Andrew J Todd

List of Publications by Year
in descending order

95 papers	7,430 citations	61984 43 h-index	56724 83 g-index
100 all docs	100 docs citations	100 times ranked	4905 citing authors

#	Article	IF	Citations
1	Grpr expression defines a population of superficial dorsal horn vertical cells that have a role in both itch and pain. Pain, 2023, 164, 149-170.	4.2	15
2	An Historical Perspective: The Second Order Neuron in the Pain Pathway. Frontiers in Pain Research, 2022, 3, 845211.	2.0	1
3	GABAA and Glycine Receptor-Mediated Inhibitory Synaptic Transmission onto Adult Rat Lamina Iii PKCÎ³-Interneurons: Pharmacological but Not Anatomical Specialization. Cells, 2022, 11, 1356.	4.1	2
4	Encoding of cutaneous stimuli by lamina I projection neurons. Pain, 2021, 162, 2405-2417.	4.2	21
5	Characterisation of lamina I anterolateral system neurons that express Cre in a Phox2a-Cre mouse line. Scientific Reports, 2021, 11, 17912.	3.3	11
6	Studying independent Kcna6 knock-out mice reveals toxicity of exogenous LacZ to central nociceptor terminals and differential effects of Kv1.6 on acute and neuropathic pain sensation. Journal of Neuroscience, 2021, 41, JN-RM-0187-21.	3.6	5
7	Ablation of spinal cord estrogen receptor Î±â€expressing interneurons reduces chemically induced modalities of pain and itch. Journal of Comparative Neurology, 2020, 528, 1629-1643.	1.6	10
8	Central Nervous System Targets: Inhibitory Interneurons in the Spinal Cord. Neurotherapeutics, 2020, 17, 874-885.	4.4	56
9	Substance P-expressing Neurons in the Superficial Dorsal Horn of the Mouse Spinal Cord: Insights into Their Functions and their Roles in Synaptic Circuits. Neuroscience, 2020, 450, 113-125.	2.3	13
10	Expression of green fluorescent protein defines a specific population of lamina II excitatory interneurons in the GRP::eGFP mouse. Scientific Reports, 2020, 10, 13176.	3.3	20
11	Recent advances in our understanding of the organization of dorsal horn neuron populations and their contribution to cutaneous mechanical allodynia. Journal of Neural Transmission, 2020, 127, 505-525.	2.8	74
12	Functional Populations Among Interneurons in the Dorsal Horn. , 2020, , 207-219.		0
13	Expression of Neuropeptide FF Defines a Population of Excitatory Interneurons in the Superficial Dorsal Horn of the Mouse Spinal Cord that Respond to Noxious and Pruritic Stimuli. Neuroscience, 2019, 416, 281-293.	2.3	21
14	Morphological and functional properties distinguish the substance P and gastrin-releasing peptide subsets of excitatory interneuron in the spinal cord dorsal horn. Pain, 2019, 160, 442-462.	4.2	59
15	Expression of cholecystokinin by neurons in mouse spinal dorsal horn. Journal of Comparative Neurology, 2019, 527, 1857-1871.	1.6	38
16	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
17	Substance P-expressing excitatory interneurons in the mouse superficial dorsal horn provide a propriospinal input to the lateral spinal nucleus. Brain Structure and Function, 2018, 223, 2377-2392.	2.3	20
18	Immune or Genetic-Mediated Disruption of CASPR2 Causes Pain Hypersensitivity Due to Enhanced Primary Afferent Excitability. Neuron, 2018, 97, 806-822.e10.	8.1	119

