

Allan Basbaum

List of Publications by Year in descending order

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129
papers

28,550
citations

18436

62
h-index

18075

120
g-index

142
all docs

142
docs citations

142
times ranked

18234
citing authors

#	ARTICLE	IF	CITATIONS
1	Cellular and Molecular Mechanisms of Pain. <i>Cell</i> , 2009, 139, 267-284.	13.5	3,090
2	The Cloned Capsaicin Receptor Integrates Multiple Pain-Producing Stimuli. <i>Neuron</i> , 1998, 21, 531-543.	3.8	2,792
3	Molecular mechanisms of nociception. <i>Nature</i> , 2001, 413, 203-210.	13.7	2,141
4	TRPA1 Mediates the Inflammatory Actions of Environmental Irritants and Proalgesic Agents. <i>Cell</i> , 2006, 124, 1269-1282.	13.5	1,672
5	Bradykinin and nerve growth factor release the capsaicin receptor from PtdIns(4,5)P2-mediated inhibition. <i>Nature</i> , 2001, 411, 957-962.	13.7	1,144
6	Endogenous pain control mechanisms: Review and hypothesis. <i>Annals of Neurology</i> , 1978, 4, 451-462.	2.8	1,133
7	The menthol receptor TRPM8 is the principal detector of environmental cold. <i>Nature</i> , 2007, 448, 204-208.	13.7	1,110
8	4-Hydroxynonenal, an endogenous aldehyde, causes pain and neurogenic inflammation through activation of the irritant receptor TRPA1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 13519-13524.	3.3	655
9	Preserved Acute Pain and Reduced Neuropathic Pain in Mice Lacking PKC. <i>Science</i> , 1997, 278, 279-283.	6.0	645
10	Three bulbospinal pathways from the rostral medulla of the cat: An autoradiographic study of pain modulating systems. <i>Journal of Comparative Neurology</i> , 1978, 178, 209-224.	0.9	628
11	The origin of descending pathways in the dorsolateral funiculus of the spinal cord of the cat and rat: Further studies on the anatomy of pain modulation. <i>Journal of Comparative Neurology</i> , 1979, 187, 513-531.	0.9	602
12	Distinct subsets of unmyelinated primary sensory fibers mediate behavioral responses to noxious thermal and mechanical stimuli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 9075-9080.	3.3	581
13	Primary afferent tachykinins are required to experience moderate to intense pain. <i>Nature</i> , 1998, 392, 390-394.	13.7	560
14	A sensory neuron-expressed IL-31 receptor mediates T _H helper cell-dependent itch: Involvement of TRPV1 and TRPA1. <i>Journal of Allergy and Clinical Immunology</i> , 2014, 133, 448-460.e7.	1.5	556
15	Expression of c-fosprotein in interneurons and projection neurons of the rat spinal cord in response to noxious somatic, articular, and visceral stimulation. <i>Journal of Comparative Neurology</i> , 1989, 285, 177-195.	0.9	484
16	Injured sensory neuron-derived CSF1 induces microglial proliferation and DAP12-dependent pain. <i>Nature Neuroscience</i> , 2016, 19, 94-101.	7.1	421
17	Dissociation of the Opioid Receptor Mechanisms that Control Mechanical and Heat Pain. <i>Cell</i> , 2009, 137, 1148-1159.	13.5	410
18	NMDA-receptor regulation of substance P release from primary afferent nociceptors. <i>Nature</i> , 1997, 386, 721-724.	13.7	408

