

James Deuchars

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97
papers

4,373
citations

38
h-index

65
g-index

108
ext. papers

4,894
ext. citations

4.9
avg, IF

5.14
L-index

#	Paper	IF	Citations
97	Temporal and spatial properties of local circuits in neocortex. <i>Trends in Neurosciences</i> , 1994 , 17, 119-26	13.3	286
96	Neuronal P2X7 receptors are targeted to presynaptic terminals in the central and peripheral nervous systems. <i>Journal of Neuroscience</i> , 2001 , 21, 7143-52	6.6	258
95	Synaptic interactions in neocortical local circuits: dual intracellular recordings in vitro. <i>Cerebral Cortex</i> , 1997 , 7, 510-22	5.1	234
94	Non-invasive vagus nerve stimulation in healthy humans reduces sympathetic nerve activity. <i>Brain Stimulation</i> , 2014 , 7, 871-7	5.1	209
93	Involvement of P2X7 receptors in the regulation of neurotransmitter release in the rat hippocampus. <i>Journal of Neurochemistry</i> , 2002 , 81, 1196-211	6	204
92	Role of olivary electrical coupling in cerebellar motor learning. <i>Neuron</i> , 2008 , 58, 599-612	13.9	172
91	Single axon excitatory postsynaptic potentials in neocortical interneurons exhibit pronounced paired pulse facilitation. <i>Neuroscience</i> , 1993 , 54, 347-60	3.9	168
90	Distinct profiles of REST interactions with its target genes at different stages of neuronal development. <i>Molecular Biology of the Cell</i> , 2005 , 16, 5630-8	3.5	142
89	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. <i>Journal of Physiology</i> , 2001 , 531, 445-58	3.9	139
88	CA1 pyramidal to basket and bistratified cell EPSPs: dual intracellular recordings in rat hippocampal slices. <i>Journal of Physiology</i> , 1998 , 507 (Pt 1), 201-17	3.9	137
87	Localization of cardiac vagal preganglionic motoneurons in the rat: immunocytochemical evidence of synaptic inputs containing 5-hydroxytryptamine. <i>Journal of Comparative Neurology</i> , 1993 , 327, 572-83 ^{3,4}	3.4	112
86	Properties of single axon excitatory postsynaptic potentials elicited in spiny interneurons by action potentials in pyramidal neurons in slices of rat neocortex. <i>Neuroscience</i> , 1995 , 69, 727-38	3.9	86
85	Evidence for inhibition mediated by coassembly of GABAA and GABAC receptor subunits in native central neurons. <i>Journal of Neuroscience</i> , 2004 , 24, 7241-50	6.6	79
84	Local GABAergic signaling within sensory ganglia controls peripheral nociceptive transmission. <i>Journal of Clinical Investigation</i> , 2017 , 127, 1741-1756	15.9	79
83	GABA B receptor subunit expression in glia. <i>Molecular and Cellular Neurosciences</i> , 2003 , 24, 214-23	4.8	71
82	Differential co-localisation of the P2X7 receptor subunit with vesicular glutamate transporters VGLUT1 and VGLUT2 in rat CNS. <i>Neuroscience</i> , 2004 , 123, 761-8	3.9	70
81	Purinergic signalling in the medullary mechanisms of respiratory control in the rat: respiratory neurones express the P2X2 receptor subunit. <i>Journal of Physiology</i> , 2003 , 552, 197-211	3.9	68

