Regulation of Increased Blood Flow (Hyperemia) to Mus of Competing Physiological Needs

Physiological Reviews

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Citation Report

#	Article	IF	Citations
1	Effect of PDE5 inhibition on the modulation of sympathetic Î±-adrenergic vasoconstriction in contracting skeletal muscle of young and older recreationally active humans. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H1867-H1875.	1.5	10
2	Blood temperature and perfusion to exercising and nonâ€exercising human limbs. Experimental Physiology, 2015, 100, 1118-1131.	0.9	29
3	Exercise training in chronic heart failure: improving skeletal muscle O₂transport and utilization. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H1419-H1439.	1.5	124
4	Skeletal muscle as an endocrine organ: RoleÂof [Na+]i/[K+]i-mediated excitation-transcription coupling. Genes and Diseases, 2015, 2, 328-336.	1.5	20
5	Greater Beta-Adrenergic Receptor Mediated Vasodilation in Women Using Oral Contraceptives. Frontiers in Physiology, 2016, 7, 215.	1.3	19
6	Increased Nitric Oxide Bioavailability and Decreased Sympathetic Modulation Are Involved in Vascular Adjustments Induced by Low-Intensity Resistance Training. Frontiers in Physiology, 2016, 7, 265.	1.3	35
7	Peripheral Blood Flow Regulation in Human Obesity and Metabolic Syndrome. Exercise and Sport Sciences Reviews, 2016, 44, 116-122.	1.6	17
8	No Muscle Is an Island. Medicine and Science in Sports and Exercise, 2016, 48, 2281-2293.	0.2	16
9	Harder, better, faster, longer? Investigating the physiological threshold of endurance exercise. Journal of Physiology, 2016, 594, 7175-7176.	1.3	0
10	Critical Power. Medicine and Science in Sports and Exercise, 2016, 48, 2320-2334.	0.2	335
11	Exercise amelioration of depression-like behavior in OVX mice is associated with suppression of NLRP3 inflammasome activation in hippocampus. Behavioural Brain Research, 2016, 307, 18-24.	1.2	73
12	Hypertension: a problem of organ blood flow supplyâ€“demand mismatch. Future Cardiology, 2016, 12, 339-349.	0.5	21
13	Prolonged adenosine triphosphate infusion and exercise hyperemia in humans. Journal of Applied Physiology, 2016, 121, 629-635.	1.2	9
14	Cardiovascular control during whole body exercise. Journal of Applied Physiology, 2016, 121, 376-390.	1.2	25
15	Validity and reliability of measuring resting muscle sympathetic nerve activity using short sampling durations in healthy humans. Journal of Applied Physiology, 2016, 121, 1065-1073.	1.2	40
16	Pathophysiology of exercise intolerance in breast cancer survivors with preserved left ventricular ejection fraction. Clinical Science, 2016, 130, 2239-2244.	1.8	24
17	Relationship of post-exercise muscle oxygenation and duration of cycling exercise. BMC Sports Science, Medicine and Rehabilitation, 2016, 8, 9.	0.7	10
18	Modeling Intermittent Cycling Performance in Hypoxia Using the Critical Power Concept. Medicine and Science in Sports and Exercise, 2016, 48, 527-535.	0.2	19

#	Article	IF	Citations
19	Clinical neurocardiology defining the value of neuroscienceâ€based cardiovascular therapeutics. Journal of Physiology, 2016, 594, 3911-3954.	1.3	222
20	Modulation of rat skeletal muscle microvascular O2 pressure via KATP channel inhibition following the onset of contractions. Respiratory Physiology and Neurobiology, 2016, 222, 48-54.	0.7	6
21	Nitrate as a source of nitrite and nitric oxide during exercise hyperemia in rat skeletal muscle. Nitric Oxide - Biology and Chemistry, 2016, 55-56, 54-61.	1.2	53
22	Endâ€exercise Î”HHb/Î”VO₂ and postâ€exercise local oxygen availability in relation to exercise intensity. Clinical Physiology and Functional Imaging, 2017, 37, 384-393.	0.5	10
23	Influence of coldâ€water immersion on limb blood flow after resistance exercise. European Journal of Sport Science, 2017, 17, 519-529.	1.4	34
24	Vascular Adaptation to Exercise in Humans: Role of Hemodynamic Stimuli. Physiological Reviews, 2017, 97, 495-528.	13.1	456
25	Highly increased Troponin I levels following high-intensity endurance cycling may detect subclinical coronary artery disease in presumably healthy leisure sport cyclists: The North Sea Race Endurance Exercise Study (NEEDED) 2013. European Journal of Preventive Cardiology, 2017, 24, 885-894.	0.8	31
26	Myobolites: muscle-derived metabolites with paracrine and systemic effects. Current Opinion in Pharmacology, 2017, 34, 15-20.	1.7	24
27	An introduction into autonomic nervous function. Physiological Measurement, 2017, 38, R89-R118.	1.2	147
28	Endothelial mechanotransduction proteins and vascular function are altered by dietary sucrose supplementation in healthy young male subjects. Journal of Physiology, 2017, 595, 5557-5571.	1.3	21
29	Optimizing client and student learning from the brain's perspective. Journal of the American Veterinary Medical Association, 2017, 251, 33-35.	0.2	5
30	Exercise-Induced Cardioprotection and the Therapeutic Potential of RIPC. Journal of Cardiovascular Pharmacology and Therapeutics, 2017, 22, 397-403.	1.0	16
31	Endoglin controls blood vessel diameter through endothelial cell shape changes in response to haemodynamic cues. Nature Cell Biology, 2017, 19, 653-665.	4.6	174
32	Biology of Vascular Smooth Muscle: Vasoconstriction and Dilatation. , 2017, , .		5
33	Central and peripheral responses to static and dynamic stretch of skeletal muscle: mechano- and metaboreflex implications. Journal of Applied Physiology, 2017, 122, 112-120.	1.2	33
34	Intense resistance exercise increases peripheral brain-derived neurotrophic factor. Journal of Science and Medicine in Sport, 2017, 20, 899-903.	0.6	51
35	Mast cell degranulation and de novo histamine formation contribute to sustained postexercise vasodilation in humans. Journal of Applied Physiology, 2017, 122, 603-610.	1.2	29
36	Leg vascular and skeletal muscle mitochondrial adaptations to aerobic highâ€intensity exercise training are enhanced in the early postmenopausal phase. Journal of Physiology, 2017, 595, 2969-2983.	1.3	32

#	Article	IF	Citations
37	Sympathetic nervous system activation reduces contraction-induced rapid vasodilation in the leg of humans independent of age. Journal of Applied Physiology, 2017, 123, 106-115.	1.2	8
38	Acid Test for Nitrite Pharmacology. Hypertension, 2017, 69, 13-14.	1.3	0
39	Capillary endothelial cells as coordinators of skeletal muscle blood flow during active hyperemia. Microcirculation, 2017, 24, e12348.	1.0	27
40	Potentiation of the NO-cGMP pathway and blood flow responses during dynamic exercise in healthy humans. European Journal of Applied Physiology, 2017, 117, 237-246.	1.2	6
41	Rapid versus slow ascending vasodilatation: intercellular conduction versus flowâ€mediated signalling with tetanic versus rhythmic muscle contractions. Journal of Physiology, 2017, 595, 7149-7165.	1.3	21
42	Lessons from Popper for science, paradigm shifts, scientific revolutions and exercise physiology. BMJ Open Sport and Exercise Medicine, 2017, 3, e000226.	1.4	13
43	Increased tissue oxygenation explains the attenuation of hyperemia upon repetitive pneumatic compression of the lower leg. Journal of Applied Physiology, 2017, 123, 1451-1460.	1.2	13
44	Piezo1 channels sense whole body physical activity to reset cardiovascular homeostasis and enhance performance. Nature Communications, 2017, 8, 350.	5.8	197
45	Sexâ€specific factors regulating pressure and flow. Experimental Physiology, 2017, 102, 1385-1392.	0.9	37
46	Are All Heat Loads Created Equal?. Medicine and Science in Sports and Exercise, 2017, 49, 1796-1804.	0.2	12
47	Cardiovascular Responses to Skeletal Muscle Stretching: â€œStretchingâ€•the Truth or a New Exercise Paradigm for Cardiovascular Medicine?. Sports Medicine, 2017, 47, 2507-2520.	3.1	53
48	Muscle contraction induced arterial shear stress increases endothelial nitric oxide synthase phosphorylation in humans. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 313, H854-H859.	1.5	32
49	Cardiovascular Psychophysiology. , 0, , 183-216.		40
50	Folic acid ingestion improves skeletal muscle blood flow during graded handgrip and plantar flexion exercise in aged humans. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 313, H658-H666.	1.5	17
51	Exercise versus vasodilator stress limb perfusion imaging for the assessment of peripheral artery disease. Echocardiography, 2017, 34, 1187-1194.	0.3	14
52	Biology of VO₂max: looking under the physiology lamp. Acta Physiologica, 2017, 220, 218-228.	1.8	180
53	Exercise-stimulated glucose uptake â€" regulation and implications for glycaemic control. Nature Reviews Endocrinology, 2017, 13, 133-148.	4.3	312
54	Somatoautonomic reflexes in acupuncture therapy: A review. Autonomic Neuroscience: Basic and Clinical, 2017, 203, 1-8.	1.4	12

