

Rohini Kuner

List of Publications by Year in descending order

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100
papers

7,848
citations

53794

45
h-index

54911

84
g-index

113
all docs

113
docs citations

113
times ranked

9132
citing authors

#	ARTICLE	IF	CITATIONS
1	Central mechanisms of pathological pain. <i>Nature Medicine</i> , 2010, 16, 1258-1266.	30.7	629
2	Neuropathic Pain: From Mechanisms to Treatment. <i>Physiological Reviews</i> , 2021, 101, 259-301.	28.8	546
3	Cannabinoids mediate analgesia largely via peripheral type 1 cannabinoid receptors in nociceptors. <i>Nature Neuroscience</i> , 2007, 10, 870-879.	14.8	504
4	Structural plasticity and reorganisation in chronic pain. <i>Nature Reviews Neuroscience</i> , 2017, 18, 20-30.	10.2	419
5	Plexin-B1 Directly Interacts with PDZ-RhoGEF/LARG to Regulate RhoA and Growth Cone Morphology. <i>Neuron</i> , 2002, 35, 51-63.	8.1	338
6	A New Population of Parvocellular Oxytocin Neurons Controlling Magnocellular Neuron Activity and Inflammatory Pain Processing. <i>Neuron</i> , 2016, 89, 1291-1304.	8.1	314
7	Synaptic plasticity in pathological pain. <i>Trends in Neurosciences</i> , 2014, 37, 343-355.	8.6	191
8	The AMPA Receptor Subunits GluR-A and GluR-B Reciprocally Modulate Spinal Synaptic Plasticity and Inflammatory Pain. <i>Neuron</i> , 2004, 44, 637-650.	8.1	188
9	The serine protease inhibitor SerpinA3N attenuates neuropathic pain by inhibiting T cell-derived leukocyte elastase. <i>Nature Medicine</i> , 2015, 21, 518-523.	30.7	182
10	Conditional gene deletion in primary nociceptive neurons of trigeminal ganglia and dorsal root ganglia. <i>Genesis</i> , 2004, 38, 122-129.	1.6	179
11	Hematopoietic colony-stimulating factors mediate tumor-nerve interactions and bone cancer pain. <i>Nature Medicine</i> , 2009, 15, 802-807.	30.7	175
12	Cellular Circuits in the Brain and Their Modulation in Acute and Chronic Pain. <i>Physiological Reviews</i> , 2021, 101, 213-258.	28.8	155
13	Plexin-B1/RhoGEF-mediated RhoA activation involves the receptor tyrosine kinase ErbB-2. <i>Journal of Cell Biology</i> , 2004, 165, 869-880.	5.2	146
14	Pain hypersensitivity mechanisms at a glance. <i>DMM Disease Models and Mechanisms</i> , 2013, 6, 889-895.	2.4	126
15	A Key Role for gp130 Expressed on Peripheral Sensory Nerves in Pathological Pain. <i>Journal of Neuroscience</i> , 2009, 29, 13473-13483.	3.6	125
16	A pathway from midcingulate cortex to posterior insula gates nociceptive hypersensitivity. <i>Nature Neuroscience</i> , 2017, 20, 1591-1601.	14.8	125
17	Synaptic scaffolding protein Homer1a protects against chronic inflammatory pain. <i>Nature Medicine</i> , 2006, 12, 677-681.	30.7	123
18	Studying ongoing and spontaneous pain in rodents – challenges and opportunities. <i>European Journal of Neuroscience</i> , 2014, 39, 1881-1890.	2.6	121

