Philip J Millar

List of Publications by Year
in descending order

90 papers	2,049 citations	236925 25 h-index	265206 42 g-index
90 all docs	90 docs citations	90 times ranked	2415 citing authors

#	Article	IF	Citations
1	Reply to Fadel et al.. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2022, 322, R123-R125.	1.8	2
2	Elevated muscle sympathetic activity in former smokers with heart failure. Clinical Autonomic Research, 2022, , 1.	2.5	0
3	Potentiation of GABAergic synaptic transmission by diazepam acutely increases resting beat-to-beat blood pressure variability in young adults. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2022, 322, R501-R510.	1.8	2
4	Autonomic and neuroendocrine modulation of arterial stiffness and hemodynamics. , 2022, , 369-390.		0
5	Sympathetic transduction of blood pressure during graded lower body negative pressure in young healthy adults. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2022, 322, R620-R628.	1.8	10
6	Blood flow restriction and stimulated muscle contractions do not improve metabolic or vascular outcomes following glucose ingestion in young, active individuals. Journal of Applied Physiology, 2022, 133, 75-86.	2.5	4
7	Neuroprosthetic baroreflex controls haemodynamics after spinal cord injury. Nature, 2021, 590, 308-314.	27.8	96
8	Remote ischemic conditioning for acute respiratory distress syndrome in COVID-19. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2021, 320, L331-L338.	2.9	1
9	Habitual cannabis use is associated with altered cardiac mechanics and arterial stiffness, but not endothelial function in young healthy smokers. Journal of Applied Physiology, 2021, 130, 660-670.	2.5	4
10	Comparison of Cortical Autonomic Network-Linked Sympathetic Excitation by Mueller Maneuvers and Breath-Holds in Subjects With and Without Obstructive Sleep Apnea. Frontiers in Physiology, 2021, 12, 678630.	2.8	3
11	Exercise alters cardiac function independent of acute systemic inflammation in healthy men. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 320, H1762-H1773.	3.2	1
12	Perception of effort during an isometric contraction is influenced by prior muscle lengthening or shortening. European Journal of Applied Physiology, 2021, 121, 2531-2542.	2.5	4
13	Muscle Metaboreflex Control of Sympathetic Activity Is Preserved following Acute Intermittent Hypercapnic Hypoxia. Medicine and Science in Sports and Exercise, 2021, Publish Ahead of Print, 2233-2244.	0.4	6
14	Muscle sympathetic single-unit responses during rhythmic handgrip exercise and isocapnic hypoxia in males: the role of sympathoexcitation magnitude. Journal of Neurophysiology, 2021, 126, 170-180.	1.8	4
15	Sex Differences in Muscle Metaboreflex Activation after Static Handgrip Exercise. Medicine and Science in Sports and Exercise, 2021, 53, 2596-2604.	0.4	24
16	Postprandial superior mesenteric artery blood flow is related to changes in peripheral pulse wave harmonics and heart rate: implications for wearable technology?. Journal of Applied Physiology, 2021, 131, 681-688.	2.5	3
17	Blood pressure oscillations impact signal-averaged sympathetic transduction of blood pressure: implications for the association with resting sympathetic outflow. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 321, H798-H806.	3.2	8
18	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.	2.5	4