#	Article	IF	Citations
55	Effects of walking in deep venous thrombosis: a new integrated solid and fluid mechanics model. International Journal for Numerical Methods in Biomedical Engineering, 2017, 33, e2819.	1.0	1
56	Assessment of muscle function using hybrid PET/MRI: comparison of 18F-FDG PET and T2-weighted MRI for quantifying muscle activation in human subjects. European Journal of Nuclear Medicine and Molecular Imaging, 2017, 44, 704-711.	3.3	15
57	Bengt Saltin and exercise physiology: a perspective. Applied Physiology, Nutrition and Metabolism, 2017, 42, 101-103.	0.9	2
58	Strategies of adaptation of small arteries in diaphragm and gastrocnemius muscle to aerobic exercise training. Human Physiology, 2017, 43, 437-445.	0.1	3
59	Antioxidants in Physical Exercise and Sports Performance. , 2017, , 247-266.		2
60	Exercise Physiology in Men and Women. , 2017, , 525-542.		5
61	Validation of a novel wearable, wireless technology to estimate oxygen levels and lactate threshold power in the exercising muscle. Physiological Reports, 2018, 6, e13664.	0.7	59
62	GPR68 Senses Flow and Is Essential for Vascular Physiology. Cell, 2018, 173, 762-775.e16.	13.5	205
63	Changes in Total Cardiac Output and Oxygen Extraction During Exercise in Patients Supported With an HVAD Left Ventricular Assist Device. Artificial Organs, 2018, 42, 686-694.	1.0	21
64	Signalling of vasodilatation across an exercise transient. Journal of Physiology, 2018, 596, 559-560.	1.3	0
65	Neuronal nitric oxide synthase regulation of skeletal muscle functional hyperemia: exercise training and moderate compensated heart failure. Nitric Oxide - Biology and Chemistry, 2018, 74, 1-9.	1.2	12
66	Acute alterations in the hematological and hemorheological profile induced by resistance training and possible implication for microvascular functionality. Microvascular Research, 2018, 118, 137-143.	1.1	2
67	Exercise Blood Pressure Guidelines: Time to Re-evaluate What is Normal and Exaggerated?. Sports Medicine, 2018, 48, 1763-1771.	3.1	35
68	Ageâ€associated impairments in contractionâ€induced rapidâ€onset vasodilatation within the forearm are independent of mechanical factors. Experimental Physiology, 2018, 103, 728-737.	0.9	3
69	Does postexercise modelled capillary blood flow accurately reflect cardiovascular effects by different exercise intensities?. Clinical Physiology and Functional Imaging, 2018, 38, 431-438.	0.5	3
70	Modeling regulation of vascular tone following muscle contraction: Model development, validation and global sensitivity analysis. Journal of Computational Science, 2018, 24, 143-159.	1.5	4
71	Physiological Redundancy and the Integrative Responses to Exercise. Cold Spring Harbor Perspectives in Medicine, 2018, 8, a029660.	2.9	9
72	Reliability of muscle blood flow and oxygen consumption response from exercise using nearâ€infrared spectroscopy. Experimental Physiology, 2018, 103, 90-100.	0.9	64

#	Article	IF	Citations
73	Phosphodiesterase-5 inhibition preserves exercise-onset vasodilator kinetics when NOS activity is reduced. Journal of Applied Physiology, 2018, 124, 276-282.	1.2	6
74	Endothelial Piezo1 channels as sensors of exercise. Journal of Physiology, 2018, 596, 979-984.	1.3	30
75	Hyperoxia for performance and training. Journal of Sports Sciences, 2018, 36, 1515-1522.	1.0	16
76	OBSOLETE: Neurological Regulation of the Circulation. , 2018, , .		0
77	Effects of pump speed changes on exercise capacity in patients supported with a left ventricular assist deviceâ€"an overview. Journal of Thoracic Disease, 2018, 10, S1802-S1810.	0.6	17
78	Human Blood Circulatory System Modeling based on Hybrid Systems. , 2018, , .		3
79	Plasma Nucleotide Dynamics during Exercise and Recovery in Highly Trained Athletes and Recreationally Active Individuals. BioMed Research International, 2018, 2018, 1-11.	0.9	10
80	Heart Rate Equivalency of the Fitbit Charge HR During Continuous Aerobic Exercise. Journal for the Measurement of Physical Behaviour, 2018, 1, 122-129.	0.5	0
81	Regular Physical Activity and Risk of Venous Thromboembolism. Seminars in Thrombosis and Hemostasis, 2018, 44, 765-779.	1.5	22
82	Detection of the effect of exercise on APG signals. , 2018, , .		1
83	Cardiovascular Effects and Benefits of Exercise. Frontiers in Cardiovascular Medicine, 2018, 5, 135.	1.1	386
84	Oxygen dependence of respiration in rat spinotrapezius muscle contracting at 0.5â€"8 twitches per second. Journal of Applied Physiology, 2018, 125, 124-133.	1.2	5
85	TRPV1 and BDKRB2 receptor polymorphisms can influence the exercise pressor reflex. Journal of Physiology, 2018, 596, 5135-5148.	1.3	18
86	Nitric Oxide, Normal Science, and Lessons Learned by a Marginally Prepared Mind. Perspectives in Biology and Medicine, 2018, 61, 191-200.	0.3	0
87	Physical Exercise and the Endothelium. , 2018, , 699-709.		1
88	Neurological Regulation of the Circulation. , 2018, , 477-491.		0
89	Differences in vascular function between trained and untrained limbs assessed by near-infrared spectroscopy. European Journal of Applied Physiology, 2018, 118, 2241-2248.	1.2	25
90	Sex and nitric oxide bioavailability interact to modulate interstitial Po2 in healthy rat skeletal muscle. Journal of Applied Physiology, 2018, 124, 1558-1566.	1.2	10

#	Article	IF	Citations
91	Sex-Specific Characteristics of the Microcirculation. Advances in Experimental Medicine and Biology, 2018, 1065, 307-328.	0.8	54
92	Habitual exercise training in older adults offsets the age-related prolongation in leg vasodilator kinetics during single-limb lower body exercise. Journal of Applied Physiology, 2018, 125, 746-754.	1.2	3
93	Highs and lows of hyperoxia: physiological, performance, and clinical aspects. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2018, 315, R1-R27.	0.9	85
94	Competition for blood flow distribution between respiratory and locomotor muscles: implications for muscle fatigue. Journal of Applied Physiology, 2018, 125, 820-831.	1.2	87
95	Does a Better Perfusion of Deconditioned Muscle Tissue Release Chronic Low Back Pain?. Frontiers in Medicine, 2018, 5, 77.	1.2	15
96	Arteriolar and capillary responses to <scp>CO</scp>₂ and H⁺ in hamster skeletal muscle microvasculature: Implications for active hyperemia. Microcirculation, 2018, 25, e12494.	1.0	9
97	Effects of aging and exercise training on leg hemodynamics and oxidative metabolism in the transition from rest to steady-state exercise: role of cGMP signaling. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2018, 315, R274-R283.	0.9	5
98	Concepts About VË™O2max and Trainability Are Context Dependent. Exercise and Sport Sciences Reviews, 2018, 46, 138-143.	1.6	42
99	Skeletal muscle interstitial O₂ pressures: bridging the gap between the capillary and myocyte. Microcirculation, 2019, 26, e12497.	1.0	29
100	Acute ibuprofen ingestion does not attenuate fatigue during maximal intermittent knee extensor or all-out cycling exercise. Applied Physiology, Nutrition and Metabolism, 2019, 44, 208-215.	0.9	5
101	Exercise training reverses an ageâ€related attenuation in ATP signaling in human skeletal muscle. Translational Sports Medicine, 2019, 2, 248-255.	0.5	0
102	The Role of Volume Regulation and Thermoregulation in AKI during Marathon Running. Clinical Journal of the American Society of Nephrology: CJASN, 2019, 14, 1297-1305.	2.2	19
103	Effect of different walking break strategies on superficial femoral artery endothelial function. Physiological Reports, 2019, 7, e14190.	0.7	33
104	Modelling the relationships between haemoglobin oxygen affinity and the oxygen cascade in humans. Journal of Physiology, 2019, 597, 4193-4202.	1.3	22
105	Reduced deformability contributes to impaired deoxygenationâ€induced ATP release from red blood cells of older adult humans. Journal of Physiology, 2019, 597, 4503-4519.	1.3	25
106	Wearable sensors for monitoring the internal and external workload of the athlete. Npj Digital Medicine, 2019, 2, 71.	5.7	150
107	Effects of dynamic arm and leg exercise on muscle sympathetic nerve activity and vascular conductance in the inactive leg. Journal of Applied Physiology, 2019, 127, 464-472.	1.2	6
108	Contrast-enhanced ultrasound detects changes in microvascular blood flow in adults with sickle cell disease. PLoS ONE, 2019, 14, e0218783.	1.1	9

