Esther E Dupont-Versteegden

List of Publications by Year
in descending order

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85	4,932	94433 37	95266 68
papers	citations	h-index	g-index

85	85	85	4757
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effective fiber hypertrophy in satellite cell-depleted skeletal muscle. Development (Cambridge), 2011, 138, 3657-3666.	2.5	531
2	Inducible depletion of satellite cells in adult, sedentary mice impairs muscle regenerative capacity without affecting sarcopenia. Nature Medicine, 2015, 21, 76-80.	30.7	358
3	Regulation of the muscle fiber micro environment by activated satellite cells during hypertrophy. FASEB Journal, 2014, 28, 1654-1665.	0.5	225
4	Age-related differences in apoptosis with disuse atrophy in soleus muscle. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2005, 288, R1288-R1296.	1.8	185
5	Evidence of MyomiR network regulation of Î²-myosin heavy chain gene expression during skeletal muscle atrophy. Physiological Genomics, 2009, 39, 219-226.	2.3	184
6	Apoptosis in muscle atrophy: Relevance to sarcopenia. Experimental Gerontology, 2005, 40, 473-481.	2.8	162
7	The Î²3-adrenergic receptor agonist mirabegron improves glucose homeostasis in obese humans. Journal of Clinical Investigation, 2020, 130, 2319-2331.	8.2	157
8	Mitochondrial death effectors: Relevance to sarcopenia and disuse muscle atrophy. Biochimica Et Biophysica Acta - General Subjects, 2010, 1800, 235-244.	2.4	150
9	Human adipose beiging in response to cold and mirabegron. JCI Insight, 2018, 3, .	5.0	131
10	Satellite cell depletion does not inhibit adult skeletal muscle regrowth following unloading-induced atrophy. American Journal of Physiology - Cell Physiology, 2012, 303, C854-C861.	4.6	122
11	Differential requirement for satellite cells during overload-induced muscle hypertrophy in growing versus mature mice. Skeletal Muscle, 2017, 7, 14.	4.2	119
12	Increased iron content and RNA oxidative damage in skeletal muscle with aging and disuse atrophy. Experimental Gerontology, 2008, 43, 563-570.	2.8	118
13	Apoptosis in skeletal muscle and its relevance to atrophy. World Journal of Gastroenterology, 2006, 12, 7463.	3.3	118
14	Activated satellite cells fail to restore myonuclear number in spinal cord transected and exercised rats. American Journal of Physiology - Cell Physiology, 1999, 277, C589-C597.	4.6	113
15	Nuclear translocation of EndoG at the initiation of disuse muscle atrophy and apoptosis is specific to myonuclei. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2006, 291, R1730-R1740.	1.8	111
16	Exercise-induced gene expression in soleus muscle is dependent on time after spinal cord injury in rats. Muscle and Nerve, 2004, 29, 73-81.	2.2	110
17	Starring or Supporting Role? Satellite Cells and Skeletal Muscle Fiber Size Regulation. Physiology, 2018, 33, 26-38.	3.1	107
18	Satellite cell regulation of muscle mass is altered at old age. Journal of Applied Physiology, 2004, 97, 1082-1090.	2.5	103

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19	Investigating the Mechanisms of Massage Efficacy: The Role of Mechanical Immunomodulation. Journal of Athletic Training, 2014, 49, 266-273.	1.8	94
20	Aged human muscle demonstrates an altered gene expression profile consistent with an impaired response to exercise. Mechanisms of Ageing and Development, 2000, 120, 45-56.	4.6	91
21	Widespread Regulation of miRNA Biogenesis at the Dicer Step by the Cold-Inducible RNA-Binding Protein, RBM3. PLoS ONE, 2011, 6, e28446.	2.5	82
22	Acute skeletal muscle wasting and dysfunction predict physical disability at hospital discharge in patients with critical illness. Critical Care, 2020, 24, 637.	5.8	81
23	Myonuclear transcription is responsive to mechanical load and DNA content but uncoupled from cell size during hypertrophy. Molecular Biology of the Cell, 2016, 27, 788-798.	2.1	73
24	Myonuclear Domain Flexibility Challenges Rigid Assumptions on Satellite Cell Contribution to Skeletal Muscle Fiber Hypertrophy. Frontiers in Physiology, 2018, 9, 635.	2.8	72
25	Mechanisms leading to restoration of muscle size with exercise and transplantation after spinal cord injury. American Journal of Physiology - Cell Physiology, 2000, 279, C1677-C1684.	4.6	67
26	Maintenance of muscle mass is not dependent on the calcineurin-NFAT pathway. American Journal of Physiology - Cell Physiology, 2002, 282, C1387-C1395.	4.6	62
27	Mast Cells Promote Seasonal White Adipose Beiging in Humans. Diabetes, 2017, 66, 1237-1246.	0.6	62
28	Depletion of resident muscle stem cells negatively impacts running volume, physical function, and muscle fiber hypertrophy in response to lifelong physical activity. American Journal of Physiology - Cell Physiology, 2020, 318, C1178-C1188.	4.6	62
29	Age-related changes of cell death pathways in rat extraocular muscle. Experimental Gerontology, 2009, 44, 420-425.	2.8	59
30	Enhanced skeletal muscle regrowth and remodelling in massaged and contralateral nonâ€massaged hindlimb. Journal of Physiology, 2018, 596, 83-103.	2.9	56
31	Enhanced survival of skeletal muscle myoblasts in response to overexpression of cold shock protein RBM3. American Journal of Physiology - Cell Physiology, 2011, 301, C392-C402.	4.6	51
32	Fusion and beyond: Satellite cell contributions to loadingâ€induced skeletal muscle adaptation. FASEB Journal, 2021, 35, e21893.	0.5	51
33	Reduced voluntary running performance is associated with impaired coordination as a result of muscle satellite cell depletion in adult mice. Skeletal Muscle, 2015, 5, 41.	4.2	47
34	Skeletal muscle apoptotic response to physical activity: potential mechanisms for protection. Applied Physiology, Nutrition and Metabolism, 2011, 36, 608-617.	1.9	46
35	Effect of flywheel-based resistance exercise on processes contributing to muscle atrophy during unloading in adult rats. Journal of Applied Physiology, 2006, 101, 202-212.	2.5	45
36	Aged Muscle Demonstrates Fiber-Type Adaptations in Response to Mechanical Overload, in the Absence of Myofiber Hypertrophy, Independent of Satellite Cell Abundance. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2016, 71, 461-467.	3.6	41

