

# CITATION REPORT

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Expression of c-fos in the rat brainstem after exposure to hypoxia and to normoxic and hyperoxic hypercapnia

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#	Paper	IF	Citations
260	Cervical dorsal rhizotomy enhances serotonergic innervation of phrenic motoneurons and serotonin-dependent long-term facilitation of respiratory motor output in rats. <b>1998</b> , 18, 8436-43		111
259	Role of nitric oxide in hypoxia-induced hyperventilation and hypothermia: participation of the locus coeruleus. <b>1999</b> , 32, 1389-98		30
258	Time-dependent hypoxic ventilatory responses in rats: effects of ketanserin and 5-carboxamidotryptamine. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>1999</b> , 277, R658-66	3.2	61
257	Birth-related expression of c-fos, c-jun and substance P mRNAs in the rat brainstem and pia mater: possible relationship to changes in central chemosensitivity. <b>1999</b> , 112, 255-66		16
256	The distribution of FOS-immunoreactive neurons in the brainstem, midbrain and diencephalon of fetal sheep in response to acute hypoxia in mid and late gestation. <b>1999</b> , 114, 9-26		18
255	Post-hypoxia frequency decline in rats: sensitivity to repeated hypoxia and alpha2-adrenoreceptor antagonism. <i>Brain Research</i> , <b>1999</b> , 817, 25-33	3.7	51
254	In vitro responses of neurons in the periaqueductal gray to hypoxia and hypercapnia. <i>Brain Research</i> , <b>1999</b> , 835, 197-203	3.7	23
253	CO(2)-induced expression of c-fos in the nucleus of the solitary tract and the area postrema of developing swine. <i>Brain Research</i> , <b>1999</b> , 837, 106-16	3.7	16
252	Persistent Fos protein expression after orofacial deep or cutaneous tissue inflammation in rats: implications for persistent orofacial pain. <i>Journal of Comparative Neurology</i> , <b>1999</b> , 412, 276-91	3.4	113
251	Hypoxia induces c-Fos protein expression in NMDA but not AMPA glutamate receptor labeled neurons within the nucleus tractus solitarii of the conscious rat. <i>Neuroscience Letters</i> , <b>1999</b> , 262, 93-6	3.3	39
250	The area postrema of newborn swine is activated by hypercapnia: relevance to sudden infant death syndrome?. <b>1999</b> , 76, 167-75		16
249	CO <sub>2</sub> , brainstem chemoreceptors and breathing. <b>1999</b> , 59, 299-331		307
248	CO <sub>2</sub> -induced c-fos expression in medullary neurons during early development. <b>1999</b> , 117, 13-28		33
247	Immediate-early gene expression in cerebral cortex following exposure to chronic-intermittent hypoxia. <i>Brain Research</i> , <b>2000</b> , 870, 204-10	3.7	30
246	Acute and chronic restraint stress: effects on [125I]-galanin binding in normotensive and hypertensive rat brain. <i>Brain Research</i> , <b>2000</b> , 873, 318-29	3.7	21
245	Postnatal changes in Fos-like immunoreactivity evoked by hypoxia in the rat brainstem and hypothalamus. <i>Brain Research</i> , <b>2000</b> , 877, 149-59	3.7	33
244	Age-dependent chemosensitive pontine inhibition of medullary respiratory rhythm generation in the isolated brainstem of the neonatal rat. <i>Brain Research</i> , <b>2000</b> , 887, 418-20	3.7	8

243	Brainstem and hypothalamic areas involved in respiratory chemoreflexes: a Fos study in adult rats. <i>Brain Research</i> , <b>2000</b> , 857, 30-40	3.7	135
242	AMPA glutamate receptors and respiratory control in the developing rat: anatomic and pharmacological aspects. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2000</b> , 278, R520-8	3.2	25
241	N-Methyl-D-aspartate receptor expression in the nucleus tractus solitarii and maturation of hypoxic ventilatory response in the rat. <b>2000</b> , 162, 1140-7		78
240	Neuroanatomical targets of angiogenic drugs in the hindbrain as revealed by Fos immunocytochemistry. <i>Neuroscience</i> , <b>2000</b> , 98, 759-70	3.9	131
239	Development of hypoxia-induced Fos expression in rat caudal hypothalamic neurons. <i>Neuroscience</i> , <b>2000</b> , 99, 711-20	3.9	26
238	Effect of hypoxia on the activity of respiratory and non-respiratory modulated retrotrapezoid neurons of the cat. <b>2000</b> , 86, 70-7		17
237	Long term facilitation of phrenic motor output. <b>2000</b> , 121, 135-46		180
236	Chronic-intermittent hypoxia: a model of sympathetic activation in the rat. <b>2000</b> , 121, 173-84		90
235	Lesion or muscimol in the rostral ventral medulla reduces ventilatory output and the CO <sub>2</sub> response in decerebrate piglets. <b>2000</b> , 123, 23-37		19
234	Neurotransmitters in central respiratory control. <b>2000</b> , 122, 111-21		84
233	Medullary neurones regulate hypothalamic corticotropin-releasing factor cell responses to an emotional stressor. <i>Neuroscience</i> , <b>2001</b> , 105, 707-19	3.9	80
232	Brainstem and hypothalamic areas activated by tissue hypoxia: Fos-like immunoreactivity induced by carbon monoxide inhalation in the rat. <i>Neuroscience</i> , <b>2001</b> , 108, 643-53	3.9	51
231	Microinjection of acetazolamide into the fastigial nucleus augments respiratory output in the rat. <b>2001</b> , 91, 2342-50		39
230	Exposure to hypoxia produces long-lasting sympathetic activation in humans. <b>2001</b> , 91, 1555-62		211
229	Fastigial nucleus-mediated respiratory responses depend on the medullary gigantocellular nucleus. <b>2001</b> , 91, 1713-22		19
228	Stress-induced attenuation of the hypercapnic ventilatory response in awake rats. <b>2001</b> , 90, 1729-35		29
227	Muscimol dialysis in the rostral ventral medulla reduced the CO <sub>2</sub> response in awake and sleeping piglets. <b>2001</b> , 90, 971-80		41
226	Fos study of ponto-medullary areas involved in the in vitro hypoxic respiratory depression. <b>2001</b> , 12, 3913-6		14