#	Article	IF	Citations
109	The Efficacy of Administering Fruit-Derived Polyphenols to Improve Health Biomarkers, Exercise Performance and Related Physiological Responses. Nutrients, 2019, 11, 2389.	1.7	36
110	Genetic Approaches for Sports Performance: How Far Away Are We?. Sports Medicine, 2019, 49, 199-204.	3.1	20
111	Feasibility Study of Hydration Monitoring Using Microwavesâ€"Part 2: Measurements of Athletes. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2019, 3, 300-307.	2.3	10
112	Mechanical behaviour of alginate film with embedded voids under compression-decompression cycles. Scientific Reports, 2019, 9, 13193.	1.6	6
113	The role of exercise hemodynamics in assessing patients with chronic heart failure and left ventricular assist devices. Expert Review of Medical Devices, 2019, 16, 891-898.	1.4	4
114	Heat, Hydration and the Human Brain, Heart and Skeletal Muscles. Sports Medicine, 2019, 49, 69-85.	3.1	53
115	Exercise intensity and middle cerebral artery dynamics in humans. Respiratory Physiology and Neurobiology, 2019, 262, 32-39.	0.7	30
116	Rate of force development to evaluate the neuromuscular fatigue and recovery after an intermittent isometric handgrip task with different blood flow restriction conditions. Motriz Revista De Educacao Fisica, 2019, 25, .	0.3	4
117	Edward F. Adolph Distinguished Lecture. Contemporary model of muscle microcirculation: gateway to function and dysfunction. Journal of Applied Physiology, 2019, 127, 1012-1033.	1.2	26
118	Oxygen Availability in Respiratory Muscles During Exercise in Children Following Fontan Operation. Frontiers in Pediatrics, 2019, 7, 96.	0.9	4
119	Physiological comparison of hemorrhagic shock and VË™O₂max: A conceptual framework for defining the limitation of oxygen delivery. Experimental Biology and Medicine, 2019, 244, 690-701.	1.1	11
120	Acute Effects of Citrulline Supplementation on High-Intensity Strength and Power Performance: A Systematic Review and Meta-Analysis. Sports Medicine, 2019, 49, 707-718.	3.1	47
121	High-pressure blood flow restriction with very low load resistance training results in peripheral vascular adaptations similar to heavy resistance training. Physiological Measurement, 2019, 40, 035003.	1.2	29
122	Temporal dynamics of pre and post myocardial infarcted tissue with concomitant preconditioning of aerobic exercise in chronic diabetic rats. Life Sciences, 2019, 225, 79-87.	2.0	13
123	Short-term supplement of virgin coconut oil improves endothelial-dependent dilation but not exercise-mediated hyperemia in young adults. Nutrition Research, 2019, 67, 17-26.	1.3	7
124	Expertâ€™s Choice: 2018â€™s Most Exciting Research in the Field of Pediatric Exercise Science. Pediatric Exercise Science, 2019, 31, 1-27.	0.5	11
125	Sustained exercise hyperemia during prolonged adenosine infusion in humans. Physiological Reports, 2019, 7, e14009.	0.7	1
126	Functional sympatholysis is impaired in end-stage renal disease. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2019, 316, R504-R511.	0.9	21

#	Article	IF	Citations
127	Comparison between Different Prescription Methods for Aerobic Training in Young Adults. Sustainability, 2019, 11, 6420.	1.6	7
128	The Effects of Mompyeogi Movement Exercise on Body Skin Temperature. Nurse Media Journal of Nursing, 2019, 9, 35.	0.1	0
129	Zooming in across the Skin: A Macro-to-Molecular Panorama. Advances in Experimental Medicine and Biology, 2019, 1247, 157-200.	0.8	8
130	Challenges in treating Pompe disease: an industry perspective. Annals of Translational Medicine, 2019, 7, 291-291.	0.7	38
131	Cerebral oxygenation during locomotion is modulated by respiration. Nature Communications, 2019, 10, 5515.	5.8	54
132	The role of physical activity in individuals with cardiovascular risk factors: an opinion paper from Italian Society of Cardiology-Emilia Romagna-Marche and SIC-Sport. Journal of Cardiovascular Medicine, 2019, 20, 631-639.	0.6	43
133	Appetite Is Suppressed After Full-Body Resistance Exercise Compared With Split-Body Resistance Exercise: The Potential Influence of Lactate and Autonomic Modulation. Journal of Strength and Conditioning Research, 2021, 35, 2532-2540.	1.0	7
134	Exoskeletons Improve Locomotion Economy by Reducing Active Muscle Volume. Exercise and Sport Sciences Reviews, 2019, 47, 237-245.	1.6	44
135	Muscle Oxygenation During Hypoxic Exercise in Children and Adults. Frontiers in Physiology, 2019, 10, 1385.	1.3	4
136	Physical Activity and Exercise Training as Important Modifiers of Vascular Health. Updates in Hypertension and Cardiovascular Protection, 2019, , 451-469.	0.1	0
137	Recovery of blood flow regulation in microvascular resistance networks during regeneration of mouse gluteus maximus muscle. Journal of Physiology, 2019, 597, 1401-1417.	1.3	14
138	Exercise-induced hyperemia is associated with knee extensor fatigability in adults with type 2 diabetes. Journal of Applied Physiology, 2019, 126, 658-667.	1.2	8
139	Left Atrial Electromechanical Remodeling Following 2 Years of High-Intensity Exercise Training in Sedentary Middle-Aged Adults. Circulation, 2019, 139, 1507-1516.	1.6	24
140	Muscle Blood Flow and Vascularization in Response to Exercise and Training. , 2019, , 379-389.		2
141	Pedal power measurement as a diagnostic tool for functional vascular problems. Clinical Biomechanics, 2019, 61, 211-216.	0.5	5
142	Exercise-induced calf muscle hyperemia: quantitative mapping with low-dose dynamic contrast enhanced magnetic resonance imaging. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H201-H211.	1.5	11
143	Detection of Muscle Tension Dysphonia Using Eulerian Video Magnification: A Pilot Study. Journal of Voice, 2020, 34, 622-628.	0.6	7
144	Comparison Between Full-Body vs. Split-Body Resistance Exercise on the Brain-Derived Neurotrophic Factor and Immunometabolic Response. Journal of Strength and Conditioning Research, 2020, 34, 3094-3102.	1.0	17

#	Article	IF	Citations
145	Workload-indexed blood pressure response is superior to peak systolic blood pressure in predicting all-cause mortality. European Journal of Preventive Cardiology, 2020, 27, 978-987.	0.8	39
146	Effects of Citrulline Malate and Beetroot Juice Supplementation on Energy Metabolism and Blood Flow During Submaximal Resistance Exercise. Journal of Dietary Supplements, 2020, 17, 698-717.	1.4	8
147	Impacts of exercise interventions on different diseases and organ functions in mice. Journal of Sport and Health Science, 2020, 9, 53-73.	3.3	79
148	Metabolicâ€vascular coupling in skeletal muscle: A potential role for capillary pericytes?. Clinical and Experimental Pharmacology and Physiology, 2020, 47, 520-528.	0.9	7
149	The role of endothelin A receptors in peripheral vascular control at rest and during exercise in patients with hypertension. Journal of Physiology, 2020, 598, 71-84.	1.3	3
150	Assessment of resistance vessel function in human skeletal muscle: guidelines for experimental design, Doppler ultrasound, and pharmacology. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 318, H301-H325.	1.5	78
151	Carnitine in Human Muscle Bioenergetics: Can Carnitine Supplementation Improve Physical Exercise?. Molecules, 2020, 25, 182.	1.7	47
152	The immediate effect of physical activity on ultrasound-derived venous reflux parameters. Journal of Vascular Surgery: Venous and Lymphatic Disorders, 2020, 8, 640-645.	0.9	4
153	The Psychobiological Etiology of Gastrointestinal Distress in Sport. Journal of Clinical Gastroenterology, 2020, 54, 297-304.	1.1	21
154	Shearâ€thinning behaviour of blood in response to active hyperaemia: Implications for the assessment of arterial shear stressâ€mediated dilatation. Experimental Physiology, 2020, 105, 244-257.	0.9	13
155	Microvascular blood flow during vascular occlusion tests assessed by diffuse correlation spectroscopy. Experimental Physiology, 2020, 105, 201-210.	0.9	16
156	Rapidâ€onset vasodilator responses to exercise in humans: Effect of increased baseline blood flow. Experimental Physiology, 2020, 105, 88-95.	0.9	2
157	Voluntary exercise increases brain tissue oxygenation and spatially homogenizes oxygen delivery in a mouse model of Alzheimer's disease. Neurobiology of Aging, 2020, 88, 11-23.	1.5	17
158	Adding carbon fiber to shoe soles may not improve running economy: a muscle-level explanation. Scientific Reports, 2020, 10, 17154.	1.6	23
159	Novel Combination of COX-2 Inhibitor and Antioxidant Therapy for Modulating Oxidative Stress Associated with Intestinal Ischemic Reperfusion Injury and Endotoxemia. Antioxidants, 2020, 9, 930.	2.2	6
160	Investigating the effect of fatigue on muscle microvasculature blood flow during intermittent isometric contraction. , 2020, 2020, 3220-3223.		0
161	Non-invasive ventilation improves exercise tolerance and peripheral vascular function after high-intensity exercise in COPD-HF patients. Respiratory Medicine, 2020, 173, 106173.	1.3	13
162	Fatigability and Cardiorespiratory Impairments in Parkinsonâ€™s Disease: Potential Non-Motor Barriers to Activity Performance. Journal of Functional Morphology and Kinesiology, 2020, 5, 78.	1.1	12

