

Patrice G Guyenet

List of Publications by Year in descending order

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172
papers

17,071
citations

9264

74
h-index

16650

123
g-index

183
all docs

183
docs citations

183
times ranked

8254
citing authors

#	ARTICLE	IF	CITATIONS
1	The sympathetic control of blood pressure. <i>Nature Reviews Neuroscience</i> , 2006, 7, 335-346.	10.2	1,535
2	Wild-type microglia arrest pathology in a mouse model of Rett syndrome. <i>Nature</i> , 2012, 484, 105-109.	27.8	547
3	Respiratory control by ventral surface chemoreceptor neurons in rats. <i>Nature Neuroscience</i> , 2004, 7, 1360-1369.	14.8	486
4	Neural Control of Breathing and CO2 Homeostasis. <i>Neuron</i> , 2015, 87, 946-961.	8.1	340
5	Expression of Phox2b by Brainstem Neurons Involved in Chemosensory Integration in the Adult Rat. <i>Journal of Neuroscience</i> , 2006, 26, 10305-10314.	3.6	311
6	Peripheral chemoreceptor inputs to retrotrapezoid nucleus (RTN) CO2-sensitive neurons in rats. <i>Journal of Physiology</i> , 2006, 572, 503-523.	2.9	273
7	Distribution of α_2 C-adrenergic receptor-like immunoreactivity in the rat central nervous system. <i>Journal of Comparative Neurology</i> , 1996, 372, 135-165.	1.6	266
8	The coeruleospinal noradrenergic neurons: Anatomical and electrophysiological studies in the rat. <i>Brain Research</i> , 1980, 189, 121-133.	2.2	263
9	Regulation of Breathing and Autonomic Outflows by Chemoreceptors. , 2014, 4, 1511-1562.		248
10	Afferent and efferent connections of the A5 noradrenergic cell group in the rat. <i>Journal of Comparative Neurology</i> , 1987, 261, 529-542.	1.6	243
11	Role of excitatory amino acids in rat vagal and sympathetic baroreflexes. <i>Brain Research</i> , 1987, 407, 272-284.	2.2	240
12	Identification of C1 presympathetic neurons in rat rostral ventrolateral medulla by juxtacellular labeling in vivo. , 1997, 387, 524-536.		240
13	Vagus nerve stimulation mediates protection from kidney ischemia-reperfusion injury through α_7 nAChR+ splenocytes. <i>Journal of Clinical Investigation</i> , 2016, 126, 1939-1952.	8.2	225
14	Afferent and efferent connections of the rat retrotrapezoid nucleus. <i>Journal of Comparative Neurology</i> , 2006, 499, 64-89.	1.6	224
15	Hypothalamic orexin (hypocretin) neurons express vesicular glutamate transporters VGLUT1 or VGLUT2. <i>Journal of Comparative Neurology</i> , 2003, 465, 593-603.	1.6	221
16	C1 neurons: the body's EMTs. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 305, R187-R204.	1.8	219
17	Distribution of α_2 A-adrenergic receptor-like immunoreactivity in the rat central nervous system. , 1996, 372, 111-134.		216
18	Neurokinin-1 receptor-immunoreactive neurons of the ventral respiratory group in the rat. <i>Journal of Comparative Neurology</i> , 2001, 434, 128-146.	1.6	208

