

Philip J Millar

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

2,049
citations

236612

25
h-index

264894

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.	0.9	2
2	Elevated muscle sympathetic activity in former smokers with heart failure. Clinical Autonomic Research, 2022, , 1.	1.4	0
3	Potential 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.	0.9	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.	0.9	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.	1.2	4
7	Neuroprosthetic baroreflex controls haemodynamics after spinal cord injury. Nature, 2021, 590, 308-314.	13.7	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.	1.3	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.	1.2	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.	1.3	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.	1.5	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.	1.2	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.	0.2	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.	0.9	4
15	Sex Differences in Muscle Metaboreflex Activation after Static Handgrip Exercise. Medicine and Science in Sports and Exercise, 2021, 53, 2596-2604.	0.2	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.	1.2	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.	1.5	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.	1.2	4

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19	Heart failure-specific inverse relationship between the muscle sympathetic response to dynamic leg exercise and $\dot{V}\dot{O}_2$ peak. <i>Applied Physiology, Nutrition and Metabolism</i> , 2021, 46, 1119-1125.	0.9	7
20	Signal-averaged resting sympathetic transduction of blood pressure: is it time to account for prevailing muscle sympathetic burst frequency?. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2021, 321, R484-R494.	0.9	16
21	Effects of muscle sympathetic burst size and burst pattern on time-to-peak sympathetic transduction. <i>Applied Physiology, Nutrition and Metabolism</i> , 2021, 46, 1-7.	0.9	11
22	Vascular Function Is Differentially Altered by Distance after Prolonged Running. <i>Medicine and Science in Sports and Exercise</i> , 2021, 53, 597-605.	0.2	8
23	Lower sympathetic transduction of blood pressure in uncontrolled hypertensives: physiological adaptation, methodological limitation, or both?. <i>Journal of Human Hypertension</i> , 2021, , .	1.0	1
24	Alterations in Cardiac Function Following Endurance Exercise Are Not Duration Dependent. <i>Frontiers in Physiology</i> , 2020, 11, 581797.	1.3	11
25	Sympathetic neural modulation of arterial stiffness in humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 319, H1338-H1346.	1.5	41
26	Muscle sympathetic single-unit response patterns during progressive muscle metaboreflex activation in young healthy adults. <i>Journal of Neurophysiology</i> , 2020, 124, 682-690.	0.9	4
27	Influence of Sex and Age on Muscle Sympathetic Nerve Activity of Healthy Normotensive Adults. <i>Hypertension</i> , 2020, 76, 997-1005.	1.3	60
28	Sympathetic arterial baroreflex hysteresis in humans: different patterns during low- and high-pressure levels. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 319, H787-H792.	1.5	3
29	Looking beyond the mean: Are racial differences in beat-to-beat blood pressure variability among young men a harbinger for future cardiovascular risk?. <i>Experimental Physiology</i> , 2020, 105, 1055-1057.	0.9	1
30	Within-breath sympathetic baroreflex sensitivity is modulated by lung volume but unaffected by acute intermittent hypercapnic hypoxia in men. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 319, H213-H221.	1.5	11
31	Arterial baroreflex regulation of muscle sympathetic single-unit activity in men: influence of resting blood pressure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 318, H937-H946.	1.5	13
32	Case Studies in Physiology: Sympathetic neural discharge patterns in a healthy young male during end-expiratory breath hold-induced sinus pause. <i>Journal of Applied Physiology</i> , 2020, 129, 230-237.	1.2	1
33	New insights into the complexity of arterial baroreflex control of muscle sympathetic outflow in humans. <i>Journal of Physiology</i> , 2020, 598, 1803-1804.	1.3	0
34	Microneurographic characterization of sympathetic responses during 1-leg exercise in young and middle-aged humans. <i>Applied Physiology, Nutrition and Metabolism</i> , 2019, 44, 194-199.	0.9	9
35	Arterial baroreflex regulation of muscle sympathetic nerve activity at rest and during stress. <i>Journal of Physiology</i> , 2019, 597, 4729-4741.	1.3	17
36	Training heart failure patients with reduced ejection fraction attenuates muscle sympathetic nerve activation during mild dynamic exercise. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2019, 317, R503-R512.	0.9	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. <i>Journal of Applied Physiology</i> , 2019, 127, 464-472.	1.2	6
38	Simultaneous assessment of central and peripheral chemoreflex regulation of muscle sympathetic nerve activity and ventilation in healthy young men. <i>Journal of Physiology</i> , 2019, 597, 3281-3296.	1.3	48
39	Heart Failure—Specific Relationship Between Muscle Sympathetic Nerve Activity and Aortic Wave Reflection. <i>Journal of Cardiac Failure</i> , 2019, 25, 404-408.	0.7	11
40	Effect of Trendelenburg position and lower-body positive pressure on neck fluid distribution. <i>Journal of Applied Physiology</i> , 2019, 126, 1259-1264.	1.2	2
41	Docosahexaenoic acid reduces resting blood pressure but increases muscle sympathetic outflow compared with eicosapentaenoic acid in healthy men and women. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 316, H873-H881.	1.5	21
42	Cardiovascular responses during isometric exercise following lengthening and shortening contractions. <i>Journal of Applied Physiology</i> , 2019, 126, 278-285.	1.2	6
43	Evidence for differential control of muscle sympathetic single units during mild sympathoexcitation in young, healthy humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 316, H13-H23.	1.5	14
44	Muscle Sympathetic Activity Kinetics during One-Leg Cycling in Men and Women with and without Heart Failure: Evidence for Preserved Cardiopulmonary Baroreflex Sympathoinhibition. <i>FASEB Journal</i> , 2019, 33, 860.12.	0.2	0
45	Comparative Assessment of Central and Peripheral Chemoreceptor Reflex Regulation of Muscle Sympathetic Nerve Activity and Ventilation. <i>FASEB Journal</i> , 2019, 33, 560.2.	0.2	0
46	Moderate and severe hypoxia elicit divergent effects on cardiovascular function and physiological rhythms. <i>Journal of Physiology</i> , 2018, 596, 3391-3410.	1.3	15
47	Comparison of laboratory and ambulatory measures of central blood pressure and pulse wave reflection: hitting the target or missing the mark?. <i>Journal of the American Society of Hypertension</i> , 2018, 12, 275-284.	2.3	7
48	Cortical autonomic network gray matter and sympathetic nerve activity in obstructive sleep apnea. <i>Sleep</i> , 2018, 41, .	0.6	31
49	Hypertensive Response With Exercise to Reveal Increased Cardiovascular Risk in Adults With Aortic Coarctation Repair: Value and Caution. <i>Canadian Journal of Cardiology</i> , 2018, 34, 536-539.	0.8	0
50	Interindividual variability in muscle sympathetic responses to static handgrip in young men: evidence for sympathetic responder types?. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 314, R114-R121.	0.9	12
51	Muscle sympathetic nerve responses to passive and active one-legged cycling: insights into the contributions of central command. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 314, H3-H10.	1.5	20
52	Muscle Strength Influences Pressor Responses to Static Handgrip in Men and Women. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 778-784.	0.2	30
53	<i>TRPV1</i> and <i>BDKRB2</i> receptor polymorphisms can influence the exercise pressor reflex. <i>Journal of Physiology</i> , 2018, 596, 5135-5148.	1.3	18
54	Pharmacological assessment of the arterial baroreflex in a young healthy obese male with extremely low baseline muscle sympathetic nerve activity. <i>Clinical Autonomic Research</i> , 2018, 28, 593-595.	1.4	4

