

Jill Barnes

List of Publications by Citations

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115
papers

1,885
citations

23
h-index

41
g-index

133
ext. papers

2,214
ext. citations

2.8
avg, IF

5.23
L-index

#	Paper	IF	Citations
115	Exercise, cognitive function, and aging. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2015 , 39, 55-62	1.9	135
114	Interrelationships among noninvasive measures of postischemic macro- and microvascular reactivity. <i>Journal of Applied Physiology</i> , 2008 , 105, 427-32	3.7	133
113	Acute effects of resistance exercise on arterial compliance. <i>Journal of Applied Physiology</i> , 2005 , 98, 2287-91	3.7	133
112	Ellagitannin consumption improves strength recovery 2-3 d after eccentric exercise. <i>Medicine and Science in Sports and Exercise</i> , 2010 , 42, 493-8	1.2	84
111	Resistance training increases basal limb blood flow and vascular conductance in aging humans. <i>Journal of Applied Physiology</i> , 2006 , 101, 1351-5	3.7	84
110	The effects of strength training on central arterial compliance in middle-aged and older adults. <i>European Journal of Cardiovascular Prevention and Rehabilitation</i> , 2008 , 15, 149-55		83
109	Comparison of central artery elasticity in swimmers, runners, and the sedentary. <i>American Journal of Cardiology</i> , 2011 , 107, 783-7	3	74
108	Cerebrovascular reactivity is associated with maximal aerobic capacity in healthy older adults. <i>Journal of Applied Physiology</i> , 2013 , 114, 1383-7	3.7	67
107	Aging enhances autonomic support of blood pressure in women. <i>Hypertension</i> , 2014 , 63, 303-8	8.5	66
106	Arterial compliance of rowers: implications for combined aerobic and strength training on arterial elasticity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 290, H1596-600	5.2	60
105	Arterial stiffening following eccentric exercise-induced muscle damage. <i>Journal of Applied Physiology</i> , 2010 , 109, 1102-8	3.7	59
104	Autonomic control of body temperature and blood pressure: influences of female sex hormones. <i>Clinical Autonomic Research</i> , 2017 , 27, 149-155	4.3	58
103	Neural control of the circulation: how sex and age differences interact in humans. <i>Comprehensive Physiology</i> , 2015 , 5, 193-215	7.7	58
102	Relationship of sympathetic activity to bone microstructure, turnover, and plasma osteopontin levels in women. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2012 , 97, 4219-27	5.6	45
101	Cyclooxygenase inhibition abolishes age-related differences in cerebral vasodilator responses to hypercapnia. <i>Journal of Applied Physiology</i> , 2012 , 112, 1884-90	3.7	44
100	Postexercise insulin sensitivity is not impaired after an overnight lipid infusion. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005 , 288, E519-25	6	44
99	Oral Contraceptive Use, Muscle Sympathetic Nerve Activity, and Systemic Hemodynamics in Young Women. <i>Hypertension</i> , 2015 , 66, 590-7	8.5	41