225	Brainstem activation of platelet-derived growth factor-beta receptor modulates the late phase of the hypoxic ventilatory response. <b>2000</b> , 74, 310-9		56
224	Expression of Fos immunoreactivity in some catecholaminergic brainstem neurons in rats following high-altitude exposure. <b>2001</b> , 63, 54-63		10
223	Cytoarchitecture of central chemoreceptors in the mammalian ventral medulla. <b>2001</b> , 129, 13-23		23
222	Respiratory plasticity: differential actions of continuous and episodic hypoxia and hypercapnia. <b>2001</b> , 129, 25-35		82
221	Monoaminergic neurons, chemosensation and arousal. <b>2001</b> , 129, 191-209		64
220	Plasticity in respiratory motor control: intermittent hypoxia and hypercapnia activate opposing serotonergic and noradrenergic modulatory systems. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , <b>2001</b> , 130, 207-18	2.6	98
219	Neuroglobin, a novel member of the globin family, is expressed in focal regions of the brain. <b>2002</b> , 50, 1591-8		115
218	c-Fos expression in the midbrain periaqueductal gray after chemoreceptor and baroreceptor activation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2002</b> , 283, H1975-84	5.2	24
217	The retrotrapezoid nucleus (RTN): local cytoarchitecture and afferent connections. <i>Respiratory Physiology and Neurobiology</i> , <b>2002</b> , 130, 121-37	2.8	48
216	Ventral medulla pHi measured in vivo by 31P NMR is not regulated during hypercapnia in anesthetized rat. <i>Respiratory Physiology and Neurobiology</i> , <b>2002</b> , 130, 139-49	2.8	8
215	CO(2)-induced c-Fos expression in brainstem preprotachykinin mRNA containing neurons. <i>Respiratory Physiology and Neurobiology</i> , <b>2002</b> , 130, 265-74	2.8	31
214	CO(2)-induced c-Fos expression in hypothalamic vasopressin containing neurons. <b>2002</b> , 129, 289-96		24
213	Age and gender effects on serotonin-dependent plasticity in respiratory motor control. <i>Respiratory Physiology and Neurobiology</i> , <b>2002</b> , 131, 65-77	2.8	69
212	Development of CO(2)-response in the early newborn period in rat. <i>Respiratory Physiology and Neurobiology</i> , <b>2002</b> , 132, 145-58	2.8	35
211	Differential CO(2)-induced c-fos gene expression in the nucleus tractus solitarii of inbred mouse strains. <b>2002</b> , 92, 1277-84		19
210	Phrenic long-term facilitation requires spinal serotonin receptor activation and protein synthesis. <b>2002</b> , 22, 6239-46		223
209	CO2 dialysis in nucleus tractus solitarius region of rat increases ventilation in sleep and wakefulness. <b>2002</b> , 92, 2119-30		118
208	Central mechanisms of stress integration: hierarchical circuitry controlling hypothalamo-pituitary-adrenocortical responsiveness. <b>2003</b> , 24, 151-80		1185

207	Hypercapnia-induced activation of brainstem GABAergic neurons during early development. <i>Respiratory Physiology and Neurobiology</i> , <b>2003</b> , 136, 25-37	2.8	19
206	Breathing: rhythmicity, plasticity, chemosensitivity. <b>2003</b> , 26, 239-66		687
205	Stress integration after acute and chronic predator stress: differential activation of central stress circuitry and sensitization of the hypothalamo-pituitary-adrenocortical axis. <b>2003</b> , 144, 5249-58		201
204	Consequences of in utero caffeine exposure on respiratory output in normoxic and hypoxic conditions and related changes of Fos expression: a study on brainstem-spinal cord preparations isolated from newborn rats. <i>Pediatric Research</i> , <b>2003</b> , 53, 266-73	3.2	16
203	Functional connection from the surface chemosensitive region to the respiratory neuronal network in the rat medulla. <i>Advances in Experimental Medicine and Biology</i> , <b>2004</b> , 551, 45-51	3.6	3
202	Neonatal maternal separation and sex-specific plasticity of the hypoxic ventilatory response in awake rat. <i>Journal of Physiology</i> , <b>2004</b> , 554, 543-57	3.9	85
201	Nitric oxide pathway in the nucleus raphe magnus modulates hypoxic ventilatory response but not anapnoea in rats. <i>Brain Research</i> , <b>2004</b> , 1017, 39-45	3.7	12
200	Phosphorylation of JNK is involved in regulation of H(+)-induced c-Jun expression. <b>2004</b> , 16, 723-9		14
199	Glutamatergic neuronal projections from the marginal layer of the rostral ventral medulla to the respiratory centers in rats. <i>Journal of Comparative Neurology</i> , <b>2004</b> , 473, 73-85	3.4	51
198	Oxygen-sensing neurons in the central nervous system. <b>2004</b> , 96, 367-74		155
197	Hypoxic response in newborn rat is attenuated by neurokinin-1 receptor blockade. <i>Respiratory Physiology and Neurobiology</i> , <b>2004</b> , 140, 19-31	2.8	16
196	Endogenous 5-HT(1/2) systems and the newborn rat respiratory control. A comparative in vivo and in vitro study. <i>Respiratory Physiology and Neurobiology</i> , <b>2004</b> , 141, 47-57	2.8	12
195	P2 receptors modulate respiratory rhythm but do not contribute to central CO2 sensitivity in vitro. <i>Respiratory Physiology and Neurobiology</i> , <b>2004</b> , 142, 27-42	2.8	30
194	Modulation of the respiratory rhythm generator by the pontine noradrenergic A5 and A6 groups in rodents. <i>Respiratory Physiology and Neurobiology</i> , <b>2004</b> , 143, 187-97	2.8	140
193	Chronic fluoxetine microdialysis into the medullary raphe nuclei of the rat, but not systemic administration, increases the ventilatory response to CO2. <b>2004</b> , 97, 1763-73		27
192	Molecular responses to acidosis of central chemosensitive neurons in brain. <b>2005</b> , 17, 799-808		14
191	Extracellular acidification enhances DNA binding activity of MafG-FosB heterodimer. <b>2005</b> , 205, 77-85		12
190	Activation of the parabrachio-amygdaloid pathway by immune challenge or spinal nociceptive input: a quantitative study in the rat using Fos immunohistochemistry and retrograde tract tracing. <i>Journal of Comparative Neurology</i> , <b>2005</b> , 481, 210-9	3.4	17