#	Article	IF	Citations
19	Circuit dissection of the role of somatostatin in itch and pain. Nature Neuroscience, 2018, 21, 707-716.	14.8	195
20	Survival of syngeneic and allogeneic iPSCâ€“derived neural precursors after spinal grafting in minipigs. Science Translational Medicine, 2018, 10, .	12.4	42
21	Identifying functional populations among the interneurons in laminae I-III of the spinal dorsal horn. Molecular Pain, 2017, 13, 174480691769300.	2.1	156
22	Preprotachykinin A is expressed by a distinct population of excitatory neurons in the mouse superficial spinal dorsal horn including cells that respond to noxious and pruritic stimuli. Pain, 2017, 158, 440-456.	4.2	58
23	A quantitative study of neurochemically defined populations of inhibitory interneurons in the superficial dorsal horn of the mouse spinal cord. Neuroscience, 2017, 363, 120-133.	2.3	68
24	A quantitative study of neurochemically defined excitatory interneuron populations in laminae Iâ€“III of the mouse spinal cord. Molecular Pain, 2016, 12, 174480691662906.	2.1	70
25	Spinal neurons that contain gastrin-releasing peptide seldom express Fos or phosphorylate extracellular signal-regulated kinases in response to intradermal chloroquine. Molecular Pain, 2016, 12, 174480691664960.	2.1	26
26	Immunostaining for Homer reveals the majority of excitatory synapses in laminae Iâ€“III of the mouse spinal dorsal horn. Neuroscience, 2016, 329, 171-181.	2.3	40
27	Insight into B5-I spinal interneurons and their role in the inhibition of itch and pain. Pain, 2016, 157, 544-545.	4.2	14
28	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
29	The organisation of spinoparabrachial neurons in the mouse. Pain, 2015, 156, 2061-2071.	4.2	119
30	Plasticity of Inhibition in the Spinal Cord. Handbook of Experimental Pharmacology, 2015, 227, 171-190.	1.8	38
31	Inhibitory Interneurons That Express GFP in the<i>PrP-GFP</i>Mouse Spinal Cord Are Morphologically Heterogeneous, Innervated by Several Classes of Primary Afferent and Include Lamina I Projection Neurons among Their Postsynaptic Targets. Journal of Neuroscience, 2015, 35, 7626-7642.	3.6	33
32	Expression of Gastrin-Releasing Peptide by Excitatory Interneurons in the Mouse Superficial Dorsal Horn. Molecular Pain, 2014, 10, 1744-8069-10-79.	2.1	44
33	The Recurrent Case for the Renshaw Cell. Journal of Neuroscience, 2014, 34, 12919-12932.	3.6	40
34	A Putative Relay Circuit Providing Low-Threshold Mechanoreceptive Input to Lamina I Projection Neurons via Vertical Cells in Lamina II of the Rat Dorsal Horn. Molecular Pain, 2014, 10, 1744-8069-10-3.	2.1	44
35	Selective innervation of NK1 receptorâ€“lacking lamina I spinoparabrachial neurons by presumed nonpeptidergic AÎ´ nociceptors in the rat. Pain, 2014, 155, 2291-2300.	4.2	9
36	Dynorphin Acts as a Neuromodulator to Inhibit Itch in the Dorsal Horn of the Spinal Cord. Neuron, 2014, 82, 573-586.	8.1	290

#	Article	IF	Citations
37	Functional differences between neurochemically defined populations of inhibitory interneurons in the rat spinal dorsal horn. Pain, 2013, 154, 2606-2615.	4.2	77
38	Axon diversity of lamina I localâ€circuit neurons in the lumbar spinal cord. Journal of Comparative Neurology, 2013, 521, 2719-2741.	1.6	35
39	Neurochemical Characterisation of Lamina II Inhibitory Interneurons that Express GFP in the PrP-GFP Mouse. Molecular Pain, 2013, 9, 1744-8069-9-56.	2.1	23
40	A Quantitative Study of Inhibitory Interneurons in Laminae I-III of the Mouse Spinal Dorsal Horn. PLoS ONE, 2013, 8, e78309.	2.5	100
41	Projection Neurons in Lamina III of the Rat Spinal Cord Are Selectively Innervated by Local Dynorphin-Containing Excitatory Neurons. Journal of Neuroscience, 2012, 32, 11854-11863.	3.6	31
42	GÎ±q/11 signaling tonically modulates nociceptor function and contributes to activity-dependent sensitization. Pain, 2012, 153, 184-196.	4.2	31
43	How to recognise collateral damage in partial nerve injury models of neuropathic pain. Pain, 2012, 153, 11-12.	4.2	2
44	Presynaptically Localized Cyclic GMP-Dependent Protein Kinase 1 Is a Key Determinant of Spinal Synaptic Potentiation and Pain Hypersensitivity. PLoS Biology, 2012, 10, e1001283.	5.6	82
45	Galanin-Immunoreactivity Identifies a Distinct Population of Inhibitory Interneurons in Laminae I-III of the Rat Spinal Cord. Molecular Pain, 2011, 7, 1744-8069-7-36.	2.1	55
46	Dynorphin is Expressed Primarily by GABAergic Neurons That Contain Galanin in the Rat Dorsal Horn. Molecular Pain, 2011, 7, 1744-8069-7-76.	2.1	67
47	Quantitative study of NPYâ€expressing GABAergic neurons and axons in rat spinal dorsal horn. Journal of Comparative Neurology, 2011, 519, 1007-1023.	1.6	57
48	Quantitative study of NPY-expressing GABAergic neurons and axons in rat spinal dorsal horn. Journal of Comparative Neurology, 2011, 519, spc1-spc1.	1.6	0
49	Peripheral calcium-permeable AMPA receptors regulate chronic inflammatory pain in mice. Journal of Clinical Investigation, 2011, 121, 1608-1623.	8.2	53
50	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
51	A quantitative study of brainstem projections from lamina I neurons in the cervical and lumbar enlargement of the rat. Brain Research, 2010, 1308, 58-67.	2.2	52
52	Neuronal circuitry for pain processing in the dorsal horn. Nature Reviews Neuroscience, 2010, 11, 823-836.	10.2	1,112
53	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
54	Collateral projections of neurons in laminae I, III, and IV of rat spinal cord to thalamus, periaqueductal gray matter, and lateral parabrachial area. Journal of Comparative Neurology, 2009, 515, 629-646.	1.6	94