98	Exercise Improves Vascular Function, but does this Translate to the Brain?. <i>Brain Plasticity</i> , 2018 , 4, 65-79	3.5	38
97	Influence of sympathetic nerve activity on aortic hemodynamics and pulse wave velocity in women. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017 , 312, H340-H346	5.2	36
96	Sex-specific risk of cardiovascular disease and cognitive decline: pregnancy and menopause. <i>Biology of Sex Differences</i> , 2013 , 4, 6	9.3	36
95	Age-Related Reductions in Cerebrovascular Reactivity Using 4D Flow MRI. <i>Frontiers in Aging Neuroscience</i> , 2019 , 11, 281	5.3	27
94	Sex-specific factors regulating pressure and flow. <i>Experimental Physiology</i> , 2017 , 102, 1385-1392	2.4	27
93	Forearm vasodilator responses to a β adrenergic receptor agonist in premenopausal and postmenopausal women. <i>Physiological Reports</i> , 2014 , 2, e12032	2.6	24
92	Cerebral blood velocity regulation during progressive blood loss compared with lower body negative pressure in humans. <i>Journal of Applied Physiology</i> , 2015 , 119, 677-85	3.7	23
91	Contribution of blood viscosity in the assessment of flow-mediated dilation and arterial stiffness. <i>Vascular Medicine</i> , 2012 , 17, 231-4	3.3	23
90	Cigarette smoking, regular exercise, and peripheral blood flow. <i>Atherosclerosis</i> , 2006 , 185, 201-5	3.1	23
89	Arterial stiffening, wave reflection, and inflammation in habitually exercising systemic lupus erythematosus patients. <i>American Journal of Hypertension</i> , 2011 , 24, 1194-200	2.3	22
88	Aortic hemodynamics and white matter hyperintensities in normotensive postmenopausal women. <i>Journal of Neurology</i> , 2017 , 264, 938-945	5.5	20
87	Sympathetic nerve activity and peripheral vasodilator capacity in young and older men. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014 , 306, H904-9	5.2	20
86	Association of cardiac baroreflex sensitivity with blood pressure transients: influence of sex and menopausal status. <i>Frontiers in Physiology</i> , 2012 , 3, 187	4.6	18
85	Cerebrovascular Reactivity and Vascular Activation in Postmenopausal Women With Histories of Preeclampsia. <i>Hypertension</i> , 2018 , 71, 110-117	8.5	18
84	Relationship between sympathetic nerve activity and aortic wave reflection characteristics in postmenopausal women. <i>Menopause</i> , 2013 , 20, 967-72	2.5	17
83	Cerebrovascular Reactivity and Central Arterial Stiffness in Habitually Exercising Healthy Adults. <i>Frontiers in Physiology</i> , 2018 , 9, 1096	4.6	16
82	Aortic pulse wave velocity and reflecting distance estimation from peripheral waveforms in humans: detection of age- and exercise training-related differences. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013 , 305, H135-42	5.2	12
81	Comparison of augmentation index derived from multiple devices. <i>Artery Research</i> , 2011 , 5, 112	2.2	12

80	Forearm vasodilatation to a β adrenergic receptor agonist in premenopausal and postmenopausal women. <i>Experimental Physiology</i> , 2020 , 105, 886-892	2.4	10
79	Macro- and microvascular function in habitually exercising systemic lupus erythematosus patients. <i>Scandinavian Journal of Rheumatology</i> , 2014 , 43, 209-16	1.9	10
78	Use of temperature alterations to characterize vascular reactivity. <i>Clinical Physiology and Functional Imaging</i> , 2011 , 31, 66-72	2.4	10
77	Cyclooxygenase inhibition augments central blood pressure and aortic wave reflection in aging humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 302, H2629-34	5.2	10
76	Integrative cardiovascular control in women: Regulation of blood pressure, body temperature, and cerebrovascular responsiveness. <i>FASEB Journal</i> , 2021 , 35, e21143	0.9	10
75	Neural control of blood pressure in women: differences according to age. <i>Clinical Autonomic Research</i> , 2017 , 27, 157-165	4.3	9
74	Cardiovascular benefits of habitual exercise in systemic lupus erythematosus: a review. <i>Physician and Sportsmedicine</i> , 2012 , 40, 43-8	2.4	9
73	Acute cyclooxygenase inhibition and baroreflex sensitivity in lean and obese adults. <i>Clinical Autonomic Research</i> , 2017 , 27, 17-23	4.3	8
72	Sugar highs and lows: the impact of diet on cognitive function. <i>Journal of Physiology</i> , 2012 , 590, 2831	3.9	8
71	Sex-Specific Ventricular and Vascular Adaptations to Exercise. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1065, 329-346	3.6	7
70	Sympathetic responsiveness is not increased in women with a history of hypertensive pregnancy. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017 , 312, R49-R54	3.2	7
69	Revisiting the Debate: Does Exercise Build Strong Bones in the Mature and Senescent Skeleton?. <i>Frontiers in Physiology</i> , 2016 , 7, 369	4.6	7
68	Pregnancy History, Hypertension, and Cognitive Impairment in Postmenopausal Women. <i>Current Hypertension Reports</i> , 2019 , 21, 93	4.7	7
67	Effect of acute hypoxemia on cerebral blood flow velocity control during lower body negative pressure. <i>Physiological Reports</i> , 2018 , 6, e13594	2.6	6
66	Relationship of muscle sympathetic nerve activity to insulin sensitivity. <i>Clinical Autonomic Research</i> , 2014 , 24, 77-85	4.3	6
65	Acute cyclooxygenase inhibition does not alter muscle sympathetic nerve activity or forearm vasodilator responsiveness in lean and obese adults. <i>Physiological Reports</i> , 2014 , 2, e12079	2.6	6
64	Effects of age and sex on middle cerebral artery blood velocity and flow pulsatility index across the adult lifespan. <i>Journal of Applied Physiology</i> , 2021 , 130, 1675-1683	3.7	6
63	Greater Influence of Aerobic Fitness on Autonomic Support of Blood Pressure in Young Women Than in Older Women. <i>Hypertension</i> , 2020 , 75, 1497-1504	8.5	5

