

David I Hughes

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

3,146
citations

236925

25
h-index

243625

44
g-index

51
all docs

51
docs citations

51
times ranked

2621
citing authors

#	ARTICLE	IF	CITATIONS
1	The expression of vesicular glutamate transporters VGLUT1 and VGLUT2 in neurochemically defined axonal populations in the rat spinal cord with emphasis on the dorsal horn. <i>European Journal of Neuroscience</i> , 2003, 17, 13-27.	2.6	387
2	The Cellular and Synaptic Architecture of the Mechanosensory Dorsal Horn. <i>Cell</i> , 2017, 168, 295-310.e19.	28.9	306
3	Populations of inhibitory and excitatory interneurons in lamina II of the adult rat spinal dorsal horn revealed by a combined electrophysiological and anatomical approach. <i>Pain</i> , 2010, 151, 475-488.	4.2	274
4	Physiological and morphological diversity of immunocytochemically defined parvalbumin- and cholecystokinin-positive interneurons in CA1 of the adult rat hippocampus. <i>Journal of Comparative Neurology</i> , 2002, 443, 346-367.	1.6	233
5	Selective loss of spinal GABAergic or glycinergic neurons is not necessary for development of thermal hyperalgesia in the chronic constriction injury model of neuropathic pain. <i>Pain</i> , 2003, 104, 229-239.	4.2	202
6	Morphological, neurochemical and electrophysiological features of parvalbumin-expressing cells: a likely source of axo-axonic inputs in the mouse spinal dorsal horn. <i>Journal of Physiology</i> , 2012, 590, 3927-3951.	2.9	132
7	Loss of Neurons from Laminas I-III of the Spinal Dorsal Horn Is Not Required for Development of Tactile Allodynia in the Spared Nerve Injury Model of Neuropathic Pain. <i>Journal of Neuroscience</i> , 2005, 25, 6658-6666.	3.6	129
8	Distribution and colocalisation of glutamate decarboxylase isoforms in the rat spinal cord. <i>Neuroscience</i> , 2003, 119, 461-472.	2.3	127
9	Lack of Evidence for Sprouting of A β 2 Affferents into the Superficial Laminas of the Spinal Cord Dorsal Horn after Nerve Section. <i>Journal of Neuroscience</i> , 2003, 23, 9491-9499.	3.6	112
10	A Quantitative Study of Inhibitory Interneurons in Laminae I-III of the Mouse Spinal Dorsal Horn. <i>PLoS ONE</i> , 2013, 8, e78309.	2.5	100
11	Differential sensitivity to Zolpidem of IPSPs activated by morphologically identified CA1 interneurons in slices of rat hippocampus. <i>European Journal of Neuroscience</i> , 2000, 12, 425-436.	2.6	96
12	Defining a Spinal Microcircuit that Gates Myelinated Afferent Input: Implications for Tactile Allodynia. <i>Cell Reports</i> , 2019, 28, 526-540.e6.	6.4	91
13	P boutons in lamina IX of the rodent spinal cord express high levels of glutamic acid decarboxylase-65 and originate from cells in deep medial dorsal horn. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 9038-9043.	7.1	85
14	Functional heterogeneity of calretinin-expressing neurons in the mouse superficial dorsal horn: implications for spinal pain processing. <i>Journal of Physiology</i> , 2015, 593, 4319-4339.	2.9	79
15	Central Nervous System Targets: Inhibitory Interneurons in the Spinal Cord. <i>Neurotherapeutics</i> , 2020, 17, 874-885.	4.4	56
16	HCN4 subunit expression in fast-spiking interneurons of the rat spinal cord and hippocampus. <i>Neuroscience</i> , 2013, 237, 7-18.	2.3	53
17	Peripheral axotomy induces depletion of the vesicular glutamate transporter VGLUT1 in central terminals of myelinated afferent fibres in the rat spinal cord. <i>Brain Research</i> , 2004, 1017, 69-76.	2.2	52
18	5-oxoETE triggers nociception in constipation-predominant irritable bowel syndrome through MAS-related G protein-coupled receptor D. <i>Science Signaling</i> , 2018, 11, .	3.6	44

