

# Simon McMullan

## List of Publications by Year in descending order

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57  
papers

2,212  
citations

257357

24  
h-index

233338

45  
g-index

61  
all docs

61  
docs citations

61  
times ranked

2345  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spontaneous Pain, Both Neuropathic and Inflammatory, Is Related to Frequency of Spontaneous Firing in Intact C-Fiber Nociceptors. <i>Journal of Neuroscience</i> , 2006, 26, 1281-1292.	1.7	374
2	Intense Isolectin-B4 Binding in Rat Dorsal Root Ganglion Neurons Distinguishes C-Fiber Nociceptors with Broad Action Potentials and High Nav1.9 Expression. <i>Journal of Neuroscience</i> , 2006, 26, 7281-7292.	1.7	226
3	Electrophysiological differences between nociceptive and non-nociceptive dorsal root ganglion neurones in the rat <i>in vivo</i> . <i>Journal of Physiology</i> , 2005, 565, 927-943.	1.3	190
4	trkA Is Expressed in Nociceptive Neurons and Influences Electrophysiological Properties via Nav1.8 Expression in Rapidly Conducting Nociceptors. <i>Journal of Neuroscience</i> , 2005, 25, 4868-4878.	1.7	130
5	A Student's Guide to Neural Circuit Tracing. <i>Frontiers in Neuroscience</i> , 2019, 13, 897.	1.4	107
6	HCN1 and HCN2 in Rat DRG Neurons: Levels in Nociceptors and Non-Nociceptors, NT3-Dependence and Influence of CFA-Induced Skin Inflammation on HCN2 and NT3 Expression. <i>PLoS ONE</i> , 2012, 7, e50442.	1.1	68
7	Excessive Respiratory Modulation of Blood Pressure Triggers Hypertension. <i>Cell Metabolism</i> , 2017, 25, 739-748.	7.2	57
8	Differential regulation of the central neural cardiorespiratory system by metabotropic neurotransmitters. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 2537-2552.	1.8	56
9	Brain sources of inhibitory input to the rat rostral ventrolateral medulla. <i>Journal of Comparative Neurology</i> , 2013, 521, 213-232.	0.9	53
10	Somatostatin selectively ablates post-inspiratory activity after injection into the Bötzinger complex. <i>Neuroscience</i> , 2010, 167, 528-539.	1.1	49
11	Pre-Bötzinger complex neurons drive respiratory modulation of blood pressure and heart rate. <i>ELife</i> , 2020, 9, .	2.8	49
12	A reliable method for the preferential activation of C- or A-fibre heat nociceptors. <i>Journal of Neuroscience Methods</i> , 2004, 138, 133-139.	1.3	48
13	Expression and properties of hyperpolarization-activated current in rat dorsal root ganglion neurons with known sensory function. <i>Journal of Physiology</i> , 2012, 590, 4691-4705.	1.3	46
14	Neurons in the Intermediate Reticular Nucleus Coordinate Postinspiratory Activity, Swallowing, and Respiratory-Sympathetic Coupling in the Rat. <i>Journal of Neuroscience</i> , 2019, 39, 9757-9766.	1.7	46
15	Orexinergic Activation of Medullary Premotor Neurons Modulates the Adrenal Sympathoexcitation to Hypothalamic Glucoprivation. <i>Diabetes</i> , 2014, 63, 1895-1906.	0.3	43
16	Somatostatin 2A Receptor-Expressing Presympathetic Neurons in the Rostral Ventrolateral Medulla Maintain Blood Pressure. <i>Hypertension</i> , 2008, 52, 1127-1133.	1.3	41
17	Midbrain control of spinal nociception discriminates between responses evoked by myelinated and unmyelinated heat nociceptors in the rat. <i>Pain</i> , 2006, 124, 59-68.	2.0	39
18	Spinal dorsal horn neuronal responses to myelinated versus unmyelinated heat nociceptors and their modulation by activation of the periaqueductal grey in the rat. <i>Journal of Physiology</i> , 2006, 576, 547-556.	1.3	37