62	Aortic hemodynamics in postmenopausal women following cessation of hormone therapy. <i>Physiological Reports</i> , 2017 , 5, e13535	2.6	5
61	Beyond a one-track mind: understanding blood flow to the brain in humans. <i>Journal of Physiology</i> , 2012 , 590, 3217	3.9	3
60	Risk factors of neurovascular ageing in women. <i>Journal of Neuroendocrinology</i> , 2020 , 32, e12777	3.8	3
59	Cerebrovascular reactivity after cessation of menopausal hormone treatment. <i>Climacteric</i> , 2019 , 22, 182-189	3.1	2
58	Aortic Hemodynamics and Cognitive Performance in Postmenopausal Women: Impact of Pregnancy History. <i>American Journal of Hypertension</i> , 2020 , 33, 756-764	2.3	2
57	Ageing-Related and Gender Specific Albumin Misfolding in Alzheimer's Disease. <i>Journal of Alzheimer's Disease Reports</i> , 2020 , 4, 67-77	3.3	2
56	The effect of ageing and indomethacin on forearm reactive hyperaemia in healthy adults. <i>Experimental Physiology</i> , 2014 , 99, 859-67	2.4	2
55	Exercise: where the body leads and the heart must follow. <i>Journal of Physiology</i> , 2012 , 590, 4127-8	3.9	2
54	Ascent to altitude: an integrated cerebrovascular, ventilatory and acid-base response. <i>Journal of Physiology</i> , 2010 , 588, 1815-6	3.9	2
53	Cerebrovascular challenges in diabetic patients: the pressure is on to maintain perfusion. <i>Hypertension</i> , 2011 , 57, 674-5	8.5	2
52	Innovative exercise device that simulates horseback riding: cardiovascular and metabolic responses. <i>Comparative Exercise Physiology</i> , 2008 , 5,	0.7	2
51	Commentaries on viewpoint: pick your Poiseuille: normalizing the shear stimulus in studies of flow-mediated dilation. <i>Journal of Applied Physiology</i> , 2009 , 107, 1360; author reply 1366	3.7	2
50	The Impact of Aging on the Association Between Aortic Stiffness and Cerebral Pulsatility Index.. <i>Frontiers in Cardiovascular Medicine</i> , 2022 , 9, 821151	5.4	2
49	Sex Differences in the Cerebral Hemodynamic Response to Hypercapnia in Young Adults. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	2
48	Sex differences in age-related changes in cerebral vasodilator responses. <i>FASEB Journal</i> , 2013 , 27, 1203.1b	0.9	2
47	Comments on Point:Counterpoint: The dominant contributor to systemic hypertension: Chronic activation of the sympathetic nervous system vs. Activation of the intrarenal renin-angiotensin system. Activated intrarenal renin-angiotensin system is correlated with high blood pressure in humans. <i>Journal of Applied Physiology</i> , 2010 , 109, 2003	3.7	1
46	Influence of Exercise Modality on the Cerebrovascular Response to Physiological Stressors. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	1
45	Influence of habitual aerobic and resistance exercise on cerebrovascular reactivity in healthy young adults. <i>Journal of Applied Physiology</i> , 2021 , 130, 1928-1935	3.7	1