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37	Regrowth after skeletal muscle atrophy is impaired in aged rats, despite similar responses in signaling pathways. Experimental Gerontology, 2015, 64, 17-32.	2.8	40
38	Cell death-resistance of differentiated myotubes is associated with enhanced anti-apoptotic mechanisms compared to myoblasts. Apoptosis: an International Journal on Programmed Cell Death, 2011, 16, 221-234.	4.9	39
39	Early satellite cell communication creates a permissive environment for long-term muscle growth. IScience, 2021, 24, 102372.	4.1	39
40	Long-term perturbation of muscle iron homeostasis following hindlimb suspension in old rats is associated with high levels of oxidative stress and impaired recovery from atrophy. Experimental Gerontology, 2012, 47, 100-108.	2.8	37
41	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
42	Identification of cold-shock protein RBM3 as a possible regulator of skeletal muscle size through expression profiling. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 295, R1263-R1273.	1.8	31
43	Adipose Tissue Mast Cells Promote Human Adipose Beiging in Response to Cold. Scientific Reports, 2019, 9, 8658.	3.3	29
44	Physical Therapy Management of an Individual With Post-COVID Syndrome: A Case Report. Physical Therapy, 2021, 101, .	2.4	29
45	Immunomodulatory effects of massage on nonperturbed skeletal muscle in rats. Journal of Applied Physiology, 2014, 116, 164-175.	2.5	28
46	Methodological issues limit interpretation of negative effects of satellite cell depletion on adult muscle hypertrophy. Development (Cambridge), 2017, 144, 1363-1365.	2.5	27
47	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
48	Identification of a conserved set of upregulated genes in mouse skeletal muscle hypertrophy and regrowth. Journal of Applied Physiology, 2015, 118, 86-97.	2.5	26
49	Cycling Exercise and Fetal Spinal Cord Transplantation Act Synergistically on Atrophied Muscle following Chronic Spinal Cord Injury in Rats. Neurorehabilitation and Neural Repair, 2000, 14, 85-91.	2.9	25
50	Resident muscle stem cells are not required for testosterone-induced skeletal muscle hypertrophy. American Journal of Physiology - Cell Physiology, 2019, 317, C719-C724.	4.6	23
51	Depletion of Pax7+ satellite cells does not affect diaphragm adaptations to running in young or aged mice. Journal of Physiology, 2017, 595, 6299-6311.	2.9	22
52	â€œMuscle memoryâ€•not mediated by myonuclear number? Secondary analysis of human detraining data. Journal of Applied Physiology, 2019, 127, 1814-1816.	2.5	21
53	Massage increases satellite cell number independent of the ageâ€associated alterations in sarcolemma permeability. Physiological Reports, 2019, 7, e14200.	1.7	19
54	Cold shock protein RBM3 attenuates atrophy and induces hypertrophy in skeletal muscle. Journal of Muscle Research and Cell Motility, 2018, 39, 35-40.	2.0	18

