

Robin M Mcallen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

129
papers

6,216
citations

47
h-index

76
g-index

132
ext. papers

6,652
ext. citations

3.9
avg, IF

5.7
L-index

#	Paper	IF	Citations
129	Reflex regulation of systemic inflammation by the autonomic nervous system.. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2022 , 237, 102926	2.4	0
128	Advancing respiratory-cardiovascular physiology with the working heart-brainstem preparation over 25 years.. <i>Journal of Physiology</i> , 2022 ,	3.9	1
127	Selective optogenetic stimulation of efferent fibers in the vagus nerve of a large mammal. <i>Brain Stimulation</i> , 2021 , 14, 88-96	5.1	8
126	The role of glycinergic inhibition in respiratory pattern formation and cardio-respiratory coupling in rats. <i>Current Research in Physiology</i> , 2021 , 4, 80-93	1.8	1
125	The endogenous inflammatory reflex inhibits the inflammatory response to different immune challenges in mice. <i>Brain, Behavior, and Immunity</i> , 2021 , 97, 371-375	16.6	3
124	A new algorithm for drift compensation in multi-unit recordings of action potentials in peripheral autonomic nerves over time. <i>Journal of Neuroscience Methods</i> , 2020 , 338, 108683	3	2
123	Sympathetic nerves control bacterial clearance. <i>Scientific Reports</i> , 2020 , 10, 15009	4.9	8
122	On the presence and functional significance of sympathetic premotor neurons with collateralized spinal axons in the rat. <i>Journal of Physiology</i> , 2019 , 597, 3407-3423	3.9	17
121	An arterially perfused brainstem preparation of guinea pig to study central mechanisms of airway defense. <i>Journal of Neuroscience Methods</i> , 2019 , 317, 49-60	3	3
120	Circulating epinephrine is not required for chronic stress to enhance metastasis. <i>Psychoneuroendocrinology</i> , 2019 , 99, 191-195	5	19
119	Anti-inflammatory reflex action of splanchnic sympathetic nerves is distributed across abdominal organs. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2019 , 316, R235-R242	3.2	25
118	Calibration of thresholds for functional engagement of vagal A, B and C fiber groups. <i>Bioelectronics in Medicine</i> , 2018 , 1, 21-27	2.1	36
117	Modeling experimental recordings of vagal afferent signaling of intestinal inflammation for neuromodulation. <i>Journal of Neural Engineering</i> , 2018 , 15, 056032	5	3
116	Integrating Competing Demands of Osmoregulatory and Thermoregulatory Homeostasis. <i>Physiology</i> , 2018 , 33, 170-181	9.8	19
115	Vagal afferent activation suppresses systemic inflammation via the splanchnic anti-inflammatory pathway. <i>Brain, Behavior, and Immunity</i> , 2018 , 73, 441-449	16.6	57
114	Efferent thermoregulatory pathways regulating cutaneous blood flow and sweating. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , 2018 , 156, 305-316	3	7
113	Interaction between thermoregulation and osmoregulation in domestic animals. <i>Revista Brasileira De Zootecnia</i> , 2017 , 46, 783-790	1.2	5

