Mark W Chapleau

List of Publications by Year
in descending order

111 papers	3,822 citations	109321 35 h-index	133252 59 g-index
113 all docs	113 docs citations	113 times ranked	4425 citing authors

#	Article	IF	Citations
1	Research Opportunities in Autonomic Neural Mechanisms of CardiopulmonaryÂRegulation. JACC Basic To Translational Science, 2022, 7, 265-293.	4.1	17
2	Cardiomyocyteâ€specific deletion of sarcoglycanâ€Î´ leads to dilated cardiomyopathy, autonomic dysfunction, and exaggerated stressâ€induced cardiovascular reactivity. FASEB Journal, 2022, 36, .	0.5	0
3	Carotid body chemoreceptors: physiology, pathology, and implications for health and disease. Physiological Reviews, 2021, 101, 1177-1235.	28.8	85
4	Altering Early Life Gut Microbiota Has Long-Term Effect on Immune System and Hypertension in Spontaneously Hypertensive Rats. Frontiers in Physiology, 2021, 12, 752924.	2.8	8
5	Human papillomavirus (HPV) vaccine and autonomic disorders: a position statement from the American Autonomic Society. Clinical Autonomic Research, 2020, 30, 13-18.	2.5	15
6	Response to: Human papillomavirus (HPV) vaccine safety concerning POTS, CRPS and related conditions. Clinical Autonomic Research, 2020, 30, 183-184.	2.5	1
7	Human papillomavirus (HPV) vaccine and autonomic disorders: a position statement from the American Autonomic Society. Autonomic Neuroscience: Basic and Clinical, 2020, 223, 102550.	2.8	6
8	Angiotensin II-induced hypertension and cardiac hypertrophy are differentially mediated by TLR3- and TLR4-dependent pathways. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H1027-H1038.	3.2	45
9	Increased receptor activity-modifying protein 1 in the nervous system is sufficient to protect against autonomic dysregulation and hypertension. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 690-703.	4.3	10
10	TMEM16B determines cholecystokinin sensitivity of intestinal vagal afferents of nodose neurons. JCI Insight, 2019, 4, .	5.0	8
11	Influence of Early Postnatal Gut Microbiota on Immune System in SHR Hypertension. FASEB Journal, 2019, 33, 692.16.	0.5	0
12	Sensitization of the Cardiac Sympathetic Afferent Reflex Contributes to Increased Sympathetic Tone in a Mouse Model of Hypertrophic Cardiomyopathy. FASEB Journal, 2019, 33, 745.4.	0.5	0
13	Increased cardiac sympathetic activity: Cause or compensation in vasovagal syncope?. Clinical Autonomic Research, 2018, 28, 265-266.	2.5	4
14	PIEZOs mediate neuronal sensing of blood pressure and the baroreceptor reflex. Science, 2018, 362, 464-467.	12.6	312
15	Sexually Dimorphic Ano2 Expression in Nodose Neurons Determines CCKâ€mediated Satiation and Obesity in Heterozygote Male Mice. FASEB Journal, 2018, 32, .	0.5	0
16	Chemosensitive Cardiac Afferent Reflexes in Mice: Are they Altered in Hypertrophic Cardiomyopathy?. FASEB Journal, 2018, 32, 591.4.	0.5	0
17	Abnormal CD161 + immune cells and retinoic acid receptorâ€“related orphan receptor Î³tâ€“mediate enhanced IL-17F expression in the setting of genetic hypertension. Journal of Allergy and Clinical Immunology, 2017, 140, 809-821.e3.	2.9	14
18	The volume-regulated anion channel (LRRC8) in nodose neurons is sensitive to acidic pH. JCI Insight, 2017, 2, e90632.	5.0	35

