaired Proteostasis, not Protein Synthesis, Limits Recovery of Aged Skeletal Muscle After Disuse Atrophy. FASEB Journal, 2022, 36, .	0.5	0