Julian F R Paton

List of Publications by Citations

275 papers	8,891 citations	54 h-index	86 g-index
295 ext. papers	10,052 ext. citations	4.1 avg, IF	6.27 L-index

#	Paper	IF	Citations
275	A working heart-brainstem preparation of the mouse. *Journal of Neuroscience Methods*, **1996**, 65, 63-8	3	381
274	Spatial and functional architecture of the mammalian brain stem respiratory network: a hierarchy of three oscillatory mechanisms. *Journal of Neurophysiology*, **2007**, 98, 3370-87	3.2	320
273	Brainstem respiratory networks: building blocks and microcircuits. *Trends in Neurosciences*, **2013**, 36, 152-62	13.3	249
272	The yin and yang of cardiac autonomic control: vago-sympathetic interactions revisited. *Brain Research Reviews*, **2005**, 49, 555-65		219
271	Lactate-mediated glia-neuronal signalling in the mammalian brain. *Nature Communications*, **2014**, 5, 3284	17.4	215
270	Increased sympathetic outflow in juvenile rats submitted to chronic intermittent hypoxia correlates with enhanced expiratory activity. *Journal of Physiology*, **2008**, 586, 3253-65	3.9	198
269	The carotid body as a therapeutic target for the treatment of sympathetically mediated diseases. *Hypertension*, **2013**, 61, 5-13	8.5	195
268	Respiratory rhythm generation during gasping depends on persistent sodium current. *Nature Neuroscience*, **2006**, 9, 311-3	25.5	172
267	The carotid body as a putative therapeutic target for the treatment of neurogenic hypertension. *Nature Communications*, **2013**, 4, 2395	17.4	169
266	Amplified respiratory-sympathetic coupling in the spontaneously hypertensive rat: does it contribute to hypertension?. *Journal of Physiology*, **2009**, 587, 597-610	3.9	162
265	Hypertension is critically dependent on the carotid body input in the spontaneously hypertensive rat. *Journal of Physiology*, **2012**, 590, 4269-77	3.9	155
264	The sympathetic nervous system and blood pressure in humans: implications for hypertension. *Journal of Human Hypertension*, **2012**, 26, 463-75	2.6	155
263	Abdominal expiratory activity in the rat brainstem-spinal cord in situ: patterns, origins and implications for respiratory rhythm generation. *Journal of Physiology*, **2009**, 587, 3539-59	3.9	150
262	Autonomic-immune-vascular interaction: an emerging concept for neurogenic hypertension. *Hypertension*, **2011**, 57, 1026-33	8.5	144
261	Efficient large-scale production and concentration of HIV-1-based lentiviral vectors for use in vivo. *Physiological Genomics*, **2003**, 12, 221-8	3.6	139
260	Adenoviral vector demonstrates that angiotensin II-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, 445-58	3.9	139
259	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, 18208-13	11.5	133

258	Essential role of Phox2b-expressing ventrolateral brainstem neurons in the chemosensory control of inspiration and expiration. *Journal of Neuroscience*, **2010**, 30, 12466-73	6.6	122
257	Spatial organization and state-dependent mechanisms for respiratory rhythm and pattern generation. *Progress in Brain Research*, **2007**, 165, 201-20	2.9	115
256	Purinergic receptors in the carotid body as a new drug target for controlling hypertension. *Nature Medicine*, **2016**, 22, 1151-1159	50.5	110
255	Modeling neural mechanisms for genesis of respiratory rhythm and pattern. II. Network models of the central respiratory pattern generator. *Journal of Neurophysiology*, **1997**, 77, 2007-26	3.2	98
254	Characterizations of eupnea, apneusis and gasping in a perfused rat preparation. *Respiration Physiology*, **2000**, 123, 201-13		96
253	Differential effects of angiotensin II on cardiorespiratory reflexes mediated by nucleus tractus solitarii - a microinjection study in the rat. *Journal of Physiology*, **1999**, 521 Pt 1, 213-25	3.9	92
252	Chemoreceptor hypersensitivity, sympathetic excitation, and overexpression of ASIC and TASK channels before the onset of hypertension in SHR. *Circulation Research*, **2010**, 106, 536-45	15.7	89
