Multi-regulatory network of ROS: the interconnection of during exercise

Journal of Physiology and Biochemistry 73, 487-494 DOI: 10.1007/s13105-017-0576-y

Citation Report

#	Article	IF	CITATIONS
1	Combination of nutritional polyphenols supplementation with exercise training counteracts insulin resistance and improves endurance in high-fat diet-induced obese rats. Scientific Reports, 2018, 8, 2885.	1.6	28
2	Physical exercise and glaucoma: a review on the roles of physical exercise on intraocular pressure control, ocular blood flow regulation, neuroprotection and glaucomaâ€related mental health. Acta Ophthalmologica, 2018, 96, e676-e691.	0.6	63
3	Effects of reactive oxygen species and interplay of antioxidants during physical exercise in skeletal muscles. Journal of Physiology and Biochemistry, 2018, 74, 359-367.	1.3	45
4	Schisandrin A prevents oxidative stress-induced DNA damage and apoptosis by attenuating ROS generation in C2C12 cells. Biomedicine and Pharmacotherapy, 2018, 106, 902-909.	2.5	58
5	Dual Role of Reactive Oxygen Species in Muscle Function: Can Antioxidant Dietary Supplements Counteract Age-Related Sarcopenia?. International Journal of Molecular Sciences, 2019, 20, 3815.	1.8	63
6	Effects of physical exercise on oxidative stress biomarkers in hypertensive animals and non-diabetic subjects with prehypertension/hypertension: a review. Sport Sciences for Health, 2019, 15, 481-495.	0.4	3
7	Isorhamnetin Induces Cell Cycle Arrest and Apoptosis Via Reactive Oxygen Species-Mediated AMP-Activated Protein Kinase Signaling Pathway Activation in Human Bladder Cancer Cells. Cancers, 2019, 11, 1494.	1.7	33
8	Enhancement of Hippocampal Plasticity by Physical Exercise as a Polypill for Stress and Depression: A Review. CNS and Neurological Disorders - Drug Targets, 2019, 18, 294-306.	0.8	17
9	Current Progress of Mitochondrial Quality Control Pathways Underlying the Pathogenesis of Parkinson's Disease. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-11.	1.9	27
10	Elevated p70S6K phosphorylation in rat soleus muscle during the early stage of unloading: Causes and consequences. Archives of Biochemistry and Biophysics, 2019, 674, 108105.	1.4	15
11	Neutralization of interleukinâ€9 ameliorates experimental stroke by repairing the blood–brain barrier <i>via</i> downâ€regulation of astrocyteâ€derived vascular endothelial growth factorâ€A. FASEB Journal, 2019, 33, 4376-4387.	0.2	31
12	Strength training and aerobic exercise alter mitochondrial parameters in brown adipose tissue and equally reduce body adiposity in aged rats. Journal of Physiology and Biochemistry, 2019, 75, 101-108.	1.3	21
13	Role of mitochondria in diabetic peripheral neuropathy: Influencing the NAD+-dependent SIRT1–PGC-1α–TFAM pathway. International Review of Neurobiology, 2019, 145, 177-209.	0.9	84
14	Influence of maternal protein malnutrition on oxidative stress and regulators of mitochondrial biogenesis in female rat hearts over succeeding generations. Life Sciences, 2019, 232, 116579.	2.0	5
15	Postinfarction exercise training alleviates cardiac dysfunction and adverse remodeling via mitochondrial biogenesis and SIRT1/PGCâ€1α/PI3K/Akt signaling. Journal of Cellular Physiology, 2019, 234, 23705-23718.	2.0	59
