

# Jill Barnes

## List of Publications by Year in descending order

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Version: 2024-02-01

131  
papers

2,520  
citations

201385

27  
h-index

214527

47  
g-index

133  
all docs

133  
docs citations

133  
times ranked

3457  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exercise, cognitive function, and aging. American Journal of Physiology - Advances in Physiology Education, 2015, 39, 55-62.	0.8	198
2	Acute effects of resistance exercise on arterial compliance. Journal of Applied Physiology, 2005, 98, 2287-2291.	1.2	153
3	Interrelationships among noninvasive measures of postischemic macro- and microvascular reactivity. Journal of Applied Physiology, 2008, 105, 427-432.	1.2	143
4	Ellagitannin Consumption Improves Strength Recovery 2-3 d after Eccentric Exercise. Medicine and Science in Sports and Exercise, 2010, 42, 493-498.	0.2	105
5	The effects of strength training on central arterial compliance in middle-aged and older adults. European Journal of Cardiovascular Prevention and Rehabilitation, 2008, 15, 149-155.	3.1	102
6	Autonomic control of body temperature and blood pressure: influences of female sex hormones. Clinical Autonomic Research, 2017, 27, 149-155.	1.4	96
7	Resistance training increases basal limb blood flow and vascular conductance in aging humans. Journal of Applied Physiology, 2006, 101, 1351-1355.	1.2	91
8	Cerebrovascular reactivity is associated with maximal aerobic capacity in healthy older adults. Journal of Applied Physiology, 2013, 114, 1383-1387.	1.2	90
9	Aging Enhances Autonomic Support of Blood Pressure in Women. Hypertension, 2014, 63, 303-308.	1.3	89
10	Comparison of Central Artery Elasticity in Swimmers, Runners, and the Sedentary. American Journal of Cardiology, 2011, 107, 783-787.	0.7	82
11	Arterial stiffening following eccentric exercise-induced muscle damage. Journal of Applied Physiology, 2010, 109, 1102-1108.	1.2	76
12	Neural Control of the Circulation: How Sex and Age Differences Interact in Humans. , 2015, 5, 193-215.		74
13	Arterial compliance of rowers: implications for combined aerobic and strength training on arterial elasticity. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H1596-H1600.	1.5	73
14	Relationship of Sympathetic Activity to Bone Microstructure, Turnover, and Plasma Osteopontin Levels in Women. Journal of Clinical Endocrinology and Metabolism, 2012, 97, 4219-4227.	1.8	59
15	Exercise Improves Vascular Function, but does this Translate to the Brain?. Brain Plasticity, 2018, 4, 65-79.	1.9	58
16	Cyclooxygenase inhibition abolishes age-related differences in cerebral vasodilator responses to hypercapnia. Journal of Applied Physiology, 2012, 112, 1884-1890.	1.2	53
17	Sex-specific risk of cardiovascular disease and cognitive decline: pregnancy and menopause. Biology of Sex Differences, 2013, 4, 6.	1.8	52
18	Oral Contraceptive Use, Muscle Sympathetic Nerve Activity, and Systemic Hemodynamics in Young Women. Hypertension, 2015, 66, 590-597.	1.3	51

