Julian F R Paton

List of Publications by Year
in descending order

293	11,048	23544	39638
papers	citations	58 h-index	94 g-index

295	295	295	7883
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A working heart-brainstem preparation of the mouse. Journal of Neuroscience Methods, 1996, 65, 63-68.	1.3	429
2	Spatial and Functional Architecture of the Mammalian Brain Stem Respiratory Network: A Hierarchy of Three Oscillatory Mechanisms. Journal of Neurophysiology, 2007, 98, 3370-3387.	0.9	383
3	Brainstem respiratory networks: building blocks and microcircuits. Trends in Neurosciences, 2013, 36, 152-162.	4.2	330
4	The yin and yang of cardiac autonomic control: Vago-sympathetic interactions revisited. Brain Research Reviews, 2005, 49, 555-565.	9.1	280
5	Lactate-mediated glia-neuronal signalling in the mammalian brain. Nature Communications, 2014, 5, 3284.	5.8	278
6	The Carotid Body as a Therapeutic Target for the Treatment of Sympathetically Mediated Diseases. Hypertension, 2013, 61, 5-13.	1.3	232
7	The sympathetic nervous system and blood pressure in humans: implications for hypertension. Journal of Human Hypertension, 2012, 26, 463-475.	1.0	213
8	Increased sympathetic outflow in juvenile rats submitted to chronic intermittent hypoxia correlates with enhanced expiratory activity. Journal of Physiology, 2008, 586, 3253-3265.	1.3	211
9	The carotid body as a putative therapeutic target for the treatment of neurogenic hypertension. Nature Communications, 2013, 4, 2395.	5.8	204
10	Hypertension is critically dependent on the carotid body input in the spontaneously hypertensive rat. Journal of Physiology, 2012, 590, 4269-4277.	1.3	188
11	Respiratory rhythm generation during gasping depends on persistent sodium current. Nature Neuroscience, 2006, 9, 311-313.	7.1	184
12	Amplified respiratoryâ€“sympathetic coupling in the spontaneously hypertensive rat: does it contribute to hypertension?. Journal of Physiology, 2009, 587, 597-610.	1.3	178
13	Abdominal expiratory activity in the rat brainstemâ€“spinal cord in situ: patterns, origins and implications for respiratory rhythm generation. Journal of Physiology, 2009, 587, 3539-3559.	1.3	173
14	Autonomic-Immune-Vascular Interaction. Hypertension, 2011, 57, 1026-1033.	1.3	157
15	Efficient large-scale production and concentration of HIV-1-based lentiviral vectors for use in vivo. Physiological Genomics, 2003, 12, 221-228.	1.0	154
16	Adenoviral vector demonstrates that angiotensin IIâ€induced depression of the cardiac baroreflex is mediated by endothelial nitric oxide synthase in the nucleus tractus solitarii of the rat. Journal of Physiology, 2001, 531, 445-458.	1.3	151
17	Purinergic receptors in the carotid body as a new drug target for controlling hypertension. Nature Medicine, 2016, 22, 1151-1159.	15.2	149
18	Correction of respiratory disorders in a mouse model of Rett syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18208-18213.	3.3	146

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19	The human ventilatory response to stress: rate or depth?. Journal of Physiology, 2017, 595, 5729-5752.	1.3	141
20	Astrocytes monitor cerebral perfusion and control systemic circulation to maintain brain blood flow. Nature Communications, 2020, 11, 131.	5.8	137
21	Essential Role of Phox2b-Expressing Ventrolateral Brainstem Neurons in the Chemosensory Control of Inspiration and Expiration. Journal of Neuroscience, 2010, 30, 12466-12473.	1.7	136
22	Spatial organization and state-dependent mechanisms for respiratory rhythm and pattern generation. Progress in Brain Research, 2007, 165, 201-220.	0.9	132