#	Article	IF	Citations
163	Diaphragm: The Relationship between Blood Supply Regulation and Characteristics of the Contractile Function. Moscow University Biological Sciences Bulletin, 2020, 75, 41-49.	0.1	3
164	Sarcopenia in aging, obesity, and cancer. Translational Cancer Research, 2020, 9, 5760-5771.	0.4	33
165	Indices of leg resistance artery function are independently related to cycling VÌ‡O ₂ max. Physiological Reports, 2020, 8, e14551.	0.7	8
166	Epidural stimulation for cardiovascular function increases lower limb lean mass in individuals with chronic motor complete spinal cord injury. Experimental Physiology, 2020, 105, 1684-1691.	0.9	9
167	Acute mitochondrial antioxidant intake improves endothelial function, antioxidant enzyme activity, and exercise tolerance in patients with peripheral artery disease. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 319, H456-H467.	1.5	57
168	Arginine and Endothelial Function. Biomedicines, 2020, 8, 277.	1.4	131
169	Nearâ€infrared spectroscopy measures of sternocleidomastoid blood flow during exercise and hyperpnoea. Experimental Physiology, 2020, 105, 2226-2237.	0.9	6
170	A pilot study investigating the effects of voluntary exercise on capillary stalling and cerebral blood flow in the APP/PS1 mouse model of Alzheimerâ€™s disease. PLoS ONE, 2020, 15, e0235691.	1.1	14
171	Shifted vascular optimization: the emergence of a new arteriolar behaviour with chronic metabolic disease. Experimental Physiology, 2020, 105, 1431-1439.	0.9	1
172	Physiological responses of human skeletal muscle to acute blood flow restricted exercise assessed by multimodal MRI. Journal of Applied Physiology, 2020, 129, 748-759.	1.2	5
173	Greater Î±₁-adrenergic-mediated vasoconstriction in contracting skeletal muscle of patients with type 2 diabetes. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 319, H797-H807.	1.5	12
174	Reliability of Low-Cost Near-Infrared Spectroscopy in the Determination of Muscular Oxygen Saturation and Hemoglobin Concentration during Rest, Isometric and Dynamic Strength Activity. International Journal of Environmental Research and Public Health, 2020, 17, 8824.	1.2	4
175	Contribution of oxygen extraction fraction to maximal oxygen uptake in healthy young men. Acta Physiologica, 2020, 230, e13486.	1.8	46
176	K IR channel activation links local vasodilatation with muscle fibre recruitment during exercise in humans. Journal of Physiology, 2020, 598, 2621-2636.	1.3	5
177	Aerobic exercise offsets endothelial dysfunction induced by repetitive consumption of sugar-sweetened beverages in young healthy men. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2020, 319, R11-R18.	0.9	8
178	Organ System Crosstalk in Cardiometabolic Disease in the Age of Multimorbidity. Frontiers in Cardiovascular Medicine, 2020, 7, 64.	1.1	39
179	Neurological effects of chronic occupational exposure to alcohol mists and vapors in a machinist. Toxicology Communications, 2020, 4, 43-48.	0.3	3
180	Higher doses of a green tea-based supplement increase post-exercise blood flow following an acute resistance exercise bout in recreationally resistance-trained college-aged men. Journal of the International Society of Sports Nutrition, 2020, 17, 27.	1.7	5

#	Article	IF	Citations
181	Acute effects of strength exercise with blood flow restriction on the arterial resistance index. Journal of Physical Education (Maringa), 2020, 31, .	0.1	1
182	â€œExercise with facemask; Are we handling a devil's sword?â€•â€“ A physiological hypothesis. Medical Hypotheses, 2020, 144, 110002.	0.8	91
183	Redox basis of exercise physiology. Redox Biology, 2020, 35, 101499.	3.9	69
184	The generation of immuneâ€induced fever and emotional stressâ€induced hyperthermia in mice does not involve brown adipose tissue thermogenesis. FASEB Journal, 2020, 34, 5863-5876.	0.2	12
185	Increased oxygenation in the nonâ€contracting forearm muscle during contralateral skilful hand movement. Experimental Physiology, 2020, 105, 950-965.	0.9	2
186	Subclinical Inflammation Is Associated With Reductions in Muscle Oxygenation, Exercise Capacity and Quality of Life in Adults With Type 2 Diabetes. Canadian Journal of Diabetes, 2020, 44, 422-427.	0.4	1
187	Timed synchronization of muscle contraction to heartbeat enhances muscle hyperemia. Journal of Applied Physiology, 2020, 128, 805-812.	1.2	7
188	Training with blood flow restriction increases femoral artery diameter and thigh oxygen delivery during kneeâ€extensor exercise in recreationally trained men. Journal of Physiology, 2020, 598, 2337-2353.	1.3	41
189	Exercise and physical activity in cirrhosis: opportunities or perils. Journal of Applied Physiology, 2020, 128, 1547-1567.	1.2	12
190	In response to indices of physiological strain for firefighters of the Australian Defence Forces. Journal of Occupational and Environmental Hygiene, 2020, 17, D11-D12.	0.4	0
191	Cell Biology and Translational Medicine, Volume 8. Advances in Experimental Medicine and Biology, 2020, , .	0.8	0
192	Impact of endurance exercise on the heart of cyclists: A systematic review and meta-analysis. Progress in Cardiovascular Diseases, 2020, 63, 750-761.	1.6	5
193	Antioxidant supplements and endurance exercise: Current evidence and mechanistic insights. Redox Biology, 2020, 35, 101471.	3.9	103
194	Central cardiovascular system limits to aerobic capacity. Experimental Physiology, 2021, 106, 2299-2303.	0.9	11
195	Cu 2 O Heterostructured GaN Thin Film and GaN Nanowire Piezoelectric Nanogenerators. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900798.	0.8	5
196	The Impact of Obstructive Sleep Apnea on Balance, Gait, and Falls Risk: A Narrative Review of the Literature. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, 2450-2460.	1.7	18
197	SPECT/CT quantification of lower limb perfusion: The next frontier in radionuclide perfusion imaging?. Journal of Nuclear Cardiology, 2020, 27, 1934-1938.	1.4	1
198	Vascular function is related to blood flow during high-intensity, but not low-intensity, knee extension exercise. Journal of Applied Physiology, 2020, 128, 698-708.	1.2	13

#	Article	IF	Citations
199	Acute Hemodynamic Effects of Virtual Realityâ€“Based Therapy in Patients of Cardiovascular Rehabilitation: A Cluster Randomized Crossover Trial. Archives of Physical Medicine and Rehabilitation, 2020, 101, 642-649.	0.5	21
200	Behavior of alginateâ€“gelatin blended gel with embedded macrovoids: Stressâ€induced changes and the solute release characteristics. Journal of Applied Polymer Science, 2020, 137, 49035.	1.3	0
201	Distinct effects of thermal treatments after lengthening contraction on mechanical hyperalgesia and exercise-induced physiological changes in rat muscle. Journal of Applied Physiology, 2020, 128, 296-306.	1.2	4
202	Effects of 8-Weeks Concurrent Strength and Aerobic Training on Body Composition, Physiological and Cognitive Performance in Older Adult Women. Sustainability, 2020, 12, 1944.	1.6	2
203	Transcatheter aortic root replacement with chimney grafts for coronary perfusion: a preliminary test in a three-dimensional-printed root model. Interactive Cardiovascular and Thoracic Surgery, 2020, 31, 121-128.	0.5	3
204	The role of vascular function on exercise capacity in health and disease. Journal of Physiology, 2021, 599, 889-910.	1.3	39
205	Red Blood Cell-Mediated S-Nitrosohemoglobin-Dependent Vasodilation: Lessons Learned from a Î²-Globin Cys93 Knock-In Mouse. Antioxidants and Redox Signaling, 2021, 34, 936-961.	2.5	13
206	Hemoglobin, hematocrit and plasma volume variations following combined sprint and strength: Effect of advanced age. Science and Sports, 2021, 36, e13-e21.	0.2	3
207	Experiments of nature and within species comparative physiology. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2021, 253, 110864.	0.8	6
208	Role of Regular Physical Exercise in Tumor Vasculature: Favorable Modulator of Tumor Milieu. International Journal of Sports Medicine, 2021, 42, 389-406.	0.8	9
209	Effects of sex and exercise training on Î²-adrenoreceptor-mediated opposition of evoked sympathetic vasoconstriction in resting and contracting muscle of rats. Journal of Applied Physiology, 2021, 130, 114-123.	1.2	4
210	Sex-related differences in rapid-onset vasodilation: impact of aging. Journal of Applied Physiology, 2021, 130, 206-214.	1.2	6
211	Quadriceps Oxygenation During Exercise in Patients With Anterior Cruciate Ligament Reconstruction. Journal of Athletic Training, 2021, 56, 170-176.	0.9	6
212	Elevated peak systolic blood pressure in enduranceâ€trained athletes: Physiology or pathology?. Scandinavian Journal of Medicine and Science in Sports, 2021, 31, 956-966.	1.3	5
213	Effect of position and exercise on measurement of muscle quantity and quality: towards a standardised pragmatic protocol for clinical practice. BMC Sports Science, Medicine and Rehabilitation, 2021, 13, 3.	0.7	7
214	Sarcopenia is associated with blood transfusions in head and neck cancer free flap surgery. Laryngoscope Investigative Otolaryngology, 2021, 6, 200-210.	0.6	10
215	Timing is everything: Exercise therapy and remote ischemic conditioning for acute ischemic stroke patients. Brain Circulation, 2021, 7, 178.	0.7	21
216	Some aspects of the adaptogenic potential of European mistletoe (Viscum album L.) extracts under variable physical performance. Journal of Medicinal Plants, 2021, 20, 60-78.	0.2	5

