

# Hyo-Bum Kwak

## List of Publications by Year in descending order

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Version: 2024-02-01

78  
papers

2,271  
citations

236612

25  
h-index

233125

45  
g-index

79  
all docs

79  
docs citations

79  
times ranked

3636  
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of exercise in age-related sarcopenia. <i>Journal of Exercise Rehabilitation</i> , 2018, 14, 551-558.	0.4	153
2	Ursolic acid in health and disease. <i>Korean Journal of Physiology and Pharmacology</i> , 2018, 22, 235.	0.6	139
3	Exercise training attenuates age-induced elevation in Bax/Bcl-2 ratio, apoptosis, and remodeling in the rat heart. <i>FASEB Journal</i> , 2006, 20, 791-793.	0.2	138
4	Exercise Training Attenuates Age-Induced Changes in Apoptotic Signaling in Rat Skeletal Muscle. <i>Antioxidants and Redox Signaling</i> , 2006, 8, 517-528.	2.5	134
5	Simvastatin impairs ADP-stimulated respiration and increases mitochondrial oxidative stress in primary human skeletal myotubes. <i>Free Radical Biology and Medicine</i> , 2012, 52, 198-207.	1.3	104
6	Roles of myokines in exercise-induced improvement of neuropsychiatric function. <i>Pflugers Archiv European Journal of Physiology</i> , 2019, 471, 491-505.	1.3	95
7	Aging, exercise, and extracellular matrix in the heart. <i>Journal of Exercise Rehabilitation</i> , 2013, 9, 338-347.	0.4	91
8	Exercise training reduces fibrosis and matrix metalloproteinase dysregulation in the aging rat heart. <i>FASEB Journal</i> , 2011, 25, 1106-1117.	0.2	90
9	Physical exercise prevents cognitive impairment by enhancing hippocampal neuroplasticity and mitochondrial function in doxorubicin-induced chemobrain. <i>Neuropharmacology</i> , 2018, 133, 451-461.	2.0	86
10	Role of adiponectin in metabolic and cardiovascular disease. <i>Journal of Exercise Rehabilitation</i> , 2014, 10, 54-59.	0.4	80
11	Effects of aging and exercise training on apoptosis in the heart. <i>Journal of Exercise Rehabilitation</i> , 2013, 9, 212-219.	0.4	75
12	Experimental Models of Sarcopenia: Bridging Molecular Mechanism and Therapeutic Strategy. <i>Cells</i> , 2020, 9, 1385.	1.8	70
13	Effects of exercise on obesity-induced mitochondrial dysfunction in skeletal muscle. <i>Korean Journal of Physiology and Pharmacology</i> , 2017, 21, 567.	0.6	58
14	Exercise Training Modulates the Nitric Oxide Synthase Profile in Skeletal Muscle From Old Rats. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2009, 64A, 540-549.	1.7	48
15	Exercise and Neuroinflammation in Health and Disease. <i>International Neurourology Journal</i> , 2019, 23, S82-92.	0.5	48
16	MnSOD Overexpression Reduces Fibrosis and Pro-Apoptotic Signaling in the Aging Mouse Heart. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015, 70, 533-544.	1.7	43
17	Aerobic Exercise Training Decreases Hepatic Asprosin in Diabetic Rats. <i>Journal of Clinical Medicine</i> , 2019, 8, 666.	1.0	40
18	Roles of Exosome-Like Vesicles Released from Inflammatory C2C12 Myotubes: Regulation of Myocyte Differentiation and Myokine Expression. <i>Cellular Physiology and Biochemistry</i> , 2018, 48, 1829-1842.	1.1	37