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19	Postexercise insulin sensitivity is not impaired after an overnight lipid infusion. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005, 288, E519-E525.	1.8	48
20	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.	1.5	46
21	Age-Related Reductions in Cerebrovascular Reactivity Using 4D Flow MRI. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 281.	1.7	46
22	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.	1.2	44
23	Sex-specific factors regulating pressure and flow. <i>Experimental Physiology</i> , 2017, 102, 1385-1392.	0.9	37
24	Arterial Stiffening, Wave Reflection, and Inflammation in Habitually Exercising Systemic Lupus Erythematosus Patients. <i>American Journal of Hypertension</i> , 2011, 24, 1194-1200.	1.0	33
25	Cerebral blood velocity regulation during progressive blood loss compared with lower body negative pressure in humans. <i>Journal of Applied Physiology</i> , 2015, 119, 677-685.	1.2	32
26	Cerebrovascular Reactivity and Central Arterial Stiffness in Habitually Exercising Healthy Adults. <i>Frontiers in Physiology</i> , 2018, 9, 1096.	1.3	31
27	Integrative cardiovascular control in women: Regulation of blood pressure, body temperature, and cerebrovascular responsiveness. <i>FASEB Journal</i> , 2021, 35, e21143.	0.2	31
28	Cigarette smoking, regular exercise, and peripheral blood flow. <i>Atherosclerosis</i> , 2006, 185, 201-205.	0.4	30
29	Forearm vasodilator responses to a $\beta_2$ -adrenergic receptor agonist in premenopausal and postmenopausal women. <i>Physiological Reports</i> , 2014, 2, e12032.	0.7	27
30	Contribution of blood viscosity in the assessment of flow-mediated dilation and arterial stiffness. <i>Vascular Medicine</i> , 2012, 17, 231-234.	0.8	24
31	Aortic hemodynamics and white matter hyperintensities in normotensive postmenopausal women. <i>Journal of Neurology</i> , 2017, 264, 938-945.	1.8	24
32	Cerebrovascular Reactivity and Vascular Activation in Postmenopausal Women With Histories of Preeclampsia. <i>Hypertension</i> , 2018, 71, 110-117.	1.3	24
33	Association of Cardiac Baroreflex Sensitivity with Blood Pressure Transients: Influence of Sex and Menopausal Status. <i>Frontiers in Physiology</i> , 2012, 3, 187.	1.3	20
34	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-H909.	1.5	20
35	Exercise, Arterial Stiffness, and Cerebral Vascular Function: Potential Impact on Brain Health. <i>Journal of the International Neuropsychological Society</i> , 2021, 27, 761-775.	1.2	19
36	Relationship between sympathetic nerve activity and aortic wave reflection characteristics in postmenopausal women. <i>Menopause</i> , 2013, 20, 960-966.	0.8	18

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37	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-H142.	1.5	17
38	Sex-Specific Ventricular and Vascular Adaptations to Exercise. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1065, 329-346.	0.8	16
39	I am 80 going on 18: exercise and the fountain of youth. <i>Journal of Applied Physiology</i> , 2013, 114, 1-2.	1.2	15
40	Macro- and microvascular function in habitually exercising systemic lupus erythematosus patients. <i>Scandinavian Journal of Rheumatology</i> , 2014, 43, 209-216.	0.6	14
41	The Impact of Aging on the Association Between Aortic Stiffness and Cerebral Pulsatility Index. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 821151.	1.1	14
42	Comparison of augmentation index derived from multiple devices. <i>Artery Research</i> , 2011, 5, 112.	0.3	13
43	Pregnancy History, Hypertension, and Cognitive Impairment in Postmenopausal Women. <i>Current Hypertension Reports</i> , 2019, 21, 93.	1.5	13
44	Use of temperature alterations to characterize vascular reactivity. <i>Clinical Physiology and Functional Imaging</i> , 2011, 31, 66-72.	0.5	12
45	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-H2634.	1.5	12
46	Cardiovascular Benefits of Habitual Exercise in Systemic Lupus Erythematosus: A Review. <i>Physician and Sportsmedicine</i> , 2012, 40, 43-48.	1.0	12
47	Risk factors of neurovascular ageing in women. <i>Journal of Neuroendocrinology</i> , 2020, 32, e12777.	1.2	12
48	Forearm vasodilatation to a $\beta_2$ adrenergic receptor agonist in premenopausal and postmenopausal women. <i>Experimental Physiology</i> , 2020, 105, 886-892.	0.9	12
49	Sugar highs and lows: the impact of diet on cognitive function. <i>Journal of Physiology</i> , 2012, 590, 2831-2831.	1.3	11
50	Physical Activity and Cardiovascular Risk: 10 Metabolic Equivalents or Bust. <i>Mayo Clinic Proceedings</i> , 2013, 88, 1353-1355.	1.4	10
51	Neural control of blood pressure in women: differences according to age. <i>Clinical Autonomic Research</i> , 2017, 27, 157-165.	1.4	10
52	Acute cyclooxygenase inhibition and baroreflex sensitivity in lean and obese adults. <i>Clinical Autonomic Research</i> , 2017, 27, 17-23.	1.4	10
53	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.	0.9	9
54	Revisiting the Debate: Does Exercise Build Strong Bones in the Mature and Senescent Skeleton?. <i>Frontiers in Physiology</i> , 2016, 7, 369.	1.3	8