#	Article	IF	Citations
217	Relation between physical activity and cerebral small vessel disease: A nine-year prospective cohort study. International Journal of Stroke, 2021, 16, 962-971.	2.9	8
218	Regulation of muscle potassium: exercise performance, fatigue and health implications. European Journal of Applied Physiology, 2021, 121, 721-748.	1.2	37
219	Myokines and Heart Failure: Challenging Role in Adverse Cardiac Remodeling, Myopathy, and Clinical Outcomes. Disease Markers, 2021, 2021, 1-17.	0.6	44
220	Influences of Recreational Tennis-Playing Exercise Time on Cardiometabolic Health Parameters in Healthy Elderly: The ExAMIN AGE Study. International Journal of Environmental Research and Public Health, 2021, 18, 1255.	1.2	5
221	Extracellular Vesicles and Exosomes: Insights From Exercise Science. Frontiers in Physiology, 2020, 11, 604274.	1.3	86
222	The cardiovascular consequences of fatiguing expiratory muscle work in otherwise resting healthy humans. Journal of Applied Physiology, 2021, 130, 421-434.	1.2	2
224	The effects of submaximal exercise on a treadmill on the recovery of the stiffness index and reflection index in men with untreated hypertension. Journal of Medical Science, 2021, 90, e504.	0.2	2
225	An Antioxidant Nanoparticle Enhances Exercise Performance in Rat Highâ€intensity Running Models. Advanced Healthcare Materials, 2021, 10, 2100067.	3.9	3
226	About the impact of repetitive spine flexions due to labour on passive mechanics of the lumbar spine. International Journal of Industrial Ergonomics, 2021, 82, 103105.	1.5	0
227	The capillary fascicle in skeletal muscle: Structural and functional physiology of RBC distribution in capillary networks. Journal of Physiology, 2021, 599, 2149-2168.	1.3	17
228	Adaptation to Exercise Training in Conduit Arteries and Cutaneous Microvessels in Humans: An Optical Coherence Tomography Study. Medicine and Science in Sports and Exercise, 2021, 53, 1945-1957.	0.2	2
229	Is There an Exercise-Intensity Threshold Capable of Avoiding the Leaky Gut?. Frontiers in Nutrition, 2021, 8, 627289.	1.6	48
230	Regulation of capillary hemodynamics by K ATP channels in resting skeletal muscle. Physiological Reports, 2021, 9, e14803.	0.7	3
231	A Brief on Biological Thermodynamics for Human Physiology. Journal of Biomechanical Engineering, 2021, 143, .	0.6	1
232	Changes in Muscle Oxygen Saturation Measured Using Wireless Near-Infrared Spectroscopy in Resistance Training: A Systematic Review. International Journal of Environmental Research and Public Health, 2021, 18, 4293.	1.2	11
233	Can Proprioceptive Training Enhance Fatigability and Decrease Progression Rate of Sarcopenia in Seniors? A Novel Approach. Current Rheumatology Reviews, 2021, 17, 58-67.	0.4	8
234	The Oxygen Cascade During Exercise in Health and Disease. Mayo Clinic Proceedings, 2021, 96, 1017-1032.	1.4	16
235	Reduced postâ€exercise muscle microvascular perfusion with compression is offset by increased muscle oxygen extraction: Assessment by contrastâ€enhanced ultrasound. FASEB Journal, 2021, 35, e21499.	0.2	9

#	Article	IF	Citations
236	Acute cardiovascular responses to a single bout of high intensity inspiratory muscle strength training in healthy young adults. Journal of Applied Physiology, 2021, 130, 1114-1121.	1.2	7
237	Thermographic assessment of the immediate and short term-effects of blood flow restriction exercise on Achilles tendon skin temperature. Physical Therapy in Sport, 2021, 49, 171-177.	0.8	3
238	Effect of propolis supplementation on athletic performance, body composition, inflammation, and oxidative stress following intense exercise: A tripleâ€blind randomized clinical trial. Food Science and Nutrition, 2021, 9, 3631-3640.	1.5	9
239	A Review on Computation Methods Used in Photoplethysmography Signal Analysis for Heart Rate Estimation. Archives of Computational Methods in Engineering, 2022, 29, 921-940.	6.0	32
240	The effect of food ration bar enriched with Î²â€alanine, Lâ€arginine, and NigellaÂsativa on performance and inflammation following intense military training: A doubleâ€blind randomized clinical trial. Food Science and Nutrition, 2021, 9, 3512-3520.	1.5	4
241	Removing energy with an exoskeleton reduces the metabolic cost of walking. Science, 2021, 372, 957-960.	6.0	52
242	Impact of presymptomatic COVID-19 on vascular and skeletal muscle function: a case study. Journal of Applied Physiology, 2021, 130, 1961-1970.	1.2	17
243	Considerations for the Pregnant Endurance Athlete. Strength and Conditioning Journal, 2021, Publish Ahead of Print, .	0.7	0
244	Effect of interval training with non-invasive ventilation in severe chronic obstructive pulmonary diseaseâ€"a prospective cohort study with matched control group. Annals of Palliative Medicine, 2021, 10, 5289-5298.	0.5	9
245	Ergojenik Destekler: Ã–zel Bir Grup "Veteran Sporcular". Ulusal Spor Bilimleri Dergisi, 0, , .	0.9	1
246	Differences of sodium consumption pattern hypertension sufferer in coastal and highland communities in Wakatobi islands. Revista Bionatura, 2021, 6, 1736-1740.	0.1	0
247	Effects of functional electro-stimulation combined with blood flow restriction in affected muscles by spinal cord injury. Neurological Sciences, 2022, 43, 603-613.	0.9	6
248	Simultaneous Application of High-Intensity Focused Electromagnetic and Synchronized Radiofrequency for Fat Disruption: Histological and Electron Microscopy Porcine Model Study. Dermatologic Surgery, 2021, 47, 1059-1064.	0.4	8
249	Effects of combined hot and hypoxic conditions on muscle blood flow and muscle oxygenation during repeated cycling sprints. European Journal of Applied Physiology, 2021, 121, 2869-2878.	1.2	13
251	Sexual dimorphism in vascular ATPâ€sensitive K + channel function supporting interstitial via convective and/or diffusive O 2 transport. Journal of Physiology, 2021, 599, 3279-3293.	1.3	2
252	Highâ€intensity exercise in hypoxia improves endothelial function via increased nitric oxide bioavailability in C57BL/6 mice. Acta Physiologica, 2021, 233, e13700.	1.8	11
253	Lower Limb Dynamic Activity Significantly Reduces Foot Skin Perfusion: Exploring Data with Different Optical Sensors in Age-Grouped Healthy Adults. Skin Pharmacology and Physiology, 2022, 35, 13-22.	1.1	4
254	Effects of Citrulline Malate Supplementation on Muscle Strength in Resistance-Trained Adults: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. Journal of Dietary Supplements, 2022, 19, 772-790.	1.4	6