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19	Heart failure-specific inverse relationship between the muscle sympathetic response to dynamic leg exercise and Vl‡O2peak. Applied Physiology, Nutrition and Metabolism, 2021, 46, 1119-1125.	1.9	7
20	Signal-averaged resting sympathetic transduction of blood pressure: is it time to account for prevailing muscle sympathetic burst frequency?. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2021, 321, R484-R494.	1.8	16
21	Effects of muscle sympathetic burst size and burst pattern on time-to-peak sympathetic transduction. Applied Physiology, Nutrition and Metabolism, 2021, 46, 1-7.	1.9	11
22	Vascular Function Is Differentially Altered by Distance after Prolonged Running. Medicine and Science in Sports and Exercise, 2021, 53, 597-605.	0.4	8
23	Lower sympathetic transduction of blood pressure in uncontrolled hypertensives: physiological adaptation, methodological limitation, or both?. Journal of Human Hypertension, 2021, , .	2.2	1
24	Alterations in Cardiac Function Following Endurance Exercise Are Not Duration Dependent. Frontiers in Physiology, 2020, 11, 581797.	2.8	11
25	Sympathetic neural modulation of arterial stiffness in humans. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 319, H1338-H1346.	3.2	41
26	Muscle sympathetic single-unit response patterns during progressive muscle metaboreflex activation in young healthy adults. Journal of Neurophysiology, 2020, 124, 682-690.	1.8	4
27	Influence of Sex and Age on Muscle Sympathetic Nerve Activity of Healthy Normotensive Adults. Hypertension, 2020, 76, 997-1005.	2.7	60
28	Sympathetic arterial baroreflex hysteresis in humans: different patterns during low- and high-pressure levels. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 319, H787-H792.	3.2	3
29	Looking beyond the mean: Are racial differences in beatâ€toâ€beat blood pressure variability among young men a harbinger for future cardiovascular risk?. Experimental Physiology, 2020, 105, 1055-1057.	2.0	1
30	Within-breath sympathetic baroreflex sensitivity is modulated by lung volume but unaffected by acute intermittent hypercapnic hypoxia in men. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 319, H213-H221.	3.2	11
31	Arterial baroreflex regulation of muscle sympathetic single-unit activity in men: influence of resting blood pressure. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 318, H937-H946.	3.2	13
32	Case Studies in Physiology: Sympathetic neural discharge patterns in a healthy young male during end-expiratory breath hold-induced sinus pause. Journal of Applied Physiology, 2020, 129, 230-237.	2.5	1
33	New insights into the complexity of arterial baroreflex control of muscle sympathetic outflow in humans. Journal of Physiology, 2020, 598, 1803-1804.	2.9	0
34	Microneurographic characterization of sympathetic responses during 1-leg exercise in young and middle-aged humans. Applied Physiology, Nutrition and Metabolism, 2019, 44, 194-199.	1.9	9
35	Arterial baroreflex regulation of muscle sympathetic nerve activity at rest and during stress. Journal of Physiology, 2019, 597, 4729-4741.	2.9	17
36	Training heart failure patients with reduced ejection fraction attenuates muscle sympathetic nerve activation during mild dynamic exercise. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2019, 317, R503-R512.	1.8	21