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19	Exercise prevents development of autonomic dysregulation and hyperalgesia in a mouse model of chronic muscle pain. Pain, 2016, 157, 387-398.	4.2	33
20	Chronic vagal nerve stimulation prevents high-salt diet-induced endothelial dysfunction and aortic stiffening in stroke-prone spontaneously hypertensive rats. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 311, H276-H285.	3.2	42
21	Nicotine Mediates CD161a⁺Renal Macrophage Infiltration and Premature Hypertension in the Spontaneously Hypertensive Rat. Circulation Research, 2016, 119, 1101-1115.	4.5	39
22	Fibrotic Aortic Valve Stenosis in Hypercholesterolemic/Hypertensive Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 466-474.	2.4	23
23	Angiotensinâ€dependent autonomic dysregulation precedes dilated cardiomyopathy in a mouse model of muscular dystrophy. Experimental Physiology, 2015, 100, 776-795.	2.0	6
24	Calcium/CalmodulinâEDependent Kinase II Inhibition in Smooth Muscle Reduces Angiotensin Iiâ€“Induced Hypertension by Controlling Aortic Remodeling and Baroreceptor Function. Journal of the American Heart Association, 2015, 4, e001949.	3.7	35
25	Dual Activation of TRIF and MyD88 Adaptor Proteins by Angiotensin II Evokes Opposing Effects on Pressure, Cardiac Hypertrophy, and Inflammatory Gene Expression. Hypertension, 2015, 66, 647-656.	2.7	43
26	Anoctamins are Determinants of Reduced Cholecystokinin Sensitivity of Vagal Afferents and Impaired Satiety in Obese Mice on High Fat Diet. FASEB Journal, 2015, 29, 806.1.	0.5	0
27	Central Sympathoinhibition Abrogates Angiotensin Iiâ€induced Autonomic Dysregulation, Hypertension and Blood Pressure Variability in Control and Methionine Sulfoxide Reductaseâ€A Deficient Mice. FASEB Journal, 2015, 29, 984.5.	0.5	0
28	TLR3 Activation Preferentially Enhances ILâ€17F Expression in SHR Immune Cells. FASEB Journal, 2015, 29, 667.2.	0.5	0
29	Cholinergic Stimulation with Nicotine Induces CD68+ Macrophage Infiltration into Kidney and Increases Arterial Pressure in Spontaneously Hypertensive Rats. FASEB Journal, 2015, 29, 957.7.	0.5	0
30	Habituation of parasympathetic-mediated heart rate responses to recurring acoustic startle. Frontiers in Psychology, 2014, 5, 1288.	2.1	13
31	Chronic oral administration of Ang-(1â€“7) improves skeletal muscle, autonomic and locomotor phenotypes in muscular dystrophy. Clinical Science, 2014, 127, 101-109.	4.3	34
32	Blood pressure regulation XI: overview and future research directions. European Journal of Applied Physiology, 2014, 114, 579-586.	2.5	31
33	The immune system and hypertension. Immunologic Research, 2014, 59, 243-253.	2.9	136
34	Autonomic, locomotor and cardiac abnormalities in a mouse model of muscular dystrophy: targeting the reninâ€“angiotensin system. Experimental Physiology, 2014, 99, 627-631.	2.0	17
35	Contributions of skeletal muscle myopathy to heart failure: novel mechanisms and therapies. Experimental Physiology, 2014, 99, 607-608.	2.0	4
36	Autocrine/paracrine modulation of baroreceptor activity after antidromic stimulation of aortic depressor nerve in vivo. Autonomic Neuroscience: Basic and Clinical, 2014, 180, 24-31.	2.8	1