#	Article	IF	Citations
255	Mitochondria and oxygen homeostasis. FEBS Journal, 2022, 289, 6959-6968.	2.2	13
256	Cardiovascular functional limitations for sprint-type tasks in health promotion sessions. Science and Sports, 2021, , .	0.2	0
257	There are no differences in brachial artery endothelial shear stress and blood flow patterns between males and females during exercise. Clinical Physiology and Functional Imaging, 2021, 41, 471-479.	0.5	3
258	Metabolomics study on the intervention effect of Radix Salviae Miltiorrhizae extract in exercise-induced exhaustion rat using gas chromatography coupled to mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2021, 1178, 122805.	1.2	6
259	The Influence of External Additional Loading on the Muscle Activity and Ground Reaction Forces during Gait. Applied Bionics and Biomechanics, 2021, 2021, 1-10.	0.5	1
260	ATP and acetylcholine interact to modulate vascular tone and Î±₁-adrenergic vasoconstriction in humans. Journal of Applied Physiology, 2021, 131, 566-574.	1.2	1
261	Intravoxel Incoherent Motion Magnetic Resonance Imaging in Skeletal Muscle: Review and Future Directions. Journal of Magnetic Resonance Imaging, 2022, 55, 988-1012.	1.9	14
262	Exercise and health: historical perspectives and new insights. Journal of Applied Physiology, 2021, 131, 575-588.	1.2	8
263	Predicted limited redistribution of T cells to secondary lymphoid tissue correlates with increased risk of haematological malignancies in asplenic patients. Scientific Reports, 2021, 11, 16394.	1.6	0
264	Effect of shape of the stenosis on the hemodynamics of a stenosed coronary artery. Physics of Fluids, 2021, 33, .	1.6	24
265	Timing of Creatine Supplementation around Exercise: A Real Concern?. Nutrients, 2021, 13, 2844.	1.7	4
266	Some Immunological Impacts of Face Mask Usage During the COVID-19 Pandemic. Pakistan Journal of Biological Sciences, 2021, 24, 920-927.	0.2	1
267	Hemodynamic modeling of the circle of Willis reveals unanticipated functions during cardiovascular stress. Journal of Applied Physiology, 2021, 131, 1020-1034.	1.2	4
268	Investigation of the Sympathetic Regulation in Delayed Onset Muscle Soreness: Results of an RCT. Frontiers in Physiology, 2021, 12, 697335.	1.3	10
269	GABA_A receptor activation modulates the muscle sympathetic nerve activity responses at the onset of static exercise in humans. Journal of Applied Physiology, 2021, 131, 1138-1147.	1.2	4
270	Passive muscle heating attenuates the decline in vascular function caused by limb disuse. Journal of Physiology, 2021, 599, 4581-4596.	1.3	6
271	Nitrateâ€rich beetroot juice ingestion reduces skeletal muscle O₂ uptake and blood flow during exercise in sedentary men. Journal of Physiology, 2021, 599, 5203-5214.	1.3	14
272	Exercise, Physical Activity, and Cardiometabolic Health. Cardiology in Review, 2022, 30, 134-144.	0.6	5

#	Article	IF	Citations
273	Olfactory receptor Olfr78 (prostate-specific G protein-coupled receptor PSGR) expression in arterioles supplying skeletal and cardiac muscles and in arterioles feeding some murine organs. Histochemistry and Cell Biology, 2021, , 1.	0.8	4
274	Energy metabolism design of the striated muscle cell. Physiological Reviews, 2021, 101, 1561-1607.	13.1	38
275	Exercise under heat stress: thermoregulation, hydration, performance implications, and mitigation strategies. Physiological Reviews, 2021, 101, 1873-1979.	13.1	152
276	Muscle blood flow is independent of conduit artery diameter following prior vasodilation in males. Physiological Reports, 2021, 9, e14698.	0.7	1
277	ATP-sensitive K+ channel inhibition in rats decreases kidney and skeletal muscle blood flow without increasing sympathetic nerve discharge. Respiratory Physiology and Neurobiology, 2020, 278, 103444.	0.7	8
279	Transcapillary PO 2 gradients in contracting muscles across the fibre type and oxidative continuum. Journal of Physiology, 2020, 598, 3187-3202.	1.3	15
280	Determinants of the physiological systems responses to muscular exercise in healthy subjects. , 0, , 1-33.		5
281	Postexercise hypotension and autonomic modulation response after full versus split body resistance exercise in trained men. Journal of Exercise Rehabilitation, 2018, 14, 399-406.	0.4	11
282	Oral adenosine 5â€²-triphosphate supplementation improved hemodynamic and autonomic parameters after exercise in hypertensive women. Journal of Exercise Rehabilitation, 2018, 14, 671-679.	0.4	10
283	Exerciseâ€induced calf muscle hyperemia: Rapid mapping of magnetic resonance imaging using deep learning approach. Physiological Reports, 2020, 8, e14563.	0.7	4
284	Muscle oxygenation, endocrine and metabolic regulation during low-intensity endurance exercise with blood flow restriction. Journal of Exercise Nutrition & Biochemistry, 2020, 24, 30-37.	1.3	9
285	The Effect of Heavy Weight Training on Physiological Abilities of Soccer Players Under the Age 21 Years Old. Acta Facultatis Educationis Physicae Universitatis Comenianae, 2019, 59, 33-43.	0.0	5
286	Contrast Enhanced Ultrasound Perfusion Imaging in Skeletal Muscle. Journal of Cardiovascular Imaging, 2019, 27, 163.	0.2	15
287	Physiological Effects of N95 FFP and PPE in Healthcare Workers in COVID Intensive Care Unit: A Prospective Cohort Study. Indian Journal of Critical Care Medicine, 2020, 24, 1169-1173.	0.3	36
288	Effects of a Single Bout of Resistance Exercise in Different Volumes on Endothelium Adaptations in Healthy Animals. Arquivos Brasileiros De Cardiologia, 2017, 108, 436-442.	0.3	7
289	Body-image and -size perception after a single session of HIIT body work in healthy adult men. Motricidade, 2018, 14, 66-73.	0.2	5
290	Cardiorespiratory Fitness, Workload, and the Blood Pressure Response to Exercise Testing. Exercise and Sport Sciences Reviews, 2022, 50, 25-30.	1.6	9
291	Long-Term Passive Leg Stretch Improves Systemic Vascular Responsiveness as much as Single-Leg Exercise Training. Medicine and Science in Sports and Exercise, 2021, Publish Ahead of Print, .	0.2	4

#	Article	IF	Citations
292	Local Metabolic Factors and Vasoactivity. , 2017, , 113-126.		0
294	Effects of bee propolis supplementation on Lysozyme and lactoferrin responses following prolonged running in recreational Athletes. International Journal of Pharma and Bio Sciences, 2017, 8, .	0.1	0
295	Shortâ€Term Ingestion of Virgin Coconut Oil Improves Endothelialâ€Dependent Dilation but not Exerciseâ€Mediated Hyperemia in Healthy Young Adults. FASEB Journal, 2018, 32, .	0.2	0
297	A comparative study of cardio-metabolic responses to exercise between untrained non-athletic young Nigerian adults and trained soccer players. Comparative Exercise Physiology, 2020, 16, 217-224.	0.3	2
299	Combined inorganic nitrate/nitrite supplementation blunts Î±-mediated vasoconstriction during exercise in patients with type 2 diabetes. Nitric Oxide - Biology and Chemistry, 2022, 118, 17-25.	1.2	5
300	Locomotor Muscle Microvascular Dysfunction in Heart Failure With Preserved Ejection Fraction. Hypertension, 2021, 78, 1750-1759.	1.3	5
301	Primary methods of adaptation of muscle fibers to physical activity and the ways of their implementation. Operativnaya Khirurgiya I Klinicheskaya Anatomiya (Pirogovskii Nauchnyi Zhurnal), 2020, 3, 28.	0.1	2
302	The Cardiovascular Response to Interval Exercise Is Modified by the Contraction Type and Training in Proportion to Metabolic Stress of Recruited Muscle Groups. Sensors, 2021, 21, 173.	2.1	3
303	A Case of Muscle Contraction-Induced Ischemic Limb Hyperemia in a Patient with Peripheral Arterial Disease during Incremental Repeat Isometric Knee Extensor Workloads. World Journal of Cardiovascular Diseases, 2020, 10, 796-808.	0.0	0
304	Exercise in Specific Diseases: Heart Transplantation and Left Ventricular Assist Device. , 2020, , 977-1009.		1
305	Cardiovascular Function. , 2020, , 285-369.		0
306	Oxygen Uptake and Anaerobic Performances. , 2020, , 149-205.		1
307	Introduction to Exercise Physiology. , 2020, , 1-31.		1
308	Resistance training prevents the reduction of insulin-mediated vasodilation in the mesenteric artery of dexamethasone-treated rats.. Anais Da Academia Brasileira De Ciencias, 2020, 92, e20200316.	0.3	1
312	Effect of Vibration Massage and Passive Rest on Recovery of Muscle Strength after Short-Term Exercise. International Journal of Environmental Research and Public Health, 2021, 18, 11680.	1.2	3
313	The Respiratory System during Intermittent-Sprint Work: Respiratory Muscle Work and the Critical Distribution of Oxygen. , 0, , .		1
315	MEHLISSA. , 2020, , .		2
316	Changes in Optical Path Length Reveal Significant Potential Errors of Muscle Oxygenation Evaluation during Exercise in Humans. Medicine and Science in Sports and Exercise, 2021, 53, 853-859.	0.2	2