251	Chronic inhibition of endothelial nitric oxide synthase activity in nucleus tractus solitarii enhances baroreceptor reflex in conscious rats. *Journal of Physiology*, **2003**, 546, 233-42	3.9	89
250	Unilateral Carotid Body Resection in Resistant Hypertension: A Safety and Feasibility Trial. *JACC Basic To Translational Science*, **2016**, 1, 313-324	8.7	85
249	Sympathetic-mediated hypertension of awake juvenile rats submitted to chronic intermittent hypoxia is not linked to baroreflex dysfunction. *Experimental Physiology*, **2009**, 94, 972-83	2.4	82
248	Junctional adhesion molecule-1 is upregulated in spontaneously hypertensive rats: evidence for a prohypertensive role within the brain stem. *Hypertension*, **2007**, 49, 1321-7	8.5	82
247	Evaluating the physiological significance of respiratory sinus arrhythmia: looking beyond ventilation-perfusion efficiency. *Journal of Physiology*, **2012**, 590, 1989-2008	3.9	78
246	The human ventilatory response to stress: rate or depth?. *Journal of Physiology*, **2017**, 595, 5729-5752	3.9	77
245	Intermittent hypoxia-induced sensitization of central chemoreceptors contributes to sympathetic nerve activity during late expiration in rats. *Journal of Neurophysiology*, **2011**, 105, 3080-91	3.2	75
244	Harvey Cushing and the regulation of blood pressure in giraffe, rat and man: introducing Cushing's mechanism. *Experimental Physiology*, **2009**, 94, 11-7	2.4	75
243	Involvement of L-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, 1129-45	3.9	74
242	Astrocytes monitor cerebral perfusion and control systemic circulation to maintain brain blood flow. *Nature Communications*, **2020**, 11, 131	17.4	74
241	Modeling neural mechanisms for genesis of respiratory rhythm and pattern. I. Models of respiratory neurons. *Journal of Neurophysiology*, **1997**, 77, 1994-2006	3.2	73

240	Late-expiratory activity: emergence and interactions with the respiratory CpG. *Journal of Neurophysiology*, **2010**, 104, 2713-29	3.2	71
239	Carotid body removal for treatment of chronic systolic heart failure. *International Journal of Cardiology*, **2013**, 168, 2506-9	3.2	69
238	Carotid body resection for sympathetic modulation in systolic heart failure: results from first-in-man study. *European Journal of Heart Failure*, **2017**, 19, 391-400	12.3	69
237	opioid receptor activation hyperpolarizes respiratory-controlling Kölliker-Fuse neurons and suppresses post-inspiratory drive. *Journal of Physiology*, **2015**, 593, 4453-69	3.9	69
236	Brainstem hypoxia contributes to the development of hypertension in the spontaneously hypertensive rat. *Hypertension*, **2015**, 65, 775-83	8.5	69
235	Signalling across the blood brain barrier by angiotensin II: novel implications for neurogenic hypertension. *Journal of Molecular Medicine*, **2008**, 86, 705-10	5.5	68
234	Automation of analysis of cardiovascular autonomic function from chronic measurements of arterial pressure in conscious rats. *Experimental Physiology*, **2006**, 91, 201-13	2.4	67
233	A spinal vasopressinergic mechanism mediates hyperosmolality-induced sympathoexcitation. *Journal of Physiology*, **2006**, 576, 569-83	3.9	67
232	Glycinergic inhibition is essential for co-ordinating cranial and spinal respiratory motor outputs in the neonatal rat. *Journal of Physiology*, **2002**, 543, 643-53	3.9	66
231	Quantifying sympathetic neuro-haemodynamic transduction at rest in humans: insights into sex, ageing and blood pressure control. *Journal of Physiology*, **2016**, 594, 4753-68	3.9	64
230	Changes in baroreceptor vagal reflex performance in the developing rat. *Pflugers Archiv European Journal of Physiology*, **1997**, 434, 438-44	4.6	64
229	Kidney-induced hypertension depends on superoxide signaling in the rostral ventrolateral medulla. *Hypertension*, **2010**, 56, 290-6	8.5	63