112	Spinal cord thermosensitivity: An afferent phenomenon?. <i>Temperature</i> , 2016 , 3, 232-239	5.2	8
111	Control of the Cutaneous Circulation by the Central Nervous System. <i>Comprehensive Physiology</i> , 2016 , 6, 1161-97	7.7	28
110	Brainstem sources of cardiac vagal tone and respiratory sinus arrhythmia. <i>Journal of Physiology</i> , 2016 , 594, 7249-7265	3.9	47
109	Reply to "Letter to the editor: Does low-frequency power of heart rate variability correlate with cardiac sympathetic tone in normal sheep?". <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 308, H148-9	5.2	1
108	The interface between cholinergic pathways and the immune system and its relevance to arthritis. <i>Arthritis Research and Therapy</i> , 2015 , 17, 87	5.7	26
107	The median preoptic nucleus: front and centre for the regulation of body fluid, sodium, temperature, sleep and cardiovascular homeostasis. <i>Acta Physiologica</i> , 2015 , 214, 8-32	5.6	119
106	Letter to the editor: Parasympathetic innervation of the rodent spleen?. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 309, H2158	5.2	7
105	Thermal physiology in a changing thermal world. <i>Temperature</i> , 2015 , 2, 22-6	5.2	
104	Regional brain responses associated with thermogenic and psychogenic sweating events in humans. <i>Journal of Neurophysiology</i> , 2015 , 114, 2578-87	3.2	25
103	Segmental origins of cardiac sympathetic nerve activity in rats. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2015 , 187, 45-9	2.4	4
102	DISTINCT BRAINSTEM ORIGINS OF CARDIAC VAGAL TONE AND RESPIRATORY SINUS ARRHYTHMIA. <i>FASEB Journal</i> , 2015 , 29, 1056.3	0.9	1
101	Reflex control of inflammation by sympathetic nerves, not the vagus. <i>Journal of Physiology</i> , 2014 , 592, 1677-86	3.9	142
100	The low frequency power of heart rate variability is neither a measure of cardiac sympathetic tone nor of baroreflex sensitivity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014 , 307, H1005-12	5.2	61
99	The cholinergic anti-inflammatory pathway: a critical review. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2014 , 182, 65-9	2.4	240
98	Preoptic activation and connectivity during thermal sweating in humans. <i>Temperature</i> , 2014 , 1, 135-41	5.2	18
97	Reflex control of rat tail sympathetic nerve activity by abdominal temperature. <i>Temperature</i> , 2014 , 1, 37-41	5.2	6
96	Reflex control of inflammation by the splanchnic anti-inflammatory pathway is sustained and independent of anesthesia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014 , 307, R1085-91	3.2	29
95	Neural control of inflammation by the greater splanchnic nerves. <i>Temperature</i> , 2014 , 1, 14-5	5.2	6

94	Neural reflex control of immunity: the splanchnic anti-inflammatory pathway (875.1). <i>FASEB Journal</i> , 2014 , 28, 875.1	0.9	
93	Role of an excitatory preoptic-raphé pathway in febrile vasoconstriction of the rat's tail. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013 , 305, R1479-89	3.2	16
92	Location of cat brain stem neurons that drive sweating. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013 , 304, R804-9	3.2	22
91	Brain stem representation of thermal and psychogenic sweating in humans. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013 , 304, R810-7	3.2	21
90	Neural regulation of inflammation: no neural connection from the vagus to splenic sympathetic neurons. <i>Experimental Physiology</i> , 2012 , 97, 1180-5	2.4	124
89	Processing of central and reflex vagal drives by rat cardiac ganglion neurones: an intracellular analysis. <i>Journal of Physiology</i> , 2011 , 589, 5801-18	3.9	49
88	Brain activation associated with ratings of the hedonic component of thermal sensation during whole-body warming and cooling. <i>Journal of Thermal Biology</i> , 2011 , 36, 57-63	2.9	14
87	Preoptic-raphé connections for thermoregulatory vasomotor control. <i>Journal of Neuroscience</i> , 2011 , 31, 5078-88	6.6	56
86	Effect of clonidine on cardiac baroreflex delay in humans and rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011 , 300, R949-57	3.2	13
85	Specific control of sympathetic nerve activity to the mammalian heart and kidney. <i>Experimental Physiology</i> , 2010 , 95, 34-40	2.4	44
84	Ganglionic transmission in a vasomotor pathway studied in vivo. <i>Journal of Physiology</i> , 2010 , 588, 1647-59	3.9	25
83	The peptide or the neuron?. <i>Journal of Physiology</i> , 2010 , 588, 4067-8	3.9	
82	Chemical coding for cardiovascular sympathetic preganglionic neurons in rats. <i>Journal of Neuroscience</i> , 2010 , 30, 11781-91	6.6	23
81	Multiple thermoregulatory effectors with independent central controls. <i>European Journal of Applied Physiology</i> , 2010 , 109, 27-33	3.4	85
80	Basis for the preferential activation of cardiac sympathetic nerve activity in heart failure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 924-8	11.5	75
79	Control of cardiac rate, contractility, and atrioventricular conduction by medullary raphe neurons in anesthetized rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009 , 296, H318-24	5.2	10
78	Roles of two preoptic cell groups in tonic and febrile control of rat tail sympathetic fibers. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009 , 296, R1248-57	3.2	43
77	Short of air? Cool it!. <i>Journal of Physiology</i> , 2009 , 587, 5009-10	3.9	1