16	Saturated Fatty Acid-Enriched Diet-Impaired Mitochondrial Bioenergetics in Liver From Undernourished Rats During Critical Periods of Development. Cells, 2019, 8, 335.	1.8	8
17	Analysis of the cytotoxic, genotoxic, mutagenic, and pro-oxidant effect of synephrine, a component of thermogenic supplements, in human hepatic cells in vitro. Toxicology, 2019, 422, 25-34.	2.0	12
18	Cardiorespiratory Fitness, Physical Activity, and Metabolic Syndrome. , 2019, , 207-215.		3

#	Article	IF	CITATIONS
19	Mitochondrial Biogenesis and Mitochondrial Reactive Oxygen Species (ROS): A Complex Relationship Regulated by the cAMP/PKA Signaling Pathway. Cells, 2019, 8, 287.	1.8	143
20	Effects of Lespedeza Bicolor Extract on Regulation of AMPK Associated Hepatic Lipid Metabolism in Type 2 Diabetic Mice. Antioxidants, 2019, 8, 599.	2.2	16
21	Physiological and Molecular Adaptations to Strength Training. , 2019, , 51-73.		6
22	Intracerebroventricular injection of resveratrol ameliorated Aβ-induced learning and cognitive decline in mice. Metabolic Brain Disease, 2019, 34, 257-266.	1.4	58
23	Irreversible plasma and muscle protein oxidation and physical exercise. Free Radical Research, 2019, 53, 126-138.	1.5	9
24	Mitochondrial dynamics in exercise physiology. Pflugers Archiv European Journal of Physiology, 2020, 472, 137-153.	1.3	32
25	Mechanisms of statin-associated skeletal muscle-associated symptoms. Pharmacological Research, 2020, 154, 104201.	3.1	77
26	Towards a personalised approach in exercise-based cardiovascular rehabilitation: How can translational research help? A †call to action' from the Section on Secondary Prevention and Cardiac Rehabilitation of the European Association of Preventive Cardiology. European Journal of Preventive Cardiology. 2020, 27, 1369-1385.	0.8	43
27	AçaÃ-(Euterpe oleracea Mart.) seed extract improves aerobic exercise performance in rats. Food Research International, 2020, 136, 109549.	2.9	11
28	Impact of Short-Term Hypoxia on Sirtuins as Regulatory Elements in HUVECs. Journal of Clinical Medicine, 2020, 9, 2604.	1.0	12
29	Redox Signaling in Widespread Health Benefits of Exercise. Antioxidants and Redox Signaling, 2020, 33, 745-760.	2.5	31
30	Exercise, redox homeostasis and the epigenetic landscape. Redox Biology, 2020, 35, 101477.	3.9	40
31	Antioxidant Alternatives in the Treatment of Amyotrophic Lateral Sclerosis: A Comprehensive Review. Frontiers in Physiology, 2020, 11, 63.	1.3	53
32	Profiling of human lymphocytes reveals a specific network of protein kinases modulated by endurance training status. Scientific Reports, 2020, 10, 888.	1.6	15
33	Physical exercise: An inducer of positive oxidative stress in skeletal muscle aging. Life Sciences, 2020, 252, 117630.	2.0	22
34	Moderation of mitochondrial respiration mitigates metabolic syndrome of aging. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9840-9850.	3.3	41
35	The Role of Reactive Oxygen Species in the Life Cycle of the Mitochondrion. International Journal of Molecular Sciences, 2020, 21, 2173.	1.8	66
36	Aging-Related Increase of cGMP Disrupts Mitochondrial Homeostasis in Leydig Cells. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2021, 76, 177-186.	1.7	16

#	Article	IF	CITATIONS
37	High phosphate impairs arterial endothelial function through AMPKâ€related pathways in mouse resistance arteries. Acta Physiologica, 2021, 231, e13595.	1.8	11
