David I Hughes

List of Publications by Year
in descending order

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	Diversity of inhibitory and excitatory parvalbumin interneuron circuits in the dorsal horn. Pain, 2022, 163, e432-e452.	4.2	22
2	Chemogenetics defines a short-chain fatty acid receptor gutâ€"brain axis. ELife, 2022, 11, .	6.0	21
3	Spinoparabrachial projection neurons form distinct classes in the mouse dorsal horn. Pain, 2021, 162, 1977-1994.	4.2	18
4	Confocal Endomicroscopy of Neuromuscular Junctions Stained with Physiologically Inert Protein Fragments of Tetanus Toxin. Biomolecules, 2021, 11, 1499.	4.0	0
5	Central Nervous System Targets: Inhibitory Interneurons in the Spinal Cord. Neurotherapeutics, 2020, 17, 874-885.	4.4	56
6	Defining populations of dorsal horn interneurons. Pain, 2020, 161, 2434-2436.	4.2	13
7	Projection Neuron Axon Collaterals in the Dorsal Horn: Placing a New Player in Spinal Cord Pain Processing. Frontiers in Physiology, 2020, 11, 560802.	2.8	18
8	Transgenic Cross-Referencing of Inhibitory and Excitatory Interneuron Populations to Dissect Neuronal Heterogeneity in the Dorsal Horn. Frontiers in Molecular Neuroscience, 2020, 13, 32.	2.9	18
9	Functional and Molecular Analysis of Proprioceptive Sensory Neuron Excitability in Mice. Frontiers in Molecular Neuroscience, 2020, 13, 36.	2.9	7
10	Defining a Spinal Microcircuit that Gates Myelinated Afferent Input: Implications for Tactile Allodynia. Cell Reports, 2019, 28, 526-540.e6.	6.4	91
11	Rewards, perils and pitfalls of untangling spinal pain circuits. Current Opinion in Physiology, 2019, 11, 35-41.	1.8	6
12	Expression of Calretinin Among Different Neurochemical Classes of Interneuron in the Superficial Dorsal Horn of the Mouse Spinal Cord. Neuroscience, 2019, 398, 171-181.	2.3	26
13	Calretinin positive neurons form an excitatory amplifier network in the spinal cord dorsal horn. ELife, 2019, 8, .	6.0	43
14	5-oxoETE triggers nociception in constipation-predominant irritable bowel syndrome through MAS-related G proteinâ€"coupled receptor D. Science Signaling, 2018, 11, .	3.6	44
15	The Cellular and Synaptic Architecture of the Mechanosensory Dorsal Horn. Cell, 2017, 168, 295-310.e19.	28.9	306
16	Heteromeric Î±/Î²Âglycine receptors regulate excitability in parvalbuminâ€expressing dorsal horn neurons through phasic and tonic glycinergic inhibition. Journal of Physiology, 2017, 595, 7185-7202.	2.9	21
17	Gabapentin Modulates HCN4 Channel Voltage-Dependence. Frontiers in Pharmacology, 2017, 8, 554.	3.5	28
18	Anatomical and Molecular Properties of Long Descending Propriospinal Neurons in Mice. Frontiers in Neuroanatomy, 2017, 11, 5.	1.7	41

