Aphrodite Vasilaki

List of Publications by Year
in descending order

61 papers	3,358 citations	126708 33 h-index	205818 48 g-index
68 all docs	68 docs citations	68 times ranked	3944 citing authors

#	Article	IF	Citations
1	Contractile activity-induced oxidative stress: cellular origin and adaptive responses. American Journal of Physiology - Cell Physiology, 2001, 280, C621-C627.	2.1	267
2	Effect of Vitamin C Supplements on Antioxidant Defence and Stress Proteins in Human Lymphocytes and Skeletal Muscle. Journal of Physiology, 2003, 549, 645-652.	1.3	231
3	Studies of Mitochondrial and Nonmitochondrial Sources Implicate Nicotinamide Adenine Dinucleotide Phosphate Oxidase(s) in the Increased Skeletal Muscle Superoxide Generation That Occurs During Contractile Activity. Antioxidants and Redox Signaling, 2013, 18, 603-621.	2.5	207
4	Free radical generation by skeletal muscle of adult and old mice: effect of contractile activity. Aging Cell, 2006, 5, 109-117.	3.0	180
5	Adaptive responses of mouse skeletal muscle to contractile activity: The effect of age. Mechanisms of Ageing and Development, 2006, 127, 830-839.	2.2	150
6	Exercise and skeletal muscle ageing: cellular and molecular mechanisms. Ageing Research Reviews, 2002, 1, 79-93.	5.0	140
7	Redefining the major contributors to superoxide production in contracting skeletal muscle. The role of NAD(P)H oxidases. Free Radical Research, 2014, 48, 12-29.	1.5	137
8	Age-related changes in skeletal muscle: changes to life-style as a therapy. Biogerontology, 2018, 19, 519-536.	2.0	137
9	Is oxidative stress a physiological cost of reproduction? An experimental test in house mice. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 1098-1106.	1.2	108
10	Preconditioning of skeletal muscle against contraction-induced damage: the role of adaptations to oxidants in mice. Journal of Physiology, 2004, 561, 233-244.	1.3	107
11	Intracellular generation of reactive oxygen species by contracting skeletal muscle cells. Free Radical Biology and Medicine, 2005, 39, 651-657.	1.3	107
12	Mitochondrial ROS regulate oxidative damage and mitophagy but not age-related muscle fiber atrophy. Scientific Reports, 2016, 6, 33944.	1.6	97
13	Damage to developing mouse skeletal muscle myotubes in culture: protective effect of heat shock proteins. Journal of Physiology, 2003, 548, 837-846.	1.3	97
14	Pathogenesis of FOLFOX induced sinusoidal obstruction syndrome in a murine chemotherapy model. Journal of Hepatology, 2013, 59, 318-326.	1.8	95
15	Repeated bouts of aerobic exercise lead to reductions in skeletal muscle free radical generation and nuclear factor Î°B activation. Journal of Physiology, 2008, 586, 3979-3990.	1.3	88
16	Attenuated HSP70 response in skeletal muscle of aged rats following contractile activity. Muscle and Nerve, 2002, 25, 902-905.	1.0	78
17	Neuronâ€specific expression of CuZnSOD prevents the loss of muscle mass and function that occurs in homozygous CuZnSODâ€knockout mice. FASEB Journal, 2014, 28, 1666-1681.	0.2	75
18	Skeletal Muscle Damage with Exercise and Aging. Sports Medicine, 2005, 35, 413-427.	3.1	68

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19	Neuron specific reduction in CuZnSOD is not sufficient to initiate a full sarcopenia phenotype. Redox Biology, 2015, 5, 140-148.	3.9	61
20	Cellular mechanisms underlying oxidative stress in human exercise. Free Radical Biology and Medicine, 2016, 98, 13-17.	1.3	60
21	Vitamin E and the Oxidative Stress of Exercise. Annals of the New York Academy of Sciences, 2004, 1031, 158-168.	1.8	58
22	Role of superoxideâ€“nitric oxide interactions in the accelerated ageâ€related loss of muscle mass in mice lacking Cu,Zn superoxide dismutase. Aging Cell, 2011, 10, 749-760.	3.0	57
23	Tissueâ€dependent changes in oxidative damage with male reproductive effort in house mice. Functional Ecology, 2012, 26, 423-433.	1.7	57
24	Accelerated sarcopenia in Cu/Zn superoxide dismutase knockout mice. Free Radical Biology and Medicine, 2019, 132, 19-23.	1.3	51
25	Glutathione-peroxidase-1 null muscle progenitor cells are globally defective. Free Radical Biology and Medicine, 2006, 41, 1174-1184.	1.3	50
26	Role of reactive oxygen species in the defective regeneration seen in aging muscle. Free Radical Biology and Medicine, 2013, 65, 317-323.	1.3	50
27	The ageâ€related failure of adaptive responses to contractile activity in skeletal muscle is mimicked in young mice by deletion of Cu,Zn superoxide dismutase. Aging Cell, 2010, 9, 979-990.	3.0	48
28	Aging increases the oxidation of dichlorohydrofluorescein in single isolated skeletal muscle fibers at rest, but not during contractions. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2013, 305, R351-R358.	0.9	48
29	Comparison of Whole Body SOD1 Knockout with Muscle-Specific SOD1 Knockout Mice Reveals a Role for Nerve Redox Signaling in Regulation of Degenerative Pathways in Skeletal Muscle. Antioxidants and Redox Signaling, 2018, 28, 275-295.	2.5	41
30	Denervated muscle fibers induce mitochondrial peroxide generation in neighboring innervated fibers: Role in muscle aging. Free Radical Biology and Medicine, 2017, 112, 84-92.	1.3	40
31	Genetic modification of the manganese superoxide dismutase/glutathione peroxidase 1 pathway influences intracellular ROS generation in quiescent, but not contracting, skeletal muscle cells. Free Radical Biology and Medicine, 2006, 41, 1719-1725.	1.3	37
32	Formation of 3-nitrotyrosines in carbonic anhydrase III is a sensitive marker of oxidative stress in skeletal muscle. Proteomics - Clinical Applications, 2007, 1, 362-372.	0.8	36
33	Role of nerveâ€“muscle interactions and reactive oxygen species in regulation of muscle proteostasis with ageing. Journal of Physiology, 2017, 595, 6409-6415.	1.3	36
34	Skeletal muscles of aged male mice fail to adapt following contractile activity. Biochemical Society Transactions, 2003, 31, 455-456.	1.6	31
35	Ageing in relation to skeletal muscle dysfunction: redox homoeostasis to regulation of gene expression. Mammalian Genome, 2016, 27, 341-357.	1.0	29
36	Neuronâ€specific deletion of CuZnSOD leads to an advanced sarcopenic phenotype in older mice. Aging Cell, 2020, 19, e13225.	3.0	29