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19	Vesicular glutamate transporter DNPI/VGLUT2 mRNA is present in C1 and several other groups of brainstem catecholaminergic neurons. <i>Journal of Comparative Neurology</i> , 2002, 444, 191-206.	1.6	207
20	Neural structures that mediate sympathoexcitation during hypoxia. <i>Respiration Physiology</i> , 2000, 121, 147-162.	2.7	202
21	Central respiratory chemoreception. <i>Journal of Comparative Neurology</i> , 2010, 518, 3883-3906.	1.6	199
22	A group of glutamatergic interneurons expressing high levels of both neurokinin-1 receptors and somatostatin identifies the region of the pre-Bötzing complex. <i>Journal of Comparative Neurology</i> , 2003, 455, 499-512.	1.6	197
23	Regulation of breathing by CO ₂ requires the proton-activated receptor GPR4 in retrotrapezoid nucleus neurons. <i>Science</i> , 2015, 348, 1255-1260.	12.6	190
24	Photostimulation of Retrotrapezoid Nucleus Phox2b-Expressing Neurons <i>In Vivo</i> Produces Long-Lasting Activation of Breathing in Rats. <i>Journal of Neuroscience</i> , 2009, 29, 5806-5819.	3.6	188
25	Vesicular glutamate transporter DNPI/VGLUT2 is expressed by both C1 adrenergic and nonaminergic presympathetic vasomotor neurons of the rat medulla. <i>Journal of Comparative Neurology</i> , 2002, 444, 207-220.	1.6	172
26	The Baroreflex And Beyond: Control Of Sympathetic Vasomotor Tone By Gabaergic Neurons In The Ventrolateral Medulla. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2002, 29, 514-521.	1.9	168
27	TASK Channels Determine pH Sensitivity in Select Respiratory Neurons But Do Not Contribute to Central Respiratory Chemosensitivity. <i>Journal of Neuroscience</i> , 2007, 27, 14049-14058.	3.6	167
28	Regulation of Ventral Surface Chemoreceptors by the Central Respiratory Pattern Generator. <i>Journal of Neuroscience</i> , 2005, 25, 8938-8947.	3.6	159
29	Effect of clonidine and \hat{I}^3 -Aminobutyric acid on the discharges of medullo-spinal sympathoexcitatory neurons in the rat. <i>Brain Research</i> , 1986, 368, 1-17.	2.2	153
30	Serotonergic Raphe Neurons Express TASK Channel Transcripts and a TASK-Like pH- and Halothane-Sensitive K ⁺ Conductance. <i>Journal of Neuroscience</i> , 2002, 22, 1256-1265.	3.6	144
31	Sympathoexcitatory neurons of rostral ventrolateral medulla exhibit pacemaker properties in the presence of a glutamate-receptor antagonist. <i>Brain Research</i> , 1988, 438, 23-40.	2.2	143
32	C1 neurons mediate a stress-induced anti-inflammatory reflex in mice. <i>Nature Neuroscience</i> , 2017, 20, 700-707.	14.8	142
33	Control of Breathing by Raphe Obscure Serotonergic Neurons in Mice. <i>Journal of Neuroscience</i> , 2011, 31, 1981-1990.	3.6	140
34	Chapter 7 Sympathoexcitatory neurons of the rostroventrolateral medulla and the origin of the sympathetic vasomotor tone. <i>Progress in Brain Research</i> , 1989, 81, 105-116.	1.4	137
35	The 2008 Carl Ludwig Lecture: retrotrapezoid nucleus, CO ₂ homeostasis, and breathing automaticity. <i>Journal of Applied Physiology</i> , 2008, 105, 404-416.	2.5	136
36	Distribution of glutamic acid decarboxylase mRNA-containing neurons in rat medulla projecting to thoracic spinal cord in relation to monoaminergic brainstem neurons. <i>Journal of Comparative Neurology</i> , 1999, 407, 367-380.	1.6	132