23	Modeling Neural Mechanisms for Genesis of Respiratory Rhythm and Pattern. II. Network Models of the Central Respiratory Pattern Generator. Journal of Neurophysiology, 1997, 77, 2007-2026.	0.9	120
24	Unilateral Carotid Body Resection inÂResistant Hypertension. JACC Basic To Translational Science, 2016, 1, 313-324.	1.9	118
25	Evaluating the physiological significance of respiratory sinus arrhythmia: looking beyond ventilationâ€“perfusion efficiency. Journal of Physiology, 2012, 590, 1989-2008.	1.3	106
26	Î¼ opioid receptor activation hyperpolarizes respiratoryâ€controlling KÃ¶llikerâ€“Fuse neurons and suppresses postâ€inspiratory drive. Journal of Physiology, 2015, 593, 4453-4469.	1.3	103
27	Differential effects of angiotensin II on cardiorespiratory reflexes mediated by nucleus tractus solitarii - a microinjection study in the rat. Journal of Physiology, 1999, 521, 213-225.	1.3	99
28	Characterizations of eupnea, apneusis and gasping in a perfused rat preparation. Respiration Physiology, 2000, 123, 201-213.	2.8	99
29	Chemoreceptor Hypersensitivity, Sympathetic Excitation, and Overexpression of ASIC and TASK Channels Before the Onset of Hypertension in SHR. Circulation Research, 2010, 106, 536-545.	2.0	99
30	Chronic inhibition of endothelial nitric oxide synthase activity in nucleus tractus solitarii enhances baroreceptor reflex in conscious rats. Journal of Physiology, 2003, 546, 233-242.	1.3	98
31	Carotid body resection for sympathetic modulation in systolic heart failure: results from firstâ€inâ€man study. European Journal of Heart Failure, 2017, 19, 391-400.	2.9	97
32	Junctional Adhesion Molecule-1 Is Upregulated in Spontaneously Hypertensive Rats. Hypertension, 2007, 49, 1321-1327.	1.3	92
33	Harvey Cushing and the regulation of blood pressure in giraffe, rat and man: introducing â€˜Cushing's mechanismâ€™. Experimental Physiology, 2009, 94, 11-17.	0.9	86
34	Sympatheticâ€mediated hypertension of awake juvenile rats submitted to chronic intermittent hypoxia is not linked to baroreflex dysfunction. Experimental Physiology, 2009, 94, 972-983.	0.9	86
35	Modeling Neural Mechanisms for Genesis of Respiratory Rhythm and Pattern. I. Models of Respiratory Neurons. Journal of Neurophysiology, 1997, 77, 1994-2006.	0.9	85
36	Quantifying sympathetic neuroâ€haemodynamic transduction at rest in humans: insights into sex, ageing and blood pressure control. Journal of Physiology, 2016, 594, 4753-4768.	1.3	85

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37	Intermittent hypoxia-induced sensitization of central chemoreceptors contributes to sympathetic nerve activity during late expiration in rats. Journal of Neurophysiology, 2011, 105, 3080-3091.	0.9	84
38	Comprehensive characterisation of hypertensive heart disease left ventricular phenotypes. Heart, 2016, 102, 1671-1679.	1.2	84
39	Carotid body removal for treatment of chronic systolic heart failure. International Journal of Cardiology, 2013, 168, 2506-2509.	0.8	83
40	Late-Expiratory Activity: Emergence and Interactions With the Respiratory CPG. Journal of Neurophysiology, 2010, 104, 2713-2729.	0.9	82
41	Brainstem Hypoxia Contributes to the Development of Hypertension in the Spontaneously Hypertensive Rat. Hypertension, 2015, 65, 775-783.	1.3	81
42	Involvement ofl-glutamate and ATP in the neurotransmission of the sympathoexcitatory component of the chemoreflex in the commissural nucleus tractus solitarii of awake rats and in the working heart-brainstem preparation. Journal of Physiology, 2007, 581, 1129-1145.	1.3	79