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55	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
56	Macrophage Regulation of Muscle Regrowth From Disuse in Aging. Exercise and Sport Sciences Reviews, 2019, 47, 246-250.	3.0	13
57	Interrater Reliability of Muscle Ultrasonography Image Acquisition by Physical Therapists in Patients Who Have or Who Survived Critical Illness. Physical Therapy, 2020, 100, 1701-1711.	2.4	13
58	Timing and Amount of Physical Therapy Treatment are Associated with Length of Stay in the Cardiothoracic ICU. Scientific Reports, 2017, 7, 17591.	3.3	12
59	Age-related responses to a bout of mechanotherapy in skeletal muscle of rats. Journal of Applied Physiology, 2019, 127, 1782-1791.	2.5	11
60	Safety and Feasibility of an Interdisciplinary Treatment Approach to Optimize Recovery From Critical Coronavirus Disease 2019. , 2021, 3, e0516.		11
61	Cross Talk proposal: Myonuclei are lost with ageing and atrophy. Journal of Physiology, 2022, 600, 2077-2080.	2.9	11
62	Pioglitazone does not synergize with mirabegron to increase beige fat or further improve glucose metabolism. JCI Insight, 2021, 6, .	5.0	9
63	Skeletal muscle RBM3 expression is associated with extended lifespan in Ames Dwarf and calorie restricted mice. Experimental Gerontology, 2021, 146, 111214.	2.8	8
64	Distinct muscle apoptotic pathways are activated in muscles with different fiber types in a rat model of critical illness myopathy. Journal of Muscle Research and Cell Motility, 2015, 36, 243-253.	2.0	7
65	Recovery from COVID-19 and acute respiratory distress syndrome: the potential role of an intensive care unit recovery clinic: a case report. Journal of Medical Case Reports, 2020, 14, 161.	0.8	7
66	Muscle from aged rats is resistant to mechanotherapy during atrophy and reloading. GeroScience, 2021, 43, 65-83.	4.6	7
67	Physical Function Measured Prior to Lung Transplantation Is Associated With Posttransplant Patient Outcomes. Transplantation Proceedings, 2021, 53, 288-295.	0.6	7
68	Muscle Power is Related to Physical Function in Patients Surviving Acute Respiratory Failure: A Prospective Observational Study. American Journal of the Medical Sciences, 2021, 361, 310-318.	1.1	7
69	Massage as a Mechanotherapy for Skeletal Muscle. Exercise and Sport Sciences Reviews, 2021, 49, 107-114.	3.0	7
70	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
71	Mechanotherapy Reprograms Aged Muscle Stromal Cells to Remodel the Extracellular Matrix during Recovery from Disuse. Function, 2022, 3, zqac015.	2.3	4
72	Physical Therapists Know Function: An Opinion on Mobility and Level of Activity During Hospitalization for Adult Inpatients. Hospital Topics, 2018, 96, 61-68.	0.5	3

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73	Implementing Multilevel Schoolâ€Based Physical Activity Interventions Using Core Implementation Components Model. Journal of School Health, 2019, 89, 427-431.	1.6	3
74	Temporal disruption of neuromuscular communication and muscle atrophy following noninvasive ACL injury in rats. Journal of Applied Physiology, 2022, 132, 46-57.	2.5	3
75	Translational control of muscle mass. Journal of Applied Physiology, 2019, 127, 579-580.	2.5	2
76	Using Massage to Combat Fear-Avoidance and the Pain Tension Cycle. International Journal of Athletic Therapy and Training, 2019, 24, 198-201.	0.2	1
77	The aging rat diaphragm: changes in contractile function and mitochondria content. FASEB Journal, 2011, 25, 1114.8.	0.5	1
78	Sarcopenia and hypertrophy in aged skeletal muscle is independent of lifelong muscle stem cell depletion. FASEB Journal, 2013, 27, 1150.8.	0.5	1
79	Macrophages expressing uncoupling protein 1 increase in adipose tissue in response to cold in humans. Scientific Reports, 2021, 11, 23598.	3.3	1
80	Efficacy of power training to improve physical function in individuals diagnosed with frailty and chronic disease: A metaâ€analysis. Physiological Reports, 2022, 10, .	1.7	1
81	Satellite Cells are not Prerequisite for Skeletal Muscle Regrowth Following Unloadingâ€Induced Atrophy. FASEB Journal, 2012, 26, 1143.11.	0.5	0
82	Attenuated Muscle Regrowth with Age is Not Associated with Differences in Anabolic and Catabolic Pathways. FASEB Journal, 2012, 26, 1086.7.	0.5	0
83	RNA degradation is elevated with ageâ€, but not disuseâ€associated skeletal muscle atrophy. FASEB Journal, 2013, 27, 940.2.	0.5	0
84	Satellite Cell Depletion Negatively Impacts Voluntary Wheel Running Performance in Mice. FASEB Journal, 2013, 27, 1152.9.	0.5	0
85	Skeletal Muscle Disuse Alters Exosome miRNA Predicted to Target Various Signaling Pathways Related to Muscle Atrophy. FASEB Journal, 2018, 32, 856.10.	0.5	0