Holly Van Remmen

List of Publications by Year
in descending order

79 papers	5,922 citations	117619 34 h-index	76898 74 g-index
81 all docs	81 docs citations	81 times ranked	7384 citing authors

#	Article	IF	Citations
1	Pharmacologic treatment with OKN-007 reduces alpha-motor neuron loss in spinal cord of aging mice. GeroScience, 2022, 44, 67-81.	4.6	2
2	Scavenging mitochondrial hydrogen peroxide by peroxiredoxin 3 overexpression attenuates contractile dysfunction and muscle atrophy in a murine model of accelerated sarcopenia. Aging Cell, 2022, 21, e13569.	6.7	22
3	Age Related Changes in Muscle Mass and Force Generation in the Triple Transgenic (3xTgAD) Mouse Model of Alzheimerâ€™s Disease. Frontiers in Aging Neuroscience, 2022, 14, 876816.	3.4	6
4	A Novel Stable Isotope Approach Demonstrates Surprising Degree of Age-Related Decline in Skeletal Muscle Collagen Proteostasis. Function, 2021, 2, zqab028.	2.3	30
5	Sirt5 Deficiency Causes Posttranslational Protein Malonylation and Dysregulated Cellular Metabolism in Chondrocytes Under Obesity Conditions. Cartilage, 2021, 13, 1185S-1199S.	2.7	16
6	Transgenic expression of SOD1 specifically in neurons of Sod1 deficient mice prevents defects in muscle mitochondrial function and calcium handling. Free Radical Biology and Medicine, 2021, 165, 299-311.	2.9	12
7	SOD1 regulates ribosome biogenesis in KRAS mutant non-small cell lung cancer. Nature Communications, 2021, 12, 2259.	12.8	38
8	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
9	Determining the contributions of protein synthesis and breakdown to muscle atrophy requires nonâ€steadyâ€state equations. Journal of Cachexia, Sarcopenia and Muscle, 2021, 12, 1764-1775.	7.3	15
10	Muscle mitochondrial catalase expression prevents neuromuscular junction disruption, atrophy, and weakness in a mouse model of accelerated sarcopenia. Journal of Cachexia, Sarcopenia and Muscle, 2021, 12, 1582-1596.	7.3	30
11	Restoration of Sarcoplasmic Reticulum Ca2+ ATPase (SERCA) Activity Prevents Age-Related Muscle Atrophy and Weakness in Mice. International Journal of Molecular Sciences, 2021, 22, 37.	4.1	32
12	Deletion of Neuronal CuZnSOD Accelerates Age-Associated Muscle Mitochondria and Calcium Handling Dysfunction That Is Independent of Denervation and Precedes Sarcopenia. International Journal of Molecular Sciences, 2021, 22, 10735.	4.1	11
13	Oklahoma Nathan Shock Aging Center â€" assessing the basic biology of aging from genetics to protein and function. GeroScience, 2021, 43, 2183-2203.	4.6	2
14	Reduced adenosine diphosphate sensitivity in skeletal muscle mitochondria increases reactive oxygen species production in mouse models of aging and oxidative stress but not denervation. JCSM Rapid Communications, 2021, 4, 75-89.	1.6	9
15	The SarcoEndoplasmic Reticulum Calcium ATPase (SERCA) pump: a potential target for intervention in aging and skeletal muscle pathologies. Skeletal Muscle, 2021, 11, 25.	4.2	35
16	Disparate Central and Peripheral Effects of Circulating IGF-1 Deficiency on Tissue Mitochondrial Function. Molecular Neurobiology, 2020, 57, 1317-1331.	4.0	24
17	Neuronâ€specific deletion of CuZnSOD leads to an advanced sarcopenic phenotype in older mice. Aging Cell, 2020, 19, e13225.	6.7	29
18	Cancer cachexia in a mouse model of oxidative stress. Journal of Cachexia, Sarcopenia and Muscle, 2020, 11, 1688-1704.	7.3	31