43	Brainstem sources of cardiac vagal tone and respiratory sinus arrhythmia. Journal of Physiology, 2016, 594, 7249-7265.	1.3	79
44	A spinal vasopressinergic mechanism mediates hyperosmolality-induced sympathoexcitation. Journal of Physiology, 2006, 576, 569-583.	1.3	74
45	Signalling across the blood brain barrier by angiotensin II: novel implications for neurogenic hypertension. Journal of Molecular Medicine, 2008, 86, 705-710.	1.7	74
46	Automation of analysis of cardiovascular autonomic function from chronic measurements of arterial pressure in conscious rats. Experimental Physiology, 2006, 91, 201-213.	0.9	73
47	Pontomedullary transection attenuates central respiratory modulation of sympathetic discharge, heart rate and the baroreceptor reflex in thein siturat preparation. Experimental Physiology, 2008, 93, 803-816.	0.9	71
48	The Logic of Carotid Body Connectivity to the Brain. Physiology, 2019, 34, 264-282.	1.6	71
49	Glycinergic inhibition is essential for coâ€ordinating cranial and spinal respiratory motor outputs in the neonatal rat. Journal of Physiology, 2002, 543, 643-653.	1.3	70
50	Changes in baroreceptor vagal reflex performance in the developing rat. Pflugers Archiv European Journal of Physiology, 1997, 434, 438-444.	1.3	69
51	Investigation and Treatment of High Blood Pressure in Young People. Hypertension, 2020, 75, 16-22.	1.3	69
52	Kidney-Induced Hypertension Depends on Superoxide Signaling in the Rostral Ventrolateral Medulla. Hypertension, 2010, 56, 290-296.	1.3	67
53	Control of sympathetic vasomotor tone by catecholaminergic C1 neurones of the rostral ventrolateral medulla oblongata. Cardiovascular Research, 2011, 91, 703-710.	1.8	67
54	Differential effects of angiotensin II in the nucleus tractus solitarii of the rat - plausible neuronal mechanisms. Journal of Physiology, 1999, 521, 227-238.	1.3	66

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55	Is High Blood Pressure Self-Protection for the Brain?. Circulation Research, 2016, 119, e140-e151.	2.0	66
56	Respiratory activity in neonatal rats. Autonomic Neuroscience: Basic and Clinical, 2000, 84, 19-29.	1.4	65
57	A decerebrate, artificially-perfused in situ preparation of rat: Utility for the study of autonomic and nociceptive processing. Journal of Neuroscience Methods, 2006, 155, 260-271.	1.3	65
58	Intracranial mechanisms for preserving brain blood flow in health and disease. Acta Physiologica, 2017, 219, 274-287.	1.8	65
59	Processing of central and reflex vagal drives by rat cardiac ganglion neurones: an intracellular analysis. Journal of Physiology, 2011, 589, 5801-5818.	1.3	63
60	Specific Respiratory Neuron Types Have Increased Excitability That Drive Presympathetic Neurones in Neurogenic Hypertension. Hypertension, 2014, 63, 1309-1318.	1.3	63
61	Revelations About Carotid Body Function Through its Pathological Role in Resistant Hypertension. Current Hypertension Reports, 2013, 15, 273-280.	1.5	62
62	Vascular-brain signaling in hypertension: Role of angiotensin II and nitric oxide. Current Hypertension Reports, 2007, 9, 242-247.	1.5	59
63	Rhythmic bursting of pre- and post-inspiratory neurones during central apnoea in mature mice. Journal of Physiology, 1997, 502, 623-639.	1.3	55
64	Hypertension and coarctation of the aorta: an inevitable consequence of developmental pathophysiology. Hypertension Research, 2011, 34, 543-547.	1.5	53
65	Convergence properties of solitary tract neurones driven synaptically by cardiac vagal afferents in the mouse. Journal of Physiology, 1998, 508, 237-252.	1.3	52