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37	Mechanism of the Hypotensive Action of Anandamide in Anesthetized Rats. <i>Hypertension</i> , 1996, 28, 682-686.	2.7	132
38	Evidence for glycinergic respiratory neurons: $\text{Bi}1/2$ tzinger neurons express mRNA for glycinergic transporter 2. <i>Journal of Comparative Neurology</i> , 1999, 407, 583-597.	1.6	131
39	Retrotrapezoid nucleus and central chemoreception. <i>Journal of Physiology</i> , 2008, 586, 2043-2048.	2.9	131
40	Chapter 8 Role of medulla oblongata in generation of sympathetic and vagal outflows. <i>Progress in Brain Research</i> , 1996, 107, 127-144.	1.4	129
41	The Retrotrapezoid Nucleus: Central Chemoreceptor and Regulator of Breathing Automaticity. <i>Trends in Neurosciences</i> , 2019, 42, 807-824.	8.6	129
42	Ventrolateral medulla and sympathetic chemoreflex in the rat. <i>Brain Research</i> , 1993, 609, 174-184.	2.2	127
43	Regulation of sympathetic tone and arterial pressure by rostral ventrolateral medulla after depletion of C1 cells in rat. <i>Journal of Physiology</i> , 2000, 529, 221-236.	2.9	127
44	Serotonergic Neurons Activate Chemosensitive Retrotrapezoid Nucleus Neurons by a pH-Independent Mechanism. <i>Journal of Neuroscience</i> , 2007, 27, 14128-14138.	3.6	127
45	Autonomic areas of rat brain exhibit increased Fos-like immunoreactivity during opiate withdrawal in rats. <i>Brain Research</i> , 1993, 624, 19-28.	2.2	122
46	Neurokinin-1 Receptor-Expressing Cells of the Ventral Respiratory Group Are Functionally Heterogeneous and Predominantly Glutamatergic. <i>Journal of Neuroscience</i> , 2002, 22, 3806-3816.	3.6	122
47	Central chemoreceptors and sympathetic vasomotor outflow. <i>Journal of Physiology</i> , 2006, 577, 369-386.	2.9	119
48	Selective lesion of retrotrapezoid Phox2b -expressing neurons raises the apnoeic threshold in rats. <i>Journal of Physiology</i> , 2008, 586, 2975-2991.	2.9	119
49	Properties of C1 and other ventrolateral medullary neurones with hypothalamic projections in the rat. <i>Journal of Physiology</i> , 1999, 517, 477-494.	2.9	118
50	Water deprivation activates a glutamatergic projection from the hypothalamic paraventricular nucleus to the rostral ventrolateral medulla. <i>Journal of Comparative Neurology</i> , 2006, 494, 673-685.	1.6	117
51	Reticulospinal pacemaker neurons of the rat rostral ventrolateral medulla with putative sympathoexcitatory function: an intracellular study in vitro. <i>Brain Research</i> , 1988, 442, 229-239.	2.2	116
52	Acid sensitivity and ultrastructure of the retrotrapezoid nucleus in Phox2b -EGFP transgenic mice. <i>Journal of Comparative Neurology</i> , 2009, 517, 69-86.	1.6	115
53	Projections of nucleus paragigantocellularis lateralis to locus coeruleus and other structures in rat. <i>Brain Research</i> , 1987, 406, 171-184.	2.2	113
54	Phox2b -Expressing Neurons of the Parafacial Region Regulate Breathing Rate, Inspiration, and Expiration in Conscious Rats. <i>Journal of Neuroscience</i> , 2011, 31, 16410-16422.	3.6	113

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55	Pre-Bötzinger Neurons With Preinspiratory Discharges <i>in Vivo</i> Express NK1 Receptors in the Rat. <i>Journal of Neurophysiology</i> , 2001, 86, 438-446.	1.8	112
56	Central CO ₂ chemoreception and integrated neural mechanisms of cardiovascular and respiratory control. <i>Journal of Applied Physiology</i> , 2010, 108, 995-1002.	2.5	109
57	Localization of brain angiotensinogen mRNA by hybridization histochemistry. <i>Molecular Brain Research</i> , 1987, 2, 149-158.	2.3	106
58	Re: Retrotrapezoid nucleus: a litmus test for the identification of central chemoreceptors. <i>Experimental Physiology</i> , 2005, 90, 253-257.	2.0	102
59	Elimination of long-term potentiation in the hippocampus by phencyclidine and ketamine. <i>Brain Research</i> , 1983, 258, 159-164.	2.2	101
60	Alpha2A-adrenergic receptors are present in lower brainstem catecholaminergic and serotonergic neurons innervating spinal cord. <i>Brain Research</i> , 1994, 638, 285-294.	2.2	101
61	Photostimulation of channelrhodopsin ₂ expressing ventrolateral medullary neurons increases sympathetic nerve activity and blood pressure in rats. <i>Journal of Physiology</i> , 2009, 587, 5613-5631.	2.9	101
62	TASK-2 Channels Contribute to pH Sensitivity of Retrotrapezoid Nucleus Chemoreceptor Neurons. <i>Journal of Neuroscience</i> , 2013, 33, 16033-16044.	3.6	98
63	Selective Optogenetic Activation of Rostral Ventrolateral Medullary Catecholaminergic Neurons Produces Cardiorespiratory Stimulation in Conscious Mice. <i>Journal of Neuroscience</i> , 2013, 33, 3164-3177.	3.6	95
64	Location and electrophysiological characterization of rostral medullary adrenergic neurons that contain neuropeptide Y mRNA in rat medulla. , 1999, 415, 482-500.		93
65	Effect of sodium, hemicholinium-3 and antiparkinson drugs on [14C]acetylcholine synthesis and [3H]choline uptake in rat striatal synaptosomes. <i>Brain Research</i> , 1973, 62, 523-529.	2.2	89
66	Electrophysiological properties of spinally-projecting A5 noradrenergic neurons. <i>Brain Research</i> , 1984, 303, 15-29.	2.2	89
67	Retrotrapezoid nucleus, respiratory chemosensitivity and breathing automaticity. <i>Respiratory Physiology and Neurobiology</i> , 2009, 168, 59-68.	1.6	87
68	Pre-Bötzing complex receives glutamatergic innervation from galaninergic and other retrotrapezoid nucleus neurons. <i>Journal of Comparative Neurology</i> , 2012, 520, 1047-1061.	1.6	86
69	Phox2b-Expressing Retrotrapezoid Neurons Are Intrinsically Responsive to H ⁺ and CO ₂ . <i>Journal of Neuroscience</i> , 2013, 33, 7756-7761.	3.6	86
70	Retrotrapezoid nucleus and parafacial respiratory group. <i>Respiratory Physiology and Neurobiology</i> , 2010, 173, 244-255.	1.6	85
71	Blockade of long-term potentiation by phencyclidine and <i>if</i> opiates in the hippocampus in vivo and in vitro. <i>Brain Research</i> , 1983, 280, 127-138.	2.2	83
72	Rostral ventrolateral medullary neurons with intrinsic pacemaker properties are not catecholaminergic. <i>Brain Research</i> , 1988, 451, 345-349.	2.2	83