228	Pontomedullary transection attenuates central respiratory modulation of sympathetic discharge, heart rate and the baroreceptor reflex in the in situ rat preparation. *Experimental Physiology*, **2008**, 93, 803-16	2.4	61
227	Differential effects of angiotensin II in the nucleus tractus solitarii of the rat--plausible neuronal mechanism. *Journal of Physiology*, **1999**, 521 Pt 1, 227-38	3.9	61
226	Control of sympathetic vasomotor tone by catecholaminergic C1 neurones of the rostral ventrolateral medulla oblongata. *Cardiovascular Research*, **2011**, 91, 703-10	9.9	60
225	Respiratory activity in neonatal rats. *Autonomic Neuroscience: Basic and Clinical*, **2000**, 84, 19-29	2.4	60
224	Specific respiratory neuron types have increased excitability that drive presympathetic neurones in neurogenic hypertension. *Hypertension*, **2014**, 63, 1309-18	8.5	58
223	A decerebrate, artificially-perfused in situ preparation of rat: utility for the study of autonomic and nociceptive processing. *Journal of Neuroscience Methods*, **2006**, 155, 260-71	3	58

222	Vascular-brain signaling in hypertension: role of angiotensin II and nitric oxide. *Current Hypertension Reports*, **2007**, 9, 242-7	4.7	54
221	Revelations about carotid body function through its pathological role in resistant hypertension. *Current Hypertension Reports*, **2013**, 15, 273-80	4.7	53
220	Comprehensive characterisation of hypertensive heart disease left ventricular phenotypes. *Heart*, **2016**, 102, 1671-9	5.1	52
219	Rhythmic bursting of pre- and post-inspiratory neurones during central apnoea in mature mice. *Journal of Physiology*, **1997**, 502 (Pt 3), 623-39	3.9	51
218	Is High Blood Pressure Self-Protection for the Brain?. *Circulation Research*, **2016**, 119, e140-e151	15.7	51
217	Intracranial mechanisms for preserving brain blood flow in health and disease. *Acta Physiologica*, **2017**, 219, 274-287	5.6	50
216	Processing of central and reflex vagal drives by rat cardiac ganglion neurones: an intracellular analysis. *Journal of Physiology*, **2011**, 589, 5801-18	3.9	49
215	Mechanism of nitric oxide action on inhibitory GABAergic signaling within the nucleus tractus solitarii. *FASEB Journal*, **2006**, 20, 1537-9	0.9	49
214	Do changes in the coupling between respiratory and sympathetic activities contribute to neurogenic hypertension?. *Clinical and Experimental Pharmacology and Physiology*, **2009**, 36, 1188-96	3	48
213	Convergence properties of solitary tract neurones driven synaptically by cardiac vagal afferents in the mouse. *Journal of Physiology*, **1998**, 508 (Pt 1), 237-52	3.9	48
212	Genetic and pharmacological dissection of pathways involved in the angiotensin II-mediated depression of baroreflex function. *FASEB Journal*, **2002**, 16, 1595-601	0.9	47
211	Brainstem sources of cardiac vagal tone and respiratory sinus arrhythmia. *Journal of Physiology*, **2016**, 594, 7249-7265	3.9	47
210	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	3.4	46
209	Reflexly evoked coactivation of cardiac vagal and sympathetic motor outflows: observations and functional implications. *Clinical and Experimental Pharmacology and Physiology*, **2006**, 33, 1245-50	3	44
208	Arteriovenous anastomosis: is this the way to control hypertension?. *Hypertension*, **2014**, 64, 6-12	8.5	43
207	Increased sympathetic nerve activity and reduced cardiac baroreflex sensitivity in rheumatoid arthritis. *Journal of Physiology*, **2017**, 595, 967-981	3.9	43
206	Neurogenic hypertension and elevated vertebrobasilar arterial resistance: is there a causative link?. *Current Hypertension Reports*, **2012**, 14, 261-9	4.7	40
205	Hierarchical recruitment of the sympathetic and parasympathetic limbs of the baroreflex in normotensive and spontaneously hypertensive rats. *Journal of Physiology*, **2007**, 579, 473-86	3.9	40