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19	Effects of aging and exercise training on mitochondrial function and apoptosis in the rat heart. Pflugers Archiv European Journal of Physiology, 2020, 472, 179-193.	1.3	37
20	Effects of aged garlic extract and endurance exercise on skeletal muscle FNDC-5 and circulating irisin in high-fat-diet rat models. Nutrition Research and Practice, 2014, 8, 177.	0.7	35
21	Effects of environmental temperature on physiological responses during submaximal and maximal exercises in soccer players. Integrative Medicine Research, 2016, 5, 216-222.	0.7	35
22	Enrichment of Exosome-Like Extracellular Vesicles from Plasma Suitable for Clinical Vesicular miRNA Biomarker Research. Journal of Clinical Medicine, 2019, 8, 1995.	1.0	32
23	Progesterone increases skeletal muscle mitochondrial H <sub>2</sub> O <sub>2</sub> emission in nonmenopausal women. American Journal of Physiology - Endocrinology and Metabolism, 2011, 300, E528-E535.	1.8	29
24	Exercise as a Therapeutic Strategy for Sarcopenia in Heart Failure: Insights into Underlying Mechanisms. Cells, 2020, 9, 2284.	1.8	29
25	Effects of Acute Exercise on Mitochondrial Function, Dynamics, and Mitophagy in Rat Cardiac and Skeletal Muscles. International Neurourology Journal, 2019, 23, S22-31.	0.5	29
26	Effects of interventions on adiponectin and adiponectin receptors. Journal of Exercise Rehabilitation, 2014, 10, 60-68.	0.4	27
27	Cardiac adaptation to exercise training in health and disease. Pflugers Archiv European Journal of Physiology, 2020, 472, 155-168.	1.3	26
28	Exercise Training Attenuates Obesity-Induced Skeletal Muscle Remodeling and Mitochondria-Mediated Apoptosis in the Skeletal Muscle. International Journal of Environmental Research and Public Health, 2018, 15, 2301.	1.2	25
29	Re-Setting the Circadian Clock Using Exercise against Sarcopenia. International Journal of Molecular Sciences, 2020, 21, 3106.	1.8	25
30	Relationships between Socioeconomic Status, Handgrip Strength, and Non-Alcoholic Fatty Liver Disease in Middle-Aged Adults. International Journal of Environmental Research and Public Health, 2021, 18, 1892.	1.2	23
31	The immune modulatory effects of mitochondrial transplantation on cecal slurry model in rat. Critical Care, 2021, 25, 20.	2.5	21
32	Exercise training attenuates age-dependent elevation of angiotensin II type 1 receptor and Nox2 signaling in the rat heart. Experimental Gerontology, 2015, 70, 163-173.	1.2	19
33	Treadmill Exercise Ameliorates Chemotherapy-Induced Muscle Weakness and Central Fatigue by Enhancing Mitochondrial Function and Inhibiting Apoptosis. International Neurourology Journal, 2019, 23, S32-39.	0.5	19
34	Development of Alzheimer's Disease Biomarkers: From CSF- to Blood-Based Biomarkers. Biomedicines, 2022, 10, 850.	1.4	19
35	Exercise and obesity-induced insulin resistance in skeletal muscle. Integrative Medicine Research, 2013, 2, 131-138.	0.7	18
36	Exercise as A Potential Therapeutic Target for Diabetic Cardiomyopathy: Insight into the Underlying Mechanisms. International Journal of Molecular Sciences, 2019, 20, 6284.	1.8	18