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73	Photostimulation of Phox2b Medullary Neurons Activates Cardiorespiratory Function in Conscious Rats. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2010, 182, 1184-1194.	5.6	80
74	Depressor and Tachypneic Responses to Chemical Stimulation of the Ventral Respiratory Group Are Reduced by Ablation of Neurokinin-1 Receptor-Expressing Neurons. <i>Journal of Neuroscience</i> , 2002, 22, 3755-3764.	3.6	79
75	Fos expression by glutamatergic neurons of the solitary tract nucleus after phenylephrine-induced hypertension in rats. <i>Journal of Comparative Neurology</i> , 2003, 460, 525-541.	1.6	79
76	Baro-Activated Neurons With Pulse-Modulated Activity in the Rat Caudal Ventrolateral Medulla Express GAD67 mRNA. <i>Journal of Neurophysiology</i> , 2003, 89, 1265-1277.	1.8	78
77	Böttinger Expiratory-Augmenting Neurons and the Parafacial Respiratory Group. <i>Journal of Neuroscience</i> , 2008, 28, 2506-2515.	3.6	78
78	Optogenetic Stimulation of Adrenergic C1 Neurons Causes Sleep State-Dependent Cardiorespiratory Stimulation and Arousal with Sighs in Rats. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014, 190, 1301-1310.	5.6	77
79	Preproenkephalin mRNA is expressed by C1 and non-C1 barosensitive bulbospinal neurons in the rostral ventrolateral medulla of the rat. <i>Journal of Comparative Neurology</i> , 2001, 435, 111-126.	1.6	75
80	Coexpression of vesicular glutamate transporter-3 and $\hat{1}^3$ -aminobutyric acidergic markers in rat rostral medullary raphe and intermediolateral cell column. <i>Journal of Comparative Neurology</i> , 2005, 492, 477-494.	1.6	75
81	Angiotensin II Decreases a Resting K ⁺ Conductance in Rat Bulbospinal Neurons of the C1 Area. <i>Circulation Research</i> , 1996, 78, 274-282.	4.5	74
82	Inspiratory augmenting bulbospinal neurons express both glutamatergic and enkephalinergic phenotypes. <i>Journal of Comparative Neurology</i> , 2003, 455, 113-124.	1.6	73
83	Proton detection and breathing regulation by the retrotrapezoid nucleus. <i>Journal of Physiology</i> , 2016, 594, 1529-1551.	2.9	73
84	State-dependent control of breathing by the retrotrapezoid nucleus. <i>Journal of Physiology</i> , 2015, 593, 2909-2926.	2.9	72
85	Purinergic P2 Receptors Modulate Excitability But Do Not Mediate pH Sensitivity of RTN Respiratory Chemoreceptors. <i>Journal of Neuroscience</i> , 2006, 26, 7230-7233.	3.6	71
86	Non-dopaminergic nigrostriatal pathway. <i>Brain Research</i> , 1981, 213, 291-305.	2.2	70
87	GABAergic and glycinergic presympathetic neurons of rat medulla oblongata identified by retrograde transport of pseudorabies virus and in situ hybridization. <i>Journal of Comparative Neurology</i> , 2004, 479, 257-270.	1.6	68
88	Anesthetic Activation of Central Respiratory Chemoreceptor Neurons Involves Inhibition of a THIK-1-Like Background K ⁺ Current. <i>Journal of Neuroscience</i> , 2010, 30, 9324-9334.	3.6	67
89	Inhibitory input from slowly adapting lung stretch receptors to retrotrapezoid nucleus chemoreceptors. <i>Journal of Physiology</i> , 2007, 580, 285-300.	2.9	66
90	Nalcn Is a "Leak" Sodium Channel That Regulates Excitability of Brainstem Chemosensory Neurons and Breathing. <i>Journal of Neuroscience</i> , 2016, 36, 8174-8187.	3.6	66