80	GABAergic neurons in the central region of the spinal cord: a novel substrate for sympathetic inhibition. <i>Journal of Neuroscience</i> , 2005 , 25, 1063-70	6.6	62
79	Innervation of burst firing spiny interneurons by pyramidal cells in deep layers of rat somatomotor cortex: paired intracellular recordings with biocytin filling. <i>Neuroscience</i> , 1995 , 69, 739-55	3.9	60
78	Properties of solitary tract neurones responding to peripheral arterial chemoreceptors. <i>Neuroscience</i> , 2001 , 105, 231-48	3.9	59
77	Non-invasive vagus nerve stimulation acutely improves spontaneous cardiac baroreflex sensitivity in healthy young men: A randomized placebo-controlled trial. <i>Brain Stimulation</i> , 2017 , 10, 875-881	5.1	57
76	Expression of connexin30.2 in interneurons of the central nervous system in the mouse. <i>Molecular and Cellular Neurosciences</i> , 2008 , 37, 119-34	4.8	54
75	Properties of interneurons in the intermediolateral cell column of the rat spinal cord: role of the potassium channel subunit Kv3.1. <i>Neuroscience</i> , 2001 , 106, 433-46	3.9	53
74	A new conditional mouse mutant reveals specific expression and functions of connexin36 in neurons and pancreatic beta-cells. <i>Experimental Cell Research</i> , 2008 , 314, 997-1012	4.2	52
73	P2X(2) receptor immunoreactivity in the dorsal vagal complex and area postrema of the rat. <i>Neuroscience</i> , 2000 , 99, 683-96	3.9	52
72	Adenosine A1 receptors reduce release from excitatory but not inhibitory synaptic inputs onto lateral horn neurons. <i>Journal of Neuroscience</i> , 2001 , 21, 6308-20	6.6	50
71	Modulation of bistratified cell IPSPs and basket cell IPSPs by pentobarbitone sodium, diazepam and Zn2+: dual recordings in slices of adult rat hippocampus. <i>European Journal of Neuroscience</i> , 1999 , 11, 3552-64	3.5	50
70	Na ⁺ /K ⁺ ATPase α and β isoforms are differentially expressed in δ and ϵ motoneurons. <i>Journal of Neuroscience</i> , 2013 , 33, 9913-9	6.6	49
69	Effects of transcutaneous vagus nerve stimulation in individuals aged 55 years or above: potential benefits of daily stimulation. <i>Aging</i> , 2019 , 11, 4836-4857	5.6	47
68	Morphological and electrophysiological properties of neurons in the dorsal vagal complex of the rat activated by arterial baroreceptors. <i>Journal of Comparative Neurology</i> , 2000 , 417, 233-249	3.4	46
67	International Consensus Based Review and Recommendations for Minimum Reporting Standards in Research on Transcutaneous Vagus Nerve Stimulation (Version 2020). <i>Frontiers in Human Neuroscience</i> , 2020 , 14, 568051	3.3	46
66	Properties of solitary tract neurons receiving inputs from the sub-diaphragmatic vagus nerve. <i>Neuroscience</i> , 2000 , 95, 141-53	3.9	45
65	Single axon fast inhibitory postsynaptic potentials elicited by a sparsely spiny interneuron in rat neocortex. <i>Neuroscience</i> , 1995 , 65, 935-42	3.9	44
64	The strange case of the ear and the heart: The auricular vagus nerve and its influence on cardiac control. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2016 , 199, 48-53	2.4	43
63	Mechanisms underpinning sympathetic nervous activity and its modulation using transcutaneous vagus nerve stimulation. <i>Experimental Physiology</i> , 2018 , 103, 326-331	2.4	43

62	Differential expression of vesicular glutamate transporters by vagal afferent terminals in rat nucleus of the solitary tract: projections from the heart preferentially express vesicular glutamate transporter 1. <i>Neuroscience</i> , 2005 , 135, 133-45	3.9	42
61	An ATP-gated ion channel at the cell nucleus. <i>Nature</i> , 2002 , 420, 42	50.4	42
60	HCN1 ion channel immunoreactivity in spinal cord and medulla oblongata. <i>Brain Research</i> , 2006 , 1081, 79-91	3.7	40
59	Anodal transcranial direct current stimulation (tDCS) over the motor cortex increases sympathetic nerve activity. <i>Brain Stimulation</i> , 2014 , 7, 97-104	5.1	38
58	The transcriptional repressor REST is a critical regulator of the neurosecretory phenotype. <i>Journal of Neurochemistry</i> , 2006 , 98, 1828-40	6	38
57	Labelling of rat vagal preganglionic neurones by carbocyanine dye Dil applied to the heart. <i>NeuroReport</i> , 1999 , 10, 1177-81	1.7	38
56	Tonic GABAergic inhibition of sympathetic preganglionic neurons: a novel substrate for sympathetic control. <i>Journal of Neuroscience</i> , 2008 , 28, 12445-52	6.6	35
55	Kv3 voltage-gated potassium channels regulate neurotransmitter release from mouse motor nerve terminals. <i>European Journal of Neuroscience</i> , 2004 , 20, 3313-21	3.5	34
54	Input-specific modulation of neurotransmitter release in the lateral horn of the spinal cord via adenosine receptors. <i>Journal of Neuroscience</i> , 2004 , 24, 127-37	6.6	33
53	Properties of presynaptic P2X7-like receptors at the neuromuscular junction. <i>Brain Research</i> , 2005 , 1034, 40-50	3.7	31
52	GABA(B) Mediated Regulation of Sympathetic Preganglionic Neurons: Pre- and Postsynaptic Sites of Action. <i>Frontiers in Neurology</i> , 2010 , 1, 142	4.1	30
51	Association of potassium channel Kv3.4 subunits with pre- and post-synaptic structures in brainstem and spinal cord. <i>Neuroscience</i> , 2004 , 126, 1001-10	3.9	30
50	Angiotensin type 1 receptor immunoreactivity in the thoracic spinal cord. <i>Brain Research</i> , 2003 , 985, 21-31	3.7	29
49	Subcellular localization of neuronal nitric oxide synthase in the rat nucleus of the solitary tract in relation to vagal afferent inputs. <i>Neuroscience</i> , 2003 , 118, 115-22	3.9	29
48	Electron microscopic localisation of P2X4 receptor subunit immunoreactivity to pre- and post-synaptic neuronal elements and glial processes in the dorsal vagal complex of the rat. <i>Brain Research</i> , 2004 , 1026, 44-55	3.7	27
47	Detection of angiotensin II mediated nitric oxide release within the nucleus of the solitary tract using electron-paramagnetic resonance (EPR) spectroscopy. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2006 , 126-127, 193-201	2.4	26
46	Sympathetic nerve hyperactivity and its effect in postmenopausal women. <i>Journal of Hypertension</i> , 2011 , 29, 2167-75	1.9	24
45	Ionotropic glutamate receptor subunit immunoreactivity of vagal preganglionic neurones projecting to the rat heart. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2003 , 105, 105-17	2.4	24