189	Hypoxia reveals posterior thalamic, cerebellar, midbrain, and limbic deficits in congenital central hypoventilation syndrome. <b>2005</b> , 98, 958-69		89
188	Response of membrane potential and intracellular pH to hypercapnia in neurons and astrocytes from rat retrotrapezoid nucleus. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2005</b> , 289, R851-61	3.2	58
187	Dopamine transporters are involved in the onset of hypoxia-induced dopamine efflux in striatum as revealed by in vivo microdialysis. <b>2005</b> , 46, 623-33		21
186	Serotonergic systems associated with arousal and vigilance behaviors following administration of anxiogenic drugs. <i>Neuroscience</i> , <b>2005</b> , 133, 983-97	3.9	169
185	Heterogeneity of brainstem blood flow response to hypoxia in the anesthetized rat. <i>Respiratory Physiology and Neurobiology</i> , <b>2005</b> , 147, 117-22	2.8	1
184	Neonatal maternal separation and early life programming of the hypoxic ventilatory response in rats. <i>Respiratory Physiology and Neurobiology</i> , <b>2005</b> , 149, 313-24	2.8	30
183	Neuronal expression of nuclear transcription factor MafG in the rat medulla oblongata after baroreceptor stimulation. <b>2006</b> , 78, 1760-6		4
182	Menopausal estrogen therapy predicts better nocturnal oxyhemoglobin saturation. <b>2006</b> , 55, 255-63		16
181	Heterogeneity of brainstem blood flow response to hypoxia in the anesthetized rat. <i>Respiratory Physiology and Neurobiology</i> , <b>2006</b> , 150, 301-6	2.8	4
180	Chronic alcohol exposure alters transcription broadly in a key integrative brain nucleus for homeostasis: the nucleus tractus solitarius. <b>2005</b> , 24, 45-58		24
179	Hypoxia-sensing properties of the newborn rat ventral medullary surface in vitro. <i>Journal of Physiology</i> , <b>2006</b> , 577, 55-68	3.9	24
178	Afferent and efferent connections of the rat retrotrapezoid nucleus. <i>Journal of Comparative Neurology</i> , <b>2006</b> , 499, 64-89	3.4	203
177	Locus coeruleus is a central chemoreceptive site in toads. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2006</b> , 291, R997-1006	3.2	27
176	Hypotensive hypovolemia and hypoglycemia activate different hindbrain catecholamine neurons with projections to the hypothalamus. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2006</b> , 291, R870-9	3.2	13
175	Gasping activity in vitro: a rhythm dependent on 5-HT <sub>2A</sub> receptors. <b>2006</b> , 26, 2623-34		131
174	Activation of lateral parabrachial nucleus neurons restores blood pressure and sympathetic vasomotor drive after hypotensive hemorrhage. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2006</b> , 291, R742-50	3.2	10
173	Gene expression and signaling pathways by extracellular acidification. <i>Advances in Experimental Medicine and Biology</i> , <b>2006</b> , 580, 267-74; discussion 351-9	3.6	1
172	Modulation of synaptic transmission to second-order peripheral chemoreceptor neurons in caudal nucleus tractus solitarius by alpha1-adrenoreceptors. <b>2007</b> , 320, 670-7		18

171	Serotonergic raphe magnus cell discharge reflects ongoing autonomic and respiratory activities. <i>Journal of Neurophysiology</i> , <b>2007</b> , 98, 1919-27	3.2	22
170	Age-related changes in the serotonin 2A receptor in the hypoglossal nucleus of male and female rats. <i>Respiratory Physiology and Neurobiology</i> , <b>2007</b> , 158, 14-21	2.8	11
169	Differential effects of water deprivation and rehydration on Fos and FosB/DeltaFosB staining in the rat brainstem. <i>Experimental Neurology</i> , <b>2007</b> , 203, 445-56	5.7	16
168	Raphe magnus nucleus is involved in ventilatory but not hypothermic response to CO <sub>2</sub> . <b>2007</b> , 103, 1780-8		54
167	Neonatal maternal separation and enhancement of the hypoxic ventilatory response in rat: the role of GABAergic modulation within the paraventricular nucleus of the hypothalamus. <i>Journal of Physiology</i> , <b>2007</b> , 583, 299-314	3.9	37
166	Respiratory and metabolic acidosis differentially affect the respiratory neuronal network in the ventral medulla of neonatal rats. <b>2007</b> , 26, 2834-43		23
165	Locus coeruleus noradrenergic neurons and CO <sub>2</sub> drive to breathing. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2008</b> , 455, 1119-28	4.6	127
164	5-HT <sub>1A</sub> , but not 5-HT <sub>2</sub> and 5-HT <sub>7</sub> , receptors in the nucleus raphe magnus modulate hypoxia-induced hyperpnoea. <b>2008</b> , 193, 403-14		22
163	Premotor sympathetic neurons of conditioned fear in the rat. <b>2008</b> , 28, 428-46		39
162	Brain monoaminergic neurons and ventilatory control in vertebrates. <i>Respiratory Physiology and Neurobiology</i> , <b>2008</b> , 164, 112-22	2.8	14
161	Muscimol dialysis into the caudal aspect of the Nucleus tractus solitarii of conscious rats inhibits chemoreception. <i>Respiratory Physiology and Neurobiology</i> , <b>2008</b> , 164, 394-400	2.8	21
160	Intermittent activation of peripheral chemoreceptors in awake rats induces Fos expression in rostral ventrolateral medulla-projecting neurons in the paraventricular nucleus of the hypothalamus. <i>Neuroscience</i> , <b>2008</b> , 157, 463-72	3.9	35
159	Complexity measures of the central respiratory networks during wakefulness and sleep. <b>2008</b> , 5, 254-61		12
158	The role of the forebrain glucocorticoid receptor in acute and chronic stress. <b>2008</b> , 149, 5482-90		125
157	Chemosensory responses to CO <sub>2</sub> in multiple brain stem nuclei determined using a voltage-sensitive dye in brain slices from rats. <i>Journal of Neurophysiology</i> , <b>2009</b> , 102, 1577-90	3.2	22
156	Transgenic mice lacking serotonin neurons have severe apnea and high mortality during development. <b>2009</b> , 29, 10341-9		123
155	Chronic sustained hypoxia enhances both evoked EPSCs and norepinephrine inhibition of glutamatergic afferent inputs in the nucleus of the solitary tract. <b>2009</b> , 29, 3093-102		33
154	The role of 5-HT <sub>3</sub> and other excitatory receptors in central cardiorespiratory responses to hypoxia: implications for sudden infant death syndrome. <i>Pediatric Research</i> , <b>2009</b> , 65, 625-30	3.2	17