#	Article	IF	Citations
317	Energiestoffwechsel. , 2022, , 117-129.		0
318	Association between cardiorespiratory fitness and metabolic health in overweight and obese adults. Journal of Sports Medicine and Physical Fitness, 2022, 62, .	0.4	3
319	Insulin, Muscle Glucose Uptake, and Hexokinase: Revisiting the Road Not Taken. Physiology, 2022, 37, 115-127.	1.6	14
320	Autonomic control of cerebral blood flow: fundamental comparisons between peripheral and cerebrovascular circulations in humans. Journal of Physiology, 2022, 600, 15-39.	1.3	25
321	The root of the matter: nitrateâ€rich beetroot juice reduces skeletal muscle O₂ uptake during exercise. Journal of Physiology, 2022, 600, 5-7.	1.3	0
322	Impact of Physical Activity and Exercise on the Epigenome in Skeletal Muscle and Effects on Systemic Metabolism. Biomedicines, 2022, 10, 126.	1.4	18
323	Proposed mechanism for rare thrombotic events after use of some Covid-19 vaccines. Medical Hypotheses, 2022, 159, 110756.	0.8	2
324	Effect of acute sympathetic activation on leg vasodilation before and after endurance exercise. Journal of Smooth Muscle Research, 2021, 57, 53-67.	0.7	6
325	Endothelial Piezo1 sustains muscle capillary density and contributes to physical activity. Journal of Clinical Investigation, 2022, 132, .	3.9	23
326	Muscle Oxygenation during Repeated Cycling Sprints in a Combined Hot and Hypoxic Condition. International Journal of Sports Medicine, 2022, , .	0.8	2
327	Effects of Resistance Training on Skin Temperature and Its Relationship with Central Nervous System (CNS) Activation. Healthcare (Switzerland), 2022, 10, 207.	1.0	3
328	Physiological Function during Exercise and Environmental Stress in Humansâ€"An Integrative View of Body Systems and Homeostasis. Cells, 2022, 11, 383.	1.8	16
329	The effect of the protective face mask on cardiorespiratory response during aerobic exercise. Clinical and Experimental Pharmacology and Physiology, 2022, 49, 453-461.	0.9	9
330	Acute cardiac autonomic and haemodynamic responses to leg and arm isometric exercise. European Journal of Applied Physiology, 2022, 122, 975-985.	1.2	2
331	A controlled clinical study of product PINOROXÂ® (Pinus roxburghii bark extract) (PINOROXÂ®) as dietary supplement for enhanced physical performance. Journal of the Indian Chemical Society, 2022, 99, 100325.	1.3	0
332	Insulin resistance-related differences in the relationship between left ventricular hypertrophy and cardiorespiratory fitness in hypertensive Black sub-Saharan Africans. American Journal of Cardiovascular Disease, 2021, 11, 587-600.	0.5	0
334	The Identification and Management of High Blood Pressure Using Exercise Blood Pressure: Current Evidence and Practical Guidance. International Journal of Environmental Research and Public Health, 2022, 19, 2819.	1.2	4
335	Comparison of the Effects of 6 Weeks of Traditional and Wrestling-Technique-Based Circuit Training on the Blood Levels of Lactate, Lactate Dehydrogenase, Glucose, and Insulin in Young Male Wrestlers. Thrita, 2022, 10, .	0.4	1

#	Article	IF	Citations
336	The behaviour of T2* and T2 relaxation time in extrinsic foot muscles under continuous exercise: A prospective analysis during extended running. PLoS ONE, 2022, 17, e0264066.	1.1	4
337	Accelerated Muscle Deoxygenation in Aerobically Fit Subjects During Exhaustive Exercise Is Associated With the ACE Insertion Allele. Frontiers in Sports and Active Living, 2022, 4, 814975.	0.9	3
338	Reframing How Physical Activity Reduces The Incidence of Clinically-Diagnosed Cancers: Appraising Exercise-Induced Immuno-Modulation As An Integral Mechanism. Frontiers in Oncology, 2022, 12, 788113.	1.3	18
339	The effects of wholeâ€body vibration amplitude on glucose metabolism, inflammation, and skeletal muscle oxygenation. Physiological Reports, 2022, 10, e15208.	0.7	3
340	Multichromatic near-infrared imaging to assess interstitial lymphatic and venous uptake in vivo. Journal of Biomedical Optics, 2021, 26, .	1.4	4
341	Role of the heart and arterial tree in physiologic adjustments during exercise. , 2022, , 527-544.		0
342	CARDIOCYTOPROTECTION â€“ THE OBJECTIVATED POSSIBILITIES AT CARDIOVASCULAR DISEASES. Clinical & Experimental Pathology, 2022, 20, .	0.0	0
343	Aging alters gastrocnemius muscle hemoglobin oxygen saturation (StO2) characteristics in healthy individuals. European Journal of Applied Physiology, 2022, 122, 1509-1520.	1.2	4
344	Acute changes in forearm vascular compliance during transient sympathoâ€excitation. Physiological Reports, 2022, 10, e15256.	0.7	1
346	CEUSâ€assessed supraspinatus muscle perfusion improves after tendon repair and predicts anatomical and functional outcome: A 1â€year prospective pilot study. Journal of Orthopaedic Research, 2023, 41, 426-435.	1.2	2
347	Tissue Drug Concentration. Current Pharmaceutical Design, 2022, 28, 1109-1123.	0.9	3
349	The Use of Percutaneous Thermal Sensing Microchips to Measure Body Temperature in Horses during and after Exercise Using Three Different Cool-Down Methods. Animals, 2022, 12, 1267.	1.0	4
350	Muscle Microcirculatory Responses to Incremental Exercises Are Correlated with Peak Oxygen Uptake in Individuals With and Without Type 2 Diabetes Mellitus. Metabolic Syndrome and Related Disorders, 2022, , .	0.5	0
351	Augmented muscle deoxygenation during repeated sprint exercise with postâ€exercise blood flow restriction. Physiological Reports, 2022, 10, e15294.	0.7	5
352	Variability in the Aerobic Fitness-Related Dependence on Respiratory Processes During Muscle Work Is Associated With the ACE-I/D Genotype. Frontiers in Sports and Active Living, 0, 4, .	0.9	4
353	The assessment of acute chorioretinal changes due to intensive physical exercise in young adults. PLoS ONE, 2022, 17, e0268770.	1.1	2
354	Creatine O'Clock: Does Timing of Ingestion Really Influence Muscle Mass and Performance?. Frontiers in Sports and Active Living, 0, 4, .	0.9	4
355	Nonâ€invasive MR imaging techniques for measuring femoral arterial flow in a pediatric and adolescent cohort. Physiological Reports, 2022, 10, .	0.7	2

#	Article	IF	Citations
356	IVIM Imaging of Paraspinal Muscles Following Moderate and High-Intensity Exercise in Healthy Individuals. Frontiers in Rehabilitation Sciences, 2022, 3, .	0.5	1
358	On the hemodynamic consequence of the chemoreflex and muscle mechanoreflex interaction in women and men: two tales, one story. Journal of Physiology, 0, , .	1.3	4
359	Effects of wearing different facial masks on respiratory symptoms, oxygen saturation, and functional capacity during six-minute walk test in healthy subjects. Canadian Journal of Respiratory Therapy, 0, 58, 85-90.	0.2	7
360	Protein and Sport: Alternative Sources and Strategies for Bioactive and Sustainable Sports Nutrition. Frontiers in Nutrition, 0, 9, .	1.6	12
361	Activation of AMPK/miR-181b Axis Alleviates Endothelial Dysfunction and Vascular Inflammation in Diabetic Mice. Antioxidants, 2022, 11, 1137.	2.2	11
362	Impact of Interrepetition Rest on Muscle Blood Flow and Exercise Tolerance during Resistance Exercise. Medicina (Lithuania), 2022, 58, 822.	0.8	0
363	Global REACH 2018: increased adrenergic restraint of blood flow preserves coupling of oxygen delivery and demand during exercise at highâ€altitude. Journal of Physiology, 0, , .	1.3	5
364	Matching of O2 Utilization and O2 Delivery in Contracting Skeletal Muscle in Health, Aging, and Heart Failure. Frontiers in Physiology, 0, 13, .	1.3	9
366	Modulating Energy Among Foot-Ankle Complex With an Unpowered Exoskeleton Improves Human Walking Economy. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 1961-1970.	2.7	2
367	Working Station Model Based on Mathematic Model of Anthropometry for Embroidery Workers. Open Access Macedonian Journal of Medical Sciences, 2022, 10, 965-970.	0.1	0
368	Plant-Based Foods and Vascular Function: A Systematic Review of Dietary Intervention Trials in Older Subjects and Hypothesized Mechanisms of Action. Nutrients, 2022, 14, 2615.	1.7	8
369	Could respiration-driven blood oxygen changes modulate neural activity?. Pflugers Archiv European Journal of Physiology, 2023, 475, 37-48.	1.3	3
370	Brachial artery blood flow by vascular ultrasound in education. American Journal of Physiology - Advances in Physiology Education, 0, , .	0.8	0
371	An effective and costâ€saving structured education program teaching <scp>dynamic</scp> glucose management strategies to a socioâ€economically deprived cohort with type 1 diabetes in a <scp>VIRTUAL</scp> setting. Pediatric Diabetes, 2022, 23, 1045-1056.	1.2	5
372	Effects of Pulsatile Flow Rate and Shunt Ratio in Bifurcated Distal Arteries on Hemodynamic Characteristics Involved in Two Patient-Specific Internal Carotid Artery Sidewall Aneurysms: A Numerical Study. Bioengineering, 2022, 9, 326.	1.6	5
373	Baseline Hemodynamics Including Aortic and Pulmonary Blood Flow in a Chronic Bovine Model. Surgeries, 2022, 3, 192-202.	0.3	0
374	Sex-Specific Effects on Exercise Metabolism. Physiology in Health and Disease, 2022, , 337-356.	0.2	1
375	Comparison of systemic and peripheral responses during high-intensity interval exercise under voluntary hypoventilation vs. hypoxic conditions. Physical Activity and Nutrition, 2022, 26, 008-016.	0.4	0