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37	Redox responses in skeletal muscle following denervation. Redox Biology, 2019, 26, 101294.	3.9	26
38	HSF expression in skeletal muscle during myogenesis: Implications for failed regeneration in old mice. Experimental Gerontology, 2006, 41, 497-500.	1.2	24
39	Ageing-induced changes in the redox status of peripheral motor nerves imply an effect on redox signalling rather than oxidative damage. Free Radical Biology and Medicine, 2016, 94, 27-35.	1.3	23
40	The effect of lengthening contractions on neuromuscular junction structure in adult and old mice. Age, 2016, 38, 259-272.	3.0	21
41	Low steady-state oxidative stress inhibits adipogenesis by altering mitochondrial dynamics and decreasing cellular respiration. Redox Biology, 2020, 32, 101507.	3.9	17
42	Redox and epigenetic regulation of the APE1 gene in the hippocampus of piglets: The effect of early life exposures. DNA Repair, 2014, 18, 52-62.	1.3	15
43	Manipulation of environmental oxygen modifies reactive oxygen and nitrogen species generation during myogenesis. Redox Biology, 2016, 8, 243-251.	3.9	13
44	HyPer2 imaging reveals temporal and heterogeneous hydrogen peroxide changes in denervated and aged skeletal muscle fibers in vivo. Scientific Reports, 2019, 9, 14461.	1.6	10
45	Low protein intake during reproduction compromises the recovery of lactationâ€induced bone loss in female mouse dams without affecting skeletal muscles. FASEB Journal, 2020, 34, 11844-11859.	0.2	7
46	Skeletal muscle transcriptomics identifies common pathways in nerve crush injury and ageing. Skeletal Muscle, 2022, 12, 3.	1.9	5
47	Small-RNA Sequencing Reveals Altered Skeletal Muscle microRNAs and snoRNAs Signatures in Weanling Male Offspring from Mouse Dams Fed a Low Protein Diet during Lactation. Cells, 2021, 10, 1166.	1.8	4
48	Oxidative stress in skeletal muscle: Unraveling the potential beneficial and deleterious roles of reactive oxygen species. , 2020, , 713-733.		3
49	Editorial: Dysregulated Protein Homeostasis in the Aging Organism. Frontiers in Molecular Biosciences, 2021, 8, 788118.	1.6	1
50	HSP Production in Skeletal Muscle of Young and Old Rats following Exercise. Clinical Science, 2000, 99, 22P-22P.	0.0	0
51	Accelerated age-related loss of muscle mass in homozygotic SOD1 knockout mice is not associated with neuronal oxidative damage. Free Radical Biology and Medicine, 2013, 65, S48.	1.3	0
52	Ageing and the Musculoskeletal System * I75. Musculoskeletal Ageing: From Epidemiology to Clinical Trials. Rheumatology, 2013, 52, i18-i25.	0.9	0
53	Skeletal Muscle Aging. , 2003, , 73-99.		0
54	In vivo studies of motor nerve reâ€growth following skeletal muscle damage by lengthening contractions. FASEB Journal, 2012, 26, 1141.4.	0.2	0

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55	Adaptive cytoprotective responses of motor neuron cells to reactive oxygen species generation by muscle cells, in coâ€culture. FASEB Journal, 2013, 27, 919.2.	0.2	0
56	NFâ€ÎºB activation in hindlimb muscles from adult and old mice at rest and following contractile activity (LB814). FASEB Journal, 2014, 28, LB814.	0.2	0
57	Neuronâ€specific expression of CuZnSOD prevents the loss of muscle mass and function that occurs in homozygous CuZnSOD knockout mice (1153.3). FASEB Journal, 2014, 28, 1153.3.	0.2	0
58	Do senescent cells drive the ageing phenotype of skeletal muscle in vivo?. FASEB Journal, 2018, 32, 907.3.	0.2	0
59	CHARACTERISATION OF NFâ€KB ACTIVATION IN REGENERATING FIBRES OF OLD MICE. FASEB Journal, 2018, 32, 907.5.	0.2	0
60	Aquaporin transport of hydrogen peroxide in skeletal muscle. FASEB Journal, 2019, 33, lb644.	0.2	0
61	Genomic Profiling and Physiological Approaches to Understand Aquaporins and their Role in ROS Signalling within Skeletal Muscle. FASEB Journal, 2020, 34, 1-1.	0.2	0