76	Analysis of sympathetic neural discharge in rats and humans. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 1265-82	3	23
75	Central osmoregulatory influences on thermoregulation. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2008 , 35, 701-5	3	17
74	Functional topography of the dorsomedial hypothalamus. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008 , 294, R477-86	3.2	39
73	Restorative effect of atrial natriuretic peptide or chronic neutral endopeptidase inhibition on blunted cardiopulmonary vagal reflexes in aged rats. <i>Hypertension</i> , 2008 , 52, 696-701	8.5	11
72	Cardioinhibitory actions of clonidine assessed by cardiac vagal motoneuron recordings. <i>Journal of Hypertension</i> , 2008 , 26, 1169-80	1.9	18
71	Functional topography of the dorsomedial hypothalamus. <i>FASEB Journal</i> , 2008 , 22, 1167.6	0.9	
70	Independent vasomotor control of rat tail and proximal hairy skin. <i>Journal of Physiology</i> , 2007 , 582, 421-33	3.3	31
69	The cold path to BAT. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007 , 292, R124-6	3.2	4
68	Nonuniformity in the von Bezold-Jarisch reflex. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007 , 293, R714-20	3.2	29
67	Comparison between two rat sympathetic pathways activated in cold defense. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006 , 291, R589-95	3.2	45
66	Human medullary responses to cooling and rewarming the skin: a functional MRI study. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 809-13	11.5	67
65	Differential control of cardiac functions by the brain. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2006 , 33, 1255-8	3	15
64	Reflex activation of rat fusimotor neurons by body surface cooling, and its dependence on the medullary raphe. <i>Journal of Physiology</i> , 2006 , 572, 569-83	3.9	51
63	A neglected accessory vasomotor pathway: implications for blood pressure control. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2005 , 32, 473-7	3	2
62	Misidentification of cardiac vagal pre-ganglionic neurons after injections of retrograde tracer into the pericardial space in the rat. <i>Cell and Tissue Research</i> , 2005 , 321, 335-40	4.2	19
61	A subsidiary fever center in the medullary raphe. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005 , 289, R1592-8	3.2	22
60	Personal body maps. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005 , 289, R317-R318	3.2	1
59	Cortical, thalamic, and hypothalamic responses to cooling and warming the skin in awake humans: a positron-emission tomography study. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 5262-7	11.5	78

58	Stimulation of cardiac sympathetic nerve activity by central angiotensinergic mechanisms in conscious sheep. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2004 , 286, R1051-6	3.2	43
57	Preoptic thermoregulatory mechanisms in detail. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2004 , 287, R272-3	3.2	9
56	Vasopressin secretion: osmotic and hormonal regulation by the lamina terminalis. <i>Journal of Neuroendocrinology</i> , 2004 , 16, 340-7	3.8	170
55	Inhibition of rostral medullary raphe neurons prevents cold-induced activity in sympathetic nerves to rat tail and rabbit ear arteries. <i>Neuroscience Letters</i> , 2004 , 357, 58-62	3.3	71
54	Are pre-ganglionic neurones recruited in a set order?. <i>Acta Physiologica Scandinavica</i> , 2003 , 177, 219-25		6
53	Re-establishment of neurochemical coding of preganglionic neurons innervating transplanted targets. <i>Neuroscience</i> , 2003 , 117, 347-60	3.9	12
52	The brain renin-angiotensin system: location and physiological roles. <i>International Journal of Biochemistry and Cell Biology</i> , 2003 , 35, 901-18	5.6	400
51	Sympathetic vasomotor tone—time to move beyond the Network Oscillator Hypothesis?. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2002 , 283, R1285-6; author reply R1286-7	3.2	
50	A simple method for generating a blood pressure-unit activity relationship for central cardiovascular neurons in the rat. <i>Experimental Physiology</i> , 2002 , 87, 535-8	2.4	4
49	Role of the medullary raphe in thermoregulatory vasomotor control in rats. <i>Journal of Physiology</i> , 2002 , 540, 657-64	3.9	92
48	Thermoregulatory control of sympathetic fibres supplying the rat's tail. <i>Journal of Physiology</i> , 2002 , 543, 849-58	3.9	71
47	Aldosterone acts on the kidney, not the brain, to cause mineralocorticoid hypertension in sheep. <i>Journal of Hypertension</i> , 2002 , 20, 1203-8	1.9	9
46	ANP potentiates nonarterial baroreflex bradycardia: evidence from sinoaortic denervation in rats. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2002 , 97, 89-98	2.4	16
45	Control of postganglionic neurone phenotype by the rat pineal gland. <i>Neuroscience</i> , 2002 , 109, 329-37	3.9	17
44	Neural pathways from the lamina terminalis influencing cardiovascular and body fluid homeostasis. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2001 , 28, 990-2	3	76
43	Cold-activated raphe spinal neurons in rats. <i>Journal of Physiology</i> , 2001 , 535, 841-54	3.9	67
42	Electrical stimulation of the renal nerve neither replicates its natural burst pattern nor proves the importance of that pattern for renal function. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2000 , 279, R355-6	3.2	2
41	Patterning of sympathetic nerve activity in response to vestibular stimulation. <i>Brain Research Bulletin</i> , 2000 , 53, 11-6	3.9	46