#	Article	IF	Citations
377	The physiological, perceptual, and thermoregulatory responses to facemask use during exercise: a review. Journal of Sports Medicine and Physical Fitness, 0, , .	0.4	0
378	Real-time metabolic monitoring under exhaustive exercise and evaluation of ventilatory threshold by breathomics: Independent validation of evidence and advances. Frontiers in Physiology, 0, 13, .	1.3	11
379	Outcomes of Genetic Testing-Based Cardiac Rehabilitation Program in Patients with Acute Myocardial Infarction after Percutaneous Coronary Intervention. Cardiology Research and Practice, 2022, 2022, 1-10.	0.5	0
380	The Impact of Body Posture on Heart Rate Strain during Tree Felling. International Journal of Environmental Research and Public Health, 2022, 19, 11198.	1.2	8
381	Acute effect of resistance exercise at different velocities on stiffness and vascularity of the biceps brachii muscle: a preliminary study. Acta Radiologica, 0, , 028418512211253.	0.5	0
382	Non-Uniform Excitation of Pectoralis Major Induced by Changes in Bench Press Inclination Leads to Uneven Variations in the Cross-Sectional Area Measured by Panoramic Ultrasonography. SSRN Electronic Journal, 0, , .	0.4	0
383	Intrafasciomembranal Fluid Pressure: A Novel Approach to the Etiology of Myalgias. Cureus, 2022, , .	0.2	1
384	Capillary communication: the role of capillaries in sensing the tissue environment, coordinating the microvascular, and controlling blood flow. American Journal of Physiology - Heart and Circulatory Physiology, 2022, 323, H1019-H1036.	1.5	4
385	New Horizons in Carbohydrate Research and Application for Endurance Athletes. Sports Medicine, 2022, 52, 5-23.	3.1	15
386	Does sympathetic vasoconstriction contribute to metabolism: Perfusion matching in exercising skeletal muscle?. Frontiers in Physiology, 0, 13, .	1.3	5
387	Current aspects of high-intensity interval training for older adults: a narrative review. The Journal of Physical Fitness and Sports Medicine, 2022, 11, 263-278.	0.2	0
388	The Janus-faced role of Piezo1 in cardiovascular health under mechanical stimulation. Genes and Diseases, 2023, 10, 1956-1968.	1.5	2
389	Assessing functional sympatholysis during rhythmic handgrip exercise using Doppler ultrasound and near-infrared spectroscopy: sex differences and test-retest reliability. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2022, 323, R810-R821.	0.9	6
390	Effects of Combined Inorganic Nitrate and Nitrite Supplementation on Cardiorespiratory Fitness and Skeletal Muscle Oxidative Capacity in Type 2 Diabetes: A Pilot Randomized Controlled Trial. Nutrients, 2022, 14, 4479.	1.7	1
391	Eight weeks of inorganic nitrate/nitrite supplementation improves aerobic exercise capacity and the gas exchange threshold in patients with type 2 diabetes. Journal of Applied Physiology, 2022, 133, 1407-1414.	1.2	1
392	Cross-Sectional Associations of Body Adiposity, Sedentary Behavior, and Physical Activity with Hemoglobin and White Blood Cell Count. International Journal of Environmental Research and Public Health, 2022, 19, 14347.	1.2	3
393	Mechanisms that underlie blood flow regulation at rest and during exercise. American Journal of Physiology - Advances in Physiology Education, 0, , .	0.8	0
395	Non-uniform excitation of pectoralis major induced by changes in bench press inclination leads to uneven variations in the cross-sectional area measured by panoramic ultrasonography. Journal of Electromyography and Kinesiology, 2022, 67, 102722.	0.7	3

#	Article	IF	Citations
396	Independent effects of acute normobaric hypoxia and hypobaric hypoxia on human physiology. Scientific Reports, 2022, 12, .	1.6	6
397	Acute circulatory and femoral hemodynamic responses induced by standing core exercise at different rotational cadence: a crossover study. BMC Sports Science, Medicine and Rehabilitation, 2022, 14, .	0.7	1
398	Local Metabolic Factors and Vasoactivity. , 2022, , 153-171.		0
399	Cerebral Vasoreactivity. , 2022, , 335-352.		0
400	Potential physiological responses contributing to the ergogenic effects of acute ischemic preconditioning during exercise: A narrative review. Frontiers in Physiology, 0, 13, .	1.3	3
401	Causal Associations Between Cardiovascular Risk Factors and Venous Thromboembolism. Seminars in Thrombosis and Hemostasis, 2023, 49, 679-687.	1.5	5
402	Short hydration education video and hiker fluid selection and consumption at trails, a non-randomized quasi-experimental field study. Nutrition and Health, 0, , 026010602211503.	0.6	0
403	Faster triceps surae muscle cyclic contractions alter muscle activity and whole body metabolic rate. Journal of Applied Physiology, 2023, 134, 395-404.	1.2	7
404	Do Sports Compression Garments Alter Measures of Peripheral Blood Flow? A Systematic Review with Meta-Analysis. Sports Medicine, 2023, 53, 481-501.	3.1	1
405	Independent Relevance of Different Measures of Adiposity for Carotid Intimaâ€Media Thickness in 40â€‰000 Adults inÂUK Biobank. Journal of the American Heart Association, 2023, 12, .	1.6	3
407	Haemodynamics and oxygenation in the lowerâ€limb muscles of young ambulatory adults with cerebral palsy. Developmental Medicine and Child Neurology, 0, , .	1.1	0
408	Advanced Strategies of Drug Delivery via Oral, Topical, and Parenteral Administration Routes: Where Do Equine Medications Stand?. Pharmaceutics, 2023, 15, 186.	2.0	4
409	The molecular athlete: exercise physiology from mechanisms to medals. Physiological Reviews, 2023, 103, 1693-1787.	13.1	19
410	Causal relationship between moderate to vigorous physical activity and venous thromboembolism. Journal of Thrombosis and Thrombolysis, 2023, 55, 576-583.	1.0	2
411	Skeletal muscle mechanisms contributing to improved glycemic control following intense interval exercise and training. Sports Medicine and Health Science, 2023, 5, 20-28.	0.7	8
412	Vascular and Neural Response to Focal Vibration, Sensory Feedback, and Piezo Ion Channel Signaling. , 2023, 2, 42-90.		0
413	Dose-response and temporal ergogenic effects of ginseng supplementation in athletes and active participants: A systematic review and meta-analysis. Journal of Sports Sciences, 2022, 40, 2444-2460.	1.0	2
414	Catecholamines and blood pressure regulation. , 2023, , 19-34.		0

#	Article	IF	Citations
415	Vascular Responses to Passive and Active Movement in Premenopausal Females: Comparisons across Sex and Menstrual Cycle Phase. Medicine and Science in Sports and Exercise, 2023, 55, 900-910.	0.2	1
416	Ischemic Preconditioning Acutely Improves Functional Sympatholysis during Handgrip Exercise in Healthy Males but not Females. Medicine and Science in Sports and Exercise, 2023, 55, 1250-1257.	0.2	3
417	Renal blood flow during exercise: understanding its measurement with Doppler ultrasound. Journal of Applied Physiology, 2023, 134, 1004-1010.	1.2	3
418	Impact of Sex and Exercise on Femoral Artery Function: More Favorable Adaptation in Male Rats. Life, 2023, 13, 778.	1.1	0
419	Cardio-Respiratory and Muscle Oxygenation Responses to Submaximal and Maximal Exercise in Normobaric Hypoxia: Comparison between Children and Adults. Biology, 2023, 12, 457.	1.3	0
420	Exercise-related leg muscle signal changes: assessment using diffusion-weighted MRI. European Radiology Experimental, 2023, 7, .	1.7	0
421	Hemoglobin levels as a surrogate marker of sarcopenia in patients with liver cirrhosis. Hepatology Research, 2023, 53, 713-722.	1.8	2
422	Review on modelling approaches of thermoregulation mechanisms. Journal of Thermal Analysis and Calorimetry, 2023, 148, 9343-9360.	2.0	1
423	Sympathetic and hemodynamic responses to exercise in heart failure with preserved ejection fraction. Frontiers in Cardiovascular Medicine, 0, 10, .	1.1	1
424	Surya namaskar: As an alternative for aerobic fitness. International Journal of Yoga, 2022, 15, 163.	0.4	0
425	Exercise physiology in women and men. , 2023, , 573-587.		0
429	Editorial: Cross-talk between heterogeneous cell types in skeletal muscle: implications for glucose metabolism. Frontiers in Endocrinology, 0, 14, .	1.5	0
444	Contribution of the Antiepileptic Drug Administration Regime to Avoid the Development and/or Establishment of Pharmacoresistant Epilepsy. , 2023, , 157-176.		0
450	MRI of skeletal muscle perfusion. Advances in Magnetic Resonance Technology and Applications, 2023, , 513-540.	0.0	0
453	Vasoreactivity MRI. Advances in Magnetic Resonance Technology and Applications, 2023, , 109-132.	0.0	0