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37	Testing the autonomic nervous system. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2013, 115, 115-136.	1.8	111
38	Responses of glomus cells to hypoxia and acidosis are uncoupled, reciprocal and linked to ASIC3 expression: selectivity of chemosensory transduction. Journal of Physiology, 2013, 591, 919-932.	2.9	22
39	Abnormal immune cell populations in SHR hypertension. FASEB Journal, 2013, 27, lb850.	0.5	0
40	Mechanisms Involved in an Acidic pHâ€conditioned NOXmediated Chloride Conductance in Nodose Sensory Neurons. FASEB Journal, 2013, 27, 913.4.	0.5	0
41	Autonomic Neural Regulation of the Immune System. Hypertension, 2012, 59, 755-762.	2.7	134
42	Regulator of G Protein Signaling 2 Deficiency Causes Endothelial Dysfunction and Impaired Endothelium-derived Hyperpolarizing Factor-mediated Relaxation by Dysregulating Gi/o Signaling. Journal of Biological Chemistry, 2012, 287, 12541-12549.	3.4	43
43	Editorial on Arterial Baroreflex Issue. Autonomic Neuroscience: Basic and Clinical, 2012, 172, 1-3.	2.8	29
44	Neurohormonal Modulation of the Innate Immune System Is Proinflammatory in the Prehypertensive Spontaneously Hypertensive Rat, a Genetic Model of Essential Hypertension. Circulation Research, 2012, 111, 1190-1197.	4.5	97
45	Baroreceptor Reflexes. , 2012, , 161-165.		21
46	A Novel pH Conditioned Clâ€•Conductance in Nodose Ganglia Neurons. FASEB Journal, 2012, 26, 892.7.	0.5	0
47	Peripheral Chemoreceptors Contribute Significantly to Hypertension in Spontaneously Hypertensive Rats (SHR). FASEB Journal, 2012, 26, 703.15.	0.5	3
48	Endogenous Hydrogen Sulfide in Carotid Bodies Correlates with the Initiation of Hypertension in Spontaneously Hypertensive Rats (SHR). FASEB Journal, 2012, 26, 897.9.	0.5	0
49	Methods of assessing vagus nerve activity and reflexes. Heart Failure Reviews, 2011, 16, 109-127.	3.9	131
50	CIH: from sleep apnea to breath-hold diving. Clinical Autonomic Research, 2010, 20, 53-55.	2.5	1
51	Receptor Activity-Modifying Protein 1 Increases Baroreflex Sensitivity and Attenuates Angiotensin-Induced Hypertension. Hypertension, 2010, 55, 627-635.	2.7	46
52	Chemoreceptor Hypersensitivity, Sympathetic Excitation, and Overexpression of ASIC and TASK Channels Before the Onset of Hypertension in SHR. Circulation Research, 2010, 106, 536-545.	4.5	99
53	Vascular nitric oxide and superoxide anion contribute to sex-specific programmed cardiovascular physiology in mice. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 296, R651-R662.	1.8	47
54	The Ion Channel ASIC2 Is Required for Baroreceptor and Autonomic Control of the Circulation. Neuron, 2009, 64, 885-897.	8.1	186

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55	Selective Sensitization of Transduction pathways in Carotid Body Glomus Cells of Spontaneously Hypertensive Rats (SHR). FASEB Journal, 2009, 23, 1002.4.	0.5	0
56	Differential Sensitivity of Carotid Body Glomus Cells to Hypoxia and Acidosis. FASEB Journal, 2009, 23, 1002.2.	0.5	0
57	Structural remodeling of nucleus ambiguus projections to cardiac ganglia following chronic intermittent hypoxia in C57BL/6J mice. Journal of Comparative Neurology, 2008, 509, 103-117.	1.6	39
58	Single cell RTâ€PCR indicates lower ASIC2a mRNA expression in aortic baroreceptor neurons of adult SHR vs WKY rats. FASEB Journal, 2008, 22, 953.6.	0.5	0
59	Mechanosensitive Ion Channels in Blood Pressureâ€Sensing Baroreceptor Neurons. Current Topics in Membranes, 2007, 59, 541-567.	0.9	7
60	Chronic intermittent hypoxia impairs baroreflex control of heart rate but enhances heart rate responses to vagal efferent stimulation in anesthetized mice. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H997-H1006.	3.2	87
61	Selective impairment of central mediation of baroreflex in anesthetized young adult Fischer 344 rats after chronic intermittent hypoxia. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H2809-H2818.	3.2	60
62	Acid-Sensing Ion Channels Contribute to Transduction of Extracellular Acidosis in Rat Carotid Body Glomus Cells. Circulation Research, 2007, 101, 1009-1019.	4.5	71
63	The Continuing Saga of Neuronal Oxidative Stress in Hypertension. Hypertension, 2007, 50, 600-602.	2.7	3
64	Baroreflex responses to electrical stimulation of aortic depressor nerve in conscious SHR. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 292, H593-H600.	3.2	47
65	Degeneration of vagal efferent axons and terminals in cardiac ganglia of aged rats. Journal of Comparative Neurology, 2007, 504, 74-88.	1.6	26
66	Mechano- and chemosensitivity of rat nodose neurones - selective excitatory effects of prostacyclin. Journal of Physiology, 2007, 582, 177-194.	2.9	16
67	Exciting times in sensory transduction from A(drian) to Z. Journal of Physiology, 2007, 582, 13-14.	2.9	4
68	Decreased mRNA expression of ASIC2a in nodose sensory ganglia is associated with development of hypertension in SHR. FASEB Journal, 2007, 21, A1405.	0.5	0
69	Mâ€CURRENT IN NODOSE SENSORY NEURONS MEDIATES THE DEPOLARIZING EFFECT OF PROSTACYCLIN. FASEB Journal, 2007, 21, A1407.	0.5	0
70	NAD(P)H oxidase-induced oxidative stress in sympathetic ganglia of apolipoprotein E deficient mice. Autonomic Neuroscience: Basic and Clinical, 2006, 126-127, 285-291.	2.8	7
71	Baroreceptor Reflex Sensitivity Estimated by the Sequence Technique is Reliable in Rats. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H482-H483.	3.2	59
72	International student exchange and the medical curriculum: evaluation of a medical sciences translational physiology course in Brazil. American Journal of Physiology - Advances in Physiology Education, 2006, 30, 119-123.	1.6	2