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19	Injury-induced mechanical hypersensitivity requires C-low threshold mechanoreceptors. <i>Nature</i> , 2009, 462, 651-655.	13.7	392
20	TRPV1-expressing primary afferents generate behavioral responses to pruritogens via multiple mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 11330-11335.	3.3	386
21	Transmitting Pain and Itch Messages: A Contemporary View of the Spinal Cord Circuits that Generate Gate Control. <i>Neuron</i> , 2014, 82, 522-536.	3.8	355
22	Immunohistochemical localization of GABAB receptors in the rat central nervous system. , 1999, 405, 299-321.		312
23	Differential origins of spinothalamic tract projections to medial and lateral thalamus in the rat. <i>Journal of Comparative Neurology</i> , 1979, 184, 107-125.	0.9	299
24	A heteromeric Texas coral snake toxin targets acid-sensing ion channels to produce pain. <i>Nature</i> , 2011, 479, 410-414.	13.7	295
25	Dorsal root ganglion macrophages contribute to both the initiation and persistence of neuropathic pain. <i>Nature Communications</i> , 2020, 11, 264.	5.8	286
26	Reversal of morphine and stimulus-produced analgesia by subtotal spinal cord lesions. <i>Pain</i> , 1977, 3, 43-56.	2.0	285
27	Parallel Pain Pathways Arise from Subpopulations of Primary Afferent Nociceptor. <i>Neuron</i> , 2005, 47, 787-793.	3.8	274
28	Spared nerve injury model of neuropathic pain in the mouse: a behavioral and anatomic analysis. <i>Journal of Pain</i> , 2003, 4, 465-470.	0.7	252
29	Dorsal Horn Parvalbumin Neurons Are Gate-Keepers of Touch-Evoked Pain after Nerve Injury. <i>Cell Reports</i> , 2015, 13, 1246-1257.	2.9	248
30	Selective spider toxins reveal a role for the Nav1.1 channel in mechanical pain. <i>Nature</i> , 2016, 534, 494-499.	13.7	239
31	Morphological characterization of substance P receptor-immunoreactive neurons in the rat spinal cord and trigeminal nucleus caudalis. <i>Journal of Comparative Neurology</i> , 1995, 356, 327-344.	0.9	238
32	Restriction of Transient Receptor Potential Vanilloid-1 to the Peptidergic Subset of Primary Afferent Neurons Follows Its Developmental Downregulation in Nonpeptidergic Neurons. <i>Journal of Neuroscience</i> , 2011, 31, 10119-10127.	1.7	223
33	Transneuronal Labeling of a Nociceptive Pathway, the Spino-(Trigemino-)Parabrachio-Amygdaloid, in the Rat. <i>Journal of Neuroscience</i> , 1997, 17, 3751-3765.	1.7	211
34	Morphine or U-50,488 suppresses fos protein-like immunoreactivity in the spinal cord and nucleus tractus solitarius evoked by a noxious visceral stimulus in the rat. <i>Journal of Comparative Neurology</i> , 1992, 315, 244-253.	0.9	205
35	The Origin of Brainstem Noradrenergic and Serotonergic Projections to the Spinal Cord Dorsal Horn in the Rat. <i>Somatosensory & Motor Research</i> , 1992, 9, 157-173.	0.4	203
36	Forebrain GABAergic Neuron Precursors Integrate into Adult Spinal Cord and Reduce Injury-Induced Neuropathic Pain. <i>Neuron</i> , 2012, 74, 663-675.	3.8	190