44	Exercise, Arterial Stiffness, and Cerebral Vascular Function: Potential Impact on Brain Health. <i>Journal of the International Neuropsychological Society</i> , 2021 , 27, 761-775	3.1	1
43	Impact of age and cyclooxygenase inhibition on the hemodynamic response to acute cognitive challenges. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2021 , 321, R208-R219	3.2	1
42	Augmented cerebral blood velocity in response to isometric handgrip exercise in women with a history of preeclampsia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2019 , 317, R834-R839	3.2	0
41	P3-194: AORTIC BLOOD PRESSURE IS ASSOCIATED WITH WHITE MATTER HYPERINTENSITY FRACTION IN POSTMENOPAUSAL WOMEN WITH NORMAL BLOOD PRESSURE 2014 , 10, P700-P701		
40	IC-01-06: AORTIC BLOOD PRESSURE IS ASSOCIATED WITH WHITE MATTER HYPERINTENSITY FRACTION IN POSTMENOPAUSAL WOMEN WITH NORMAL BLOOD PRESSURE 2014 , 10, P3-P4		
39	IC-P-146: Arterial stiffness and white matter hyperintensity load in normotensive postmenopausal women 2015 , 11, P99-P99		
38	Cerebral Autoregulation and Habitual Exercise in Young Healthy Adults. <i>Medicine and Science in Sports and Exercise</i> , 2017 , 49, 697	1.2	
37	Cerebral Pulsatility and Habitual Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2017 , 49, 697	1.2	
36	P2-163: Arterial stiffness and white matter hyperintensity load in normotensive postmenopausal women 2015 , 11, P552-P552		
35	Reply toPancheva, Panchev, and Pancheva. <i>Journal of Applied Physiology</i> , 2013 , 114, 1761	3.7	
34	Blood pressure regulation in women - differences emerge when challenged by orthostasis. <i>Journal of Physiology</i> , 2013 , 591, 2239	3.9	
33	Commentary on Viewpoint: Exercise and cardiovascular risk reduction: time to update the rationale for exercise? Habitual exercise and vascular function. <i>Journal of Applied Physiology</i> , 2008 , 105, 777	3.7	
32	Sex Differences in the Cerebrovascular Response to a Metabolic Stimulus. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
31	Cardiorespiratory Fitness And The Cerebrovascular Response To A Metabolic Stimulus Following Cyclooxygenase Inhibition. <i>Medicine and Science in Sports and Exercise</i> , 2020 , 52, 389-389	1.2	
30	Cardiorespiratory Fitness And Aortic Hemodynamics Are Associated With Brain Volume In Healthy Older Adults. <i>Medicine and Science in Sports and Exercise</i> , 2020 , 52, 13-13	1.2	
29	Cerebrovascular Reactivity in Habitually Exercising Healthy Adults. <i>FASEB Journal</i> , 2018 , 32, 722.29	0.9	
28	Association between Cerebrovascular Reactivity and Intravascular Cellular Activation in Postmenopausal Women Following Use of Menopausal Hormone Treatments. <i>FASEB Journal</i> , 2018 , 32, 711.2	0.9	
27	Cyclooxygenase Inhibition and Cerebrovascular Reactivity: Interaction of Aging and Aerobic Fitness. <i>FASEB Journal</i> , 2018 , 32, 711.4	0.9	