153	Hypercapnic vs. hypoxic control of cardiovascular, cardiovagal, and sympathetic function. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2009</b> , 296, R402-10	3.2	67
152	Medullary serotonin neurons and central CO <sub>2</sub> chemoreception. <i>Respiratory Physiology and Neurobiology</i> , <b>2009</b> , 168, 49-58	2.8	106
151	Molecular characterization and expression analysis of Na <sup>+</sup> /H <sup>+</sup> exchanger (NHE)-1 and c-Fos genes in sea bass ( <i>Dicentrarchus labrax</i> , L) exposed to acute and chronic hypercapnia. <b>2009</b> , 375, 32-40		24
150	NADPH oxidase activity is necessary for acute intermittent hypoxia-induced phrenic long-term facilitation. <i>Journal of Physiology</i> , <b>2009</b> , 587, 1931-42	3.9	64
149	Activation of the retrotrapezoid nucleus by posterior hypothalamic stimulation. <i>Journal of Physiology</i> , <b>2009</b> , 587, 5121-38	3.9	49
148	Episodic spinal serotonin receptor activation elicits long-lasting phrenic motor facilitation by an NADPH oxidase-dependent mechanism. <i>Journal of Physiology</i> , <b>2009</b> , 587, 5469-81	3.9	84
147	Absence of bioactivity of lipid derivatives of serotonin. <b>2010</b> , 15 Suppl 2, 128-34		1
146	Microinjection of methysergide into the raphe nucleus attenuated phrenic long-term facilitation in rats. <b>2010</b> , 202, 583-9		11
145	Serotonergic mechanisms on breathing modulation in the rat locus coeruleus. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2010</b> , 459, 357-68	4.6	16
144	Role of locus coeruleus noradrenergic neurons in cardiorespiratory and thermal control during hypoxia. <i>Respiratory Physiology and Neurobiology</i> , <b>2010</b> , 170, 150-6	2.8	21
143	An interdependent model of central/peripheral chemoreception: evidence and implications for ventilatory control. <i>Respiratory Physiology and Neurobiology</i> , <b>2010</b> , 173, 288-97	2.8	82
142	Role of neurokinin-1 expressing neurons in the locus coeruleus on ventilatory and cardiovascular responses to hypercapnia. <i>Respiratory Physiology and Neurobiology</i> , <b>2010</b> , 172, 24-31	2.8	26
141	The locus coeruleus and central chemosensitivity. <i>Respiratory Physiology and Neurobiology</i> , <b>2010</b> , 173, 264-73	2.8	80
140	Respiratory modulation of premotor cardiac vagal neurons in the brainstem. <i>Respiratory Physiology and Neurobiology</i> , <b>2010</b> , 174, 102-10	2.8	48
139	The caudal solitary complex is a site of central CO <sub>2</sub> chemoreception and integration of multiple systems that regulate expired CO <sub>2</sub> . <i>Respiratory Physiology and Neurobiology</i> , <b>2010</b> , 173, 274-87	2.8	41
138	Fos-Tau-LacZ mice reveal sex differences in brainstem c-fos activation in response to mild carbon dioxide exposure. <i>Brain Research</i> , <b>2010</b> , 1311, 51-63	3.7	10
137	Central respiratory chemoreception. <i>Journal of Comparative Neurology</i> , <b>2010</b> , 518, 3883-906	3.4	171
136	Identification of a novel form of noradrenergic-dependent respiratory motor plasticity triggered by vagal feedback. <b>2010</b> , 30, 16886-95		21