204	Inhibitory synaptic mechanisms regulating upper airway patency. *Respiratory Physiology and Neurobiology*, **2002**, 131, 57-63	2.8	40
203	Nucleus Tractus Solitarii: Integrating Structures. *Experimental Physiology*, **1999**, 84, 815-833	2.4	40
202	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, 552-61	2.4	39
201	Excessive leukotriene B4 in nucleus tractus solitarii is prohypertensive in spontaneously hypertensive rats. *Hypertension*, **2013**, 61, 194-201	8.5	39
200	Role of the solitary tract nucleus in mediating nociceptive evoked cardiorespiratory responses. *Autonomic Neuroscience: Basic and Clinical*, **2001**, 86, 170-82	2.4	39
199	Deficiency of GABAergic synaptic inhibition in the K□liker-Fuse area underlies respiratory dysrhythmia in a mouse model of Rett syndrome. *Journal of Physiology*, **2016**, 594, 223-37	3.9	39
198	The Logic of Carotid Body Connectivity to the Brain. *Physiology*, **2019**, 34, 264-282	9.8	38
197	Sympathetic overactivity occurs before hypertension in the two-kidney, one-clip model. *Experimental Physiology*, **2016**, 101, 67-80	2.4	38
196	Brain stem PO(2) and 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, R528-38	3.2	37
195	Hypertension and coarctation of the aorta: an inevitable consequence of developmental pathophysiology. *Hypertension Research*, **2011**, 34, 543-7	4.7	36
194	Elevated vertebrobasilar artery resistance in neonatal spontaneously hypertensive rats. *Journal of Applied Physiology*, **2011**, 111, 149-56	3.7	35
193	Central regulation of heart rate and the appearance of respiratory sinus arrhythmia: new insights from mathematical modeling. *Mathematical Biosciences*, **2014**, 255, 71-82	3.9	34
192	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	3.9	33
191	Joint UK societiesP2014 consensus statement on renal denervation for resistant hypertension. *Heart*, **2015**, 101, 10-6	5.1	32
190	Location and properties of respiratory neurones with putative intrinsic bursting properties in the rat in situ. *Journal of Physiology*, **2009**, 587, 3175-88	3.9	32
189	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, 2261-75	3.5	32
188	GABA(A) receptor epsilon-subunit may confer benzodiazepine insensitivity to the caudal aspect of the nucleus tractus solitarii of the rat. *Journal of Physiology*, **2001**, 536, 785-96	3.9	32
187	Carotid sinus denervation ameliorates renovascular hypertension in adult Wistar rats. *Journal of Physiology*, **2016**, 594, 6255-6266	3.9	32

186	Enhancement of cell-specific transgene expression from a Tet-Off regulatory system using a transcriptional amplification strategy in the rat brain. *Journal of Gene Medicine*, **2008**, 10, 583-92	3.5	31
185	Unravelling mechanisms of action of angiotensin II on cardiorespiratory function using in vivo gene transfer. *Acta Physiologica Scandinavica*, **2001**, 173, 127-37		31
184	Optimal solid state neurons. *Nature Communications*, **2019**, 10, 5309	17.4	31
183	Osmoregulation requires brain expression of the renal Na-K-2Cl cotransporter NKCC2. *Journal of Neuroscience*, **2015**, 35, 5144-55	6.6	30
182	Hypertensive heart disease versus hypertrophic cardiomyopathy: multi-parametric cardiovascular magnetic resonance discriminators when end-diastolic wall thickness ≥15 mm. *European Radiology*, **2017**, 27, 1125-1135	8	29
181	Chronic knockdown of the nucleus of the solitary tract AT1 receptors increases blood inflammatory-endothelial progenitor cell ratio and exacerbates hypertension in the spontaneously hypertensive rat. *Hypertension*, **2013**, 61, 1328-33	8.5	29
180	The Kölliker-Fuse nucleus orchestrates the timing of expiratory abdominal nerve bursting. *Journal of Neurophysiology*, **2018**, 119, 401-412	3.2	29
179	Dominant role of aortic baroreceptors in the cardiac baroreflex of the rat in situ. *Autonomic Neuroscience: Basic and Clinical*, **2008**, 142, 32-9	2.4	28