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19	Nuclear Calcium Signaling in Spinal Neurons Drives a Genomic Program Required for Persistent Inflammatory Pain. <i>Neuron</i> , 2013, 77, 43-57.	8.1	114
20	Plexin-B2, But Not Plexin-B1, Critically Modulates Neuronal Migration and Patterning of the Developing Nervous System In Vivo. <i>Journal of Neuroscience</i> , 2007, 27, 6333-6347.	3.6	105
21	A Functional Role for VEGFR1 Expressed in Peripheral Sensory Neurons in Cancer Pain. <i>Cancer Cell</i> , 2015, 27, 780-796.	16.8	97
22	Noncoding RNAs: key molecules in understanding and treating pain. <i>Trends in Molecular Medicine</i> , 2014, 20, 437-448.	6.7	94
23	Gamma oscillations in somatosensory cortex recruit prefrontal and descending serotonergic pathways in aversion and nociception. <i>Nature Communications</i> , 2019, 10, 983.	12.8	94
24	Late-onset motoneuron disease caused by a functionally modified AMPA receptor subunit. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 5826-5831.	7.1	89
25	Molecular, Cellular and Circuit Basis of Cholinergic Modulation of Pain. <i>Neuroscience</i> , 2018, 387, 135-148.	2.3	85
26	Oligodendrocyte ablation triggers central pain independently of innate or adaptive immune responses in mice. <i>Nature Communications</i> , 2014, 5, 5472.	12.8	83
27	A critical role for Piezo2 channels in the mechanotransduction of mouse proprioceptive neurons. <i>Scientific Reports</i> , 2016, 6, 25923.	3.3	82
28	Presynaptically Localized Cyclic GMP-Dependent Protein Kinase 1 Is a Key Determinant of Spinal Synaptic Potentiation and Pain Hypersensitivity. <i>PLoS Biology</i> , 2012, 10, e1001283.	5.6	82
29	Presynaptic GABAergic inhibition regulated by BDNF contributes to neuropathic pain induction. <i>Nature Communications</i> , 2014, 5, 5331.	12.8	76
30	The Cannabinoid Receptor CB1 Interacts with the WAVE1 Complex and Plays a Role in Actin Dynamics and Structural Plasticity in Neurons. <i>PLoS Biology</i> , 2015, 13, e1002286.	5.6	75
31	Nitric Oxide Synthase (NOS)-Interacting Protein Interacts with Neuronal NOS and Regulates Its Distribution and Activity. <i>Journal of Neuroscience</i> , 2004, 24, 10454-10465.	3.6	72
32	CXCL10 and CCL21 Promote Migration of Pancreatic Cancer Cells Toward Sensory Neurons and Neural Remodeling in Tumors in Mice, Associated With Pain in Patients. <i>Gastroenterology</i> , 2020, 159, 665-681.e13.	1.3	72
33	microRNAs in nociceptive circuits as predictors of future clinical applications. <i>Frontiers in Molecular Neuroscience</i> , 2013, 6, 33.	2.9	70
34	Plexin family members demonstrate non-redundant expression patterns in the developing mouse nervous system: an anatomical basis for morphogenetic effects of Sema4D during development. <i>European Journal of Neuroscience</i> , 2004, 19, 2622-2632.	2.6	68
35	Voluntary and evoked behavioral correlates in neuropathic pain states under different social housing conditions. <i>Molecular Pain</i> , 2016, 12, 174480691665663.	2.1	68
36	Wnt-Fzd Signaling Sensitizes Peripheral Sensory Neurons via Distinct Noncanonical Pathways. <i>Neuron</i> , 2014, 83, 104-121.	8.1	67

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37	Neocortical circuits in pain and pain relief. <i>Nature Reviews Neuroscience</i> , 2021, 22, 458-471.	10.2	63
38	Roles of the AMPA Receptor Subunit GluA1 but Not GluA2 in Synaptic Potentiation and Activation of ERK in the Anterior Cingulate Cortex. <i>Molecular Pain</i> , 2009, 5, 1744-8069-5-46.	2.1	61
39	Genetic dissection of plexin signaling in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2194-2199.	7.1	61
40	Early-onset treadmill training reduces mechanical allodynia and modulates calcitonin gene-related peptide fiber density in lamina III/IV in a mouse model of spinal cord contusion injury. <i>Pain</i> , 2016, 157, 687-697.	4.2	60
41	An Improved Behavioural Assay Demonstrates That Ultrasound Vocalizations Constitute a Reliable Indicator of Chronic Cancer Pain and Neuropathic Pain. <i>Molecular Pain</i> , 2010, 6, 1744-8069-6-18.	2.1	59
42	Small-molecule inhibition of STOML3 oligomerization reverses pathological mechanical hypersensitivity. <i>Nature Neuroscience</i> , 2017, 20, 209-218.	14.8	59
43	Genome-wide identification and functional analyses of microRNA signatures associated with cancer pain. <i>EMBO Molecular Medicine</i> , 2013, 5, 1740-1758.	6.9	53
44	Peripheral calcium-permeable AMPA receptors regulate chronic inflammatory pain in mice. <i>Journal of Clinical Investigation</i> , 2011, 121, 1608-1623.	8.2	53
45	TorsinA protects against oxidative stress in COS-1 and PC12 cells. <i>Neuroscience Letters</i> , 2003, 350, 153-156.	2.1	48
46	Activity-dependent potentiation of calcium signals in spinal sensory networks in inflammatory pain states. <i>Pain</i> , 2008, 140, 358-367.	4.2	48
47	Neuropathic pain caused by miswiring and abnormal end organ targeting. <i>Nature</i> , 2022, 606, 137-145.	27.8	46
48	Spinal excitatory mechanisms of pathological pain. <i>Pain</i> , 2015, 156, S11-S17.	4.2	45
49	Metabolomic signature of type 1 diabetes-induced sensory loss and nerve damage in diabetic neuropathy. <i>Journal of Molecular Medicine</i> , 2019, 97, 845-854.	3.9	44
50	In Vivo&/em> SiRNA Transfection and Gene Knockdown in Spinal Cord via&/em> Rapid Noninvasive Lumbar Intrathecal Injections in Mice. <i>Journal of Visualized Experiments</i> , 2014, .	0.3	43
51	Voluntary and evoked behavioral correlates in inflammatory pain conditions under different social housing conditions. <i>Pain Reports</i> , 2016, 1, e564.	2.7	43
52	Sources of Individual Variability: Mirnas That Predispose to Neuropathic Pain Identified Using Genome-Wide Sequencing. <i>Molecular Pain</i> , 2014, 10, 1744-8069-10-22.	2.1	41
53	A role for Kalirin-7 in nociceptive sensitization via activity-dependent modulation of spinal synapses. <i>Nature Communications</i> , 2015, 6, 6820.	12.8	39
54	The semaphorin 4Dplexin&/em> signaling complex regulates dendritic and axonal complexity in developing neurons via diverse pathways. <i>European Journal of Neuroscience</i> , 2009, 30, 1193-1208.	2.6	38