38	p-synephrine induces transcriptional changes via the cAMP/PKA pathway but not cytotoxicity or mutagenicity in human gastrointestinal cells. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2021, 84, 196-212.	1.1	2
39	Perampanel Stimulates Mitochondrial Biogenesis in Neuronal Cells through Activation of the SIRT1/PGC-11 [±] Signaling Pathway. ACS Chemical Neuroscience, 2021, 12, 323-329.	1.7	3
40	Sirtuins, mitochondria, and exercise in health and disease. , 2021, , 225-237.		2
41	A combination of herbal compound (SPTC) along with exercise or metformin more efficiently alleviated diabetic complications through down-regulation of stress oxidative pathway upon activating Nrf2-Keap1 axis in AGE rich diet-induced type 2 diabetic mice. Nutrition and Metabolism, 2021, 18, 14.	1.3	19
42	Dysregulation of PGC-1α-Dependent Transcriptional Programs in Neurological and Developmental Disorders: Therapeutic Challenges and Opportunities. Cells, 2021, 10, 352.	1.8	22
43	The Oral Administration of Sanguisorba officinalis Extract Improves Physical Performance through LDHA Modulation. Molecules, 2021, 26, 1579.	1.7	5
44	Nox4 mediates skeletal muscle metabolic responses to exercise. Molecular Metabolism, 2021, 45, 101160.	3.0	14
45	Artemisinin improves neurocognitive deficits associated with sepsis by activating the AMPK axis in microglia. Acta Pharmacologica Sinica, 2021, 42, 1069-1079.	2.8	21
46	Neuroprotection of Chikusetsu saponin V on transient focal cerebral ischemia/reperfusion and the underlying mechanism. Phytomedicine, 2021, 84, 153516.	2.3	6
47	The Molecular Mechanisms of Cardiotoxicity Induced by HER2, VEGF, and Tyrosine Kinase Inhibitors: an Updated Review. Cardiovascular Drugs and Therapy, 2022, 36, 511-524.	1.3	27
48	Highlighting the Protective or Degenerative Role of AMPK Activators in Dementia Experimental Models. CNS and Neurological Disorders - Drug Targets, 2021, 20, 786-801.	0.8	0
49	Activation of AMP-Activated Protein Kinase-Sirtuin 1 Pathway Contributes to Salvianolic Acid A-Induced Browning of White Adipose Tissue in High-Fat Diet Fed Male Mice. Frontiers in Pharmacology, 2021, 12, 614406.	1.6	9
50	Effect of Compounds from Moringa oleifera Lam. on in Vitro Nonâ€Alcoholic Fatty Liver Disease (NAFLD) Model System. Chemistry and Biodiversity, 2021, 18, e2100243.	1.0	0
51	Telomere Length, SIRT1, and Insulin in Male Master Athletes: The Path to Healthy Longevity?. International Journal of Sports Medicine, 2022, 43, 29-33.	0.8	6
52	Impaired neurite development and mitochondrial dysfunction associated with calcium accumulation in dopaminergic neurons differentiated from the dental pulp stem cells of a patient with metatropic dysplasia. Biochemistry and Biophysics Reports, 2021, 26, 100968.	0.7	3
53	Apelin-13 Reverses Bupivacaine-Induced Cardiotoxicity via the Adenosine Monophosphate–Activated Protein Kinase Pathway. Anesthesia and Analgesia, 2021, 133, 1048-1059.	1.1	11
54	Nicotinamide N-Methyltransferase: An Emerging Protagonist in Cancer Macro(r)evolution. Biomolecules, 2021, 11, 1418.	1.8	12

#	Article	IF	CITATIONS
55	Aloe vera gel extract: Safety evaluation for acute and chronic oral administration in Sprague-Dawley rats and anticancer activity in breast and lung cancer cells. Journal of Ethnopharmacology, 2021, 280, 114434.	2.0	13