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55	Evidence for Pressure-Independent Sympathetic Modulation of Central Pulse Wave Velocity. <i>Journal of the American Heart Association</i> , 2018, 7, .	1.6	39
56	Three Weeks of Overload Training Increases Resting Muscle Sympathetic Activity. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 928-937.	0.2	12
57	Acute beetroot juice supplementation on sympathetic nerve activity: a randomized, double-blind, placebo-controlled proof-of-concept study. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 313, H59-H65.	1.5	57
58	Commentaries on Viewpoint: Could small-diameter muscle afferents be responsible for the ergogenic effect of limb ischemic preconditioning?. <i>Journal of Applied Physiology</i> , 2017, 122, 721-725.	1.2	5
59	Ischemic preconditioning does not alter muscle sympathetic responses to static handgrip and metaboreflex activation in young healthy men. <i>Physiological Reports</i> , 2017, 5, e13342.	0.7	18
60	Cutaneous Mechanoreceptor Feedback from the Hand and Foot Can Modulate Muscle Sympathetic Nerve Activity. <i>Frontiers in Neuroscience</i> , 2016, 10, 568.	1.4	11
61	Isometric exercise training lowers resting blood pressure and improves local brachial artery flow-mediated dilation equally in men and women. <i>European Journal of Applied Physiology</i> , 2016, 116, 1289-1296.	1.2	62
62	Arousal From Sleep and Sympathetic Excitation During Wakefulness. <i>Hypertension</i> , 2016, 68, 1467-1474.	1.3	74
63	Author's reply to da Mota and Marocolo: "The Effects of Ischemic Preconditioning on Human Exercise Performance: a Counterpoint". <i>Sports Medicine</i> , 2016, 46, 1577-1578.	3.1	3
64	Validity and reliability of measuring resting muscle sympathetic nerve activity using short sampling durations in healthy humans. <i>Journal of Applied Physiology</i> , 2016, 121, 1065-1073.	1.2	40
65	Association between resting-state brain functional connectivity and muscle sympathetic burst incidence. <i>Journal of Neurophysiology</i> , 2016, 115, 662-673.	0.9	33
66	The Effects of Ischemic Preconditioning on Human Exercise Performance. <i>Sports Medicine</i> , 2016, 46, 531-544.	3.1	108
67	Uncovering the mechanisms for statin-mediated dysglycaemia: role of Rac1?. <i>Journal of Physiology</i> , 2015, 593, 2237-2238.	1.3	0
68	Paradoxical Muscle Sympathetic Reflex Activation in Human Heart Failure. <i>Circulation</i> , 2015, 131, 459-468.	1.6	62
69	Muscle sympathetic activity in resting and exercising humans with and without heart failure. <i>Applied Physiology, Nutrition and Metabolism</i> , 2015, 40, 1107-1115.	0.9	22
70	Divergent muscle sympathetic responses to dynamic leg exercise in heart failure and age-matched healthy subjects. <i>Journal of Physiology</i> , 2015, 593, 715-722.	1.3	49
71	Statins and the autonomic nervous system. <i>Clinical Science</i> , 2014, 126, 401-415.	1.8	55
72	Evidence for the Role of Isometric Exercise Training in Reducing Blood Pressure: Potential Mechanisms and Future Directions. <i>Sports Medicine</i> , 2014, 44, 345-356.	3.1	128