178	Increasing brain serotonin corrects CO2 chemosensitivity in methyl-CpG-binding protein 2 (Mecp2)-deficient mice. *Experimental Physiology*, **2013**, 98, 842-9	2.4	27
177	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	2.3	26
176	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	4.1	26
175	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	2.4	26
174	Nitric oxide is fundamental to neurovascular coupling in humans. *Journal of Physiology*, **2020**, 598, 4927-4939	3.9	25
173	Rasd1, a small G protein with a big role in the hypothalamic response to neuronal activation. *Molecular Brain*, **2016**, 9, 1	4.5	24
172	Central control of upper airway resistance regulating respiratory airflow in mammals. *Journal of Anatomy*, **2002**, 201, 319-23	2.9	24
171	Investigation and Treatment of High Blood Pressure in Young People: Too Much Medicine or Appropriate Risk Reduction?. *Hypertension*, **2020**, 75, 16-22	8.5	24
170	P2X3 receptors and sensitization of autonomic reflexes. *Autonomic Neuroscience: Basic and Clinical*, **2015**, 191, 16-24	2.4	22
169	Antihypertensive Treatment Fails to Control Blood Pressure During Exercise. *Hypertension*, **2018**, 72, 102-109	8.5	22

168	Coupling of sympathetic and somatic motor outflows from the spinal cord in a perfused preparation of adult mouse in vitro. *Journal of Physiology*, **1998**, 508 (Pt 3), 907-18	3.9	22
167	Effects of selective carotid body stimulation with adenosine in conscious humans. *Journal of Physiology*, **2016**, 594, 6225-6240	3.9	21
166	Counterpoint: Medullary pacemaker neurons are essential for gasping, but not eupnea, in mammals. *Journal of Applied Physiology*, **2007**, 103, 718-20; discussion 721-2	3.7	21
165	Respiratory modulated sympathetic activity: a putative mechanism for developing vascular resistance?. *Journal of Physiology*, **2015**, 593, 5341-60	3.9	20
164	An exploration of the control of micturition using a novel in situ arterially perfused rat preparation. *Frontiers in Neuroscience*, **2011**, 5, 62	5.1	20
163	Switching control of sympathetic activity from forebrain to hindbrain in chronic dehydration. *Journal of Physiology*, **2011**, 589, 4457-71	3.9	20
162	Response properties of baroreceptive NTS neurons. *Annals of the New York Academy of Sciences*, **2001**, 940, 157-68	6.5	20
161	Transcription Factor CREB3L1 Regulates Endoplasmic Reticulum Stress Response Genes in the Osmotically Challenged Rat Hypothalamus. *PLoS ONE*, **2015**, 10, e0124956	3.7	20
160	Parasympathetic innervation of vertebrobasilar arteries: is this a potential clinical target?. *Journal of Physiology*, **2016**, 594, 6463-6485	3.9	19
159	Vasopressin V1a receptors mediate the hypertensive effects of [Pyr]apelin-13 in the rat rostral ventrolateral medulla. *Journal of Physiology*, **2017**, 595, 3303-3318	3.9	18
158	Chronic depression of hypothalamic paraventricular neuronal activity produces sustained hypotension in hypertensive rats. *Experimental Physiology*, **2014**, 99, 89-100	2.4	18
157	On the presence and functional significance of sympathetic premotor neurons with collateralized spinal axons in the rat. *Journal of Physiology*, **2019**, 597, 3407-3423	3.9	17
156	Optical imaging of medullary ventral respiratory network during eupnea and gasping in situ. *European Journal of Neuroscience*, **2006**, 23, 3025-33	3.5	17
155	Locus Coeruleus as a vigilance centre for active inspiration and expiration in rats. *Scientific Reports*, **2018**, 8, 15654	4.9	17
154	Nucleus Tractus Solitarii: Integrating Structures **1999**, 84, 815		16
153	Transcription factor CREB3L1 mediates cAMP and glucocorticoid regulation of arginine vasopressin gene transcription in the rat hypothalamus. *Molecular Brain*, **2015**, 8, 68	4.5	15
152	Ischaemia-induced sympathoexcitation in spinalyzed rats. *Neuroscience Letters*, **2007**, 415, 73-6	3.3	15