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19	Targeting cPLA2 derived lipid hydroperoxides as a potential intervention for sarcopenia. Scientific Reports, 2020, 10, 13968.	3.3	24
20	Molecular changes in transcription and metabolic pathways underlying muscle atrophy in the CuZnSOD null mouse model of sarcopenia. GeroScience, 2020, 42, 1101-1118.	4.6	22
21	Superoxide-mediated oxidative stress accelerates skeletal muscle atrophy by synchronous activation of proteolytic systems. GeroScience, 2020, 42, 1579-1591.	4.6	24
22	Molecular changes associated with spinal cord aging. GeroScience, 2020, 42, 765-784.	4.6	25
23	Thioredoxin overexpression in mitochondria showed minimum effects on aging and age-related diseases in male C57BL/6 mice.. Aging Pathobiology and Therapeutics, 2020, 2, 20-31.	0.5	30
24	Accelerated sarcopenia in Cu/Zn superoxide dismutase knockout mice. Free Radical Biology and Medicine, 2019, 132, 19-23.	2.9	51
25	Using MRI to measure in vivo free radical production and perfusion dynamics in a mouse model of elevated oxidative stress and neurogenic atrophy. Redox Biology, 2019, 26, 101308.	9.0	10
26	Mitochondrial oxidative stress impairs contractile function but paradoxically increases muscle mass via fibre branching. Journal of Cachexia, Sarcopenia and Muscle, 2019, 10, 411-428.	7.3	50
27	Metabolic and Stress Response Changes Precede Disease Onset in the Spinal Cord of Mutant SOD1 ALS Mice. Frontiers in Neuroscience, 2019, 13, 487.	2.8	46
28	Restoration of SERCA ATPase prevents oxidative stress-related muscle atrophy and weakness. Redox Biology, 2019, 20, 68-74.	9.0	66
29	The Role of Mitochondrial Peroxide Release in the Mechanisms Underlying Ageâ€Related Sarcopenia. FASEB Journal, 2019, 33, 342.3.	0.5	2
30	CuZnSOD expressed specifically in neurons rescues mitochondrial function and calcium handling in muscles of Sod1KO mice. FASEB Journal, 2019, 33, 539.8.	0.5	0
31	Mitochondrial Oxidative Metabolism and Dopamine Neurodegeneration in the Mesolimbic Pathway after Prolonged Methamphetamine Selfâ€Administration in Mice. FASEB Journal, 2019, 33, 805.17.	0.5	0
32	Nrf2 deficiency exacerbates age-related contractile dysfunction and loss of skeletal muscle mass. Redox Biology, 2018, 17, 47-58.	9.0	67
33	Insulin-like growth factor receptor signaling regulates working memory, mitochondrial metabolism, and amyloid-Î² uptake in astrocytes. Molecular Metabolism, 2018, 9, 141-155.	6.5	119
34	G protein-coupled estrogen receptor (GPER) deficiency induces cardiac remodeling through oxidative stress. Translational Research, 2018, 199, 39-51.	5.0	41
35	Lifelong reduction in complex IV induces tissueâ€specific metabolic effects but does not reduce lifespan or healthspan in mice. Aging Cell, 2018, 17, e12769.	6.7	14
36	Continuous overexpression of thioredoxin 1 enhances cancer development and does not extend maximum lifespan in male C57BL/6 mice. Pathobiology of Aging & Age Related Diseases, 2018, 8, 1533754.	1.1	15

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37	Protein imbalance in the development of skeletal muscle wasting in tumourâ€bearing mice. Journal of Cachexia, Sarcopenia and Muscle, 2018, 9, 987-1002.	7.3	81
38	Oxidative stressâ€induced dysregulation of excitationâ€“contraction coupling contributes to muscle weakness. Journal of Cachexia, Sarcopenia and Muscle, 2018, 9, 1003-1017.	7.3	75
39	Role of Signaling Molecules in Mitochondrial Stress Response. Frontiers in Genetics, 2018, 9, 225.	2.3	22
40	Restoration of SERCA ATPase as an Intervention to Muscle Impairment Associated with Oxidative Stress. FASEB Journal, 2018, 32, 618.15.	0.5	0
41	Muscle specific MnSOD deficiency leads to complex Iâ€specific inactivity of ETC and contractile dysfunction, but increases muscle mass. FASEB Journal, 2018, 32, 618.16.	0.5	0
42	Sco2 deficient mice develop increased adiposity and insulin resistance. Molecular and Cellular Endocrinology, 2017, 455, 103-114.	3.2	11
43	A new mouse model of frailty: the Cu/Zn superoxide dismutase knockout mouse. GeroScience, 2017, 39, 187-198.	4.6	79
44	Role of nerveâ€“muscle interactions and reactive oxygen species in regulation of muscle proteostasis with ageing. Journal of Physiology, 2017, 595, 6409-6415.	2.9	36
45	A new role for oxidative stress in aging: The accelerated aging phenotype in Sod1â^' mice is correlated to increased cellular senescence. Redox Biology, 2017, 11, 30-37.	9.0	138
46	A metabolic switch controls intestinal differentiation downstream of Adenomatous polyposis coli (APC). ELife, 2017, 6, .	6.0	23
47	Muscle fiber type diversification during exercise and regeneration. Free Radical Biology and Medicine, 2016, 98, 56-67.	2.9	134
48	Liver specific expression of Cu/ZnSOD extends the lifespan of Sod1 null mice. Mechanisms of Ageing and Development, 2016, 154, 1-8.	4.6	18
49	Moderate modulation of disease in the G93A model of ALS by the compound 2-(2-hydroxyphenyl)-benzoxazole (HBX). Neuroscience Letters, 2016, 624, 1-7.	2.1	8
50	Enhanced GLUT4-Dependent Glucose Transport Relieves Nutrient Stress in Obese Mice Through Changes in Lipid and Amino Acid Metabolism. Diabetes, 2016, 65, 3585-3597.	0.6	24
51	Loss of the antioxidant enzyme CuZnSOD (Sod1) mimics an age-related increase in absolute mitochondrial DNA copy number in the skeletal muscle. Age, 2016, 38, 323-333.	3.0	24
52	Emerging roles for histone deacetylases in age-related muscle atrophy. Nutrition and Healthy Aging, 2016, 4, 17-30.	1.1	31
53	Ablation of the mitochondrial complex IV assembly protein Surf1 leads to increased expression of the UPRMT and increased resistance to oxidative stress in primary cultures of fibroblasts. Redox Biology, 2016, 8, 430-438.	9.0	27
54	Down-regulation of the mitochondrial matrix peptidase ClpP in muscle cells causes mitochondrial dysfunction and decreases cell proliferation. Free Radical Biology and Medicine, 2016, 91, 281-292.	2.9	68