40	Differential control of sympathetic drive to the rat tail artery and kidney by medullary premotor cell groups. <i>Brain Research</i> , 1999 , 834, 196-9	3.7	96
39	Satellite Symposium on Neural Mechanisms in Hypertension. <i>Clinical and Experimental Pharmacology and Physiology</i> , 1998 , 25, 445-445	3	
38	The lumbar preganglionic sympathetic supply to rat tail and hindpaw. <i>Journal of the Autonomic Nervous System</i> , 1998 , 69, 127-31		23
37	Sympathetic burst activity: characteristics and significance. <i>Clinical and Experimental Pharmacology and Physiology</i> , 1997 , 24, 791-9	3	78
36	Distinct preganglionic neurons innervate noradrenaline and adrenaline cells in the cat adrenal medulla. <i>Neuroscience</i> , 1996 , 70, 825-32	3.9	67
35	Nitric oxide synthase and chemical coding in cat sympathetic postganglionic neurons. <i>Neuroscience</i> , 1995 , 68, 255-64	3.9	30
34	Localization of barosensitive neurons in the caudal ventrolateral medulla which project to the rostral ventrolateral medulla. <i>Brain Research</i> , 1994 , 657, 258-68	3.7	42
33	Is CRF a ganglionic transmitter or modulator in the cat sudomotor pathway?. <i>Brain Research</i> , 1994 , 652, 129-36	3.7	4
32	Monosynaptic excitation of preganglionic vasomotor neurons by subretrofacial neurons of the rostral ventrolateral medulla. <i>Brain Research</i> , 1994 , 634, 227-34	3.7	27
31	A comparison of hypotensive and non-hypotensive hemorrhage on Fos expression in spinally projecting neurons of the paraventricular nucleus and rostral ventrolateral medulla. <i>Brain Research</i> , 1993 , 610, 216-23	3.7	101
30	Efferent neural pathways of the lamina terminalis subserving osmoregulation. <i>Progress in Brain Research</i> , 1992 , 91, 395-402	2.9	73
29	Classification of preganglionic neurones projecting into the cat cervical sympathetic trunk. <i>Journal of Physiology</i> , 1992 , 453, 319-39	3.9	46
28	Actions of carotid chemoreceptors on subretrofacial bulbospinal neurons in the cat. <i>Journal of the Autonomic Nervous System</i> , 1992 , 40, 181-8		22
27	Rostrocaudal differences in morphology and neurotransmitter content of cells in the subretrofacial vasomotor nucleus. <i>Journal of the Autonomic Nervous System</i> , 1992 , 38, 117-37		32
26	Hemorrhage induces c-fos immunoreactivity in spinally projecting neurons of cat subretrofacial nucleus. <i>Brain Research</i> , 1992 , 575, 329-32	3.7	48
25	Distribution of hypothalamic, medullary and lamina terminalis neurons expressing Fos after hemorrhage in conscious rats. <i>Brain Research</i> , 1992 , 582, 323-8	3.7	83
24	CRF-like immunoreactivity selectively labels preganglionic sudomotor neurons in cat. <i>Brain Research</i> , 1992 , 599, 253-60	3.7	26
23	Intravenous hypertonic saline induces Fos immunoreactivity in neurons throughout the lamina terminalis. <i>Brain Research</i> , 1991 , 561, 151-6	3.7	153