56	Activator-Mediated Pyruvate Kinase M2 Activation Contributes to Endotoxin Tolerance by Promoting Mitochondrial Biogenesis. Frontiers in Immunology, 2020, 11, 595316.	2.2	17
57	Astaxanthin alleviates pathological brain aging through the upregulation of hippocampal synaptic proteins. Neural Regeneration Research, 2021, 16, 1062.	1.6	13
58	Sulforaphane protects intestinal epithelial cells against lipopolysaccharide-induced injury by activating the AMPK/SIRT1/PGC-1E' pathway. Bioengineered, 2021, 12, 4349-4360.	1.4	18
59	Aging, senescence and mitochondria: the PGC-1/ERR axis. Journal of Molecular Endocrinology, 2021, 66, R1-R14.	1.1	26
60	Basic Science of Frailty—Biological Mechanisms of Age-Related Sarcopenia. Anesthesia and Analgesia, 2021, 132, 293-304.	1.1	15
61	Resveratrol prevents sarcopenic obesity by reversing mitochondrial dysfunction and oxidative stress via the PKA/LKB1/AMPK pathway. Aging, 2019, 11, 2217-2240.	1.4	88
62	Metabolic Pathways and Cell Signaling. , 2022, , 13-30.		0
63	Huoxue Qianyang Qutan recipe attenuates Ang Il‑induced cardiomyocyte hypertrophy by regulating reactive oxygen species production. Experimental and Therapeutic Medicine, 2021, 22, 1446.	0.8	0
64	Exercise Intervention Mitigates Pathological Liver Changes in NAFLD Zebrafish by Activating SIRT1/AMPK/NRF2 Signaling. International Journal of Molecular Sciences, 2021, 22, 10940.	1.8	18
65	A Comparison of the Antioxidant Effects Between Hydrogen Gas Inhalation and Vitamin C Supplementation in Response to a 60-Min Treadmill Exercise in Rat Gastrocnemius Muscle. Frontiers in Physiology, 2021, 12, 745194.	1.3	2
66	IBF-R, a botanical extract of Rhus verniciflua controls obesity in which AMPK-SIRT1 axis and ROS regulatory mechanism are involved in mice. Journal of Functional Foods, 2021, 87, 104804.	1.6	8
67	Effect of Swimming Exercise to Cardiac PGC-1 α and HIF-1 α Gene Expression in Mice. Asian Journal of Sports Medicine, 2018, In Press, .	0.1	3
69	Next-Generation Ultrasol Curcumin Boosts Muscle Endurance and Reduces Muscle Damage in Treadmill-Exhausted Rats. Antioxidants, 2021, 10, 1692.	2.2	1
70	Dental pulp stem cells expressing SIRT1 improve new bone formation during distraction osteogenesis. American Journal of Translational Research (discontinued), 2019, 11, 832-843.	0.0	5
71	The Protective Effects of α-Mangostin Attenuate Sodium Iodate-Induced Cytotoxicity and Oxidative Injury via Mediating SIRT-3 Inactivation via the PI3K/AKT/PGC-1α Pathway. Antioxidants, 2021, 10, 1870.	2.2	8
72	Exercise Cuts Both Ways with ROS in Remodifying Innate and Adaptive Responses: Rewiring the Redox Mechanism of the Immune System during Exercise. Antioxidants, 2021, 10, 1846.	2.2	5
73	N-Acetyl Cysteine, Selenium, and Ascorbic Acid Rescue Diabetic Cardiac Hypertrophy via Mitochondrial-Associated Redox Regulators. Molecules, 2021, 26, 7285.	1.7	9

#	Article	IF	CITATIONS
74	AMPK Activity: A Primary Target for Diabetes Prevention with Therapeutic Phytochemicals. Nutrients, 2021, 13, 4050.	1.7	19
75	Impact of Cancer Cachexia on Cardiac and Skeletal Muscle: Role of Exercise Training. Cancers, 2022, 14, 342.	1.7	13
76	Alpha-Lipoic Acid Attenuates MPTP/MPP+-Induced Neurotoxicity: Roles of SIRT1-Dependent PGC-1α Signaling Pathways. Neurotoxicity Research, 2022, 40, 410-419.	1.3	5