#	Article	IF	Citations
55	Neurokinin 1 receptorâ€expressing projection neurons in laminae III and IV of the rat spinal cord have synaptic AMPA receptors that contain GluR2, GluR3 and GluR4 subunits. European Journal of Neuroscience, 2009, 29, 718-726.	2.6	15
56	Changes in NK1 and Glutamate Receptors in Pain. , 2009, , 3-19.		0
57	A quantitative study of spinothalamic neurons in laminae I, III, and IV in lumbar and cervical segments of the rat spinal cord. Journal of Comparative Neurology, 2008, 511, 1-18.	1.6	71
58	A quantitative study of spinothalamic neurons in laminae I, III, and IV in lumbar and cervical segments of the rat spinal cord. Journal of Comparative Neurology, 2008, 511, spc1-spc1.	1.6	1
59	A quantitative study of spinothalamic neurons in laminae I, III, and IV in lumbar and cervical segments of the rat spinal cord. Journal of Comparative Neurology, 2008, 511, spc1-spc1.	1.6	0
60	Expression of AMPA Receptor Subunits at Synapses in Laminae Iâ€"III of the Rodent Spinal Dorsal Horn. Molecular Pain, 2008, 4, 1744-8069-4-5.	2.1	66
61	Large Projection Neurons in Lamina I of the Rat Spinal Cord That Lack the Neurokinin 1 Receptor Are Densely Innervated by VGLUT2-Containing Axons and Possess GluR4-Containing AMPA Receptors. Journal of Neuroscience, 2008, 28, 13150-13160.	3.6	47
62	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
63	Spinal cholinergic interneurons regulate the excitability of motoneurons during locomotion. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2448-2453.	7.1	264
64	Phosphorylation of ERK in Neurokinin 1 Receptor-Expressing Neurons in Laminae III and IV of the Rat Spinal Dorsal Horn Following Noxious Stimulation. Molecular Pain, 2007, 3, 1744-8069-3-4.	2.1	39
65	A population of large neurons in laminae III and IV of the rat spinal cord that have long dorsal dendrites and lack the neurokinin 1 receptor. European Journal of Neuroscience, 2007, 26, 1587-1598.	2.6	15
66	Anatomical Changes in the Spinal Dorsal Horn after Peripheral Nerve Injury. , 2007, , 309-324.		0
67	Sustratos neuroanatÃ³micos de la nocicepciÃ³n medular. , 2007, , 73-90.		0
68	Chapter 6 Anatomy and neurochemistry of the dorsal horn. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2006, 81, 61-76.	1.8	10
69	Neuroanatomical substrates of spinal nociception. , 2006, , 73-90.		33
70	Anatomical evidence for an anticonvulsant relay in the rat ventromedial medulla. European Journal of Neuroscience, 2005, 22, 1431-1444.	2.6	8
71	Postnatal phenotype and localization of spinal cord V1 derived interneurons. Journal of Comparative Neurology, 2005, 493, 177-192.	1.6	204
72	Serotoninergic-mediated inhibition of substance P sensitive deep dorsal horn neurons: a combined electrophysiological and morphological study in vitro. Experimental Brain Research, 2005, 160, 360-367.	1.5	7