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55	The histone deacetylase inhibitor butyrate improves metabolism and reduces muscle atrophy during aging. Aging Cell, 2015, 14, 957-970.	6.7	216
56	Butyrate prevents muscle atrophy after sciatic nerve crush. Muscle and Nerve, 2015, 52, 859-868.	2.2	13
57	Sod1 gene ablation in adult mice leads to physiological changes at the neuromuscular junction similar to changes that occur in old wild-type mice. Free Radical Biology and Medicine, 2015, 84, 254-262.	2.9	27
58	Neuron specific reduction in CuZnSOD is not sufficient to initiate a full sarcopenia phenotype. Redox Biology, 2015, 5, 140-148.	9.0	61
59	Use of Nerve Conduction Velocity to Assess Peripheral Nerve Health in Aging Mice. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2015, 70, 1312-1319.	3.6	36
60	MnSOD Overexpression Reduces Fibrosis and Pro-Apoptotic Signaling in the Aging Mouse Heart. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2015, 70, 533-544.	3.6	43
61	Skeletal muscle mitochondrial DNA deletions are not increased in CuZn-superoxide dismutase deficient mice. Experimental Gerontology, 2015, 61, 15-19.	2.8	18
62	Mitochondrial stress signaling in longevity: A new role for mitochondrial function in aging. Redox Biology, 2014, 2, 936-944.	9.0	115
63	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.	0.5	75
64	Microwave and magnetic (M2) proteomics of a mouse model of mild traumatic brain injury. Translational Proteomics, 2014, 3, 10-21.	1.2	19
65	The Lack of CuZnSOD Leads to Impaired Neurotransmitter Release, Neuromuscular Junction Destabilization and Reduced Muscle Strength in Mice. PLoS ONE, 2014, 9, e100834.	2.5	43
66	CuZnSOD gene deletion targeted to skeletal muscle leads to loss of contractile force but does not cause muscle atrophy in adult mice. FASEB Journal, 2013, 27, 3536-3548.	0.5	57
67	Dietary restriction attenuates ageâ€associated muscle atrophy by lowering oxidative stress in mice even in complete absence of CuZnSOD. Aging Cell, 2012, 11, 770-782.	6.7	82
68	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.	6.7	57
69	Age-associated alterations of the neuromuscular junction. Experimental Gerontology, 2011, 46, 193-198.	2.8	189
70	Skeletal muscle weakness due to deficiency of CuZn-superoxide dismutase is associated with loss of functional innervation. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 301, R1400-R1407.	1.8	70
71	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.	6.7	48
72	Increased superoxide in vivo accelerates ageâ€associated muscle atrophy through mitochondrial dysfunction and neuromuscular junction degeneration. FASEB Journal, 2010, 24, 1376-1390.	0.5	250

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73	Reduction of mitochondrial H₂O₂ by overexpressing peroxiredoxin 3 improves glucose tolerance in mice. Aging Cell, 2008, 7, 866-878.	6.7	129
74	High rates of superoxide production in skeletal-muscle mitochondria respiring on both complex I- and complex II-linked substrates. Biochemical Journal, 2008, 409, 491-499.	3.7	138
75	Denervation-induced skeletal muscle atrophy is associated with increased mitochondrial ROS production. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 293, R1159-R1168.	1.8	285
76	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.	1.6	36
77	Absence of CuZn superoxide dismutase leads to elevated oxidative stress and acceleration of age-dependent skeletal muscle atrophy. Free Radical Biology and Medicine, 2006, 40, 1993-2004.	2.9	378
78	Alterations in mitochondrial function, hydrogen peroxide release and oxidative damage in mouse hind-limb skeletal muscle during aging. Mechanisms of Ageing and Development, 2006, 127, 298-306.	4.6	203
79	Extension of Murine Life Span by Overexpression of Catalase Targeted to Mitochondria. Science, 2005, 308, 1909-1911.	12.6	1,576