66	Mechanism of nitric oxide action on inhibitory GABAergic signaling within the nucleus tractus solitarii. FASEB Journal, 2006, 20, 1537-1539.	0.2	52
67	Dissociation between blood pressure and heart rate response to hypoxia after bilateral carotid body removal in men with systolic heart failure. Experimental Physiology, 2014, 99, 552-561.	0.9	52
68	Rasd1, a small G protein with a big role in the hypothalamic response to neuronal activation. Molecular Brain, 2016, 9, 1.	1.3	52
69	Increased sympathetic nerve activity and reduced cardiac baroreflex sensitivity in rheumatoid arthritis. Journal of Physiology, 2017, 595, 967-981.	1.3	52
70	Do changes in the coupling between respiratory and sympathetic activities contribute to neurogenic hypertension?. Clinical and Experimental Pharmacology and Physiology, 2009, 36, 1188-1196.	0.9	51
71	Deficiency of GABAergic synaptic inhibition in the KÃ¶llikerâ€“Fuse area underlies respiratory dysrhythmia in a mouse model of Rett syndrome. Journal of Physiology, 2016, 594, 223-237.	1.3	51
72	Nitric oxide is fundamental to neurovascular coupling in humans. Journal of Physiology, 2020, 598, 4927-4939.	1.3	51

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73	Genetic and pharmacological dissection of pathways involved in the angiotensin IIâ€mediated depression of baroreflex function. FASEB Journal, 2002, 16, 1595-1601.	0.2	50
74	REFLEXLY EVOKED COACTIVATION OF CARDIAC VAGAL AND SYMPATHETIC MOTOR OUTFLOWS: OBSERVATIONS AND FUNCTIONAL IMPLICATIONS. Clinical and Experimental Pharmacology and Physiology, 2006, 33, 1245-1250.	0.9	49
75	Arteriovenous Anastomosis. Hypertension, 2014, 64, 6-12.	1.3	49
76	Morphological and electrophysiological properties of neurones in the dorsal vagal complex of the rat activated by arterial baroreceptors. Journal of Comparative Neurology, 2000, 417, 233-249.	0.9	48
77	Hierarchical recruitment of the sympathetic and parasympathetic limbs of the baroreflex in normotensive and spontaneously hypertensive rats. Journal of Physiology, 2007, 579, 473-486.	1.3	48
78	Central regulation of heart rate and the appearance of respiratory sinus arrhythmia: New insights from mathematical modeling. Mathematical Biosciences, 2014, 255, 71-82.	0.9	48
79	Nucleus Tractus Solitarii: Integrating Structures. Experimental Physiology, 1999, 84, 815-833.	0.9	47
80	Inhibitory synaptic mechanisms regulating upper airway patency. Respiratory Physiology and Neurobiology, 2002, 131, 57-63.	0.7	47
81	Optimal solid state neurons. Nature Communications, 2019, 10, 5309.	5.8	47
82	Excessive Leukotriene B4 in Nucleus Tractus Solitarii Is Prohypertensive in Spontaneously Hypertensive Rats. Hypertension, 2013, 61, 194-201.	1.3	44
83	Hypertensive heart disease versus hypertrophic cardiomyopathy: multi-parametric cardiovascular magnetic resonance discriminators when end-diastolic wall thickness â‰¥ 15 mm. European Radiology, 2017, 27, 1125-1135.	2.3	44
84	Neurogenic Hypertension and Elevated Vertebrobasilar Arterial Resistance: Is There a Causative Link?. Current Hypertension Reports, 2012, 14, 261-269.	1.5	43
85	Sympathetic overactivity occurs before hypertension in the twoâ€kidney, oneâ€clip model. Experimental Physiology, 2016, 101, 67-80.	0.9	43
86	Brain stem P<scp>o</scp>₂and pH of the working heart-brain stem preparation during vascular perfusion with aqueous medium. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2001, 281, R528-R538.	0.9	41
87	Joint UK societiesâ€™ 2014 consensus statement on renal denervation for resistant hypertension. Heart, 2015, 101, 10-16.	1.2	41
88	Carotid sinus denervation ameliorates renovascular hypertension in adult Wistar rats. Journal of Physiology, 2016, 594, 6255-6266.	1.3	41