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55	Effect of acute hypoxemia on cerebral blood flow velocity control during lower body negative pressure. <i>Physiological Reports</i> , 2018, 6, e13594.	0.7	8
56	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.	1.3	8
57	Sex-specific effects of cardiorespiratory fitness on age-related differences in cerebral hemodynamics. <i>Journal of Applied Physiology</i> , 2022, 132, 1310-1317.	1.2	8
58	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.	0.7	7
59	Aortic Hemodynamics and Cognitive Performance in Postmenopausal Women: Impact of Pregnancy History. <i>American Journal of Hypertension</i> , 2020, 33, 756-764.	1.0	7
60	Relationship of muscle sympathetic nerve activity to insulin sensitivity. <i>Clinical Autonomic Research</i> , 2014, 24, 77-85.	1.4	6
61	Aortic hemodynamics in postmenopausal women following cessation of hormone therapy. <i>Physiological Reports</i> , 2017, 5, e13535.	0.7	5
62	Influence of habitual aerobic and resistance exercise on cerebrovascular reactivity in healthy young adults. <i>Journal of Applied Physiology</i> , 2021, 130, 1928-1935.	1.2	5
63	The effect of ageing and indomethacin on forearm reactive hyperaemia in healthy adults. <i>Experimental Physiology</i> , 2014, 99, 859-867.	0.9	4
64	Aging-Related and Gender Specific Albumin Misfolding in Alzheimer's Disease. <i>Journal of Alzheimer's Disease Reports</i> , 2020, 4, 67-77.	1.2	4
65	Innovative exercise device that simulates horseback riding: cardiovascular and metabolic responses. <i>Comparative Exercise Physiology</i> , 2008, 5, .	0.3	3
66	Commentaries on Viewpoint: Pick your Poiseuille: Normalizing the shear stimulus in studies of flow-mediated dilation. <i>Journal of Applied Physiology</i> , 2009, 107, 1360-1365.	1.2	3
67	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. <i>Journal of Applied Physiology</i> , 2010, 109, 2003-2014.	1.2	3
68	Beyond a one-track mind: understanding blood flow to the brain in humans. <i>Journal of Physiology</i> , 2012, 590, 3217-3217.	1.3	3
69	Cerebrovascular reactivity after cessation of menopausal hormone treatment. <i>Climacteric</i> , 2019, 22, 182-189.	1.1	3
70	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.	0.9	3
71	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.	0.9	3
72	Ascent to altitude: an integrated cerebrovascular, ventilatory and acid-base response. <i>Journal of Physiology</i> , 2010, 588, 1815-1816.	1.3	2

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73	Cerebrovascular Challenges in Diabetic Patients. <i>Hypertension</i> , 2011, 57, 674-675.	1.3	2
74	Exercise: where the body leads and the heart must follow. <i>Journal of Physiology</i> , 2012, 590, 4127-4128.	1.3	2
75	Vertebral artery hypoplasia influences age-related differences in blood flow of the large intracranial arteries. <i>Aging Brain</i> , 2021, 1, 100019.	0.7	2
76	Sex Differences in the Cerebral Hemodynamic Response to Hypercapnia in Young Adults. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	2
77	Sex differences in age-related changes in cerebral vasodilator responses. <i>FASEB Journal</i> , 2013, 27, 1203.11.	0.2	2
78	Long Term Effects of Menopausal Hormone Therapy on Cerebral Pulsatility Index. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 342-343.	0.2	2
79	Risk factors for intradialytic decline in cerebral perfusion and impaired cerebral autoregulation in adults on hemodialysis. <i>Hemodialysis International</i> , 2021, , .	0.4	1
80	Influence of Exercise Modality on the Cerebrovascular Response to Physiological Stressors. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	1
81	A Pilot Study to Investigate the Effect of Hypercapnia Training on Cerebrovascular Reactivity in Healthy Adults. <i>FASEB Journal</i> , 2022, 36, .	0.2	1
82	Sympathoexcitatory Responses to Isometric Handgrip Exercise Are Associated With White Matter Hyperintensities in Middle-Aged and Older Adults. <i>Frontiers in Aging Neuroscience</i> , 0, 14, .	1.7	1
83	Commentary on Viewpoint: Exercise and cardiovascular risk reduction: Time to update the rationale for exercise?. <i>Journal of Applied Physiology</i> , 2008, 105, 777-777.	1.2	0
84	Lack of Macro- and Micro-Vascular Dysfunction in Habitually Exercising Systemic Lupus Erythematosus Patients. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 3.	0.2	0
85	Blood pressure regulation in women " differences emerge when challenged by orthostasis. <i>Journal of Physiology</i> , 2013, 591, 2239-2239.	1.3	0
86	Physiology's Impact: Discovering Life. <i>Physiology</i> , 2013, 28, 138-139.	1.6	0
87	Reply to Pancheva, Panchev, and Pancheva. <i>Journal of Applied Physiology</i> , 2013, 114, 1761-1761.	1.2	0
88	P3-194: AORTIC BLOOD PRESSURE IS ASSOCIATED WITH WHITE MATTER HYPERINTENSITY FRACTION IN POSTMENOPAUSAL WOMEN WITH NORMAL BLOOD PRESSURE. , 2014, 10, P700-P701.		0
89	IC-01-06: AORTIC BLOOD PRESSURE IS ASSOCIATED WITH WHITE MATTER HYPERINTENSITY FRACTION IN POSTMENOPAUSAL WOMEN WITH NORMAL BLOOD PRESSURE. , 2014, 10, P3-P4.		0
90	IC-P-146: Arterial stiffness and white matter hyperintensity load in normotensive postmenopausal women. , 2015, 11, P99-P99.		0