44	Cardiovascular autonomic effects of transcutaneous auricular nerve stimulation via the tragus in the rat involve spinal cervical sensory afferent pathways. <i>Brain Stimulation</i> , 2019 , 12, 1151-1158	5.1	22
43	The wonders of the Wanderer. <i>Experimental Physiology</i> , 2013 , 98, 38-45	2.4	21
42	Localization and function of the Kv3.1b subunit in the rat medulla oblongata: focus on the nucleus tractus solitarii. <i>Journal of Physiology</i> , 2005 , 562, 655-72	3.9	21
41	Immunohistochemical localisation of the voltage gated potassium ion channel subunit Kv3.3 in the rat medulla oblongata and thoracic spinal cord. <i>Brain Research</i> , 2006 , 1070, 101-15	3.7	20
40	Subdivision-specific responses of neurons in the nucleus of the tractus solitarius to activation of mu-opioid receptors in the rat. <i>Journal of Neurophysiology</i> , 2007 , 98, 3060-71	3.2	20
39	A2A adenosine receptors are located on presynaptic motor nerve terminals in the mouse. <i>Synapse</i> , 2005 , 57, 229-34	2.4	17
38	Spontaneous rhythmic capabilities of sympathetic neuronal assemblies in the rat spinal cord slice. <i>Neuroscience</i> , 2010 , 170, 827-38	3.9	15
37	Spinal cord interneurons labelled transneuronally from the adrenal gland by a GFP-herpes virus construct contain the potassium channel subunit Kv3.1b. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2002 , 98, 45-50	2.4	15
36	An evaluation of antibody detection of the P2X1 receptor subunit in the CNS of wild type and P2X1-knockout mice. <i>Neuroscience Letters</i> , 2006 , 397, 120-5	3.3	14
35	The neurochemically diverse intermedius nucleus of the medulla as a source of excitatory and inhibitory synaptic input to the nucleus tractus solitarii. <i>Journal of Neuroscience</i> , 2007 , 27, 8324-33	6.6	13
34	Differential increases in P2X receptor levels in rat vagal efferent neurones following a vagal nerve section. <i>Brain Research</i> , 2003 , 977, 112-8	3.7	13
33	Localization of the NBMPR-sensitive equilibrative nucleoside transporter, ENT1, in the rat dorsal root ganglion and lumbar spinal cord. <i>Brain Research</i> , 2005 , 1059, 129-38	3.7	12
32	Neocortical local synaptic circuitry revealed with dual intracellular recordings and biocytin-filling. <i>Journal of Physiology (Paris)</i> , 1996 , 90, 211-5		12
31	Neck muscle afferents influence oromotor and cardiorespiratory brainstem neural circuits. <i>Brain Structure and Function</i> , 2015 , 220, 1421-36	4	11
30	Localization of neurones expressing the gap junction protein Connexin45 within the adult spinal dorsal horn: a study using Cx45-eGFP reporter mice. <i>Brain Structure and Function</i> , 2013 , 218, 751-65	4	11
29	Dynamic remodelling of synapses can occur in the absence of the parent cell body. <i>BMC Neuroscience</i> , 2007 , 8, 79	3.2	11
28	Cholinergic Enhancement of Cell Proliferation in the Postnatal Neurogenic Niche of the Mammalian Spinal Cord. <i>Stem Cells</i> , 2015 , 33, 2864-76	5.8	10
27	GABAergic responses of mammalian ependymal cells in the central canal neurogenic niche of the postnatal spinal cord. <i>Neuroscience Letters</i> , 2013 , 553, 57-62	3.3	10

