

# James Deuchars

## List of Publications by Year in descending order

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101  
papers

5,343  
citations

81900

39  
h-index

88630

70  
g-index

108  
all docs

108  
docs citations

108  
times ranked

5190  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Feasibility Study Exploring Measures of Autonomic Function in Patients With Failed Back Surgery Syndrome Undergoing Spinal Cord Stimulation. <i>Neuromodulation</i> , 2023, 26, 192-205.	0.8	4
2	Kv3 Channels Contribute to the Excitability of Subpopulations of Spinal Cord Neurons in Lamina VII. <i>ENeuro</i> , 2022, 9, ENEURO.0510-21.2021.	1.9	0
3	Mediation of Cardiac Macrophage Activity via Auricular Vagal Nerve Stimulation Ameliorates Cardiac Ischemia/Reperfusion Injury. <i>Frontiers in Neuroscience</i> , 2020, 14, 906.	2.8	6
4	A versatile cholera toxin conjugate for neuronal targeting and tracing. <i>Chemical Communications</i> , 2020, 56, 6098-6101.	4.1	9
5	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.	2.0	143
6	The Effects of Controlled Tempo Manipulations on Cardiovascular Autonomic Function. <i>Music &amp; Science</i> , 2019, 2, 205920431985828.	1.0	13
7	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.	1.6	30
8	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.	2.0	1
9	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.	3.1	86
10	What impact could transcutaneous vagal nerve stimulation have on an aging population?. <i>Bioelectronics in Medicine</i> , 2019, 2, 59-61.	2.0	1
11	Mechanisms underpinning sympathetic nervous activity and its modulation using transcutaneous vagus nerve stimulation. <i>Experimental Physiology</i> , 2018, 103, 326-331.	2.0	63
12	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.	1.6	93
13	Physiologic regulation of heart rate and blood pressure involves connexin 36-containing gap junctions. <i>FASEB Journal</i> , 2017, 31, 3966-3977.	0.5	8
14	Local GABAergic signaling within sensory ganglia controls peripheral nociceptive transmission. <i>Journal of Clinical Investigation</i> , 2017, 127, 1741-1756.	8.2	119
15	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.	2.2	10
16	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.	2.8	70
17	Cholinergic Enhancement of Cell Proliferation in the Postnatal Neurogenic Niche of the Mammalian Spinal Cord. <i>Stem Cells</i> , 2015, 33, 2864-2876.	3.2	19
18	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.	2.8	9

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19	Neck muscle afferents influence oromotor and cardiorespiratory brainstem neural circuits. <i>Brain Structure and Function</i> , 2015, 220, 1421-1436.	2.3	15
20	Anodal Transcranial Direct Current Stimulation (tDCS) Over the Motor Cortex Increases Sympathetic Nerve Activity. <i>Brain Stimulation</i> , 2014, 7, 97-104.	1.6	45
21	Non-invasive Vagus Nerve Stimulation in Healthy Humans Reduces Sympathetic Nerve Activity. <i>Brain Stimulation</i> , 2014, 7, 871-877.	1.6	325
22	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, 751-765.	2.3	12
23	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.	2.1	15
24	The wonders of the Wanderer. <i>Experimental Physiology</i> , 2013, 98, 38-45.	2.0	31
25	A simple method to fluorescently label pericytes in the CNS and skeletal muscle. <i>Microvascular Research</i> , 2013, 89, 164-168.	2.5	3
26	Na <sup>+</sup> /K <sup>+</sup> ATPase $\alpha$ 1 and $\alpha$ 3 Isoforms Are Differentially Expressed in $\alpha$ - and $\beta$ -Motoneurons. <i>Journal of Neuroscience</i> , 2013, 33, 9913-9919.	3.6	61
27	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.	7.0	8
28	Sympathetic nerve hyperactivity and its effect in postmenopausal women. <i>Journal of Hypertension</i> , 2011, 29, 2167-2175.	0.5	27
29	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.	2.2	11
30	GABAB Mediated Regulation of Sympathetic Preganglionic Neurons: Pre- and Postsynaptic Sites of Action. <i>Frontiers in Neurology</i> , 2010, 1, 142.	2.4	33
31	Immunopharmacology: utilizing antibodies as ion channel modulators. <i>Expert Review of Clinical Pharmacology</i> , 2010, 3, 281-289.	3.1	6
32	Spontaneous rhythmogenic capabilities of sympathetic neuronal assemblies in the rat spinal cord slice. <i>Neuroscience</i> , 2010, 170, 827-838.	2.3	21
33	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, 166-175.	2.1	9
34	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.	2.6	57
35	Voltage-gated potassium currents within the dorsal vagal nucleus: Inhibition by BDS toxin. <i>Brain Research</i> , 2008, 1189, 51-57.	2.2	2
36	Expression of connexin30.2 in interneurons of the central nervous system in the mouse. <i>Molecular and Cellular Neurosciences</i> , 2008, 37, 119-134.	2.2	58