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91	Unit activity in nucleus paragigantocellularis lateralis during cerebral ischemia in the rat. <i>Brain Research</i> , 1986, 364, 301-314.	2.2	64
92	Silent hypoxaemia in COVID-19 patients. <i>Journal of Physiology</i> , 2021, 599, 1057-1065.	2.9	64
93	Inhibition of sympathetic preganglionic discharges by epinephrine and \pm -methylepinephrine. <i>Brain Research</i> , 1982, 235, 271-283.	2.2	61
94	Baroreceptor-mediated inhibition of A5 noradrenergic neurons. <i>Brain Research</i> , 1984, 303, 31-40.	2.2	61
95	Neuromedin B Expression Defines the Mouse Retrotrapezoid Nucleus. <i>Journal of Neuroscience</i> , 2017, 37, 11744-11757.	3.6	61
96	Effects of vasopressin and other neuropeptides on rostral medullary sympathoexcitatory neurons \hat{e} in vitro \hat{e} . <i>Brain Research</i> , 1989, 492, 261-270.	2.2	60
97	Effects of morphine and morphine withdrawal on adrenergic neurons of the rat rostral ventrolateral medulla. <i>Brain Research</i> , 1995, 676, 245-257.	2.2	60
98	Hypoxia Silences Retrotrapezoid Nucleus Respiratory Chemoreceptors via Alkalosis. <i>Journal of Neuroscience</i> , 2015, 35, 527-543.	3.6	60
99	Blood Pressure Regulation by the Rostral Ventrolateral Medulla in Conscious Rats: Effects of Hypoxia, Hypercapnia, Baroreceptor Denervation, and Anesthesia. <i>Journal of Neuroscience</i> , 2017, 37, 4565-4583.	3.6	57
100	Glutamatergic neuronal projections from the marginal layer of the rostral ventral medulla to the respiratory centers in rats. <i>Journal of Comparative Neurology</i> , 2004, 473, 73-85.	1.6	56
101	Pre- and Postsynaptic Inhibitory Actions of Methionine-Enkephalin on Identified Bulbospinal Neurons of the Rat RVL. <i>Journal of Neurophysiology</i> , 1998, 80, 2003-2014.	1.8	55
102	Vagus nerve stimulation activates two distinct neuroimmune circuits converging in the spleen to protect mice from kidney injury. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	55
103	Glutamatergic Neurotransmission between the C1 Neurons and the Parasympathetic Preganglionic Neurons of the Dorsal Motor Nucleus of the Vagus. <i>Journal of Neuroscience</i> , 2013, 33, 1486-1497.	3.6	54
104	Neuronal Networks in Hypertension. <i>Hypertension</i> , 2020, 76, 300-311.	2.7	54
105	Cholinergic neurons in the mouse rostral ventrolateral medulla target sensory afferent areas. <i>Brain Structure and Function</i> , 2013, 218, 455-475.	2.3	53
106	Optogenetic Stimulation of C1 and Retrotrapezoid Nucleus Neurons Causes Sleep State \hat{e} Dependent Cardiorespiratory Stimulation and Arousal in Rats. <i>Hypertension</i> , 2013, 61, 835-841.	2.7	53
107	Rostral Ventrolateral Medulla and Hypertension. <i>Hypertension</i> , 2018, 72, 559-566.	2.7	53
108	Orexin A activates retrotrapezoid neurons in mice. <i>Respiratory Physiology and Neurobiology</i> , 2011, 175, 283-287.	1.6	52