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73	Exercise as medicine: Role in the management of primary hypertension. <i>Applied Physiology, Nutrition and Metabolism</i> , 2014, 39, 856-858.	0.9	5
74	Isometric Exercise Training for Blood Pressure Management: A Systematic Review and Meta-analysis. <i>Mayo Clinic Proceedings</i> , 2014, 89, 327-334.	1.4	217
75	Inverse Relationship Between Muscle Sympathetic Activity During Exercise and Peak Oxygen Uptake in Subjects With and Without Heart Failure. <i>Journal of the American College of Cardiology</i> , 2014, 63, 605-606.	1.2	15
76	Single-unit muscle sympathetic recordings identify in human heart failure unique fibers discharging in response to both unloading and loading of cardiopulmonary receptors (LB735). <i>FASEB Journal</i> , 2014, 28, LB735.	0.2	0
77	Reduced heart rate variability and baroreflex sensitivity in normotensive children with repaired coarctation of the aorta. <i>International Journal of Cardiology</i> , 2013, 168, 587-588.	0.8	6
78	Simvastatin reduces sympathetic outflow and augments endothelium-independent dilation in non-hyperlipidaemic primary hypertension. <i>Heart</i> , 2013, 99, 240-246.	1.2	26
79	Microneurographic evidence in healthy middle-aged humans for a sympathoexcitatory reflex activated by atrial pressure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 305, H931-H938.	1.5	39
80	Sex differences in the effects of isometric handgrip training on resting blood pressure and resistance vessel function. <i>FASEB Journal</i> , 2013, 27, 1132.21.	0.2	0
81	Neurogenic Retrograde Arterial Flow During Obstructive Sleep Apnea: A Novel Mechanism for Endothelial Dysfunction?. <i>Hypertension</i> , 2011, 58, e17-8.	1.3	12
82	Effects of autonomic blockade on nonlinear heart rate dynamics. <i>Clinical Autonomic Research</i> , 2010, 20, 241-247.	1.4	25
83	Isometric handgrip exercise improves acute neurocardiac regulation. <i>European Journal of Applied Physiology</i> , 2009, 107, 509-515.	1.2	50
84	Effects of short-term training on heart rate dynamics in individuals with spinal cord injury. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2009, 150, 116-121.	1.4	35
85	Heart rate variability and nonlinear analysis of heart rate dynamics following single and multiple Wingate bouts. <i>Applied Physiology, Nutrition and Metabolism</i> , 2009, 34, 875-883.	0.9	32
86	Cardiovascular reactivity to psychophysiological stressors: association with hypotensive effects of isometric handgrip training. <i>Blood Pressure Monitoring</i> , 2009, 14, 190-195.	0.4	12
87	The Hypotensive Effects of Isometric Handgrip Training Using an Inexpensive Spring Handgrip Training Device. <i>Journal of Cardiopulmonary Rehabilitation and Prevention</i> , 2008, 28, 203-207.	1.2	71
88	Effects of isometric handgrip training among people medicated for hypertension: a multilevel analysis. <i>Blood Pressure Monitoring</i> , 2007, 12, 307-314.	0.4	69
89	Action potential amplitude and baroreflex resetting of action potential clusters mediate hypoxia-induced sympathetic long-term facilitation. <i>Journal of Physiology</i> , 0, , .	1.3	1
90	Autonomic modulation in heart failure patients by cardiopulmonary rehabilitation: who benefits?. <i>European Journal of Preventive Cardiology</i> , 0, , .	0.8	0