#	Article	IF	Citations
73	Locomotor-Like Rhythms in a Genetically Distinct Cluster of Interneurons in the Mammalian Spinal Cord. Journal of Neurophysiology, 2005, 93, 1439-1449.	1.8	149
74	Conditional Rhythmicity of Ventral Spinal Interneurons Defined by Expression of the Hb9 Homeodomain Protein. Journal of Neuroscience, 2005, 25, 5710-5719.	3.6	225
75	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
76	Anti-disialoside antibodies kill perisynaptic Schwann cells and damage motor nerve terminals via membrane attack complex in a murine model of neuropathy. Brain, 2004, 127, 2109-2123.	7.6	122
77	Widespread Expression of the AMPA Receptor GluR2 Subunit at Glutamatergic Synapses in the Rat Spinal Cord and Phosphorylation of GluR1 in Response to Noxious Stimulation Revealed with an Antigen-Unmasking Method. Journal of Neuroscience, 2004, 24, 5766-5777.	3.6	113
78	Synaptic distribution of the NR1, NR2A and NR2B subunits of the N-methyl-d-aspartate receptor in the rat lumbar spinal cord revealed with an antigen-unmasking technique. European Journal of Neuroscience, 2004, 20, 3301-3312.	2.6	128
79	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
80	Do central terminals of intact myelinated primary afferents sprout into the superficial dorsal horn of rat spinal cord after injury to a neighboring peripheral nerve?. Journal of Comparative Neurology, 2004, 474, 427-437.	1.6	30
81	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
82	Projection Neurons in Lamina I of Rat Spinal Cord with the Neurokinin 1 Receptor Are Selectively Innervated by Substance P-Containing Afferents and Respond to Noxious Stimulation. Journal of Neuroscience, 2002, 22, 4103-4113.	3.6	189
83	Confocal Imaging of Nerve Cells and Their Connections. , 2002, , 259-272.		0
84	Neurokinin 1 receptor expression by neurons in laminae I, III and IV of the rat spinal dorsal horn that project to the brainstem. European Journal of Neuroscience, 2000, 12, 689-700.	2.6	255
85	GABAergic Neurons that Contain Neuropeptide Y Selectively Target Cells with the Neurokinin 1 Receptor in Laminae III and IV of the Rat Spinal Cord. Journal of Neuroscience, 1999, 19, 2637-2646.	3.6	97
86	Cells in Laminae III and IV of the Rat Spinal Cord that Possess the Neurokinin-1 Receptor and Have Dorsally Directed Dendrites Receive a Major Synaptic Input from Tachykinin-Containing Primary Afferents. Journal of Neuroscience, 1997, 17, 5536-5548.	3.6	131
87	Coexistence of NADPH diaphorase with GABA, glycine, and acetylcholine in rat spinal cord. Journal of Comparative Neurology, 1993, 335, 320-333.	1.6	163
88	Light and electron microscope study of GABA-immunoreactive neurones in Lamina III of rat spinal cord. Journal of Comparative Neurology, 1992, 315, 125-136.	1.6	52
89	Light microscope study of the coexistence of GABA-like and glycine-like immunoreactivities in the spinal cord of the rat. Journal of Comparative Neurology, 1990, 296, 496-505.	1.6	466
90	GABA-like immunoreactivity in type I glomeruli of rat substantia gelatinosa. Brain Research, 1990, 514, 171-174.	2.2	103

#	Article	IF	Citations
91	Cells in laminae III and IV of rat spinal dorsal horn receive monosynaptic primary afferent input in lamina II. Journal of Comparative Neurology, 1989, 289, 676-686.	1.6	38
92	Electron microscope study of Golgi-stained cells in lamina II of the rat spinal dorsal horn. Journal of Comparative Neurology, 1988, 275, 145-157.	1.6	49
93	Dorsal root recurrent collaterals in young cats. Brain Research, 1981, 221, 371-373.	2.2	1
94	Central Nervous System Pain Pathways. , 0, , 415-444.		2
95	Neuronal circuitry for pain processing in the dorsal horn. , 0, .		1