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19	Calretinin positive neurons form an excitatory amplifier network in the spinal cord dorsal horn. <i>ELife</i> , 2019, 8, .	6.0	43
20	Anatomical and Molecular Properties of Long Descending Propriospinal Neurons in Mice. <i>Frontiers in Neuroanatomy</i> , 2017, 11, 5.	1.7	41
21	Synaptic relationships between hair follicle afferents and neurones expressing GABA and glycine-like immunoreactivity in the spinal cord of the rat. <i>Journal of Comparative Neurology</i> , 2002, 452, 367-380.	1.6	39
22	Upregulation of Substance P in Low-Threshold Myelinated Afferents Is Not Required for Tactile Allodynia in the Chronic Constriction Injury and Spinal Nerve Ligation Models. <i>Journal of Neuroscience</i> , 2007, 27, 2035-2044.	3.6	36
23	Double immunofluorescence, peroxidase labelling and ultrastructural analysis of interneurons following prolonged electrophysiological recordings in vitro. <i>Journal of Neuroscience Methods</i> , 2000, 101, 107-116.	2.5	35
24	Modulation of inhibitory autapses and synapses on rat CA1 interneurons by GABA a receptor ligands. <i>Journal of Physiology</i> , 2003, 546, 701-716.	2.9	34
25	A combined electrophysiological and morphological study of neuropeptide Y-expressing inhibitory interneurons in the spinal dorsal horn of the mouse. <i>Pain</i> , 2016, 157, 598-612.	4.2	34
26	Distinct forms of synaptic inhibition and neuromodulation regulate calretinin-positive neuron excitability in the spinal cord dorsal horn. <i>Neuroscience</i> , 2016, 326, 10-21.	2.3	30
27	Gabapentin Modulates HCN4 Channel Voltage-Dependence. <i>Frontiers in Pharmacology</i> , 2017, 8, 554.	3.5	28
28	Simultaneous identification of unmyelinated and myelinated primary somatic afferents by co-injection of isolectin B4 and Cholera toxin subunit B into the sciatic nerve of the rat. <i>Journal of Neuroscience Methods</i> , 2011, 198, 213-221.	2.5	26
29	Expression of Calretinin Among Different Neurochemical Classes of Interneuron in the Superficial Dorsal Horn of the Mouse Spinal Cord. <i>Neuroscience</i> , 2019, 398, 171-181.	2.3	26
30	Diversity of inhibitory and excitatory parvalbumin interneuron circuits in the dorsal horn. <i>Pain</i> , 2022, 163, e432-e452.	4.2	22
31	Heteromeric $\alpha 2\beta$ glycine receptors regulate excitability in parvalbumin-expressing dorsal horn neurons through phasic and tonic glycinergic inhibition. <i>Journal of Physiology</i> , 2017, 595, 7185-7202.	2.9	21
32	Chemogenetics defines a short-chain fatty acid receptor gut-brain axis. <i>ELife</i> , 2022, 11, .	6.0	21
33	Evidence against AMPA Receptor-Lacking Glutamatergic Synapses in the Superficial Dorsal Horn of the Rat Spinal Cord. <i>Journal of Neuroscience</i> , 2009, 29, 13401-13409.	3.6	20
34	Electrical maturation of spinal neurons in the human fetus: comparison of ventral and dorsal horn. <i>Journal of Neurophysiology</i> , 2015, 114, 2661-2671.	1.8	18
35	Projection Neuron Axon Collaterals in the Dorsal Horn: Placing a New Player in Spinal Cord Pain Processing. <i>Frontiers in Physiology</i> , 2020, 11, 560802.	2.8	18
36	Transgenic Cross-Referencing of Inhibitory and Excitatory Interneuron Populations to Dissect Neuronal Heterogeneity in the Dorsal Horn. <i>Frontiers in Molecular Neuroscience</i> , 2020, 13, 32.	2.9	18

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37	Spinoparabrachial projection neurons form distinct classes in the mouse dorsal horn. <i>Pain</i> , 2021, 162, 1977-1994.	4.2	18
38	Defining populations of dorsal horn interneurons. <i>Pain</i> , 2020, 161, 2434-2436.	4.2	13
39	Gating of vagal inputs by sciatic afferents in nonspinally projecting neurons in the rat rostral ventrolateral medulla oblongata. <i>European Journal of Neuroscience</i> , 2001, 13, 781-792.	2.6	9
40	Anatomical evidence for an anticonvulsant relay in the rat ventromedial medulla. <i>European Journal of Neuroscience</i> , 2005, 22, 1431-1444.	2.6	8
41	Functional and Molecular Analysis of Proprioceptive Sensory Neuron Excitability in Mice. <i>Frontiers in Molecular Neuroscience</i> , 2020, 13, 36.	2.9	7
42	Contrasting Alterations to Synaptic and Intrinsic Properties in Upper-Cervical Superficial Dorsal Horn Neurons following Acute Neck Muscle Inflammation. <i>Molecular Pain</i> , 2014, 10, 1744-8069-10-25.	2.1	6
43	Rewards, perils and pitfalls of untangling spinal pain circuits. <i>Current Opinion in Physiology</i> , 2019, 11, 35-41.	1.8	6
44	The search for novel analgesics: re-examining spinal cord circuits with new tools. <i>Frontiers in Pharmacology</i> , 2014, 5, 22.	3.5	5
45	Defining a Spinal Microcircuit that Gates Myelinated Afferent Input: Implications for Tactile Allodynia. <i>SSRN Electronic Journal</i> , 0, , .	0.4	2
46	Altered Intrinsic Properties and Inhibitory Connectivity in Aged Parvalbumin-Expressing Dorsal Horn Neurons. <i>Frontiers in Neural Circuits</i> , 0, 16, .	2.8	1
47	Confocal Endomicroscopy of Neuromuscular Junctions Stained with Physiologically Inert Protein Fragments of Tetanus Toxin. <i>Biomolecules</i> , 2021, 11, 1499.	4.0	0