77	Ketone bodies: from enemy to friend and guardian angel. BMC Medicine, 2021, 19, 313.	2.3	109
78	Puerarin attenuates LPS-induced inflammatory injury in gastric epithelial cells by repressing NLRP3 inflammasome-mediated apoptosis. Toxicology in Vitro, 2022, 81, 105350.	1.1	7
79	Therapeutic and preventive eff ect of physical exercises in primary open-angle glaucoma. Acta Biomedica Scientifica, 2021, 6, 82-95.	0.1	0
80	Protective Effect of Phragmitis Rhizoma against Oxidative Stress-induced DNA Damage and Apoptosis in Chang Liver Cells. The Journal of Internal Korean Medicine, 2021, 42, 1269-1284.	0.0	0
81	Effects of Low-Intensity and Long-Term Aerobic Exercise on the Psoas Muscle of mdx Mice: An Experimental Model of Duchenne Muscular Dystrophy. International Journal of Molecular Sciences, 2022, 23, 4483.	1.8	4
82	The Role of Mitochondrial Biogenesis Dysfunction in Diabetic Cardiomyopathy. Biomolecules and Therapeutics, 2022, 30, 399-408.	1.1	5
83	The effects of exercise on kidney injury: the role of SIRT1. Molecular Biology Reports, 2022, 49, 4025-4038.	1.0	7
84	Protective Effects of 6-Gingerol on Cardiotoxicity Induced by Arsenic Trioxide Through AMPK/SIRT1/PGC-11± Signaling Pathway. Frontiers in Pharmacology, 2022, 13, 868393.	1.6	8
85	Metformin Improves the Prognosis of Adult Mice with Sepsis-Associated Encephalopathy Better than That of Aged Mice. Journal of Immunology Research, 2022, 2022, 1-14.	0.9	4
86	Ramulus Mori (Sangzhi) Alkaloids Alleviate High-Fat Diet-Induced Obesity and Nonalcoholic Fatty Liver Disease in Mice. Antioxidants, 2022, 11, 905.	2.2	14
87	Mitochondrial mutations alter endurance exercise response and determinants in mice. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2200549119.	3.3	3
88	In utero bisphenol AF exposure causes fetal Leydig cell dysfunction and induces multinucleated gonocytes by generating oxidative stress and reducing the SIRT1/PGC11± signals. Toxicology and Applied Pharmacology, 2022, 447, 116069.	1.3	6
89	Calcium-chelated nanosystem reversing cancer chemoresistance via replenishing intracellular calcium ions. Chemical Engineering Journal, 2022, 448, 137500.	6.6	6
90	Impact of Exercise and Aging on Mitochondrial Homeostasis in Skeletal Muscle: Roles of ROS and Epigenetics. Cells, 2022, 11, 2086.	1.8	9
91	Hydrogen Sulfide Regulates Irisin and Glucose Metabolism in Myotubes and Muscle of HFD-Fed Diabetic Mice. Antioxidants, 2022, 11, 1369.	2.2	8

#	Article	IF	CITATIONS
92	Effects of Different Types of Chronic Training on Bioenergetic Profile and Reactive Oxygen Species Production in LHCN-M2 Human Myoblast Cells. International Journal of Molecular Sciences, 2022, 23, 7491.	1.8	1
93	Mitochondrial Calcium-Triggered Oxidative Stress and Developmental Defects in Dopaminergic Neurons Differentiated from Deciduous Teeth-Derived Dental Pulp Stem Cells with MFF Insufficiency. Antioxidants, 2022, 11, 1361.	2.2	5
94	Expression and Possible Role of Silent Mating Type Information Regulation 2 Homolog 1 in Post-necrotizing Enterocolitis Stricture in vivo and in vitro. Frontiers in Pediatrics, 0, 10, .	0.9	0
95	Supplementation of Lycium barbarum Polysaccharide Combined with Aerobic Exercise Ameliorates High-Fat-Induced Nonalcoholic Steatohepatitis via AMPK/PPARα/PGC-1α Pathway. Nutrients, 2022, 14, 3247.	1.7	5