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37	Exercise training causes a partial improvement through increasing testosterone and eNOS for erectile function in middle-aged rats. <i>Experimental Gerontology</i> , 2018, 108, 131-138.	1.2	17
38	High Incomplete Skeletal Muscle Fatty Acid Oxidation Explains Low Muscle Insulin Sensitivity in Poorly Controlled T2D. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018, 103, 882-889.	1.8	17
39	Hepatokines as a Molecular Transducer of Exercise. <i>Journal of Clinical Medicine</i> , 2021, 10, 385.	1.0	17
40	Moderate aerobic exercise training ameliorates impairment of mitochondrial function and dynamics in skeletal muscle of high-fat diet-induced obese mice. <i>FASEB Journal</i> , 2021, 35, e21340.	0.2	16
41	Treadmill Exercise Improves Memory Function Depending on Circadian Rhythm Changes in Mice. <i>International Neurourology Journal</i> , 2016, 20, S141-149.	0.5	14
42	Aerobic exercise training decreases cereblon and increases AMPK signaling in the skeletal muscle of STZ-induced diabetic rats. <i>Biochemical and Biophysical Research Communications</i> , 2018, 501, 448-453.	1.0	14
43	Overexpression of Long-Chain Acyl-CoA Synthetase 5 Increases Fatty Acid Oxidation and Free Radical Formation While Attenuating Insulin Signaling in Primary Human Skeletal Myotubes. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 1157.	1.2	14
44	Extracellular Vesicles as a Source of Urological Biomarkers: Lessons Learned From Advances and Challenges in Clinical Applications to Major Diseases. <i>International Neurourology Journal</i> , 2017, 21, 83-96.	0.5	14
45	The Effects of Anterior Cruciate Ligament Reconstruction on Individual Quadriceps Muscle Thickness and Circulating Biomarkers. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 4895.	1.2	13
46	Aging Promotes Mitochondria-Mediated Apoptosis in Rat Hearts. <i>Life</i> , 2020, 10, 178.	1.1	13
47	Exercise-Induced Circulating Irisin Level Is Correlated with Improved Cardiac Function in Rats. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 3863.	1.2	13
48	Effects of a single bout of exercise on mitochondria-mediated apoptotic signaling in rat cardiac and skeletal muscles. <i>Journal of Exercise Rehabilitation</i> , 2019, 15, 512-517.	0.4	13
49	Statin-induced Myopathy in Skeletal Muscle: the Role of Exercise. <i>Journal of Lifestyle Medicine</i> , 2014, 4, 71-79.	0.3	13
50	Ursolic acid supplementation decreases markers of skeletal muscle damage during resistance training in resistance-trained men: a pilot study. <i>Korean Journal of Physiology and Pharmacology</i> , 2017, 21, 651.	0.6	11
51	Lifelong wheel running exercise and mild caloric restriction attenuate nuclear EndoG in the aging plantaris muscle. <i>Experimental Gerontology</i> , 2015, 69, 122-128.	1.2	10
52	Voluntary stand-up physical activity enhances endurance exercise capacity in rats. <i>Korean Journal of Physiology and Pharmacology</i> , 2016, 20, 287.	0.6	9
53	Effects of aging on mitochondrial hydrogen peroxide emission and calcium retention capacity in rat heart. <i>Journal of Exercise Rehabilitation</i> , 2018, 14, 920-926.	0.4	9
54	Role of exercise in estrogen deficiency-induced sarcopenia. <i>Journal of Exercise Rehabilitation</i> , 2022, 18, 2-9.	0.4	9