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19	Mapping and Analysis of the Connectome of Sympathetic Premotor Neurons in the Rostral Ventrolateral Medulla of the Rat Using a Volumetric Brain Atlas. <i>Frontiers in Neural Circuits</i> , 2017, 11, 9.	1.4	37
20	Circulating angiotensin II attenuates the sympathetic baroreflex by reducing the barosensitivity of medullary cardiovascular neurones in the rat. <i>Journal of Physiology</i> , 2007, 582, 711-722.	1.3	34
21	Effects of baroreceptor activation on respiratory variability in rat. <i>Respiratory Physiology and Neurobiology</i> , 2009, 166, 80-86.	0.7	32
22	On the presence and functional significance of sympathetic premotor neurons with collateralized spinal axons in the rat. <i>Journal of Physiology</i> , 2019, 597, 3407-3423.	1.3	28
23	The effects of baroreceptor stimulation on central respiratory drive: A review. <i>Respiratory Physiology and Neurobiology</i> , 2010, 174, 37-42.	0.7	26
24	Rostroventrolateral medulla neurons with commissural projections provide input to sympathetic premotor neurons: anatomical and functional evidence. <i>European Journal of Neuroscience</i> , 2013, 38, 2504-2515.	1.2	25
25	Distribution and neurochemical characterization of neurons in the rat ventrolateral medulla activated by glucoprivation. <i>Brain Structure and Function</i> , 2015, 220, 117-134.	1.2	25
26	Patterning of somatosympathetic reflexes reveals nonuniform organization of presympathetic drive from C1 and non-C1 RVLM neurons. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 301, R1112-R1122.	0.9	24
27	Somatic nerve stimulation evokes qualitatively different somatosympathetic responses in the cervical and splanchnic sympathetic nerves in the rat. <i>Brain Research</i> , 2008, 1217, 139-147.	1.1	23
28	METABOTROPIC NEUROTRANSMISSION AND INTEGRATION OF SYMPATHETIC NERVE ACTIVITY BY THE ROSTRAL VENTROLATERAL MEDULLA IN THE RAT. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2008, 35, 508-511.	0.9	21
29	Separation of A- versus C-nociceptive inputs into spinal brainstem circuits. <i>Neuroscience</i> , 2008, 152, 1076-1085.	1.1	20
30	A medullary centre for lapping in mice. <i>Nature Communications</i> , 2021, 12, 6307.	5.8	19
31	Immunostaining for the $\beta_3$ isoform of the $\text{Na}^+/\text{K}^+-\text{ATPase}$ is selective for functionally identified muscle spindle afferents <i>in vivo</i> . <i>Journal of Physiology</i> , 2010, 588, 4131-4143.	1.3	18
32	Somatostatin in the rat rostral ventrolateral medulla: Origins and mechanism of action. <i>Journal of Comparative Neurology</i> , 2016, 524, 323-342.	0.9	18
33	A monosynaptic connection between baroinhibited neurons in the RVLM and IML in Sprague-Dawley rats. <i>Brain Research</i> , 2006, 1089, 153-161.	1.1	16
34	Neuropeptide Y in the rostral ventrolateral medulla blocks somatosympathetic reflexes in anesthetized rats. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2008, 142, 64-70.	1.4	16
35	Sympathetic premotor neurones project to and are influenced by neurones in the contralateral rostral ventrolateral medulla of the rat <i>in vivo</i> . <i>Brain Research</i> , 2012, 1439, 34-43.	1.1	16
36	Coordinated autonomic and respiratory responses evoked by alerting stimuli: Role of the midbrain colliculi. <i>Respiratory Physiology and Neurobiology</i> , 2016, 226, 87-93.	0.7	16