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73	Abnormalities in baroreflex sensitivity and autonomic control in conscious ASIC2 â€/â€•mice. FASEB Journal, 2006, 20, A1186.	0.5	2
74	Expression and Localization of Acidâ€Sensing Ion Channels in Mouse Nodose Ganglia. FASEB Journal, 2006, 20, A775.	0.5	2
75	Differential Expression of Acidâ€Sensing Ion Channel (ASIC) Subunits in Rat Carotid Body. FASEB Journal, 2006, 20, A1230.	0.5	1
76	Predicting cardiovascular risk. Clinical Autonomic Research, 2005, 15, 10-12.	2.5	1
77	Frequency-dependent baroreflex modulation of blood pressure and heart rate variability in conscious mice. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 289, H1968-H1975.	3.2	55
78	Neuronal Prostacyclin Is an Autocrine Regulator of Arterial Baroreceptor Activity. Hypertension, 2005, 46, 540-546.	2.7	10
79	Ganglionic Action of Angiotensin Contributes to Sympathetic Activity in Renin-Angiotensinogen Transgenic Mice. Hypertension, 2004, 43, 312-316.	2.7	23
80	Modulation of baroreflex function by altering inspiratory impedance: Potential mechanisms and clinical implications. Clinical Autonomic Research, 2004, 14, 217-9.	2.5	4
81	Differential modulation of baroreflex control of heart rate by neuron- vs. glia-derived angiotensin II. Physiological Genomics, 2004, 20, 66-72.	2.3	34
82	The Baroreceptor Reflex: Novel Methods and Mechanisms. , 2004, , 1-29.		4
83	Determinants of baroreflex sensitivity in health and disease:. Clinical Autonomic Research, 2003, 13, 310-313.	2.5	11
84	Neurocardiovascular regulation in mice: Experimental approaches and novel findings. Clinical and Experimental Pharmacology and Physiology, 2003, 30, 885-893.	1.9	9
85	Modulation of baroreceptor activity by gene transfer of nitric oxide synthase to carotid sinus adventitia. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2003, 284, R1190-R1198.	1.8	14
86	Mechanosensory transduction of vagal and baroreceptor afferents revealed by study of isolated nodose neurons in culture. Autonomic Neuroscience: Basic and Clinical, 2002, 98, 59-63.	2.8	40
87	Erratum to â€œMechanosensory transduction of vagal and baroreceptor afferents revealed by study of isolated nodose neurons in cultureâ€•[Auton. Neurosci. 98 (2002) 59â€“63]. Autonomic Neuroscience: Basic and Clinical, 2002, 101, 91.	2.8	0
88	Analysis of afferent, central, and efferent components of the baroreceptor reflex in mice. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2002, 283, R1033-R1040.	1.8	62
89	Qualitative and quantitative morphology of renal nerves in C57BL/6J mice. The Anatomical Record, 2002, 268, 399-404.	1.8	32
90	Slow inactivation of sodium currents in the rat nodose neurons. Autonomic Neuroscience: Basic and Clinical, 2001, 87, 209-216.	2.8	13