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91	P2-163: Arterial stiffness and white matter hyperintensity load in normotensive postmenopausal women. , 2015, 11, P552-P552.		0
92	Cerebral Autoregulation and Habitual Exercise in Young Healthy Adults. Medicine and Science in Sports and Exercise, 2017, 49, 697.	0.2	0
93	Cerebral Pulsatility and Habitual Exercise. Medicine and Science in Sports and Exercise, 2017, 49, 697.	0.2	0
94	ICâ€Pâ€105: ADULTS WITH VERTEBRAL ARTERY HYPOPLASIA HAVE LOWER GLOBAL CEREBROVASCULAR REACTIVITY. Alzheimer's and Dementia, 2019, 15, P90.	0.4	0
95	Habitual Exercise Training on Muscle Sympathetic Nerve Activity Responses to Hypercapnia in Older Adults. FASEB Journal, 2021, 35, .	0.2	0
96	Effects of Gray Matter Normalization on Cerebrovascular Reactivity in Middleâ€Aged Adults at Elevated Risk of Alzheimer's Disease. FASEB Journal, 2021, 35, .	0.2	0
97	Association between platelet inhibition in the blood and cerebrovascular function in healthy young and older adults. FASEB Journal, 2021, 35, .	0.2	0
98	Magnitude of Change in Middle Cerebral Artery Crossâ€Sectional Area is Associated with Cardiorespiratory Fitness. FASEB Journal, 2021, 35, .	0.2	0
99	The Relationship Between Cardiorespiratory Fitness and Middle Cerebral Artery Velocity in Women. FASEB Journal, 2021, 35, .	0.2	0
100	Interâ€relationships between Noninvasive Measures of Peripheral Vascular Reactivity. FASEB Journal, 2008, 22, .	0.2	0
101	Ageâ€related differences in cerebrovascular reactivity in response to COX inhibition. FASEB Journal, 2011, 25, 1024.9.	0.2	0
102	Higher aortic wave reflection is mediated in part by greater autonomic support in older women. FASEB Journal, 2012, 26, 864.11.	0.2	0
103	The effects of acute Î²â€Adrenergic blockade on aortic wave reflection in postâ€menopausal women. FASEB Journal, 2012, 26, .	0.2	0
104	Ageing and the effect of autonomic blockade on central and peripheral pulse wave velocity. FASEB Journal, 2012, 26, 1092.1.	0.2	0
105	Forearm vasodilator response to isoproterenol in premenopausal and postmenopausal women. FASEB Journal, 2013, 27, 927.4.	0.2	0
106	The medicalization of inactivity. , 2013, , 18-21.		0
107	Cerebral blood flow regulation during blood loss compared to lower body negative pressure in humans (1068.9). FASEB Journal, 2014, 28, 1068.9.	0.2	0
108	Ageâ€related differences in carotid and cerebral blood flow regulation (1069.4). FASEB Journal, 2014, 28, 1069.4.	0.2	0