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19	Distinct forms of synaptic inhibition and neuromodulation regulate calretinin-positive neuron excitability in the spinal cord dorsal horn. Neuroscience, 2016, 326, 10-21.	2.3	30
20	A combined electrophysiological and morphological study of neuropeptide Yâ€"expressing inhibitory interneurons in the spinal dorsal horn of the mouse. Pain, 2016, 157, 598-612.	4.2	34
21	Electrical maturation of spinal neurons in the human fetus: comparison of ventral and dorsal horn. Journal of Neurophysiology, 2015, 114, 2661-2671.	1.8	18
22	Functional heterogeneity of calretininâ€expressing neurons in the mouse superficial dorsal horn: implications for spinal pain processing. Journal of Physiology, 2015, 593, 4319-4339.	2.9	79
23	The search for novel analgesics: re-examining spinal cord circuits with new tools. Frontiers in Pharmacology, 2014, 5, 22.	3.5	5
24	Contrasting Alterations to Synaptic and Intrinsic Properties in Upper-Cervical Superficial Dorsal Horn Neurons following Acute Neck Muscle Inflammation. Molecular Pain, 2014, 10, 1744-8069-10-25.	2.1	6
25	HCN4 subunit expression in fast-spiking interneurons of the rat spinal cord and hippocampus. Neuroscience, 2013, 237, 7-18.	2.3	53
26	A Quantitative Study of Inhibitory Interneurons in Laminae I-III of the Mouse Spinal Dorsal Horn. PLoS ONE, 2013, 8, e78309.	2.5	100
27	Morphological, neurochemical and electrophysiological features of parvalbuminâ€expressing cells: a likely source of axoâ€axonic inputs in the mouse spinal dorsal horn. Journal of Physiology, 2012, 590, 3927-3951.	2.9	132
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. Journal of Neuroscience Methods, 2011, 198, 213-221.	2.5	26
29	Populations of inhibitory and excitatory interneurons in lamina II of the adult rat spinal dorsal horn revealed by a combined electrophysiological and anatomical approach. Pain, 2010, 151, 475-488.	4.2	274
30	Evidence against AMPA Receptor-Lacking Glutamatergic Synapses in the Superficial Dorsal Horn of the Rat Spinal Cord. Journal of Neuroscience, 2009, 29, 13401-13409.	3.6	20
31	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. Journal of Neuroscience, 2007, 27, 2035-2044.	3.6	36
32	Anatomical evidence for an anticonvulsant relay in the rat ventromedial medulla. European Journal of Neuroscience, 2005, 22, 1431-1444.	2.6	8
33	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. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9038-9043.	7.1	85
34	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. Journal of Neuroscience, 2005, 25, 6658-6666.	3.6	129
35	Peripheral axotomy induces depletion of the vesicular glutamate transporter VGLUT1 in central terminals of myelinated afferent fibres in the rat spinal cord. Brain Research, 2004, 1017, 69-76.	2.2	52
36	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. European Journal of Neuroscience, 2003, 17, 13-27.	2.6	387

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37	Modulation of inhibitory autapses and synapses on rat CA1 interneurones by GABA a receptor ligands. Journal of Physiology, 2003, 546, 701-716.	2.9	34
38	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. Pain, 2003, 104, 229-239.	4.2	202
39	Distribution and colocalisation of glutamate decarboxylase isoforms in the rat spinal cord. Neuroscience, 2003, 119, 461-472.	2.3	127
40	Lack of Evidence for Sprouting of AÎ² Afferents into the Superficial Laminas of the Spinal Cord Dorsal Horn after Nerve Section. Journal of Neuroscience, 2003, 23, 9491-9499.	3.6	112
41	Physiological and morphological diversity of immunocytochemically defined parvalbumin- and cholecystokinin-positive interneurones in CA1 of the adult rat hippocampus. Journal of Comparative Neurology, 2002, 443, 346-367.	1.6	233
42	Synaptic relationships between hair follicle afferents and neurones expressing GABA and glycine-like immunoreactivity in the spinal cord of the rat. Journal of Comparative Neurology, 2002, 452, 367-380.	1.6	39
43	Gating of vagal inputs by sciatic afferents in nonspinally projecting neurons in the rat rostral ventrolateral medulla oblongata. European Journal of Neuroscience, 2001, 13, 781-792.	2.6	9
44	Differential sensitivity to Zolpidem of IPSPs activated by morphologically identified CA1 interneurons in slices of rat hippocampus. European Journal of Neuroscience, 2000, 12, 425-436.	2.6	96
45	Double immunofluorescence, peroxidase labelling and ultrastructural analysis of interneurones following prolonged electrophysiological recordings in vitro. Journal of Neuroscience Methods, 2000, 101, 107-116.	2.5	35
46	Defining a Spinal Microcircuit that Gates Myelinated Afferent Input: Implications for Tactile Allodynia. SSRN Electronic Journal, 0, , .	0.4	2
47	Altered Intrinsic Properties and Inhibitory Connectivity in Aged Parvalbumin-Expressing Dorsal Horn Neurons. Frontiers in Neural Circuits, 0, 16, .	2.8	1