96	Physical exercise regulates apoptosis and prostatic inflammatory effects induced by high-fat diet in PPAR-alphaÂdeleted mice. Prostaglandins and Other Lipid Mediators, 2022, 163, 106669.	1.0	3
97	Sirtuins as novel pharmacological targets in podocyte injury and related glomerular diseases. Biomedicine and Pharmacotherapy, 2022, 155, 113620.	2.5	6
98	Diallyl trisulfide alleviates chemotherapy sensitivity of ovarian cancer via the <scp>AMPK</scp> / <scp>SIRT1</scp> / <scp>PGC11±</scp> pathway. Cancer Science, 2023, 114, 357-369.	1.7	5
99	Neuroprotective Effect of miR-483-5p Against Cardiac Arrest-Induced Mitochondrial Dysfunction Mediated Through the TNFSF8/AMPK/JNK Signaling Pathway. Cellular and Molecular Neurobiology, 2023, 43, 2179-2202.	1.7	3
100	Magnetic mitohormesis: A non-invasive therapy for inflammatory disorders?. Biocell, 2023, .	0.4	3
101	Resistance Training Modulates Reticulum Endoplasmic Stress, Independent of Oxidative and Inflammatory Responses, in Elderly People. Antioxidants, 2022, 11, 2242.	2.2	0
102	Protective Effect of the SIRT1-Mediated NF-κB Signaling Pathway against Necrotizing Enterocolitis in Neonatal Mice. European Journal of Pediatric Surgery, 0, , .	0.7	1
103	Thymoquinone protects the testes of hypothyroid rats by suppressing pro-inflammatory cytokines and oxidative stress and promoting SIRT1 testicular expression. Frontiers in Pharmacology, 0, 13, .	1.6	4
104	Molecular mechanisms of exercise contributing to tissue regeneration. Signal Transduction and Targeted Therapy, 2022, 7, .	7.1	24
105	Antioxidant, anti-inflammatory and immunomodulatory effects of spirulina in exercise and sport: A systematic review. Frontiers in Nutrition, 0, 9, .	1.6	13
106	Loquat Leaf Extract Inhibits Oxidative Stress-Induced DNA Damage and Apoptosis via AMPK and Nrf2/HO-1 Signaling Pathways in C2C12 Cells. Applied Sciences (Switzerland), 2023, 13, 572.	1.3	3
107	Mitochondria-derived peptide MOTS-c: effects and mechanisms related to stress, metabolism and aging. Journal of Translational Medicine, 2023, 21, .	1.8	9
108	Qiangjing tablets ameliorate asthenozoospermia via mitochondrial ubiquitination and mitophagy mediated by LKB1/AMPK/ULK1 signaling. Pharmaceutical Biology, 2023, 61, 271-280.	1.3	2
109	Exercising heart failure patients: cardiac protection through preservation of mitochondrial function and substrate utilization?. Current Opinion in Physiology, 2023, 33, 100656.	0.9	1

		CITATION R	Citation Report	
#	Article		IF	Citations
110	Caloric restriction increases the resistance of aged heart to myocardial ischemia/reperf via modulating AMPK–SIRT1–PGC1a energy metabolism pathway. Scientific Repor	^f usion injury rts, 2023, 13, .	1.6	9
111	Syringin exerts antiâ€inflammatory and antioxidant effects by regulating SIRT1 signalir models of acute myocardial infarction. Immunity, Inflammation and Disease, 2023, 11,	ng in rat and cell	1.3	8
112	Microbiota Mediate Enhanced Exercise Capacity Induced by Exercise Training. Medicine Sports and Exercise, 0, Publish Ahead of Print, .	e and Science in	0.2	0
113	Exercise Improves Cardiac Function in the Aged Rats With Myocardial Infarction. Physic Research, 2023, 72, 27-35.	ological	0.4	1
114	The Role of Mitochondria in Mediation of Skeletal Muscle Repair. , 2023, 2, 119-163.			4
124	Physiologische und molekulare Anpassungen an Krafttraining. , 2023, , 59-84.			0