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91	A novel effect of angiotensin on renal sympathetic nerve activity in mice. Journal of Hypertension, 2001, 19, 609-618.	0.5	40
92	Circumventricular Organs: Gateways to the Brain Approaches For Gene Delivery To The Subfornical Organ And Magnocellular Neurons. Clinical and Experimental Pharmacology and Physiology, 2001, 28, 602-609.	1.9	1
93	Angiotensin Selectively Activates a Subpopulation of Postganglionic Sympathetic Neurons in Mice. Circulation Research, 2001, 88, 787-793.	4.5	29
94	Mechanisms Determining Sensitivity of Baroreceptor Afferents in Health and Disease. Annals of the New York Academy of Sciences, 2001, 940, 1-19.	3.8	121
95	Nitric oxide enhances slow inactivation of voltage-dependent sodium currents in rat nodose neurons. Neuroscience Letters, 1999, 271, 159-162.	2.1	40
96	Nitric Oxide as an Autocrine Regulator of Sodium Currents in Baroreceptor Neurons. Neuron, 1998, 20, 1039-1049.	8.1	128
97	Mechanosensitive ion channels in putative aortic baroreceptor neurons. American Journal of Physiology - Heart and Circulatory Physiology, 1998, 275, H1497-H1501.	3.2	31
98	Adenovirus-mediated gene transfer to cultured nodose sensory neurons. Molecular Brain Research, 1997, 51, 33-41.	2.3	19
99	The Prostacyclin Analogue Carbacyclin Inhibits Ca2+-Activated K+Current in Aortic Baroreceptor Neurones of Rats. Journal of Physiology, 1997, 501, 275-287.	2.9	25
100	Gene Transfer to Carotid Sinus In Vivo. Hypertension, 1997, 30, 708-713.	2.7	12
101	Nonâ€“Voltage-Gated Ca 2+ Influx Through Mechanosensitive Ion Channels in Aortic Baroreceptor Neurons. Circulation Research, 1997, 80, 861-867.	4.5	52
102	Platelet Activation in Carotid Sinuses Triggers Reflex Sympathoinhibition and Hypotension. Hypertension, 1996, 27, 584-590.	2.7	14
103	Oxygen-Derived Free Radicals Contribute to Baroreceptor Dysfunction in Atherosclerotic Rabbits. Circulation Research, 1996, 79, 802-811.	4.5	95
104	Platelet-induced suppression of baroreceptor activity is mediated by a stable diffusible factor. Journal of the Autonomic Nervous System, 1995, 51, 59-65.	1.9	9
105	Structural Versus Functional Modulation of the Arterial Baroreflex. Hypertension, 1995, 26, 341-347.	2.7	137
106	Modulation of Baroreceptor Activity by Nitric Oxide and S -Nitrosocysteine. Circulation Research, 1995, 76, 426-433.	4.5	81
107	Hemodynamic Changes during Endotracheal Suctioning Are Mediated by Increased Autonomic Activity. Pediatric Research, 1993, 33, 649-652.	2.3	21
108	Rapid adaptation of central pathways explains the suppressed baroreflex with aging. Neurobiology of Aging, 1991, 12, 601-604.	3.1	25

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109	Paracrine Role of Prostanoids in Activation of Arterial Baroreceptors: An Overview. Clinical and Experimental Hypertension, 1991, 13, 817-824.	0.3	10
110	PERIPHERAL CENTRAL MECHANISMS OF BAROREFLEX RESETTING. Clinical and Experimental Pharmacology and Physiology, 1989, 16, 31-43.	1.9	82
111	Mechanisms of Resetting of Arterial Baroreceptors: An Overview. American Journal of the Medical Sciences, 1988, 295, 327-334.	1.1	102