151	Control of Polyamine Biosynthesis by Antizyme Inhibitor 1 Is Important for Transcriptional Regulation of Arginine Vasopressin in the Male Rat Hypothalamus. *Endocrinology*, **2015**, 156, 2905-17	4.8	14

150	Variable role of carotid bodies in cardiovascular responses to exercise, hypoxia and hypercapnia in spontaneously hypertensive rats. *Journal of Physiology*, **2018**, 596, 3201-3216	3.9	14
149	Systemic leukotriene B receptor antagonism lowers arterial blood pressure and improves autonomic function in the spontaneously hypertensive rat. *Journal of Physiology*, **2016**, 594, 5975-5989	3.9	14
148	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, 2215-36	3.9	14
147	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	2.6	13
146	Intrinsic chemosensitivity of rostral ventrolateral medullary sympathetic premotor neurons in the in situ arterially perfused preparation of rats. *Experimental Physiology*, **2014**, 99, 1453-66	2.4	13
145	Influence of age on respiratory modulation of muscle sympathetic nerve activity, blood pressure and baroreflex function in humans. *Experimental Physiology*, **2015**, 100, 1039-51	2.4	13
144	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, 180-93	3.4	13
143	Hypertension: a problem of organ blood flow supply-demand mismatch. *Future Cardiology*, **2016**, 12, 339-49	1.3	13
142	Defining inhibitory neurone function in respiratory circuits: opportunities with optogenetics?. *Journal of Physiology*, **2015**, 593, 3033-46	3.9	12
141	Purinergic plasticity within petrosal neurons in hypertension. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2018**, 315, R963-R971	3.2	12
140	Role of ventral medullary catecholaminergic neurons for respiratory modulation of sympathetic outflow in rats. *Scientific Reports*, **2017**, 7, 16883	4.9	12
139	Carotid body overactivity induces respiratory neurone channelopathy contributing to neurogenic hypertension. *Journal of Physiology*, **2015**, 593, 3055-63	3.9	12
138	Hypertension before and after posterior circulation infarction: analysis of data from the South London Stroke Register. *Journal of Stroke and Cerebrovascular Diseases*, **2012**, 21, 612-8	2.8	12
137	Whole cell recordings from respiratory neurones in an arterially perfused in situ neonatal rat preparation. *Experimental Physiology*, **2003**, 88, 725-32	2.4	12
136	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	0.8	12
135	Noctural dipping status and left ventricular hypertrophy: A cardiac magnetic resonance imaging study. *Journal of Clinical Hypertension*, **2018**, 20, 784-793	2.3	11
134	Transgenic neuronal nitric oxide synthase expression induces axotomy-like changes in adult motoneurons. *Journal of Physiology*, **2010**, 588, 3425-43	3.9	11
133	Autonomic innervation of the carotid body as a determinant of its sensitivity: implications for cardiovascular physiology and pathology. *Cardiovascular Research*, **2021**, 117, 1015-1032	9.9	11

132	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	2.4	10
131	Cooperative Oxygen Sensing by the Kidney and Carotid Body in Blood Pressure Control. *Frontiers in Physiology*, **2017**, 8, 752	4.6	10
130	Modelling the vascular response to sympathetic postganglionic nerve activity. *Journal of Theoretical Biology*, **2015**, 371, 102-16	2.3	10
129	Long-term intracellular recordings of respiratory neuronal activities in situ during eupnea, gasping and blockade of synaptic transmission. *Journal of Neuroscience Methods*, **2005**, 147, 138-45	3	10
128	RNA binding protein Caprin-2 is a pivotal regulator of the central osmotic defense response. *ELife*, **2015**, 4,	8.9	9
127	Salt appetite is reduced by a single experience of drinking hypertonic saline in the adult rat. *PLoS ONE*, **2014**, 9, e104802	3.7	9
126	Modulation of respiratory sinus arrhythmia in rats with central pattern generator hardware. *Journal of Neuroscience Methods*, **2013**, 212, 124-32	3	9