135	Neonatal maternal separation and neuroendocrine programming of the respiratory control system in rats. <b>2010</b> , 84, 26-38		13
134	Fos expression in the NTS in response to peripheral chemoreflex activation in awake rats. <b>2010</b> , 152, 27-34		16
133	Cardiovascular and behavioural responses to conditioned fear and restraint are not affected by retrograde lesions of A5 and C1 bulbospinal neurons. <i>Neuroscience</i> , <b>2010</b> , 166, 1210-8	3.9	12
132	Sensory afferent and hypoxia-mediated activation of nucleus tractus solitarius neurons that project to the rostral ventrolateral medulla. <i>Neuroscience</i> , <b>2010</b> , 167, 510-27	3.9	44
131	The ventilatory response to hypoxia in mammals: mechanisms, measurement, and analysis. <b>2010</b> , 90, 675-754		251
130	Neuronal control of breathing: sex and stress hormones. <i>Comprehensive Physiology</i> , <b>2011</b> , 1, 2101-39	7.7	41
129	Hypoxia-excited neurons in NTS send axonal projections to Klliker-Fuse/parabrachial complex in dorsolateral pons. <i>Neuroscience</i> , <b>2011</b> , 175, 145-53	3.9	50
128	Serotonin 2A and 2B receptor-induced phrenic motor facilitation: differential requirement for spinal NADPH oxidase activity. <i>Neuroscience</i> , <b>2011</b> , 178, 45-55	3.9	62
127	The kreisler mutation leads to the loss of intrinsically hypoxia-activated spots in the region of the retrotrapezoid nucleus/parafacial respiratory group. <i>Neuroscience</i> , <b>2011</b> , 194, 95-111	3.9	10
126	Control of the central chemoreflex by A5 noradrenergic neurons in rats. <i>Neuroscience</i> , <b>2011</b> , 199, 177-86	3.9	24
125	Neuroglobin-deficiency exacerbates Hif1A and c-FOS response, but does not affect neuronal survival during severe hypoxia in vivo. <b>2011</b> , 6, e28160		42
124	Hypoxia-induced cellular and vascular changes in the nucleus tractus solitarius and ventrolateral medulla. <b>2011</b> , 70, 201-17		16
123	Activation of alpha-2 noradrenergic receptors is critical for the generation of fictive eupnea and fictive gasping inspiratory activities in mammals in vitro. <b>2011</b> , 33, 2228-37		28
122	Ozone inhalation activates stress-responsive regions of the CNS. <b>2011</b> , 117, 961-72		63
121	Regulation of visceral sympathetic tone by A5 noradrenergic neurons in rodents. <i>Journal of Physiology</i> , <b>2011</b> , 589, 903-17	3.9	31
120	Ionotropic glutamatergic receptors in the rostral medullary raphe modulate hypoxia and hypercapnia-induced hyperpnea. <i>Respiratory Physiology and Neurobiology</i> , <b>2011</b> , 175, 104-11	2.8	6
119	Similarities and differences in mechanisms of phrenic and hypoglossal motor facilitation. <i>Respiratory Physiology and Neurobiology</i> , <b>2011</b> , 179, 48-56	2.8	37
118	Nucleus incertus--an emerging modulatory role in arousal, stress and memory. <b>2011</b> , 35, 1326-41		76

117	Chapter 3--networks within networks: the neuronal control of breathing. <b>2011</b> , 188, 31-50		59
116	Induction of c-Fos in panic/defence-related brain circuits following brief hypercarbic gas exposure. <b>2011</b> , 25, 26-36		60
115	Pontine mechanisms of respiratory control. <i>Comprehensive Physiology</i> , <b>2012</b> , 2, 2443-69	7.7	152
114	Hypoxia activates nucleus tractus solitarii neurons projecting to the paraventricular nucleus of the hypothalamus. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2012</b> , 302, R1219-32	3.2	57
113	Klüber neurons send collateral projections to multiple hypoxia-activated and nonactivated structures in rat brainstem and spinal cord. <b>2012</b> , 217, 835-58		41
112	Evidence of a suffocation alarm system within the periaqueductal gray matter of the rat. <i>Neuroscience</i> , <b>2012</b> , 200, 59-73	3.9	60
111	A key circulatory defence against asphyxia in infancy--the heart of the matter!. <i>Journal of Physiology</i> , <b>2012</b> , 590, 6157-65	3.9	7
110	Purinergic transmission in the rostral but not caudal medullary raphe contributes to the hypercapnia-induced ventilatory response in unanesthetized rats. <i>Respiratory Physiology and Neurobiology</i> , <b>2012</b> , 184, 41-7	2.8	9
109	Central chemoreceptors: locations and functions. <i>Comprehensive Physiology</i> , <b>2012</b> , 2, 221-54	7.7	137
108	Cells in the female retrotrapezoid region upregulate c-fos in response to 10%, but not 5%, carbon dioxide. <i>Brain Research</i> , <b>2012</b> , 1433, 62-8	3.7	7
107	Acute intermittent hypoxia induces phrenic long-term facilitation which is modulated by 5-HT1A receptor in the caudal raphe region of the rat. <b>2012</b> , 21, 195-203		6
106	Isoflurane anesthesia precipitates tauopathy and upper airways dysfunction in pre-symptomatic Tau.P301L mice: possible implication for neurodegenerative diseases. <b>2012</b> , 46, 234-43		19
105	Brainstem galanin-synthesizing neurons are differentially activated by chemoreceptor stimuli and represent a subpopulation of respiratory neurons. <i>Journal of Comparative Neurology</i> , <b>2012</b> , 520, 154-73	3.4	19
104	Effect of insular cortex inactivation on autonomic and behavioral responses to acute hypoxia in conscious rats. <b>2013</b> , 253, 60-7		21
103	Spinal 5-HT7 receptors and protein kinase A constrain intermittent hypoxia-induced phrenic long-term facilitation. <i>Neuroscience</i> , <b>2013</b> , 250, 632-43	3.9	44
102	Role of central glucagon-like peptide-1 in stress regulation. <b>2013</b> , 122, 201-7		63
101	Chemoreception and asphyxia-induced arousal. <i>Respiratory Physiology and Neurobiology</i> , <b>2013</b> , 188, 333-43		32
100	Serotonergic neurons in the nucleus raphe obscurus are not involved in the ventilatory and thermoregulatory responses to hypoxia in adult rats. <i>Respiratory Physiology and Neurobiology</i> , <b>2013</b> , 187, 139-48	2.8	12