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37	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.	2.5	6
38	Simultaneous assessment of central and peripheral chemoreflex regulation of muscle sympathetic nerve activity and ventilation in healthy young men. Journal of Physiology, 2019, 597, 3281-3296.	2.9	48
39	Heart Failureâ€"Specific Relationship Between Muscle Sympathetic Nerve Activity and Aortic Wave Reflection. Journal of Cardiac Failure, 2019, 25, 404-408.	1.7	11
40	Effect of Trendelenburg position and lower-body positive pressure on neck fluid distribution. Journal of Applied Physiology, 2019, 126, 1259-1264.	2.5	2
41	Docosahexaenoic acid reduces resting blood pressure but increases muscle sympathetic outflow compared with eicosapentaenoic acid in healthy men and women. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H873-H881.	3.2	21
42	Cardiovascular responses during isometric exercise following lengthening and shortening contractions. Journal of Applied Physiology, 2019, 126, 278-285.	2.5	6
43	Evidence for differential control of muscle sympathetic single units during mild sympathoexcitation in young, healthy humans. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H13-H23.	3.2	14
44	Muscle Sympathetic Activity Kinetics during Oneâ€leg Cycling in Men and Women with and without Heart Failure: Evidence for Preserved Cardiopulmonary Baroreflex Sympathoinhibition. FASEB Journal, 2019, 33, 860.12.	0.5	0
45	Comparative Assessment of Central and Peripheral Chemoreceptor Reflex Regulation of Muscle Sympathetic Nerve Activity and Ventilation. FASEB Journal, 2019, 33, 560.2.	0.5	0
46	Moderate and severe hypoxia elicit divergent effects on cardiovascular function and physiological rhythms. Journal of Physiology, 2018, 596, 3391-3410.	2.9	15
47	Comparison of laboratory and ambulatory measures of central blood pressure and pulse wave reflection: hitting the target or missing the mark?. Journal of the American Society of Hypertension, 2018, 12, 275-284.	2.3	7
48	Cortical autonomic network gray matter and sympathetic nerve activity in obstructive sleep apnea. Sleep, 2018, 41, .	1.1	31
49	Hypertensive Response With Exercise to Reveal Increased Cardiovascular Risk in Adults With Aortic Coarctation Repair: Value and Caution. Canadian Journal of Cardiology, 2018, 34, 536-539.	1.7	0
50	Interindividual variability in muscle sympathetic responses to static handgrip in young men: evidence for sympathetic responder types?. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2018, 314, R114-R121.	1.8	12
51	Muscle sympathetic nerve responses to passive and active one-legged cycling: insights into the contributions of central command. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 314, H3-H10.	3.2	20
52	Muscle Strength Influences Pressor Responses to Static Handgrip in Men and Women. Medicine and Science in Sports and Exercise, 2018, 50, 778-784.	0.4	30
53	TRPV1 and BDKRB2 receptor polymorphisms can influence the exercise pressor reflex. Journal of Physiology, 2018, 596, 5135-5148.	2.9	18
54	Pharmacological assessment of the arterial baroreflex in a young healthy obese male with extremely low baseline muscle sympathetic nerve activity. Clinical Autonomic Research, 2018, 28, 593-595.	2.5	4

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55	Evidence for Pressureâ€Independent Sympathetic Modulation of Central Pulse Wave Velocity. Journal of the American Heart Association, 2018, 7, .	3.7	39
56	Three Weeks of Overload Training Increases Resting Muscle Sympathetic Activity. Medicine and Science in Sports and Exercise, 2018, 50, 928-937.	0.4	12
57	Acute beetroot juice supplementation on sympathetic nerve activity: a randomized, double-blind, placebo-controlled proof-of-concept study. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 313, H59-H65.	3.2	57
58	Commentaries on Viewpoint: Could small-diameter muscle afferents be responsible for the ergogenic effect of limb ischemic preconditioning?. Journal of Applied Physiology, 2017, 122, 721-725.	2.5	5
59	Ischemic preconditioning does not alter muscle sympathetic responses to static handgrip and metaboreflex activation in young healthy men. Physiological Reports, 2017, 5, e13342.	1.7	18
60	Cutaneous Mechanoreceptor Feedback from the Hand and Foot Can Modulate Muscle Sympathetic Nerve Activity. Frontiers in Neuroscience, 2016, 10, 568.	2.8	11
61	Isometric exercise training lowers resting blood pressure and improves local brachial artery flow-mediated dilationÂequally in men and women. European Journal of Applied Physiology, 2016, 116, 1289-1296.	2.5	62
62	Arousal From Sleep and Sympathetic Excitation During Wakefulness. Hypertension, 2016, 68, 1467-1474.	2.7	74
63	Authorâ€™s reply to da Mota and Marocolo: â€œThe Effects of Ischemic Preconditioning on Human Exercise Performance: a Counterpointâ€• Sports Medicine, 2016, 46, 1577-1578.	6.5	3
64	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.	2.5	40
65	Association between resting-state brain functional connectivity and muscle sympathetic burst incidence. Journal of Neurophysiology, 2016, 115, 662-673.	1.8	33
66	The Effects of Ischemic Preconditioning on Human Exercise Performance. Sports Medicine, 2016, 46, 531-544.	6.5	108
67	Uncovering the mechanisms for statinâ€mediated dysglycaemia: role of Rac1?. Journal of Physiology, 2015, 593, 2237-2238.	2.9	0
68	Paradoxical Muscle Sympathetic Reflex Activation in Human Heart Failure. Circulation, 2015, 131, 459-468.	1.6	62
69	Muscle sympathetic activity in resting and exercising humans with and without heart failure. Applied Physiology, Nutrition and Metabolism, 2015, 40, 1107-1115.	1.9	22
70	Divergent muscle sympathetic responses to dynamic leg exercise in heart failure and ageâ€matched healthy subjects. Journal of Physiology, 2015, 593, 715-722.	2.9	49
71	Statins and the autonomic nervous system. Clinical Science, 2014, 126, 401-415.	4.3	55
72	Evidence for the Role of Isometric Exercise Training in Reducing Blood Pressure: Potential Mechanisms and Future Directions. Sports Medicine, 2014, 44, 345-356.	6.5	128