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37	C-Nociceptor Activation of Hypothalamic Neurones and the Columnar Organisation of Their Projections to the Periaqueductal Grey in the Rat. <i>Experimental Physiology</i> , 2002, 87, 123-128.	0.9	15
38	In vitro neuronal depolarization and increased synaptic activity induced by infrared neural stimulation. <i>Biomedical Optics Express</i> , 2016, 7, 3211.	1.5	14
39	Comparison of noradrenaline, dopamine and serotonin in mediating the tachycardic and thermogenic effects of methamphetamine in the ventral medial prefrontal cortex. <i>Neuroscience</i> , 2015, 295, 209-220.	1.1	13
40	Recording, labeling, and transfection of single neurons in deep brain structures. <i>Physiological Reports</i> , 2015, 3, e12246.	0.7	12
41	Neurochemistry of neurons in the ventrolateral medulla activated by hypotension: Are the same neurons activated by glucoprivation?. <i>Journal of Comparative Neurology</i> , 2017, 525, 2249-2264.	0.9	12
42	Asymmetrical changes in lumbar sympathetic nerve activity following stimulation of the sciatic nerve in rat. <i>Brain Research</i> , 2011, 1391, 60-70.	1.1	10
43	Disinhibition of the midbrain colliculi unmasks coordinated autonomic, respiratory, and somatomotor responses to auditory and visual stimuli. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 307, R1025-R1035.	0.9	10
44	Changes in intrathoracic pressure, not arterial pulsations, exert the greatest effect on tracer influx in the spinal cord. <i>Fluids and Barriers of the CNS</i> , 2022, 19, 14.	2.4	9
45	Somatostatin 2a receptors are not expressed on functionally identified respiratory neurons in the ventral respiratory column of the rat. <i>Journal of Comparative Neurology</i> , 2016, 524, 1384-1398.	0.9	8
46	Polysialic Acid Regulates Sympathetic Outflow by Facilitating Information Transfer within the Nucleus of the Solitary Tract. <i>Journal of Neuroscience</i> , 2017, 37, 6558-6574.	1.7	8
47	Tonically Active cAMP-Dependent Signaling in the Ventrolateral Medulla Regulates Sympathetic and Cardiac Vagal Outflows. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2016, 356, 424-433.	1.3	7
48	Somatostatin 2 Receptors in the Spinal Cord Tonically Restrain Thermogenic, Cardiac and Other Sympathetic Outflows. <i>Frontiers in Neuroscience</i> , 2019, 13, 121.	1.4	7
49	Noxious somatic stimuli diminish respiratory-sympathetic coupling by selective resetting of the respiratory rhythm in anaesthetized rats. <i>Experimental Physiology</i> , 2012, 97, 1093-1104.	0.9	3
50	Upregulated Angiotensin Ia Receptors in the Hypothalamic Paraventricular Nucleus Sensitize Neuroendocrine Vasopressin Release and Blood Pressure in a Rodent Model of Polycystic Kidney Disease. <i>Neuroendocrinology</i> , 2022, 112, 1200-1213.	1.2	3
51	Somatostatin 2 Receptor Activation in the Rostral Ventrolateral Medulla Does Not Mediate the Decompensatory Phase of Haemorrhage. <i>Shock</i> , 2018, 50, 331-338.	1.0	1
52	Polysialic acid in the rat brainstem and thoracolumbar spinal cord: Distribution, cellular location, and comparison with mouse. <i>Journal of Comparative Neurology</i> , 2021, 529, 811-827.	0.9	1
53	Do catecholaminergic TrkC DRG neurons represent a class of cardiovascular enteroceptor?. <i>Cell Reports</i> , 2022, 38, 110082.	2.9	1
54	Identification of Spinally Projecting Neurons in the Rostral Ventrolateral Medulla In Vivo. <i>Neuromethods</i> , 2013, , 123-140.	0.2	0

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55	The subfornical organ drives hypertension in polycystic kidney disease via the hypothalamic paraventricular nucleus. Cardiovascular Research, 2022, 118, 1138-1149.	1.8	0
56	Differential control of first and second pain by the midbrain. , 2002, , 11-13.		0
57	In Vitro Neuronal Depolarization And Increased Synaptic Activity Induced By Infrared Neural Stimulation. , 2016, , .		0