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37	Interneurons from Embryonic Development to Cell-Based Therapy. <i>Science</i> , 2014, 344, 1240622.	6.0	162
38	Innocuous, Not Noxious, Input Activates PKC δ Interneurons of the Spinal Dorsal Horn via Myelinated Afferent Fibers. <i>Journal of Neuroscience</i> , 2008, 28, 7936-7944.	1.7	158
39	Behavioral indices of ongoing pain are largely unchanged in male mice with tissue or nerve injury-induced mechanical hypersensitivity. <i>Pain</i> , 2011, 152, 990-1000.	2.0	154
40	Contribution of brainstem GABAergic circuitry to descending antinociceptive controls: I. GABA-immunoreactive projection neurons in the periaqueductal gray and nucleus raphe magnus. <i>Journal of Comparative Neurology</i> , 1990, 302, 370-377.	0.9	152
41	Pain Genes?: Natural Variation and Transgenic Mutants. <i>Annual Review of Neuroscience</i> , 2000, 23, 777-811.	5.0	148
42	Differential ATF3 expression in dorsal root ganglion neurons reveals the profile of primary afferents engaged by diverse noxious chemical stimuli. <i>Pain</i> , 2010, 150, 290-301.	2.0	136
43	Multiple opioid peptides and the modulation of pain: Immunohistochemical analysis of dynorphin and enkephalin in the trigeminal nucleus caudalis and spinal cord of the cat. <i>Journal of Comparative Neurology</i> , 1985, 240, 331-348.	0.9	127
44	Delta Opioid Receptors Presynaptically Regulate Cutaneous Mechanosensory Neuron Input to the Spinal Cord Dorsal Horn. <i>Neuron</i> , 2014, 81, 1312-1327.	3.8	127
45	Powerful antinociceptive effects of the cone snail venom-derived subtype-selective NMDA receptor antagonists conantokins G and T. <i>Pain</i> , 2003, 101, 109-116.	2.0	120
46	Excitatory Superficial Dorsal Horn Interneurons Are Functionally Heterogeneous and Required for the Full Behavioral Expression of Pain and Itch. <i>Neuron</i> , 2013, 78, 312-324.	3.8	118
47	Functional Divergence of Delta and Mu Opioid Receptor Organization in CNS Pain Circuits. <i>Neuron</i> , 2018, 98, 90-108.e5.	3.8	118
48	Pain behavior in the formalin test persists after ablation of the great majority of C-fiber nociceptors. <i>Pain</i> , 2010, 151, 422-429.	2.0	116
49	TMEM16C facilitates Na ⁺ -activated K ⁺ currents in rat sensory neurons and regulates pain processing. <i>Nature Neuroscience</i> , 2013, 16, 1284-1290.	7.1	115
50	Structures of the δ 2 receptor enable docking for bioactive ligand discovery. <i>Nature</i> , 2021, 600, 759-764.	13.7	113
51	Microcircuit Mechanisms through which Mediodorsal Thalamic Input to Anterior Cingulate Cortex Exacerbates Pain-Related Aversion. <i>Neuron</i> , 2019, 102, 944-959.e3.	3.8	106
52	Effects of central lesions on disorders produced by multiple dorsal rhizotomy in rats. <i>Experimental Neurology</i> , 1974, 42, 490-501.	2.0	101
53	VGLUT2 expression in primary afferent neurons is essential for normal acute pain and injury-induced heat hypersensitivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 22296-22301.	3.3	98
54	Transneuronal tracing of diverse CNS circuits by Cre-mediated induction of wheat germ agglutinin in transgenic mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 15148-15153.	3.3	91