26	Cerebral Blood Flow Responses to a Memory Test in Young and Older Habitual Exercisers. <i>FASEB Journal</i> , 2018 , 32, 711.5	0.9
25	The Impact of Grey Matter Normalization on Cerebrovascular Reactivity. <i>FASEB Journal</i> , 2018 , 32, 712.3	0.9
24	Cerebral Blood Flow Response to a Sympathoexcitatory Stimulus in Postmenopausal Women with a History of Preeclampsia. <i>FASEB Journal</i> , 2019 , 33, 856.1	0.9
23	Cerebrovascular Reactivity in Resistance Trained Young Men. <i>FASEB Journal</i> , 2019 , 33, 688.6	0.9
22	Influence of Vertebral Artery Hypoplasia on Cerebral Blood Flow Regulation. <i>FASEB Journal</i> , 2019 , 33, 528.13	0.9
21	The Effects of Age and Cyclooxygenase Inhibition on the Cerebrovascular Response to a Metabolic Stimulus. <i>FASEB Journal</i> , 2019 , 33, 528.9	0.9
20	Muscle Sympathetic Nerve Activity Responses to Hypercapnia in Exercise Trained and Sedentary Adults. <i>FASEB Journal</i> , 2019 , 33, 562.1	0.9
19	The Influence of Age at Natural Menopause on Cerebrovascular Reactivity. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9
18	Cyclooxygenase Inhibition Increases the Sympathetic Response to Hypercapnia. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9
17	Cerebral blood flow regulation during blood loss compared to lower body negative pressure in humans (1068.9). <i>FASEB Journal</i> , 2014 , 28, 1068.9	0.9
16	Age-related differences in carotid and cerebral blood flow regulation (1069.4). <i>FASEB Journal</i> , 2014 , 28, 1069.4	0.9
15	The relationship between muscle sympathetic nerve activity and hemodynamics in women taking oral contraceptive pills (875.2). <i>FASEB Journal</i> , 2014 , 28, 875.2	0.9
14	Effect of Prior Use Menopausal Hormone Therapy on Blood Pressure Responses in Women. <i>FASEB Journal</i> , 2015 , 29, 966.6	0.9
13	Impact of Aging on Aortic Wave Reflection during Lower Body Negative Pressure. <i>FASEB Journal</i> , 2015 , 29, 649.11	0.9
12	Aortic Pulse Wave Characteristics In Postmenopausal Women With And Without A History Of Hypertensive Pregnancy. <i>FASEB Journal</i> , 2015 , 29, 1053.6	0.9
11	Cerebral Blood Flow Velocity Responses to an Acute Cognitive Challenge in Healthy Adults. <i>FASEB Journal</i> , 2015 , 29, 949.3	0.9
10	Blood Pressure Responses to Isometric Handgrip in Women With and Without a History of Hypertensive Pregnancy. <i>FASEB Journal</i> , 2015 , 29, 675.19	0.9
9	Endothelium-Dependent and -Independent Vasodilation in Women at Risk of Hypertension. <i>FASEB Journal</i> , 2015 , 29, 647.6	0.9

- 8 Long Term Effects of Menopausal Hormone Therapy on Cerebral Pulsatility Index. *Medicine and Science in Sports and Exercise*, **2017**, 49, 342-343 1.2
- 7 Age-related differences in cerebrovascular reactivity in response to COX inhibition. *FASEB Journal*, **2011**, 25, 1024.9 0.9
- 6 Higher aortic wave reflection is mediated in part by greater autonomic support in older women. *FASEB Journal*, **2012**, 26, 864.11 0.9
- 5 Aging and the effect of autonomic blockade on central and peripheral pulse wave velocity. *FASEB Journal*, **2012**, 26, 1092.1 0.9
- 4 Forearm vasodilator response to isoproterenol in premenopausal and postmenopausal women. *FASEB Journal*, **2013**, 27, 927.4 0.9
- 3 The medicalization of inactivity **2013**, 18-21
- 2 IC-P-105: ADULTS WITH VERTEBRAL ARTERY HYPOPLASIA HAVE LOWER GLOBAL CEREBROVASCULAR REACTIVITY **2019**, 15, P90-P91
- 1 Vertebral artery hypoplasia influences age-related differences in blood flow of the large intracranial arteries. *Aging Brain*, **2021**, 1, 100019