89	Role of the solitary tract nucleus in mediating nociceptive evoked cardiorespiratory responses. Autonomic Neuroscience: Basic and Clinical, 2001, 86, 170-182.	1.4	39
90	The Relationship Between Left Ventricular Wall Thickness, Myocardial Shortening, and Ejection Fraction in Hypertensive Heart Disease: Insights From Cardiac Magnetic Resonance Imaging. Journal of Clinical Hypertension, 2016, 18, 1119-1127.	1.0	39

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91	The KÃ¶lliker-Fuse nucleus orchestrates the timing of expiratory abdominal nerve bursting. Journal of Neurophysiology, 2018, 119, 401-412.	0.9	38
92	Antihypertensive Treatment Fails to Control Blood Pressure During Exercise. Hypertension, 2018, 72, 102-109.	1.3	38
93	Elevated vertebrobasilar artery resistance in neonatal spontaneously hypertensive rats. Journal of Applied Physiology, 2011, 111, 149-156.	1.2	37
94	Parasympathetic innervation of vertebrobasilar arteries: is this a potential clinical target?. Journal of Physiology, 2016, 594, 6463-6485.	1.3	36
95	GABA A receptor É›â€šubunit may confer benzodiazepine insensitivity to the caudal aspect of the nucleus tractus solitarii of the rat. Journal of Physiology, 2001, 536, 785-796.	1.3	35
96	Sensory Afferent Selective Role of P2 Receptors in the Nucleus Tractus Solitarii for Mediating the Cardiac Component of the Peripheral Chemoreceptor Reflex in Rats. Journal of Physiology, 2002, 543, 995-1005.	1.3	34
97	Enhancement of cellâ€špecific transgene expression from a Tetâ€Off regulatory system using a transcriptional amplification strategy in the rat brain. Journal of Gene Medicine, 2008, 10, 583-592.	1.4	34
98	Increasing brain serotonin corrects CO₂ chemosensitivity in methylâ€CpGâ€binding protein 2 (Mecp2)â€deficient mice. Experimental Physiology, 2013, 98, 842-849.	0.9	34
99	Osmoregulation Requires Brain Expression of the Renal Na-K-2Cl Cotransporter NKCC2. Journal of Neuroscience, 2015, 35, 5144-5155.	1.7	34
100	ECG strain pattern in hypertension is associated with myocardial cellular expansion and diffuse interstitial fibrosis: a multi-parametric cardiac magnetic resonance study. European Heart Journal Cardiovascular Imaging, 2017, 18, 441-450.	0.5	34
101	Importance of neurokinin-1 receptors in the nucleus tractus solitarii of mice for the integration of cardiac vagal inputs. European Journal of Neuroscience, 1998, 10, 2261-2275.	1.2	33
102	Location and properties of respiratory neurones with putative intrinsic bursting properties in the rat in situ. Journal of Physiology, 2009, 587, 3175-3188.	1.3	33
103	GLP1R Attenuates Sympathetic Response to High Glucose via Carotid Body Inhibition. Circulation Research, 2022, 130, 694-707.	2.0	33
104	Unravelling mechanisms of action of angiotensin II on cardiorespiratory function usingin vivogene transfer. Acta Physiologica Scandinavica, 2001, 173, 127-137.	2.3	32
105	Dominant role of aortic baroreceptors in the cardiac baroreflex of the rat in situ. Autonomic Neuroscience: Basic and Clinical, 2008, 142, 32-39.	1.4	32
106	Chronic Knockdown of the Nucleus of the Solitary Tract AT ₁ Receptors Increases Blood Inflammatory-Endothelial Progenitor Cell Ratio and Exacerbates Hypertension in the Spontaneously Hypertensive Rat. Hypertension, 2013, 61, 1328-1333.	1.3	30
107	Transcription Factor CREB3L1 Regulates Endoplasmic Reticulum Stress Response Genes in the Osmotically Challenged Rat Hypothalamus. PLoS ONE, 2015, 10, e0124956.	1.1	30
108	Central control of upper airway resistance regulating respiratory airflow in mammals. Journal of Anatomy, 2002, 201, 319-323.	0.9	29