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109	Activation of the retrotrapezoid nucleus by posterior hypothalamic stimulation. <i>Journal of Physiology</i> , 2009, 587, 5121-5138.	2.9	50
110	Monosynaptic Glutamatergic Activation of Locus Coeruleus and Other Lower Brainstem Noradrenergic Neurons by the C1 Cells in Mice. <i>Journal of Neuroscience</i> , 2013, 33, 18792-18805.	3.6	50
111	Retrotrapezoid nucleus in the rat. <i>Neuroscience Letters</i> , 1989, 101, 138-142.	2.1	49
112	Galanin is a selective marker of the retrotrapezoid nucleus in rats. <i>Journal of Comparative Neurology</i> , 2009, 512, 373-383.	1.6	49
113	Breathing regulation and blood gas homeostasis after near complete lesions of the retrotrapezoid nucleus in adult rats. <i>Journal of Physiology</i> , 2018, 596, 2521-2545.	2.9	47
114	Regional differences in the sensitivity of cholinergic neurons to dopaminergic drugs and quipazine in the rat striatum. <i>Brain Research</i> , 1977, 136, 487-500.	2.2	46
115	Cardiorespiratory neurons of the rat ventrolateral medulla contain TASK-1 and TASK-3 channel mRNA. <i>Respiratory Physiology and Neurobiology</i> , 2003, 138, 19-35.	1.6	45
116	An electrophysiological study of the forebrain projection of nucleus commissuralis: Preliminary identification of presumed A2 catecholaminergic neurons. <i>Brain Research</i> , 1983, 263, 211-222.	2.2	43
117	The Retrotrapezoid Nucleus and Breathing. <i>Advances in Experimental Medicine and Biology</i> , 2012, 758, 115-122.	1.6	42
118	GABAergic Pump Cells of Solitary Tract Nucleus Innervate Retrotrapezoid Nucleus Chemoreceptors. <i>Journal of Neurophysiology</i> , 2007, 98, 374-381.	1.8	41
119	Regulation of visceral sympathetic tone by A5 noradrenergic neurons in rodents. <i>Journal of Physiology</i> , 2011, 589, 903-917.	2.9	41
120	Voltage-Dependent Calcium Currents in Bulbosplinal Neurons of Neonatal Rat Rostral Ventrolateral Medulla: Modulation by α_2 -Adrenergic Receptors. <i>Journal of Neurophysiology</i> , 1998, 79, 583-594.	1.8	40
121	Interdependent feedback regulation of breathing by the carotid bodies and the retrotrapezoid nucleus. <i>Journal of Physiology</i> , 2018, 596, 3029-3042.	2.9	40
122	The orexinergic neurons receive synaptic input from C1 cells in rats. <i>Journal of Comparative Neurology</i> , 2014, 522, 3834-3846.	1.6	39
123	Respiratory modulation of pre- and postganglionic lumbar vasomotor sympathetic neurons in the rat. <i>Neuroscience Letters</i> , 1990, 119, 148-152.	2.1	38
124	Transneuronal mapping of the CNS network controlling sympathetic outflow to the rat thymus. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2007, 131, 9-20.	2.8	38
125	μ -opioid receptors are present in functionally identified sympathoexcitatory neurons in the rat rostral ventrolateral medulla. <i>Journal of Comparative Neurology</i> , 2001, 433, 34-47.	1.6	37
126	Opioid Signalling In The Rat Rostral Ventrolateral Medulla. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2002, 29, 238-242.	1.9	36