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55	Immunoreactive Vasoactive Intestinal Polypeptide Is Concentrated in the Sacral Spinal Cord: A Possible Marker for Pelvic Visceral Afferent Fibers. <i>Somatosensory & Motor Research</i> , 1983, 1, 69-82.	2.2	88
56	Contribution of $\hat{1}\pm 2$ receptor subtypes to nerve injury-induced pain and its regulation by dexmedetomidine. <i>British Journal of Pharmacology</i> , 2001, 132, 1827-1836.	2.7	88
57	Primary Afferent and Spinal Cord Expression of Gastrin-Releasing Peptide: Message, Protein, and Antibody Concerns. <i>Journal of Neuroscience</i> , 2015, 35, 648-657.	1.7	83
58	Anatomical and functional analysis of aquaporin 1, a water channel in primary afferent neurons. <i>Pain</i> , 2007, 131, 8-20.	2.0	81
59	A locus and mechanism of action for associative morphine tolerance. <i>Nature Neuroscience</i> , 2000, 3, 47-53.	7.1	79
60	TrkB Signaling Is Required for Both the Induction and Maintenance of Tissue and Nerve Injury-Induced Persistent Pain. <i>Journal of Neuroscience</i> , 2009, 29, 5508-5515.	1.7	77
61	Contribution of brainstem GABAergic circuitry to descending antinociceptive controls: II. Electron microscopic immunocytochemical evidence of gabaergic control over the projection from the periaqueductal gray to the nucleus raphe magnus in the rat. <i>Journal of Comparative Neurology</i> , 1990, 302, 378-393.	0.9	75
62	Spinal Opioid Analgesia: How Critical Is the Regulation of Substance P Signaling?. <i>Journal of Neuroscience</i> , 1999, 19, 9642-9653.	1.7	74
63	Convergent neural representations of experimentally-induced acute pain in healthy volunteers: A large-scale fMRI meta-analysis. <i>Neuroscience and Biobehavioral Reviews</i> , 2020, 112, 300-323.	2.9	66
64	Distribution of glycine receptor immunoreactivity in the spinal cord of the rat: Cytochemical evidence for a differential glycinergic control of lamina I and V nociceptive neurons. <i>Journal of Comparative Neurology</i> , 1988, 278, 330-336.	0.9	64
65	Transplant-mediated enhancement of spinal cord GABAergic inhibition reverses paclitaxel-induced mechanical and heat hypersensitivity. <i>Pain</i> , 2015, 156, 1084-1091.	2.0	64
66	Immunoreactive Glutamic Acid Decarboxylase in the Trigeminal Nucleus Caudalis of the Cat: A Light- and Electron-Microscopic Analysis. <i>Somatosensory & Motor Research</i> , 1986, 4, 77-94.	2.2	62
67	Bulbospinal projections in the primate: A light and electron microscopic study of a pain modulating system. <i>Journal of Comparative Neurology</i> , 1986, 250, 311-323.	0.9	60
68	Morphological and functional properties distinguish the substance P and gastrin-releasing peptide subsets of excitatory interneuron in the spinal cord dorsal horn. <i>Pain</i> , 2019, 160, 442-462.	2.0	59
69	Ultrastructural analysis of dynorphin B-immunoreactive cells and terminals in the superficial dorsal horn of the deafferented spinal cord of the rat. <i>Journal of Comparative Neurology</i> , 1989, 281, 193-205.	0.9	57
70	Genetically expressed transneuronal tracer reveals direct and indirect serotonergic descending control circuits. <i>Journal of Comparative Neurology</i> , 2008, 507, 1990-2003.	0.9	57
71	The modality-specific contribution of peptidergic and non-peptidergic nociceptors is manifest at the level of dorsal horn nociresponsive neurons. <i>Journal of Physiology</i> , 2013, 591, 1097-1110.	1.3	57
72	GABAergic circuitry in the rostral ventral medulla of the rat and its relationship to descending antinociceptive controls. <i>Journal of Comparative Neurology</i> , 1991, 303, 316-328.	0.9	56