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55	Circadian modulation of the cardiac proteome underpins differential adaptation to morning and evening exercise training: an LC-MS/MS analysis. <i>Pflugers Archiv European Journal of Physiology</i> , 2020, 472, 259-269.	1.3	7
56	Exercise Training Attenuates Ovariectomy-Induced Alterations in Skeletal Muscle Remodeling, Apoptotic Signaling, and Atrophy Signaling in Rat Skeletal Muscle. <i>International Neurourology Journal</i> , 2021, 25, S47-54.	0.5	6
57	Exercise Training Protects against Atorvastatin-Induced Skeletal Muscle Dysfunction and Mitochondrial Dysfunction in the Skeletal Muscle of Rats. <i>Journal of Clinical Medicine</i> , 2020, 9, 2292.	1.0	4
58	Effects of cisplatin on mitochondrial function and autophagy-related proteins in skeletal muscle of rats. <i>BMB Reports</i> , 2021, 54, 575-580.	1.1	4
59	Effects of nocturnal light exposure on circadian rhythm and energy metabolism in healthy adults: A randomized crossover trial. <i>Chronobiology International</i> , 2022, 39, 602-612.	0.9	4
60	Skeletal Muscle Mitochondria and Insulin Resistance: The Role of Exercise. <i>The Korean Journal of Obesity</i> , 2015, 24, 78-86.	0.2	3
61	New 20 m Progressive Shuttle Test Protocol and Equation for Predicting the Maximal Oxygen Uptake of Korean Adolescents Aged 13-18 Years. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 2265.	1.2	2
62	Effects of aged garlic extract and endurance exercise on skeletal muscle FNDC-5 and circulating irisin in high-fat-diet rat models. <i>Nutrition Research and Practice</i> , 2014, 8, 177.	0.7	2
63	Circulating micro-RNAs Differentially Expressed in Korean Alzheimer's Patients With Brain A $\beta$ 2 Accumulation Activate Amyloidogenesis. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2023, 78, 292-303.	1.7	2
64	Personalized Healthcare for Dementia. <i>Healthcare (Switzerland)</i> , 2021, 9, 128.	1.0	1
65	Low-intensity treadmill exercise protects cognitive impairment by enhancing cerebellar mitochondrial calcium retention capacity in a rat model of chronic cerebral hypoperfusion. <i>Journal of Exercise Rehabilitation</i> , 2021, 17, 324-330.	0.4	1
66	Overexpression of MnSOD reduces oxidative stress and pro-apoptotic signaling in the aging mouse heart. <i>FASEB Journal</i> , 2006, 20, A1451.	0.2	1
67	Responses of cleaved caspase-8 and $\gamma$ -H2AX apoptotic pathways to 12 week treadmill exercise in aging rat skeletal muscle. <i>FASEB Journal</i> , 2008, 22, 753.7.	0.2	1
68	NAD(P)H oxidase inhibition upregulates anti-apoptotic Bcl-2 protein expression in the mdx diaphragm. <i>FASEB Journal</i> , 2008, 22, 959.8.	0.2	1
69	Core concept of integrative medicine: physical activity. <i>Integrative Medicine Research</i> , 2016, 5, 169-170.	0.7	0
70	Responses of fas/cytokine-mediated apoptotic pathway to 12 week treadmill exercise in the aging rat heart. <i>FASEB Journal</i> , 2006, 20, A394.	0.2	0
71	Reloading-induced alterations in IGF-1 and HSP70 signaling in the rat soleus following prolonged hindlimb unloading. <i>FASEB Journal</i> , 2007, 21, A950.	0.2	0
72	Hindlimb Unloading Induces a Biphasic Temporal Response of Bcl-2 Apoptotic Signaling in the Rat Soleus Muscle. <i>FASEB Journal</i> , 2008, 22, 1238.20.	0.2	0

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73	Exercise Training Upregulates Mitochondrial Survival Proteins BAX and Thioredoxin in the Aging Rat Heart. FASEB Journal, 2008, 22, 753-8.	0.2	0
74	Exercise Training Reduces Age-Dependent Elevation of Angiotensin II Type 1 receptor and NAD(P)H Oxidase. FASEB Journal, 2011, 25, 1b549.	0.2	0
75	Overexpression of Mn superoxide dismutase attenuates age related up-regulation of TGF- $\beta$ and remodeling in the aging heart. FASEB Journal, 2013, 27, 1194.1.	0.2	0
76	17Beta-estradiol Stimulates Glucose Uptake Through Estrogen Receptor and AMP-activated Protein Kinase Activation in C2C12 Myotubes(Korean J Obes 2016;25:190-6). Journal of Obesity and Metabolic Syndrome, 2017, 26, 76-77.	1.5	0
77	Effects of cisplatin on mitochondrial function and autophagy-related proteins in skeletal muscle of rats. BMB Reports, 2021, 54, 575-580.	1.1	0
78	Roles of high mobility group box 1 protein released from endothelial cells with hypoxic injury on neuronal amyloidogenesis. Alzheimer's and Dementia, 2021, 17, e050060.	0.4	0