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127	Chemoreception and asphyxia-induced arousal. <i>Respiratory Physiology and Neurobiology</i> , 2013, 188, 333-343.	1.6	36
128	Afferent and efferent connections of C1 cells with spinal cord or hypothalamic projections in mice. <i>Brain Structure and Function</i> , 2016, 221, 4027-4044.	2.3	36
129	Vesicular glutamate transporter 2 is required for the respiratory and parasympathetic activation produced by optogenetic stimulation of catecholaminergic neurons in the rostral ventrolateral medulla of mice <i>in vivo</i> . <i>European Journal of Neuroscience</i> , 2014, 39, 98-106.	2.6	35
130	Location and properties of respiratory neurones with putative intrinsic bursting properties in the rat <i>in situ</i> . <i>Journal of Physiology</i> , 2009, 587, 3175-3188.	2.9	33
131	Excitation of rostral medullary pacemaker neurons with putative sympathoexcitatory function by cyclic AMP and I^2 -adrenoceptor agonists <i>in vitro</i> . <i>Brain Research</i> , 1990, 511, 30-40.	2.2	32
132	The Retrotrapezoid Nucleus and Central Chemoreception. <i>Advances in Experimental Medicine and Biology</i> , 2008, 605, 327-332.	1.6	32
133	The retrotrapezoid nucleus stimulates breathing by releasing glutamate in adult conscious mice. <i>European Journal of Neuroscience</i> , 2015, 42, 2271-2282.	2.6	31
134	A brainstem peptide system activated at birth protects postnatal breathing. <i>Nature</i> , 2021, 589, 426-430.	27.8	31
135	Effect of phencyclidines on hippocampal pyramidal cells. <i>Brain Research</i> , 1982, 252, 343-352.	2.2	30
136	Activation of 5-Hydroxytryptamine Type 3 Receptor-Expressing C-Fiber Vagal Afferents Inhibits Retrotrapezoid Nucleus Chemoreceptors in Rats. <i>Journal of Neurophysiology</i> , 2007, 98, 3627-3637.	1.8	30
137	Contribution of the Retrotrapezoid Nucleus and Carotid Bodies to Hypercapnia- and Hypoxia-induced Arousal from Sleep. <i>Journal of Neuroscience</i> , 2019, 39, 9725-9737.	3.6	30
138	Rostral ventrolateral medullary neurons projecting to locus coeruleus have cardiorespiratory inputs. <i>Brain Research</i> , 1992, 598, 67-75.	2.2	29
139	Selective optogenetic stimulation of the retrotrapezoid nucleus in sleeping rats activates breathing without changing blood pressure or causing arousal or sighs. <i>Journal of Applied Physiology</i> , 2015, 118, 1491-1501.	2.5	29
140	Differential Contribution of the Retrotrapezoid Nucleus and C1 Neurons to Active Expiration and Arousal in Rats. <i>Journal of Neuroscience</i> , 2020, 40, 8683-8697.	3.6	29
141	Comparative effects of sciatic nerve stimulation, blood pressure, and morphine on the activity of A5 and A6 pontine noradrenergic neurons. <i>Brain Research</i> , 1985, 327, 191-201.	2.2	28
142	C1 neurons: a nodal point for stress?. <i>Experimental Physiology</i> , 2018, 103, 332-336.	2.0	28
143	The respiratory chemoreception conundrum: Light at the end of the tunnel?. <i>Brain Research</i> , 2013, 1511, 126-137.	2.2	26
144	Action of phencyclidine on synaptic transmission in the hippocampus. <i>Brain Research</i> , 1982, 236, 289-304.	2.2	25