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73	Inputs to serotonergic neurons revealed by conditional viral transneuronal tracing. <i>Journal of Comparative Neurology</i> , 2009, 514, 145-160.	0.9	56
74	Profound reduction of somatic and visceral pain in mice by intrathecal administration of the anti-migraine drug, sumatriptan. <i>Pain</i> , 2008, 139, 533-540.	2.0	51
75	GABAergic cell transplants in the anterior cingulate cortex reduce neuropathic pain aversiveness. <i>Brain</i> , 2019, 142, 2655-2669.	3.7	49
76	Spinal cord projection neurons: a superficial, and also deep analysis. <i>Current Opinion in Physiology</i> , 2019, 11, 109-115.	0.9	47
77	The Fiber Caliber of 5-HT Immunoreactive Axons in the Dorsolateral Funiculus of the Spinal Cord of the Rat and Cat. <i>Somatosensory & Motor Research</i> , 1988, 5, 177-185.	2.2	43
78	Transplant restoration of spinal cord inhibitory controls ameliorates neuropathic itch. <i>Journal of Clinical Investigation</i> , 2014, 124, 3612-3616.	3.9	43
79	CT-guided injection of a TRPV1 agonist around dorsal root ganglia decreases pain transmission in swine. <i>Science Translational Medicine</i> , 2015, 7, 305ra145.	5.8	42
80	Regulatory T-cells inhibit microglia-induced pain hypersensitivity in female mice. <i>ELife</i> , 2021, 10, .	2.8	41
81	Insights into the development of opioid tolerance. <i>Pain</i> , 1995, 61, 349-352.	2.0	37
82	Lys49 myotoxin from the Brazilian lancehead pit viper elicits pain through regulated ATP release. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E2524-E2532.	3.3	37
83	Functional Synaptic Integration of Forebrain GABAergic Precursors into the Adult Spinal Cord. <i>Journal of Neuroscience</i> , 2016, 36, 11634-11645.	1.7	36
84	Nav1.1 inhibition can reduce visceral hypersensitivity. <i>JCI Insight</i> , 2018, 3, .	2.3	34
85	Simultaneous Measurement of Extracellular Morphine and Serotonin in Brain Tissue and CSF by Microdialysis in Awake Rats. <i>Journal of Neurochemistry</i> , 1992, 58, 1773-1781.	2.1	31
86	Synergistic antipruritic effects of gamma aminobutyric acid A and B agonists in a mouse model of atopic dermatitis. <i>Journal of Allergy and Clinical Immunology</i> , 2017, 140, 454-464.e2.	1.5	31
87	Immunoreactive pro-enkephalin and pro-dynorphin products are differentially distributed within the nucleus of the solitary tract of the rat. <i>Journal of Comparative Neurology</i> , 1984, 230, 614-619.	0.9	30
88	Neurochemical Characterization of Extracellular Serotonin in the Rostral Ventromedial Medulla and Its Modulation by Noxious Stimuli. <i>Journal of Neurochemistry</i> , 1995, 65, 578-589.	2.1	29
89	Primary Afferent-Derived BDNF Contributes Minimally to the Processing of Pain and Itch. <i>ENeuro</i> , 2018, 5, ENEURO.0402-18.2018.	0.9	29
90	Contribution of colony-stimulating factor 1 to neuropathic pain. <i>Pain Reports</i> , 2021, 6, e883.	1.4	27

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91	Peripheral and central neuronal ATF3 precedes CD4+ T-cell infiltration in EAE. <i>Experimental Neurology</i> , 2016, 283, 224-234.	2.0	24
92	Pain and itch processing by subpopulations of molecularly diverse spinal and trigeminal projection neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	24
93	Toward Better Pain Control. <i>Scientific American</i> , 2006, 294, 60-67.	1.0	23
94	Cell transplants to treat the "disease" of neuropathic pain and itch. <i>Pain</i> , 2016, 157, S42-S47.	2.0	22
95	GABA-immunoreactive boutons contact identified OFF and ON cells in the nucleus raphe magnus. <i>Journal of Comparative Neurology</i> , 1997, 378, 196-204.	0.9	20
96	Contribution of the Reelin signaling pathways to nociceptive processing. <i>European Journal of Neuroscience</i> , 2008, 27, 523-537.	1.2	20
97	Contribution of dorsal horn CGRP-expressing interneurons to mechanical sensitivity. <i>ELife</i> , 2021, 10, .	2.8	20
98	Long-term, dynamic synaptic reorganization after GABAergic precursor cell transplantation into adult mouse spinal cord. <i>Journal of Comparative Neurology</i> , 2018, 526, 480-495.	0.9	19
99	Pain relief by supraspinal gabapentin requires descending noradrenergic inhibitory controls. <i>Pain Reports</i> , 2018, 3, e659.	1.4	19
100	Targeting Pain Where It Resides In the Brain. <i>Science Translational Medicine</i> , 2011, 3, 65ps1.	5.8	18
101	GABAergic regulation of noradrenergic spinal projection neurons of the A5 cell group in the rat: An electron microscopic analysis. <i>Journal of Comparative Neurology</i> , 1993, 330, 557-570.	0.9	17
102	Structure-Based Design of a Chemical Probe Set for the 5-HT _{5A} Serotonin Receptor. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 4201-4217.	2.9	17
103	Sciatic nerve transection triggers release and intercellular transfer of a genetically expressed macromolecular tracer in dorsal root ganglia. <i>Journal of Comparative Neurology</i> , 2011, 519, 2648-2657.	0.9	15
104	Pain physiology: basic science. <i>Canadian Journal of Anaesthesia</i> , 2002, 49, R1-R3.	0.7	14
105	Olfactory ensheathing glia express aquaporin 1. <i>Journal of Comparative Neurology</i> , 2010, 518, 4329-4341.	0.9	14
106	Genetic priming of sensory neurons in mice that overexpress PAR2 enhances allergen responsiveness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	14
107	A New Way to Lose Your Nerve. <i>Science of Aging Knowledge Environment: SAGE KE</i> , 2004, 2004, pe15-pe15.	0.9	13
108	Brain Responses to Noxious Stimuli in Patients With Chronic Pain. <i>JAMA Network Open</i> , 2021, 4, e2032236.	2.8	12

