

Bumsoo Ahn

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.

34 papers	729 citations	16 h-index	26 g-index
35 ext. papers	922 ext. citations	5.4 avg, IF	3.98 L-index

#	Paper	IF	Citations
34	Scavenging mitochondrial hydrogen peroxide by peroxiredoxin 3 overexpression attenuates contractile dysfunction and muscle atrophy in a murine model of accelerated sarcopenia.. <i>Aging Cell</i> , 2022 , e13569	9.9	4
33	Comparative Efficacy of Angiotensin II Type 1 Receptor Blockers Against Ventilator-Induced Diaphragm Dysfunction in Rats. <i>Clinical and Translational Science</i> , 2021 , 14, 481-486	4.9	1
32	Myocardial Hypertrophy and Compensatory Increase in Systolic Function in a Mouse Model of Oxidative Stress. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
31	Transgenic expression of SOD1 specifically in neurons of Sod1 deficient mice prevents defects in muscle mitochondrial function and calcium handling. <i>Free Radical Biology and Medicine</i> , 2021 , 165, 299-311	7.8	6
30	Restoration of Sarcoplasmic Reticulum Ca ATPase (SERCA) Activity Prevents Age-Related Muscle Atrophy and Weakness in Mice. <i>International Journal of Molecular Sciences</i> , 2020 , 22,	6.3	10
29	Neuron-specific deletion of CuZnSOD leads to an advanced sarcopenic phenotype in older mice. <i>Aging Cell</i> , 2020 , 19, e13225	9.9	11
28	Cancer cachexia in a mouse model of oxidative stress. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2020 , 11, 1688-1704	10.3	10
27	Using MRI to measure in vivo free radical production and perfusion dynamics in a mouse model of elevated oxidative stress and neurogenic atrophy. <i>Redox Biology</i> , 2019 , 26, 101308	11.3	7
26	Mitochondrial oxidative stress impairs contractile function but paradoxically increases muscle mass via fibre branching. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2019 , 10, 411-428	10.3	32
25	Neuroprotective effects of PPAR γ in retinopathy of type 1 diabetes. <i>PLoS ONE</i> , 2019 , 14, e0208399	3.7	24
24	Metabolic and Stress Response Changes Precede Disease Onset in the Spinal Cord of Mutant SOD1 ALS Mice. <i>Frontiers in Neuroscience</i> , 2019 , 13, 487	5.1	22
23	Effects of exercise preconditioning and HSP72 on diaphragm muscle function during mechanical ventilation. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2019 , 10, 767-781	10.3	19
22	Mitochondrial Oxidative Metabolism and Dopamine Neurodegeneration in the Mesolimbic Pathway after Prolonged Methamphetamine Self-Administration in Mice. <i>FASEB Journal</i> , 2019 , 33, 805.17	0.9	
21	The Role of Mitochondrial Peroxide Release in the Mechanisms Underlying Age-Related Sarcopenia. <i>FASEB Journal</i> , 2019 , 33, 342.3	0.9	1
20	Small-hairpin RNA and pharmacological targeting of neutral sphingomyelinase prevent diaphragm weakness in rats with heart failure and reduced ejection fraction. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2019 , 316, L679-L690	5.8	8
19	Increased SOD2 in the diaphragm contributes to exercise-induced protection against ventilator-induced diaphragm dysfunction. <i>Redox Biology</i> , 2019 , 20, 402-413	11.3	21
18	Nrf2 deficiency exacerbates age-related contractile dysfunction and loss of skeletal muscle mass. <i>Redox Biology</i> , 2018 , 17, 47-58	11.3	38

17	Oxidative stress-induced dysregulation of excitation-contraction coupling contributes to muscle weakness. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2018 , 9, 1003-1017	10.3	45
16	Muscle specific MnSOD deficiency leads to complex II-specific inactivity of ETC and contractile dysfunction, but increases muscle mass. <i>FASEB Journal</i> , 2018 , 32, 618.16	0.9	
15	Exercise Training as a Therapeutic Potential for Respiratory Muscle Weakness in Patients with Amyotrophic Lateral Sclerosis 2018 , 27, 89-95		
14	Global Proteome Changes in the Rat Diaphragm Induced by Endurance Exercise Training. <i>PLoS ONE</i> , 2017 , 12, e0171007	3.7	23
13	Redox control of skeletal muscle atrophy. <i>Free Radical Biology and Medicine</i> , 2016 , 98, 208-217	7.8	112
12	Diaphragm Abnormalities in Patients with End-Stage Heart Failure: NADPH Oxidase Upregulation and Protein Oxidation. <i>Frontiers in Physiology</i> , 2016 , 7, 686	4.6	5
11	Pharmacological targeting of mitochondrial reactive oxygen species counteracts diaphragm weakness in chronic heart failure. <i>Journal of Applied Physiology</i> , 2016 , 120, 733-42	3.7	26
10	Diaphragm dysfunction caused by sphingomyelinase requires the p47(phox) subunit of NADPH oxidase. <i>Respiratory Physiology and Neurobiology</i> , 2015 , 205, 47-52	2.8	14
9	NAD(P)H oxidase subunit p47phox is elevated, and p47phox knockout prevents diaphragm contractile dysfunction in heart failure. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015 , 309, L497-505	5.8	25
8	Phrenic nerve stimulation increases human diaphragm fiber force after cardiothoracic surgery. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014 , 190, 837-9	10.2	32
7	Cancer cachexia decreases specific force and accelerates fatigue in limb muscle. <i>Biochemical and Biophysical Research Communications</i> , 2013 , 435, 488-92	3.4	57
6	Diaphragm and ventilatory dysfunction during cancer cachexia. <i>FASEB Journal</i> , 2013 , 27, 2600-10	0.9	70
5	Scaling of VO2max and its relationship with insulin resistance in children. <i>Pediatric Exercise Science</i> , 2013 , 25, 43-51	2	8
4	Loss of the inducible Hsp70 delays the inflammatory response to skeletal muscle injury and severely impairs muscle regeneration. <i>PLoS ONE</i> , 2013 , 8, e62687	3.7	76
3	Diaphragm atrophy and contractile dysfunction in a murine model of pulmonary hypertension. <i>PLoS ONE</i> , 2013 , 8, e62702	3.7	20
2	Effect of chronic heart failure on mitochondrial function and apoptotic susceptibility in rat skeletal muscle. <i>FASEB Journal</i> , 2013 , 27, 1209.19	0.9	
1	Cachexia and loss of skeletal muscle mass in a murine model of pulmonary hypertension. <i>FASEB Journal</i> , 2012 , 26, 1144.5	0.9	