22	Vasomotor neurons in the rostral ventrolateral medulla are organized topographically with respect to type of vascular bed but not body region. <i>Neuroscience Letters</i> , 1990 , 110, 91-6	3.3	105
21	The conduction velocity of the descending spinal pathway to the renal sympathetic nerve in the cat. <i>Journal of the Autonomic Nervous System</i> , 1990 , 30, 139-42		1
20	Baroreceptor inhibition of subretrofacial neurons: evidence from intracellular recordings in the cat. <i>Neuroscience Letters</i> , 1990 , 111, 139-43	3.3	18
19	The selectivity of descending vasomotor control by subretrofacial neurons. <i>Progress in Brain Research</i> , 1989 , 81, 233-42	2.9	30
18	Long-latency baroreceptor inhibition of supraoptic neurones in the cat. <i>Neuroscience Letters</i> , 1988 , 84, 287-90	3.3	8
17	Differential control of sympathetic fibres supplying hindlimb skin and muscle by subretrofacial neurones in the cat. <i>Journal of Physiology</i> , 1988 , 395, 41-56	3.9	152
16	Central respiratory modulation of subretrofacial bulbospinal neurones in the cat. <i>Journal of Physiology</i> , 1987 , 388, 533-45	3.9	93
15	Neurons (presumably A1-cells) projecting from the caudal ventrolateral medulla to the region of the supraoptic nucleus respond to baroreceptor inputs in the rabbit. <i>Neuroscience Letters</i> , 1987 , 73, 247-52	3.3	47
14	Vasomotor control by subretrofacial neurones in the rostral ventrolateral medulla. <i>Canadian Journal of Physiology and Pharmacology</i> , 1987 , 65, 1572-9	2.4	50
13	Action and specificity of ventral medullary vasopressor neurones in the cat. <i>Neuroscience</i> , 1986 , 18, 51-9	3.9	104
12	Location of neurones with cardiovascular and respiratory function, at the ventral surface of the cat's medulla. <i>Neuroscience</i> , 1986 , 18, 43-9	3.9	96
11	Identification and properties of sub-retrofacial bulbospinal neurones: a descending cardiovascular pathway in the cat. <i>Journal of the Autonomic Nervous System</i> , 1986 , 17, 151-64		129
10	Mediation of the fastigial pressor response and a somatosympathetic reflex by ventral medullary neurones in the cat. <i>Journal of Physiology</i> , 1985 , 368, 423-33	3.9	53
9	GABA antagonists applied to the ventral surface of the medulla oblongata block the baroreceptor reflex. <i>Brain Research</i> , 1984 , 297, 175-80	3.7	94
8	Effects of kainic acid applied to the ventral surface of the medulla oblongata on vasomotor tone, the baroreceptor reflex and hypothalamic autonomic responses. <i>Brain Research</i> , 1982 , 238, 65-76	3.7	163
7	Two types of vagal preganglionic motoneurons projecting to the heart and lungs. <i>Journal of Physiology</i> , 1978 , 282, 353-64	3.9	164
6	The baroreceptor input to cardiac vagal motoneurons. <i>Journal of Physiology</i> , 1978 , 282, 365-74	3.9	143
5	The carotid chemoreceptor input to the respiratory neurones of the nucleus of tractus solitarius. <i>Journal of Physiology</i> , 1977 , 269, 797-810	3.9	100

- 4 Carotid baroreceptor and chemoreceptor inputs onto single medullary neurones. *Brain Research*, **1976**, 107, 132-6 3.7 61
- 3 The location of cardiac vagal preganglionic motoneurons in the medulla of the cat. *Journal of Physiology*, **1976**, 258, 187-204 3.9 185
- 2 The sinus nerve and baroreceptor input to the medulla of the cat. *Journal of Physiology*, **1975**, 251, 61-78.9 130
- 1 Modification of the reflex response to stimulation of carotid sinus baroreceptors during and following stimulation of the hypothalamic defence area in the cat. *Journal of Physiology*, **1971**, 216, 461-82 46