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109	The relationship between muscle sympathetic nerve activity and hemodynamics in women taking oral contraceptive pills (875.2). FASEB Journal, 2014, 28, 875.2.	0.2	0
110	Effect of Prior Use Menopausal Hormone Therapy on Blood Pressure Responses in Women. FASEB Journal, 2015, 29, 966.6.	0.2	0
111	Impact of Aging on Aortic Wave Reflection during Lower Body Negative Pressure. FASEB Journal, 2015, 29, 649.11.	0.2	0
112	Aortic Pulse Wave Characteristics In Postmenopausal Women With And Without A History Of Hypertensive Pregnancy. FASEB Journal, 2015, 29, 1053.6.	0.2	0
113	Cerebral Blood Flow Velocity Responses to an Acute Cognitive Challenge in Healthy Adults. FASEB Journal, 2015, 29, 949.3.	0.2	0
114	Blood Pressure Responses to Isometric Handgrip in Women With and Without a History of Hypertensive Pregnancy. FASEB Journal, 2015, 29, 675.19.	0.2	0
115	Endothelium-Dependent and -Independent Vasodilation in Women at Risk of Hypertension. FASEB Journal, 2015, 29, 647.6.	0.2	0
116	Cerebrovascular Reactivity in Habitually Exercising Healthy Adults. FASEB Journal, 2018, 32, 722.29.	0.2	0
117	Association between Cerebrovascular Reactivity and Intravascular Cellular Activation in Postmenopausal Women Following Use of Menopausal Hormone Treatments. FASEB Journal, 2018, 32, 711.2.	0.2	0
118	Cyclooxygenase Inhibition and Cerebrovascular Reactivity: Interaction of Aging and Aerobic Fitness. FASEB Journal, 2018, 32, 711.4.	0.2	0
119	Cerebral Blood Flow Responses to a Memory Test in Young and Older Habitual Exercisers. FASEB Journal, 2018, 32, 711.5.	0.2	0
120	The Impact of Grey Matter Normalization on Cerebrovascular Reactivity. FASEB Journal, 2018, 32, 712.3.	0.2	0
121	Sex-Specific Conditions Affecting Vascular Tone, Cerebral Blood Flow and Cognition. FASEB Journal, 2018, 32, .	0.2	0
122	Cerebral Blood Flow Response to a Sympathoexcitatory Stimulus in Postmenopausal Women with a History of Preeclampsia. FASEB Journal, 2019, 33, 856.1.	0.2	0
123	Cerebrovascular Reactivity in Resistance Trained Young Men. FASEB Journal, 2019, 33, 688.6.	0.2	0
124	Influence of Vertebral Artery Hypoplasia on Cerebral Blood Flow Regulation. FASEB Journal, 2019, 33, 528.13.	0.2	0
125	The Effects of Age and Cyclooxygenase Inhibition on the Cerebrovascular Response to a Metabolic Stimulus. FASEB Journal, 2019, 33, 528.9.	0.2	0
126	Muscle Sympathetic Nerve Activity Responses to Hypercapnia in Exercise Trained and Sedentary Adults. FASEB Journal, 2019, 33, 562.1.	0.2	0



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127	The Influence of Age at Natural Menopause on Cerebrovascular Reactivity. FASEB Journal, 2020, 34, 1-1.	0.2	0
128	Cyclooxygenase Inhibition Increases the Sympathetic Response to Hypercapnia. FASEB Journal, 2020, 34, 1-1.	0.2	0
129	Sex Differences in the Cerebrovascular Response to a Metabolic Stimulus. FASEB Journal, 2020, 34, 1-1.	0.2	0
130	Cardiorespiratory Fitness And The Cerebrovascular Response To A Metabolic Stimulus Following Cyclooxygenase Inhibition. Medicine and Science in Sports and Exercise, 2020, 52, 389-389.	0.2	0
131	Cardiorespiratory Fitness And Aortic Hemodynamics Are Associated With Brain Volume In Healthy Older Adults. Medicine and Science in Sports and Exercise, 2020, 52, 13-13.	0.2	0