125	5-HT(4) receptors in nucleus tractus solitarii attenuate cardiopulmonary reflex in anesthetized rats. *American Journal of Physiology - Heart and Circulatory Physiology*, **1999**, 277, H1914-23	5.2	9
124	Enhancing respiratory sinus arrhythmia increases cardiac output in rats with left ventricular dysfunction. *Journal of Physiology*, **2020**, 598, 455-471	3.9	9
123	Acute hydrocortisone administration reduces cardiovagal baroreflex sensitivity and heart rate variability in young men. *Journal of Physiology*, **2018**, 596, 4847-4861	3.9	8
122	Cerebral Blood Flow Response to Simulated Hypovolemia in Essential Hypertension: A Magnetic Resonance Imaging Study. *Hypertension*, **2019**, 74, 1391-1398	8.5	8
121	CrossTalk opposing view: Which technique for controlling resistant hypertension? Carotid chemoreceptor denervation/modulation. *Journal of Physiology*, **2014**, 592, 3941-4	3.9	8
120	Normalization of autonomic function in children with coarctation of the aorta after surgical correction in infancy. *Hypertension*, **2009**, 54, e21-2	8.5	8
119	Cell- and region-specific miR30-based gene knock-down with temporal control in the rat brain. *BMC Molecular Biology*, **2010**, 11, 93	4.5	8
118	Efficacy of Electrical Baroreflex Activation Is Independent of Peripheral Chemoreceptor Modulation. *Hypertension*, **2020**, 75, 257-264	8.5	8
117	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	7.3	8
116	Utility of a Novel Biofeedback Device for Within-Breath Modulation of Heart Rate in Rats: A Quantitative Comparison of Vagus Nerve vs. Right Atrial Pacing. *Frontiers in Physiology*, **2016**, 7, 27	4.6	7
115	Epigenetic Control of the Vasopressin Promoter Explains Physiological Ability to Regulate Vasopressin Transcription in Dehydration and Salt Loading States in the Rat. *Journal of Neuroendocrinology*, **2016**, 28,	3.8	7

114	Zibotentan, an Endothelin A Receptor Antagonist, Prevents Amyloid-β-Induced Hypertension and Maintains Cerebral Perfusion. *Journal of Alzheimer's Disease*, **2020**, 73, 1185-1199	4.3	6
113	Differences in autonomic innervation to the vertebrobasilar arteries in spontaneously hypertensive and Wistar rats. *Journal of Physiology*, **2018**, 596, 3505-3529	3.9	6
112	Osmotic regulation of neuronal nitric oxide synthase expression in the rat amygdala: functional role for nitric oxide in adaptive responses?. *Journal of Neuroscience Research*, **2007**, 85, 410-22	4.4	6
111	Oxygenation pattern and compensatory responses to hypoxia and hypercapnia following bilateral carotid body resection in humans. *Journal of Physiology*, **2021**, 599, 2323-2340	3.9	6
110	Repaired coarctation of the aorta, persistent arterial hypertension and the selfish brain. *Journal of Cardiovascular Magnetic Resonance*, **2019**, 21, 68	6.9	6
109	Intrinsic and synaptic mechanisms controlling the expiratory activity of excitatory lateral parafacial neurones of rats. *Journal of Physiology*, **2021**, 599, 4925-4948	3.9	6
108	Shift of leading pacemaker site during reflex vagal stimulation and altered electrical source-to-sink balance. *Journal of Physiology*, **2019**, 597, 3297-3313	3.9	5
107	Cardiorespiratory reflexes in a working heart-brainstem preparation of the house musk shrew, Suncus murinus. *Autonomic Neuroscience: Basic and Clinical*, **2001**, 89, 54-9	2.4	5
106	K+ channel blockade in the NTS alters efficacy of two cardiorespiratory reflexes in vivo. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **1998**, 274, R677-85	3.2	5
105	Significant contribution from the thoracic spinal cord in mediating ischaemia induced sympatho-excitation.. *FASEB Journal*, **2006**, 20, A775	0.9	5
104	Role of the Carotid Body in an Ovine Model of Renovascular Hypertension. *Hypertension*, **2020**, 76, 1451-1460	8.5	5
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