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37	Role of Olivary Electrical Coupling in Cerebellar Motor Learning. <i>Neuron</i> , 2008, 58, 599-612.	8.1	199
38	Tonic GABAergic Inhibition of Sympathetic Preganglionic Neurons: A Novel Substrate for Sympathetic Control. <i>Journal of Neuroscience</i> , 2008, 28, 12445-12452.	3.6	37
39	Modulation of Potassium Ion Channel Proteins Utilising Antibodies. <i>Methods in Molecular Biology</i> , 2008, 491, 247-255.	0.9	2
40	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, 8324-8333.	3.6	15
41	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, 3060-3071.	1.8	25
42	How much gas does it take to pump up synaptic transmission in the brain?. <i>Experimental Physiology</i> , 2007, 92, 367-367.	2.0	1
43	Dynamic remodelling of synapses can occur in the absence of the parent cell body. <i>BMC Neuroscience</i> , 2007, 8, 79.	1.9	12
44	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.	0.5	0
45	Differential effects of 5-HT on neurones in the central autonomic area of rat thoracic spinal cord.. <i>FASEB Journal</i> , 2007, 21, A885.	0.5	3
46	GAD67-GFP reporter mice reveal neurochemically distinct GABAergic populations in the Intermedius nucleus of the Medulla. <i>FASEB Journal</i> , 2007, 21, A464.	0.5	0
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.	2.8	26
48	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, 120-125.	2.1	14
49	The transcriptional repressor REST is a critical regulator of the neurosecretory phenotype. <i>Journal of Neurochemistry</i> , 2006, 98, 1828-1840.	3.9	42
50	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, 101-115.	2.2	25
51	HCN1 ion channel immunoreactivity in spinal cord and medulla oblongata. <i>Brain Research</i> , 2006, 1081, 79-91.	2.2	48
52	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, 655-672.	2.9	21
53	Properties of presynaptic P2X7-like receptors at the neuromuscular junction. <i>Brain Research</i> , 2005, 1034, 40-50.	2.2	36
54	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, 129-138.	2.2	14

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55	Immunopharmacology—Antibodies for specific modulation of proteins involved in neuronal function. <i>Journal of Neuroscience Methods</i> , 2005, 146, 133-148.	2.5	13
56	A2A adenosine receptors are located on presynaptic motor nerve terminals in the mouse. <i>Synapse</i> , 2005, 57, 229-234.	1.2	18
57	Distinct Profiles of REST Interactions with Its Target Genes at Different Stages of Neuronal Development. <i>Molecular Biology of the Cell</i> , 2005, 16, 5630-5638.	2.1	157
58	GABAergic Neurons in the Central Region of the Spinal Cord: A Novel Substrate for Sympathetic Inhibition. <i>Journal of Neuroscience</i> , 2005, 25, 1063-1070.	3.6	73
59	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, 133-145.	2.3	45
60	Nitroergic Modulation in the NTS. <i>Frontiers in Neuroscience</i> , 2005, , 209-258.	0.0	1
61	Evidence for Inhibition Mediated by Coassembly of GABAA and GABAC Receptor Subunits in Native Central Neurons. <i>Journal of Neuroscience</i> , 2004, 24, 7241-7250.	3.6	85
62	Input-Specific Modulation of Neurotransmitter Release in the Lateral Horn of the Spinal Cord via Adenosine Receptors. <i>Journal of Neuroscience</i> , 2004, 24, 127-137.	3.6	36
63	Kv3 voltage-gated potassium channels regulate neurotransmitter release from mouse motor nerve terminals. <i>European Journal of Neuroscience</i> , 2004, 20, 3313-3321.	2.6	42
64	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.	2.2	28
65	Differential co-localisation of the P2X7 receptor subunit with vesicular glutamate transporters VGLUT1 and VGLUT2 in rat CNS. <i>Neuroscience</i> , 2004, 123, 761-768.	2.3	77
66	Association of potassium channel Kv3.4 subunits with pre- and post-synaptic structures in brainstem and spinal cord. <i>Neuroscience</i> , 2004, 126, 1001-1010.	2.3	31
67	Angiotensin type 1 receptor immunoreactivity in the thoracic spinal cord. <i>Brain Research</i> , 2003, 985, 21-31.	2.2	31
68	Purinergic Signalling in the Medullary Mechanisms of Respiratory Control in the Rat: Respiratory Neurones Express the P2X 2 Receptor Subunit. <i>Journal of Physiology</i> , 2003, 552, 197-211.	2.9	78
69	Differential increases in P2X receptor levels in rat vagal efferent neurones following a vagal nerve section. <i>Brain Research</i> , 2003, 977, 112-118.	2.2	13
70	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, 115-122.	2.3	31
71	GABAB receptor subunit expression in glia. <i>Molecular and Cellular Neurosciences</i> , 2003, 24, 214-223.	2.2	86
72	Ionotropic glutamate receptor subunit immunoreactivity of vagal preganglionic neurones projecting to the rat heart. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2003, 105, 105-117.	2.8	25