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109	Coupling of sympathetic and somatic motor outflows from the spinal cord in a perfused preparation of adult mousein vitro. Journal of Physiology, 1998, 508, 907-918.	1.3	28
110	Effects of selective carotid body stimulation with adenosine in conscious humans. Journal of Physiology, 2016, 594, 6225-6240.	1.3	28
111	On the presence and functional significance of sympathetic premotor neurons with collateralized spinal axons in the rat. Journal of Physiology, 2019, 597, 3407-3423.	1.3	28
112	An Exploration of the Control of Micturition Using a Novel in Situ Arterially Perfused Rat Preparation. Frontiers in Neuroscience, 2011, 5, 62.	1.4	27
113	Locus Coeruleus as a vigilance centre for active inspiration and expiration in rats. Scientific Reports, 2018, 8, 15654.	1.6	27
114	Nucleus Tractus Solitarii: Integrating Structures. , 1999, 84, 815.		27
115	Detection of angiotensin II mediated nitric oxide release within the nucleus of the solitary tract using electron-paramagnetic resonance (EPR) spectroscopy. Autonomic Neuroscience: Basic and Clinical, 2006, 126-127, 193-201.	1.4	26
116	Optical imaging of medullary ventral respiratory network during eupnea and gaspingIn situ. European Journal of Neuroscience, 2006, 23, 3025-3033.	1.2	26
117	Transcription factor CREB3L1 mediates cAMP and glucocorticoid regulation of arginine vasopressin gene transcription in the rat hypothalamus. Molecular Brain, 2015, 8, 68.	1.3	26
118	P2X3 receptors and sensitization of autonomic reflexes. Autonomic Neuroscience: Basic and Clinical, 2015, 191, 16-24.	1.4	25
119	Chronic depression of hypothalamic paraventricular neuronal activity produces sustained hypotension in hypertensive rats. Experimental Physiology, 2014, 99, 89-100.	0.9	24
120	Variable role of carotid bodies in cardiovascular responses to exercise, hypoxia and hypercapnia in spontaneously hypertensive rats. Journal of Physiology, 2018, 596, 3201-3216.	1.3	24
121	Respiratory modulated sympathetic activity: a putative mechanism for developing vascular resistance?. Journal of Physiology, 2015, 593, 5341-5360.	1.3	23
122	Autonomic innervation of the carotid body as a determinant of its sensitivity: implications for cardiovascular physiology and pathology. Cardiovascular Research, 2021, 117, 1015-1032.	1.8	23
123	Reverse re-modelling chronic heart failure by reinstating heart rate variability. Basic Research in Cardiology, 2022, 117, 4.	2.5	23
124	Counterpoint: Medullary Pacemaker Neurons are Essential for Gasping, but not Eupnea, in Mammals. Journal of Applied Physiology, 2007, 103, 718-720.	1.2	22
125	Switching control of sympathetic activity from forebrain to hindbrain in chronic dehydration. Journal of Physiology, 2011, 589, 4457-4471.	1.3	22
126	Advancing respiratoryâ€“cardiovascular physiology with the working heartâ€“brainstem preparation over 25 years. Journal of Physiology, 2022, 600, 2049-2075.	1.3	22

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127	Response Properties of Baroreceptive NTS Neurons. Annals of the New York Academy of Sciences, 2001, 940, 157-168.	1.8	21
128	Hypertension: a problem of organ blood flow supplyâ€“demand mismatch. Future Cardiology, 2016, 12, 339-349.	0.5	21
129	Control of Polyamine Biosynthesis by Antizyme Inhibitor 1 Is Important for Transcriptional Regulation of Arginine Vasopressin in the Male Rat Hypothalamus. Endocrinology, 2015, 156, 2905-2917.	1.4	20
130	Ischaemia-induced sympathoexcitation in spinalyzed rats. Neuroscience Letters, 2007, 415, 73-76.	1.0	19