99	Chemoreceptors, Breathing and pH. <b>2013</b> , 1979-1993		1
98	Selective optogenetic activation of rostral ventrolateral medullary catecholaminergic neurons produces cardiorespiratory stimulation in conscious mice. <b>2013</b> , 33, 3164-77		77
97	Glutamatergic signaling from the parabrachial nucleus plays a critical role in hypercapnic arousal. <b>2013</b> , 33, 7627-40		153
96	Knockdown of tyrosine hydroxylase in the nucleus of the solitary tract reduces elevated blood pressure during chronic intermittent hypoxia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2013</b> , 305, R1031-9	3.2	22
95	Monosynaptic glutamatergic activation of locus coeruleus and other lower brainstem noradrenergic neurons by the C1 cells in mice. <b>2013</b> , 33, 18792-805		44
94	Acute systemic hypoxia activates hypothalamic paraventricular nucleus-projecting catecholaminergic neurons in the caudal ventrolateral medulla. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2013</b> , 305, R1112-23	3.2	24
93	Impaired response to hypoxia in the respiratory center is a major cause of neonatal death of the PACAP-knockout mouse. <b>2013</b> , 37, 407-16		17
92	Evidence of a suffocation alarm system sensitive to clinically-effective treatments with the panicolytics clonazepam and fluoxetine. <b>2014</b> , 28, 1184-8		15
91	Regulation of breathing and autonomic outflows by chemoreceptors. <i>Comprehensive Physiology</i> , <b>2014</b> , 4, 1511-62	7.7	180
90	Role of paraventricular nucleus-projecting norepinephrine/epinephrine neurons in acute and chronic stress. <b>2014</b> , 39, 1903-11		40
89	Translational approach to studying panic disorder in rats: hits and misses. <b>2014</b> , 46 Pt 3, 472-96		28
88	Regulation of the chemosensory control of breathing by Klliker-Fuse neurons. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2014</b> , 307, R57-67	3.2	35
87	The nucleus of the solitary tract and the coordination of respiratory and sympathetic activities. <i>Frontiers in Physiology</i> , <b>2014</b> , 5, 238	4.6	96
86	The progestin etonogestrel enhances the respiratory response to metabolic acidosis in newborn rats. Evidence for a mechanism involving supramedullary structures. <i>Neuroscience Letters</i> , <b>2014</b> , 567, 63-7	3.3	9
85	The Deakin/Graeff hypothesis: focus on serotonergic inhibition of panic. <b>2014</b> , 46 Pt 3, 379-96		49
84	Glucocorticoid receptors in the nucleus of the solitary tract (NTS) decrease endocrine and behavioral stress responses. <b>2014</b> , 45, 142-53		28
83	Cardiorespiratory effects of gap junction blockade in the locus coeruleus in unanesthetized adult rats. <i>Respiratory Physiology and Neurobiology</i> , <b>2014</b> , 190, 86-95	2.8	22
82	Respiratory-related outputs of glutamatergic, hypercapnia-responsive parabrachial neurons in mice. <i>Journal of Comparative Neurology</i> , <b>2015</b> , 523, 907-20	3.4	64

81	PHYSIOLOGY. Regulation of breathing by CO <sub>2</sub> requires the proton-activated receptor GPR4 in retrotrapezoid nucleus neurons. <b>2015</b> , 348, 1255-60		147
80	Decreased calcium-activated potassium channels by hypoxia causes abnormal firing in the spontaneous firing medial vestibular nuclei neurons. <b>2015</b> , 272, 2703-11		8
79	Hypoxia silences retrotrapezoid nucleus respiratory chemoreceptors via alkalosis. <b>2015</b> , 35, 527-43		46
78	Modulation of adrenocorticotrophin hormone (ACTH)-induced expression of stress-related genes by PUFA in inter-renal cells from European sea bass ( <i>Dicentrarchus labrax</i> ). <b>2015</b> , 4, e16		14
77	The brain acid-base homeostasis and serotonin: A perspective on the use of carbon dioxide as human and rodent experimental model of panic. <b>2015</b> , 129, 58-78		19
76	Brainstem areas activated by intermittent apnea in awake unrestrained rats. <i>Neuroscience</i> , <b>2015</b> , 297, 262-71	3.9	10
75	Respiratory and sympathetic chemoreflex regulation by K <sup>l</sup> iker-Fuse neurons in rats. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2015</b> , 467, 231-9	4.6	10
74	Key Brainstem Structures Activated during Hypoxic Exposure in One-day-old Mice Highlight Characteristics for Modeling Breathing Network in Premature Infants. <i>Frontiers in Physiology</i> , <b>2016</b> , 7, 609	4.6	5
73	Integration of Central and Peripheral Respiratory Chemoreflexes. <i>Comprehensive Physiology</i> , <b>2016</b> , 6, 1005-41	7.7	32
72	Intermittent hypercapnia-induced phrenic long-term depression is revealed after serotonin receptor blockade with methysergide in anaesthetized rats. <i>Experimental Physiology</i> , <b>2016</b> , 101, 319-31	2.4	12
71	Hypoxia-induced increases in serotonin-immunoreactive nerve fibers in the medulla oblongata of the rat. <b>2016</b> , 118, 806-817		3
70	Parabrachial CGRP Neurons Control Meal Termination. <b>2016</b> , 23, 811-20		132
69	Role of Astrocytes in Central Respiratory Chemoreception. <i>Advances in Experimental Medicine and Biology</i> , <b>2016</b> , 949, 109-145	3.6	8
68	The c-FOS Protein Immunohistological Detection: A Useful Tool As a Marker of Central Pathways Involved in Specific Physiological Responses In Vivo and Ex Vivo. <b>2016</b> ,		15
67	Growth restriction induced by chronic prenatal hypoxia affects breathing rhythm and its pontine catecholaminergic modulation. <i>Journal of Neurophysiology</i> , <b>2016</b> , 116, 1654-1662	3.2	3
66	Area postrema undergoes dynamic postnatal changes in mice and humans. <i>Journal of Comparative Neurology</i> , <b>2016</b> , 524, 1259-69	3.4	11
65	Afferent and efferent connections of C1 cells with spinal cord or hypothalamic projections in mice. <b>2016</b> , 221, 4027-4044		25
64	Role of sex hormones in hypercapnia-induced activation of the locus coeruleus in female and male rats. <i>Neuroscience</i> , <b>2016</b> , 313, 36-45	3.9	7