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55	Hematopoietic colony-stimulating factors: new players in tumor-nerve interactions. <i>Journal of Molecular Medicine</i> , 2011, 89, 321-329.	3.9	37
56	A functional role for semaphorin 4D/plexin B1 interactions in epithelial branching morphogenesis during organogenesis. <i>Development (Cambridge)</i> , 2008, 135, 3333-3343.	2.5	34
57	Spinal Wnt5a Plays a Key Role in Spinal Dendritic Spine Remodeling in Neuropathic and Inflammatory Pain Models and in the Proalgesic Effects of Peripheral Wnt3a. <i>Journal of Neuroscience</i> , 2020, 40, 6664-6677.	3.6	34
58	Evoked hypoalgesia is accompanied by tonic pain and immune cell infiltration in the dorsal root ganglia at late stages of diabetic neuropathy in mice. <i>Molecular Pain</i> , 2018, 14, 174480691881797.	2.1	32
59	Functional characterization of a mouse model for central post-stroke pain. <i>Molecular Pain</i> , 2016, 12, 174480691662904.	2.1	30
60	miR-34c-5p functions as pronociceptive microRNA in cancer pain by targeting Cav2.3 containing calcium channels. <i>Pain</i> , 2017, 158, 1765-1779.	4.2	30
61	Clinically Actionable Strategies for Studying Neural Influences in Cancer. <i>Cancer Cell</i> , 2020, 38, 11-14.	16.8	30
62	The impact of Semaphorin 4C/Plexin-B2 signaling on fear memory via remodeling of neuronal and synaptic morphology. <i>Molecular Psychiatry</i> , 2021, 26, 1376-1398.	7.9	30
63	Hypoxia-inducible factor 1 α protects peripheral sensory neurons from diabetic peripheral neuropathy by suppressing accumulation of reactive oxygen species.. <i>Journal of Molecular Medicine</i> , 2018, 96, 1395-1405.	3.9	29
64	TorsinA, the gene linked to early-onset dystonia, is upregulated by the dopaminergic toxin MPTP in mice. <i>Neuroscience Letters</i> , 2004, 355, 126-130.	2.1	28
65	Transcriptional Mechanisms Underlying Sensitization of Peripheral Sensory Neurons by Granulocyte-/Granulocyte-Macrophage Colony Stimulating Factors. <i>Molecular Pain</i> , 2013, 9, 1744-8069-9-48.	2.1	28
66	A common ground for pain and depression. <i>Nature Neuroscience</i> , 2019, 22, 1612-1614.	14.8	28
67	Therapeutic potential for leukocyte elastase in chronic pain states harboring a neuropathic component. <i>Pain</i> , 2017, 158, 2243-2258.	4.2	27
68	SUMOylation of Enzymes and Ion Channels in Sensory Neurons Protects against Metabolic Dysfunction, Neuropathy, and Sensory Loss in Diabetes. <i>Neuron</i> , 2020, 107, 1141-1159.e7.	8.1	27
69	Dissecting the functional significance of endothelin A receptors in peripheral nociceptors in vivo via conditional gene deletion. <i>Pain</i> , 2010, 148, 206-214.	4.2	26
70	A novel biological role for the phospholipid lysophosphatidylinositol in nociceptive sensitization via activation of diverse G-protein signalling pathways in sensory nerves in vivo. <i>Pain</i> , 2013, 154, 2801-2812.	4.2	25
71	Neuron-specific biomarkers predict hypo- and hyperalgesia in individuals with diabetic peripheral neuropathy. <i>Diabetologia</i> , 2021, 64, 2843-2855.	6.3	25
72	Structure-function relationships in peripheral nerve contributions to diabetic peripheral neuropathy. <i>Pain</i> , 2019, 160, S29-S36.	4.2	24