131	RNA binding protein Caprin-2 is a pivotal regulator of the central osmotic defense response. ELife, 2015, 4, .	2.8	18
132	Vasopressin V1a receptors mediate the hypertensive effects of [Pyr¹]apelinâ€13 in the rat rostral ventrolateral medulla. Journal of Physiology, 2017, 595, 3303-3318.	1.3	18
133	Intrinsic chemosensitivity of rostral ventrolateral medullary sympathetic premotor neurons in the in situ arterially perfused preparation of rats. Experimental Physiology, 2014, 99, 1453-1466.	0.9	17
134	Influence of age on respiratory modulation of muscle sympathetic nerve activity, blood pressure and baroreflex function in humans. Experimental Physiology, 2015, 100, 1039-1051.	0.9	17
135	The effect of obesity on electrocardiographic detection of hypertensive left ventricular hypertrophy: recalibration against cardiac magnetic resonance. Journal of Human Hypertension, 2016, 30, 197-203.	1.0	17
136	Acute hydrocortisone administration reduces cardiovagal baroreflex sensitivity and heart rate variability in young men. Journal of Physiology, 2018, 596, 4847-4861.	1.3	17
137	Oxygenation pattern and compensatory responses to hypoxia and hypercapnia following bilateral carotid body resection in humans. Journal of Physiology, 2021, 599, 2323-2340.	1.3	17
138	Water deprivation increases the expression of neuronal nitric oxide synthase (nNOS) but not orexin-A in the lateral hypothalamic area of the rat. Journal of Comparative Neurology, 2005, 490, 180-193.	0.9	16
139	Carotid body overactivity induces respiratory neurone channelopathy contributing to neurogenic hypertension. Journal of Physiology, 2015, 593, 3055-3063.	1.3	16
140	Defining inhibitory neurone function in respiratory circuits: opportunities with optogenetics?. Journal of Physiology, 2015, 593, 3033-3046.	1.3	16
141	Efficacy of Electrical Baroreflex Activation Is Independent of Peripheral Chemoreceptor Modulation. Hypertension, 2020, 75, 257-264.	1.3	16
142	Intrinsic and synaptic mechanisms controlling the expiratory activity of excitatory lateral parafacial neurones of rats. Journal of Physiology, 2021, 599, 4925-4948.	1.3	16
143	Mapping the cellular electrophysiology of rat sympathetic preganglionic neurones to their roles in cardiorespiratory reflex integration: a whole cell recording study in situ. Journal of Physiology, 2014, 592, 2215-2236.	1.3	15
144	Systemic leukotriene B₄ receptor antagonism lowers arterial blood pressure and improves autonomic function in the spontaneously hypertensive rat. Journal of Physiology, 2016, 594, 5975-5989.	1.3	15

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145	Role of ventral medullary catecholaminergic neurons for respiratory modulation of sympathetic outflow in rats. Scientific Reports, 2017, 7, 16883.	1.6	15
146	Purinergic plasticity within petrosal neurons in hypertension. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2018, 315, R963-R971.	0.9	15
147	Enhancing respiratory sinus arrhythmia increases cardiac output in rats with left ventricular dysfunction. Journal of Physiology, 2020, 598, 455-471.	1.3	15
148	Sex differences in the sympathetic neurocirculatory responses to chemoreflex activation. Journal of Physiology, 2022, , .	1.3	15
149	Cooperative Oxygen Sensing by the Kidney and Carotid Body in Blood Pressure Control. Frontiers in Physiology, 2017, 8, 752.	1.3	14
150	Noctural dipping status and left ventricular hypertrophy: A cardiac magnetic resonance imaging study. Journal of Clinical Hypertension, 2018, 20, 784-793.	1.0	14