63	Mu-opioid receptors in the caudomedial NTS are critical for respiratory responses to stimulation of bronchopulmonary C-fibers and carotid body in conscious rats. <i>Respiratory Physiology and Neurobiology</i> , <b>2017</b> , 235, 71-78	2.8	10
62	On the verge of a respiratory-type panic attack: Selective activations of rostralateral and caudoventrolateral periaqueductal gray matter following short-lasting escape to a low dose of potassium cyanide. <i>Neuroscience</i> , <b>2017</b> , 348, 228-240	3.9	6
61	Role of the locus coeruleus catecholaminergic neurons in the chemosensory control of breathing in a Parkinson disease model. <i>Experimental Neurology</i> , <b>2017</b> , 293, 172-180	5.7	29
60	Depletion of rostral ventrolateral medullary catecholaminergic neurons impairs the hypoxic ventilatory response in conscious rats. <i>Neuroscience</i> , <b>2017</b> , 351, 1-14	3.9	21
59	The Physiology of Vomiting. <b>2017</b> , 15-25		3
58	A Genetically Defined Circuit for Arousal from Sleep during Hypercapnia. <i>Neuron</i> , <b>2017</b> , 96, 1153-1167.e53.9	5.3	72
57	The Onset of the Fetal Respiratory Rhythm: An Emergent Property Triggered by Chemosensory Drive?. <i>Advances in Experimental Medicine and Biology</i> , <b>2017</b> , 1015, 163-192	3.6	4
56	Medullary 5-HT neurons: Switch from tonic respiratory drive to chemoreception during postnatal development. <i>Neuroscience</i> , <b>2017</b> , 344, 1-14	3.9	20
55	Impaired central respiratory chemoreflex in an experimental genetic model of epilepsy. <i>Journal of Physiology</i> , <b>2017</b> , 595, 983-999	3.9	17
54	Dynamics of Defensive Response Mobilization to Approaching External Versus Interoceptive Threat. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , <b>2018</b> , 3, 525-538	3.4	9
53	The impact of intermittent or sustained carbon dioxide on intermittent hypoxia initiated respiratory plasticity. What is the effect of these combined stimuli on apnea severity?. <i>Respiratory Physiology and Neurobiology</i> , <b>2018</b> , 256, 58-66	2.8	15
52	Impaired chemosensory control of breathing after depletion of bulbospinal catecholaminergic neurons in rats. <i>Pflügers Archiv European Journal of Physiology</i> , <b>2018</b> , 470, 277-293	4.6	6
51	Raphe Pallidus is Not Important to Central Chemoreception in a Rat Model of Parkinson Disease. <i>Neuroscience</i> , <b>2018</b> , 369, 350-362	3.9	8
50	The Klliker-Fuse nucleus orchestrates the timing of expiratory abdominal nerve bursting. <i>Journal of Neurophysiology</i> , <b>2018</b> , 119, 401-412	3.2	29
49	Brain Circuitry for Arousal from Apnea. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , <b>2018</b> , 83, 63-69	3.9	2
48	Hypoxia activates a neuropeptidergic pathway from the paraventricular nucleus of the hypothalamus to the nucleus tractus solitarii. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2018</b> , 315, R1167-R1182	3.2	16
47	Deficient post-ictal cardiorespiratory compensatory mechanisms mediated by the periaqueductal gray may lead to death in a mouse model of SUDEP. <i>Epilepsy Research</i> , <b>2018</b> , 147, 1-8	3	11
46	Brainstem Nuclei Associated with Mediating Apnea-Induced Respiratory Motor Plasticity. <i>Scientific Reports</i> , <b>2018</b> , 8, 12709	4.9	5

45	Serotonergic projections to the ventral respiratory column from raphe nuclei in rats. <i>Neuroscience Research</i> , <b>2019</b> , 143, 20-30	2.9	9
44	BDNF downregulates $\beta$ -adrenergic receptor-mediated hypotensive mechanisms in the paraventricular nucleus of the hypothalamus. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2019</b> , 317, H1258-H1271	5.2	8
43	Sex differences in breathing. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , <b>2019</b> , 238, 110543	2.6	23
42	Neural activity in the periaqueductal gray and other specific subcortical structures is enhanced when a selective serotonin reuptake inhibitor selectively prevents seizure-induced sudden death in the DBA/1 mouse model of sudden unexpected death in epilepsy. <i>Epilepsia</i> , <b>2019</b> , 60, 1221-1233	6.4	9
41	Amygdala rapid kindling impairs breathing in response to chemoreflex activation. <i>Brain Research</i> , <b>2019</b> , 1718, 159-168	3.7	8
40	Adaptation of Respiratory-Related Brain Regions to Long-Term Hypercapnia: Focus on Neuropeptides in the RTN. <i>Frontiers in Neuroscience</i> , <b>2019</b> , 13, 1343	5.1	3
39	Impaired chemoreflex correlates with decreased c-Fos in respiratory brainstem centers of the streptozotocin-induced Alzheimer's disease rat model. <i>Experimental Neurology</i> , <b>2019</b> , 311, 285-292	5.7	4
38	Modulation of hypercapnic respiratory response by cholinergic transmission in the commissural nucleus of the solitary tract. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2020</b> , 472, 49-60	4.6	3
37	Corticosterone inhibits vagal afferent glutamate release in the nucleus of the solitary tract via retrograde endocannabinoid signaling. <i>American Journal of Physiology - Cell Physiology</i> , <b>2020</b> , 319, C1097-C1106	5.4	3
36	Loss of MeCP2 Function Across Several Neuronal Populations Impairs Breathing Response to Acute Hypoxia. <i>Frontiers in Neurology</i> , <b>2020</b> , 11, 593554	4.1	4
35	Understanding rat emotional responses to CO. <i>Translational Psychiatry</i> , <b>2020</b> , 10, 253	8.6	8
34	Roles of glutamate and GABA of the Nucleus Reticularis in generating the cardiovascular chemoreflex. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2020</b> , 472, 1051-1063	4.6	2
33	Brain regions of marine medaka activated by acute and short-term ocean acidification. <i>Science of the Total Environment</i> , <b>2020</b> , 720, 137279	10.2	1
32	Chemoreceptor mechanisms regulating CO <sub>2</sub> -induced arousal from sleep. <i>Journal of Physiology</i> , <b>2021</b> , 599, 2559-2571	3.9	1
31	Sex-Specific Effects of Stress on Respiratory Control: Plasticity, Adaptation, and Dysfunction. <i>Comprehensive Physiology</i> , <b>2021</b> , 11, 2097-2134	7.7	2
30	Role of hydrogen sulfide in ventilatory responses to hypercapnia in the medullary raphe of adult rats. <i>Experimental Physiology</i> , <b>2021</b> , 106, 1992-2001	2.4	3
29	Mind affects matter: Hindbrain GLP1 neurons link stress, physiology and behaviour. <i>Experimental Physiology</i> , <b>2021</b> , 106, 1853-1862	2.4	3
28	Respiratory Training and Plasticity After Cervical Spinal Cord Injury. <i>Frontiers in Cellular Neuroscience</i> , <b>2021</b> , 15, 700821	6.1	4