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73	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.	2.8	19
74	Involvement of P2X7 receptors in the regulation of neurotransmitter release in the rat hippocampus. <i>Journal of Neurochemistry</i> , 2002, 81, 1196-1211.	3.9	247
75	An ATP-gated ion channel at the cell nucleus. <i>Nature</i> , 2002, 420, 42-42.	27.8	50
76	Properties of solitary tract neurones responding to peripheral arterial chemoreceptors. <i>Neuroscience</i> , 2001, 105, 231-248.	2.3	64
77	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, 433-446.	2.3	58
78	Knockout mice highlight the promise of purines. <i>Trends in Neurosciences</i> , 2001, 24, 5-6.	8.6	6
79	It's enough to raise your blood pressure!. <i>Trends in Neurosciences</i> , 2001, 24, 200.	8.6	0
80	It takes your breath away – NK1R ablation in the pre-Bötzing complex. <i>Trends in Neurosciences</i> , 2001, 24, 633.	8.6	0
81	Neuronal P2X <sub>7</sub> Receptors Are Targeted to Presynaptic Terminals in the Central and Peripheral Nervous Systems. <i>Journal of Neuroscience</i> , 2001, 21, 7143-7152.	3.6	281
82	Adenosine A1 Receptors Reduce Release from Excitatory But Not Inhibitory Synaptic Inputs onto Lateral Horn Neurons. <i>Journal of Neuroscience</i> , 2001, 21, 6308-6320.	3.6	58
83	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, 445-458.	2.9	151
84	Morphological and electrophysiological properties of neurones in the dorsal vagal complex of the rat activated by arterial baroreceptors. <i>Journal of Comparative Neurology</i> , 2000, 417, 233-249.	1.6	48
85	P2X2 receptor immunoreactivity in the dorsal vagal complex and area postrema of the rat. <i>Neuroscience</i> , 2000, 99, 683-696.	2.3	54
86	Nerves – the silent but strong type. <i>Trends in Neurosciences</i> , 2000, 23, 333.	8.6	1
87	Does the head rule the heart?. <i>Trends in Neurosciences</i> , 2000, 23, 449.	8.6	1
88	Morphological and electrophysiological properties of neurones in the dorsal vagal complex of the rat activated by arterial baroreceptors. , 2000, 417, 233.		1
89	Morphological and electrophysiological properties of neurones in the dorsal vagal complex of the rat activated by arterial baroreceptors. <i>Journal of Comparative Neurology</i> , 2000, 417, 233.	1.6	1
90	Modulation of bistratified cell IPSPs and basket cell IPSPs by pentobarbitone sodium, diazepam and Zn <sup>2+</sup> : dual recordings in slices of adult rat hippocampus. <i>European Journal of Neuroscience</i> , 1999, 11, 3552-3564.	2.6	56

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91	Properties of solitary tract neurons receiving inputs from the sub-diaphragmatic vagus nerve. <i>Neuroscience</i> , 1999, 95, 141-153.	2.3	51
92	Labelling of rat vagal preganglionic neurones by carbocyanine dye Dil applied to the heart. <i>NeuroReport</i> , 1999, 10, 1177-1181.	1.2	41
93	CA1 pyramidal to basket and bistratified cell EPSPs: dual intracellular recordings in rat hippocampal slices. <i>Journal of Physiology</i> , 1998, 507, 201-217.	2.9	157
94	Synaptic interactions in neocortical local circuits: dual intracellular recordings in vitro. <i>Cerebral Cortex</i> , 1997, 7, 510-522.	2.9	274
95	Neocortical local synaptic circuitry revealed with dual intracellular recordings and biocytin-filling. <i>Journal of Physiology (Paris)</i> , 1996, 90, 211-215.	2.1	14
96	Single axon fast inhibitory postsynaptic potentials elicited by a sparsely spiny interneuron in rat neocortex. <i>Neuroscience</i> , 1995, 65, 935-942.	2.3	65
97	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, 727-738.	2.3	93
98	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, 739-755.	2.3	83
99	Temporal and spatial properties of local circuits in neocortex. <i>Trends in Neurosciences</i> , 1994, 17, 119-126.	8.6	337
100	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, 572-583.	1.6	122
101	Single axon excitatory postsynaptic potentials in neocortical interneurons exhibit pronounced paired pulse facilitation. <i>Neuroscience</i> , 1993, 54, 347-360.	2.3	192