151	Sympathetic-transduction in untreated hypertension. Journal of Human Hypertension, 2022, 36, 24-31.	1.0	14
152	The sympathetic nervous system exacerbates carotid body sensitivity in hypertension. Cardiovascular Research, 2023, 119, 316-331.	1.8	14
153	A consensus statement on the use of angiotensin receptor blockers and angiotensin converting enzyme inhibitors in relation to COVID-19 (corona virus disease 2019). New Zealand Medical Journal, 2020, 133, 85-87.	0.5	14
154	Transgenic neuronal nitric oxide synthase expression induces axotomy-like changes in adult motoneurons. Journal of Physiology, 2010, 588, 3425-3443.	1.3	13
155	Cerebral Blood Flow Response to Simulated Hypovolemia in Essential Hypertension. Hypertension, 2019, 74, 1391-1398.	1.3	13
156	Whole Cell Recordings From Respiratory Neurones in an Arterially Perfused in situ Neonatal Rat Preparation. Experimental Physiology, 2003, 88, 725-732.	0.9	12
157	Hypertension Before and After Posterior Circulation Infarction: Analysis of Data from the South London Stroke Register. Journal of Stroke and Cerebrovascular Diseases, 2012, 21, 612-618.	0.7	12
158	Modulation of respiratory sinus arrhythmia in rats with central pattern generator hardware. Journal of Neuroscience Methods, 2013, 212, 124-132.	1.3	12
159	The inevitability of ATP as a transmitter in the carotid body. Autonomic Neuroscience: Basic and Clinical, 2021, 234, 102815.	1.4	12
160	5-HT4 receptors in nucleus tractus solitarii attenuate cardiopulmonary reflex in anesthetized rats. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 277, H1914-H1923.	1.5	11
161	Salt Appetite Is Reduced by a Single Experience of Drinking Hypertonic Saline in the Adult Rat. PLoS ONE, 2014, 9, e104802.	1.1	11
162	Hypothalamic paraventricular nucleus neuronal nitric oxide synthase activity is a major determinant of renal sympathetic discharge in conscious Wistar rats. Experimental Physiology, 2018, 103, 419-428.	0.9	11

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163	Repaired coarctation of the aorta, persistent arterial hypertension and the selfish brain. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 68.	1.6	11
164	Long-term intracellular recordings of respiratory neuronal activities in situ during eupnea, gasping and blockade of synaptic transmission. Journal of Neuroscience Methods, 2005, 147, 138-145.	1.3	10
165	Modelling the vascular response to sympathetic postganglionic nerve activity. Journal of Theoretical Biology, 2015, 371, 102-116.	0.8	10
166	Cerebral AÎ²40 and systemic hypertension. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 1993-2005.	2.4	9
167	Shift of leading pacemaker site during reflex vagal stimulation and altered electrical sourceâ€toâ€sink balance. Journal of Physiology, 2019, 597, 3297-3313.	1.3	9
168	Inflammatory pathways are central to posterior cerebrovascular artery remodelling prior to the onset of congenital hypertension. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 1803-1817.	2.4	9
169	Heartbeats entrain breathing via baroreceptorâ€mediated modulation of expiratory activity. Experimental Physiology, 2021, 106, 1181-1195.	0.9	9
170	Somatic Gene Transfer: Implications for Cardiovascular Control. Experimental Physiology, 2000, 85, 747-755.	0.9	8
171	Normalization of Autonomic Function in Children With Coarctation of the Aorta After Surgical Correction in Infancy. Hypertension, 2009, 54, e21-2.	1.3	8
172	Cell- and region-specific miR30-based gene knock-down with temporal control in the rat brain. BMC Molecular Biology, 2010, 11, 93.	3.0	8
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