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109	Neuronal aromatase expression in pain processing regions of the medullary and spinal cord dorsal horn. <i>Journal of Comparative Neurology</i> , 2017, 525, 3414-3428.	0.9	10
110	Rebuilding CNS inhibitory circuits to control chronic neuropathic pain and itch. <i>Progress in Brain Research</i> , 2017, 231, 87-105.	0.9	10
111	Ablation of spinal cord estrogen receptor α -expressing interneurons reduces chemically induced modalities of pain and itch. <i>Journal of Comparative Neurology</i> , 2020, 528, 1629-1643.	0.9	10
112	TMEM16C is involved in thermoregulation and protects rodent pups from febrile seizures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2023342118.	3.3	8
113	Mice Lacking Serotonin 2C Receptors Have increased Affective Responses to Aversive Stimuli. <i>PLoS ONE</i> , 2015, 10, e0142906.	1.1	8
114	Structural imaging studies of patients with chronic pain: an anatomical likelihood estimate meta-analysis. <i>Pain</i> , 2023, 164, e10-e24.	2.0	8
115	Hippocalcin-like 4, a neural calcium sensor, has a limited contribution to pain and itch processing. <i>PLoS ONE</i> , 2020, 15, e0226289.	1.1	6
116	History of Spinal Cord "Pain" Pathways Including the Pathways Not Taken. <i>Frontiers in Pain Research</i> , 0, 3, .	0.9	5
117	Presynaptic Inputs to Any CNS Projection Neuron Identified by Dual Recombinant Virus Infection. <i>PLoS ONE</i> , 2015, 10, e0140681.	1.1	4
118	Reviews: Topical, systematic and once again, comprehensive. <i>Pain</i> , 2006, 124, 237.	2.0	3
119	An ACVR1 activating mutation causes neuropathic pain and sensory neuron hyperexcitability in humans. <i>Pain</i> , 2022, Publish Ahead of Print, .	2.0	3
120	Presynaptic control of nociceptor signalling: Differential influence of Mu Opioid and GABAergic Systems. <i>Pain Research and Management</i> , 2000, 5, 185-196.	0.7	2
121	Mispositioned Neurokinin-1 Receptor-Expressing Neurons Underlie Heat Hyperalgesia in Disabled-1 Mutant Mice. <i>ENeuro</i> , 2019, 6, ENEURO.0131-19.2019.	0.9	2
122	Basic Mechanisms and Pathophysiology. , 2010, , 14-23.		1
123	Hospital merger leaves clinical science intact. <i>Nature</i> , 1999, 401, 842-842.	13.7	0
124	In Memoriam Jean-Marie Besson 1938-2014. <i>European Journal of Pain</i> , 2015, 19, 871-876.	1.4	0
125	Chemogenetic management of neuropathic pain. <i>Brain</i> , 2017, 140, 2522-2525.	3.7	0
126	Hippocalcin-like 4, a neural calcium sensor, has a limited contribution to pain and itch processing. , 2020, 15, e0226289.		0

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127	Hippocalcin-like 4, a neural calcium sensor, has a limited contribution to pain and itch processing. , 2020, 15, e0226289.		0
128	Hippocalcin-like 4, a neural calcium sensor, has a limited contribution to pain and itch processing. , 2020, 15, e0226289.		0
129	Hippocalcin-like 4, a neural calcium sensor, has a limited contribution to pain and itch processing. , 2020, 15, e0226289.		0