26	Immunopharmacology--antibodies for specific modulation of proteins involved in neuronal function. <i>Journal of Neuroscience Methods</i> , 2005 , 146, 133-48	3	10
25	Kv3.3 immunoreactivity in the vestibular nuclear complex of the rat with focus on the medial vestibular nucleus: targeting of Kv3.3 neurones by terminals positive for vesicular glutamate transporter 1. <i>Brain Research</i> , 2010 , 1345, 45-58	3.7	9
24	Co-expression of GAD67 and choline acetyltransferase reveals a novel neuronal phenotype in the mouse medulla oblongata. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2015 , 193, 22-30	2.4	6
23	The Effects of Controlled Tempo Manipulations on Cardiovascular Autonomic Function. <i>Music & Science</i> , 2019 , 2, 205920431985828	1.6	6
22	The anti-malarial drug Mefloquine disrupts central autonomic and respiratory control in the working heart brainstem preparation of the rat. <i>Journal of Biomedical Science</i> , 2012 , 19, 103	13.3	6
21	Immunopharmacology: utilizing antibodies as ion channel modulators. <i>Expert Review of Clinical Pharmacology</i> , 2010 , 3, 281-9	3.8	6
20	The intermedius nucleus of the medulla: a potential site for the integration of cervical information and the generation of autonomic responses. <i>Journal of Chemical Neuroanatomy</i> , 2009 , 38, 166-75	3.2	6
19	Co-expression of GAD67 and choline acetyltransferase in neurons in the mouse spinal cord: A focus on lamina X. <i>Brain Research</i> , 2016 , 1646, 570-579	3.7	6
18	Physiologic regulation of heart rate and blood pressure involves connexin 36-containing gap junctions. <i>FASEB Journal</i> , 2017 , 31, 3966-3977	0.9	5
17	A versatile cholera toxin conjugate for neuronal targeting and tracing. <i>Chemical Communications</i> , 2020 , 56, 6098-6101	5.8	3
16	A simple method to fluorescently label pericytes in the CNS and skeletal muscle. <i>Microvascular Research</i> , 2013 , 89, 164-8	3.7	3
15	Differential effects of 5-HT on neurones in the central autonomic area of rat thoracic spinal cord.. <i>FASEB Journal</i> , 2007 , 21, A885	0.9	3
14	Voltage-gated potassium currents within the dorsal vagal nucleus: inhibition by BDS toxin. <i>Brain Research</i> , 2008 , 1189, 51-7	3.7	2
13	Modulation of potassium ion channel proteins utilising antibodies. <i>Methods in Molecular Biology</i> , 2008 , 491, 247-55	1.4	2
12	How much gas does it take to pump up synaptic transmission in the brain?. <i>Experimental Physiology</i> , 2007 , 92, 367	2.4	1
11	Does the head rule the heart?. <i>Trends in Neurosciences</i> , 2000 , 23, 449	13.3	1
10	Nitroergic Modulation in the NTS. <i>Frontiers in Neuroscience</i> , 2005 , 209-258		1
9	What impact could transcutaneous vagal nerve stimulation have on an aging population?. <i>Bioelectronics in Medicine</i> , 2019 , 2, 59-61	2.1	1

8	Mediation of Cardiac Macrophage Activity Auricular Vagal Nerve Stimulation Ameliorates Cardiac Ischemia/Reperfusion Injury. <i>Frontiers in Neuroscience</i> , 2020 , 14, 906	5.1	1
7	Messages from the auricle: Limiting progression of heart failure with preserved ejection fraction through transcutaneous nerve stimulation of nerves in the external ear. <i>Experimental Physiology</i> , 2019 , 104, 11-12	2.4	1
6	Morphological and electrophysiological properties of neurones in the dorsal vagal complex of the rat activated by arterial baroreceptors 2000 , 417, 233		1
5	Morphological and electrophysiological properties of neurones in the dorsal vagal complex of the rat activated by arterial baroreceptors 2000 , 417, 233		1
4	Nerves - the silent but strong type. <i>Trends in Neurosciences</i> , 2000 , 23, 333	13.3	
3	It takes your breath away--NK1R ablation in the pre-Bötzinger complex. <i>Trends in Neurosciences</i> , 2001 , 24, 633	13.3	
2	GABAB receptors decrease inhibitory synaptic transmission onto sympathetic preganglionic neurones (SPNs) in the rat spinal cord slice preparation.. <i>FASEB Journal</i> , 2007 , 21, A884	0.9	
1	GAD-GFP reporter mice reveal neurochemically distinct GABAergic populations in the Intermedius nucleus of the Medulla. <i>FASEB Journal</i> , 2007 , 21, A464	0.9	