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73	Semaphorin 4C Plexin-B2 signaling in peripheral sensory neurons is pronociceptive in a model of inflammatory pain. <i>Nature Communications</i> , 2017, 8, 176.	12.8	23
74	Mice lacking Plexin-B3 display normal CNS morphology and behaviour. <i>Molecular and Cellular Neurosciences</i> , 2009, 42, 372-381.	2.2	19
75	Future directions in preclinical and translational cancer neuroscience research. <i>Nature Cancer</i> , 2020, 1, 1027-1031.	13.2	19
76	Neurobiology of brain oscillations in acute and chronic pain. <i>Trends in Neurosciences</i> , 2021, 44, 629-642.	8.6	18
77	Epigenetic control of hypersensitivity in chronic inflammatory pain by the de novo DNA methyltransferase Dnmt3a2. <i>Molecular Pain</i> , 2019, 15, 174480691982746.	2.1	14
78	Repetitive non-invasive prefrontal stimulation reverses neuropathic pain via neural remodelling in mice. <i>Progress in Neurobiology</i> , 2021, 201, 102009.	5.7	13
79	Unravelling Spinal Circuits of Pain and Mechanical Allodynia. <i>Neuron</i> , 2015, 87, 673-675.	8.1	12
80	Loss of POMC-mediated antinociception contributes to painful diabetic neuropathy. <i>Nature Communications</i> , 2021, 12, 426.	12.8	12
81	A genome-wide screen reveals microRNAs in peripheral sensory neurons driving painful diabetic neuropathy. <i>Pain</i> , 2021, 162, 1334-1351.	4.2	12
82	Mechanisms of Disease: Motoneuron Disease Aggravated by Transgenic Expression of a Functionally Modified AMPA Receptor Subunit. <i>Annals of the New York Academy of Sciences</i> , 2005, 1053, 269-286.	3.8	12
83	Suppression of neuropathic pain and comorbidities by recurrent cycles of repetitive transcranial direct current motor cortex stimulation in mice. <i>Scientific Reports</i> , 2021, 11, 9735.	3.3	11
84	A mouse model for pain and neuroplastic changes associated with pancreatic ductal adenocarcinoma. <i>Pain</i> , 2017, 158, 1609-1621.	4.2	9
85	Neurogenesis of medium spiny neurons in the nucleus accumbens continues into adulthood and is enhanced by pathological pain. <i>Molecular Psychiatry</i> , 2021, 26, 4616-4632.	7.9	9
86	Presynaptic NMDARs on spinal nociceptor terminals state-dependently modulate synaptic transmission and pain. <i>Nature Communications</i> , 2022, 13, 728.	12.8	9
87	Characterization of experimental diabetic neuropathy using multicontrast magnetic resonance neurography at ultra high field strength. <i>Scientific Reports</i> , 2020, 10, 7593.	3.3	8
88	Plexin-B2 controls the timing of differentiation and the motility of cerebellar granule neurons. <i>ELife</i> , 2021, 10, .	6.0	8
89	A checkpoint to pain. <i>Nature Neuroscience</i> , 2017, 20, 897-899.	14.8	7
90	Mechanisms of Disease: Motoneuron Disease Aggravated by Transgenic Expression of a Functionally Modified AMPA Receptor Subunit. <i>Annals of the New York Academy of Sciences</i> , 2005, 1053, 269-286.	3.8	5

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91	Peripheral Kappa Opioid Receptor Signaling Takes on a Central Role. <i>Neuron</i> , 2018, 99, 1102-1104.	8.1	5
92	Organic anion transporter 1 is an HDAC4-regulated mediator of nociceptive hypersensitivity in mice. <i>Nature Communications</i> , 2022, 13, 875.	12.8	5
93	Neurogenesis in the adult brain functionally contributes to the maintenance of chronic neuropathic pain. <i>Scientific Reports</i> , 2021, 11, 18549.	3.3	4
94	Meet PAIN Pictured. <i>Pain</i> , 2015, 156, 3.	4.2	3
95	The plastic spinal cord: functional and structural plasticity in the transition from acute to chronic pain. <i>E-Neuroforum</i> , 2017, 23, 137-143.	0.1	3
96	Sounding out pain. <i>Science</i> , 2022, 377, 155-156.	12.6	2
97	Das plastische Rückenmark: funktionelle und strukturelle Plastizität bei der Chronifizierung von Schmerzen. <i>E-Neuroforum</i> , 2017, 23, 179-185.	0.1	1
98	Cortex: Unravelling the final frontier in pain. <i>Canadian Journal of Pain</i> , 2017, 1, 3-3.	1.7	0
99	Locus revealed: Painlessness via loss of NaV1.7 at central terminals of sensory neurons. <i>Neuron</i> , 2021, 109, 1413-1416.	8.1	0
100	Brain-based interventions for chronic pain. <i>Neuroforum</i> , 2022, .	0.3	0