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145	Detection of amino acid and peptide transmitters in physiologically identified brainstem cardiorespiratory neurons. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2004, 114, 1-10.	2.8	22
146	Morphology of rostral medullary neurons with intrinsic pacemaker activity in the rat. <i>Brain Research</i> , 1991, 556, 61-70.	2.2	19
147	Prototypical Imidazoline-1 Receptor Ligand Moxonidine Activates Alpha2-Adrenoceptors in Bulbospinal Neurons of the RVL. <i>Journal of Neurophysiology</i> , 2000, 83, 766-776.	1.8	17
148	Is plasticity within the retrotrapezoid nucleus responsible for the recovery of the set-point after carotid body denervation in rats?. <i>Journal of Physiology</i> , 2016, 594, 3371-3390.	2.9	16
149	Sciatic nerve stimulation activates the retrotrapezoid nucleus in anesthetized rats. <i>Journal of Neurophysiology</i> , 2016, 116, 2081-2092.	1.8	16
150	Rostral ventrolateral medulla, retropontine region and autonomic regulations. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2022, 237, 102922.	2.8	14
151	Central respiratory modulation of facial motoneurons in rats. <i>Neuroscience Letters</i> , 1993, 151, 224-228.	2.1	13
152	Adrenergic C1 neurons monitor arterial blood pressure and determine the sympathetic response to hemorrhage. <i>Cell Reports</i> , 2022, 38, 110480.	6.4	12
153	Respiratory alkalosis provokes spike-wave discharges in seizure-prone rats. <i>ELife</i> , 2022, 11, .	6.0	11
154	Re: Homing in on the specific phenotype(s) of central respiratory chemoreceptors. <i>Experimental Physiology</i> , 2005, 90, 266-268.	2.0	10
155	Putative Mechanism of Salt-Dependent Neurogenic Hypertension. <i>Hypertension</i> , 2017, 69, 20-22.	2.7	8
156	Central Network Dynamics Regulating Visceral and Humoral Functions. <i>Journal of Neuroscience</i> , 2017, 37, 10848-10854.	3.6	8
157	Sympatholytic effect of clonidine depends on the respiratory phase in rat splanchnic nerve. <i>Journal of the Autonomic Nervous System</i> , 1995, 53, 82-86.	1.9	7
158	Commentaries on Viewpoint: Central chemoreception is a complex system function that involves multiple brain stem sites. <i>Journal of Applied Physiology</i> , 2009, 106, 1467-1470.	2.5	6
159	Cardiorespiratory Integration. , 2011, , 180-201.		5
160	Atipamezole-precipitated clonidine withdrawal induces c-Fos expression in rat central nervous system. <i>Brain Research</i> , 1997, 764, 81-92.	2.2	4
161	Antagonist precipitated clonidine withdrawal in rat: Effects on locus coeruleus neurons, sympathetic nerves and cardiovascular parameters. <i>Journal of the Autonomic Nervous System</i> , 1998, 71, 85-95.	1.9	4
162	Sodium Is Detected by the OVLT to Regulate Sympathetic Tone. <i>Neuron</i> , 2019, 101, 3-5.	8.1	4

#	ARTICLE	IF	CITATIONS
163	Neuroprosthetic device maintains blood pressure after spinal cord injury. <i>Nature</i> , 2021, 590, 223-224.	27.8	2
164	Distribution of glutamic acid decarboxylase mRNA-containing neurons in rat medulla projecting to thoracic spinal cord in relation to monoaminergic brainstem neurons. , 0, .		1
165	Distribution of glutamic acid decarboxylase mRNA-containing neurons in rat medulla projecting to thoracic spinal cord in relation to monoaminergic brainstem neurons. <i>Journal of Comparative Neurology</i> , 1999, 407, 367-380.	1.6	1
166	Contribution of retrotrapezoid nucleus and carotid bodies to asphyxia-induced arousal in rats. <i>FASEB Journal</i> , 2019, 33, 733.6.	0.5	1
167	Re: Homing in on the specific phenotype(s) of central respiratory chemoreceptors. <i>Experimental Physiology</i> , 2005, 90, 266-268.	2.0	0
168	Authors' response to G. B. Richerson's commentary. <i>Experimental Physiology</i> , 2005, 90, 257-257.	2.0	0
169	The dynamic activity of C1 neurons determines the level of blood pressure during hemorrhage in freely behaving rats. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
170	Peripheral chemoreceptor inputs to retrotrapezoid nucleus (RTN) chemoreceptor neurons. <i>FASEB Journal</i> , 2006, 20, A788.	0.5	0
171	Optogenetic stimulation of C1 neurons activates breathing in mice. <i>FASEB Journal</i> , 2012, 26, .	0.5	0
172	Ablation of neuromedin B (NMB)-expressing neurons located within retrotrapezoid nucleus (RTN) reduces the central respiratory chemoreflex (CRC) selectively in conscious rats. <i>FASEB Journal</i> , 2018, 32, 894.10.	0.5	0