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73	Exercise as medicine: Role in the management of primary hypertension. Applied Physiology, Nutrition and Metabolism, 2014, 39, 856-858.	1.9	5
74	Isometric Exercise Training for Blood Pressure Management: A Systematic Review and Meta-analysis. Mayo Clinic Proceedings, 2014, 89, 327-334.	3.0	217
75	Inverse Relationship Between Muscle Sympathetic Activity During Exercise and Peak Oxygen Uptake in Subjects With and Without Heart Failure. Journal of the American College of Cardiology, 2014, 63, 605-606.	2.8	15
76	Singleâ€unit muscle sympathetic recordings identify in human heart failure unique fibers discharging in response to both unloading and loading of cardiopulmonary receptors (LB735). FASEB Journal, 2014, 28, LB735.	0.5	0
77	Reduced heart rate variability and baroreflex sensitivity in normotensive children with repaired coarctation of the aorta. International Journal of Cardiology, 2013, 168, 587-588.	1.7	6
78	Simvastatin reduces sympathetic outflow and augments endothelium-independent dilation in non-hyperlipidaemic primary hypertension. Heart, 2013, 99, 240-246.	2.9	26
79	Microneurographic evidence in healthy middle-aged humans for a sympathoexcitatory reflex activated by atrial pressure. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 305, H931-H938.	3.2	39
80	Sexâ€differences in the effects of isometric handgrip training on resting blood pressure and resistance vessel function. FASEB Journal, 2013, 27, 1132.21.	0.5	0
81	Neurogenic Retrograde Arterial Flow During Obstructive Sleep Apnea: A Novel Mechanism for Endothelial Dysfunction?. Hypertension, 2011, 58, e17-8.	2.7	12
82	Effects of autonomic blockade on nonlinear heart rate dynamics. Clinical Autonomic Research, 2010, 20, 241-247.	2.5	25
83	Isometric handgrip exercise improves acute neurocardiac regulation. European Journal of Applied Physiology, 2009, 107, 509-515.	2.5	50
84	Effects of short-term training on heart rate dynamics in individuals with spinal cord injury. Autonomic Neuroscience: Basic and Clinical, 2009, 150, 116-121.	2.8	35
85	Heart rate variability and nonlinear analysis of heart rate dynamics following single and multiple Wingate bouts. Applied Physiology, Nutrition and Metabolism, 2009, 34, 875-883.	1.9	32
86	Cardiovascular reactivity to psychophysiological stressors: association with hypotensive effects of isometric handgrip training. Blood Pressure Monitoring, 2009, 14, 190-195.	0.8	12
87	The Hypotensive Effects of Isometric Handgrip Training Using an Inexpensive Spring Handgrip Training Device. Journal of Cardiopulmonary Rehabilitation and Prevention, 2008, 28, 203-207.	2.1	71
88	Effects of isometric handgrip training among people medicated for hypertension: a multilevel analysis. Blood Pressure Monitoring, 2007, 12, 307-314.	0.8	69
89	Action potential amplitude and baroreflex resetting of action potential clusters mediate hypoxiaâ€induced sympathetic longâ€term facilitation. Journal of Physiology, 0, , .	2.9	1
90	Autonomic modulation in heart failure patients by cardiopulmonary rehabilitation: who benefits?. European Journal of Preventive Cardiology, 0, , .	1.8	0