27	5-HT neurons of the medullary raphe contribute to respiratory control in toads. <i>Respiratory Physiology and Neurobiology</i> , <b>2021</b> , 293, 103717	2.8	0
26	The cell-vessel architecture model for the central respiratory chemoreceptor. <i>Advances in Experimental Medicine and Biology</i> , <b>2006</b> , 580, 233-8; discussion 351-9	3.6	3
25	Ventilatory response to CO <sub>2</sub> in new born mouse. <i>Advances in Experimental Medicine and Biology</i> , <b>2003</b> , 536, 549-54	3.6	1
24	A Neural Systems Approach to the Study of the Respiratory-Type Panic Disorder. <b>2016</b> , 9-77		4
23	Lower Brain Stem Regulation of Visceral, Cardiovascular, and Respiratory Function. <b>2004</b> , 464-478		15
22	Pilocarpine-induced status epilepticus reduces chemosensory control of breathing. <i>Brain Research Bulletin</i> , <b>2020</b> , 161, 98-105	3.9	2
21	A leptin-regulated circuit controls glucose mobilization during noxious stimuli. <i>Journal of Clinical Investigation</i> , <b>2017</b> , 127, 3103-3113	15.9	21
20	Effects of the respiratory stimulant almitrine on breathing and FOS expression in the brain of fetal and newborn sheep. <i>Pediatric Research</i> , <b>1999</b> , 45, 531-43	3.2	3
19	Current Perspectives for the use of Gonane Progesterone Drugs in the Treatment of Central Hypoventilation Syndromes. <i>Current Neuropharmacology</i> , <b>2018</b> , 16, 1433-1454	7.6	4
18	Immunohistochemical study of the carotid body during acute hypoxia. <i>Advances in Experimental Medicine and Biology</i> , <b>2003</b> , 536, 109-16	3.6	
17	Consequences of In Utero Caffeine Exposure on Respiratory Output in Normoxic and Hypoxic Conditions and Related Changes of Fos Expression: A Study on Brainstem Spinal Cord Preparations Isolated From Newborn Rats. <i>Pediatric Research</i> , <b>2003</b> , 53, 266-273	3.2	10
16	Chemoreceptors, Breathing, and pH. <b>2008</b> , 1587-1600		
15	Intermittent Hypoxia Alters the Function of Cardiovascular Neurons and Reflex Pathways in the Brainstem. <b>2012</b> , 71-83		
14	Fos immunohistochemistry as a tool to map multisynaptic pathways activated by hypercapnia. <b>1998</b> , 33-37		
13	Role of the K <sub>1</sub> iker-Fuse nucleus in cardiovascular responses to hypoxia and baroreceptor activation in anesthetized rats. <i>BiolImpacts</i> , <b>2020</b> , 10, 55-61	3.5	
12	Breathing Behaviors in Common Marmoset ( <i>Callithrix jacchus</i> ).		
11	Retrotrapezoid nucleus: a litmus test for the identification of central chemoreceptors. <b>2005</b> , 90, 247-253		2
10	An open-source tool for automated analysis of breathing behaviors in common marmosets and rodents. <i>ELife</i> , <b>2022</b> , 11,	8.9	0

9	[Alone or combined with serotonergic agents, the progestins of the gonane family may represent a therapeutic alternative for Ondine's curse syndrome].. <i>Revue Des Maladies Respiratoires</i> , <b>2022</b> ,	0
8	Effects of CO on time-dependent changes in cardiorespiratory functions under sustained hypoxia.. <i>Respiratory Physiology and Neurobiology</i> , <b>2022</b> , 300, 103886	2.8
7	In Transgenic Erythropoietin Deficient Mice, an Increase in Respiratory Response to Hypercapnia Parallels Abnormal Distribution of CO/H-Activated Cells in the Medulla Oblongata.. <i>Frontiers in Physiology</i> , <b>2022</b> , 13, 850418	4.6
6	Data_Sheet_1.pdf. <b>2019</b> ,	
5	Nucleus Tractus Solitarius Neurons Activated by Hypercapnia and Hypoxia Lack Mu Opioid Receptor Expression. <i>Frontiers in Molecular Neuroscience</i> , 15,	6.1
4	Retrotrapezoid nucleus: a litmus test for the identification of central chemoreceptors. <i>Experimental Physiology</i> , <b>2005</b> , 90, 247-253	2.4
3	Chemogenetic inhibition of PHOX2-expressing neurons in the COMMISSURAL NTS decreases blood pressure IN anesthetized SPONTANEOUSLY HYPERTENSIVE RATS. <i>Neuroscience Letters</i> , <b>2022</b> , 136817	3.3
2	The O <sub>2</sub> -sensitive brain stem, hyperoxic hyperventilation, and CNS oxygen toxicity. <i>Frontiers in Physiology</i> , 13,	4.6
1	CO <sub>2</sub> exposure enhances Fos expression in hypothalamic neurons in rats during the light and dark phases of the diurnal cycle.	0