Gregory Dussor

List of Publications by Year
in descending order

89 papers	5,583 citations	81900 39 h-index	91884 69 g-index
102 all docs	102 docs citations	102 times ranked	5181 citing authors

#	Article	IF	Citations
1	Unmasking the tonic-aversive state in neuropathic pain. Nature Neuroscience, 2009, 12, 1364-1366.	14.8	490
2	Comparative transcriptome profiling of the human and mouse dorsal root ganglia: an RNA-seqâ€"based resource for pain and sensory neuroscience research. Pain, 2018, 159, 1325-1345.	4.2	306
3	Electrophysiological and transcriptomic correlates of neuropathic pain in human dorsal root ganglion neurons. Brain, 2019, 142, 1215-1226.	7.6	198
4	Targeting Adenosine Monophosphate-Activated Protein Kinase (AMPK) in Preclinical Models Reveals a Potential Mechanism for the Treatment of Neuropathic Pain. Molecular Pain, 2011, 7, 1744-8069-7-70.	2.1	189
5	Triptanâ€induced latent sensitization: A possible basis for medication overuse headache. Annals of Neurology, 2010, 67, 325-337.	5.3	181
6	Spatial transcriptomics of dorsal root ganglia identifies molecular signatures of human nociceptors. Science Translational Medicine, 2022, 14, eabj8186.	12.4	164
7	The â€˜headache treeâ€™ via umbellulone and TRPA1 activates the trigeminovascular system. Brain, 2012, 135, 376-390.	7.6	163
8	Resveratrol Engages AMPK to Attenuate ERK and mTOR Signaling in Sensory Neurons and Inhibits Incision-Induced Acute and Chronic Pain. Molecular Pain, 2012, 8, 1744-8069-8-5.	2.1	146
9	A phenotypically restricted set of primary afferent nerve fibers innervate the bone versus skin: Therapeutic opportunity for treating skeletal pain. Bone, 2010, 46, 306-313.	2.9	136
10	Neurovascular contributions to migraine: Moving beyond vasodilation. Neuroscience, 2016, 338, 130-144.	2.3	119
11	Dural Calcitonin Gene-Related Peptide Produces Female-Specific Responses in Rodent Migraine Models. Journal of Neuroscience, 2019, 39, 4323-4331.	3.6	116
12	Sensitization of Dural Afferents Underlies Migraine-Related Behavior following Meningeal Application of Interleukin-6 (IL-6). Molecular Pain, 2012, 8, 1744-8069-8-6.	2.1	112
13	Stretchable multichannel antennas in soft wireless optoelectronic implants for optogenetics. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E8169-E8177.	7.1	111
14	Activation of TRPA1 on dural afferents: A potential mechanism of headache pain. Pain, 2012, 153, 1949-1958.	4.2	108
15	The antidiabetic drug metformin prevents and reverses neuropathic pain and spinal cord microglial activation in male but not female mice. Pharmacological Research, 2019, 139, 1-16.	7.1	108
16	The MNKâ€"eIF4E Signaling Axis Contributes to Injury-Induced Nociceptive Plasticity and the Development of Chronic Pain. Journal of Neuroscience, 2017, 37, 7481-7499.	3.6	106
17	Triptan-induced enhancement of neuronal nitric oxide synthase in trigeminal ganglion dural afferents underlies increased responsiveness to potential migraine triggers. Brain, 2010, 133, 2475-2488.	7.6	103
18	Dural afferents express acid-sensing ion channels: A role for decreased meningeal pH in migraine headache. Pain, 2011, 152, 106-113.	4.2	95

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19	Nociceptor Translational Profiling Reveals the Ragulator-Rag GTPase Complex as a Critical Generator of Neuropathic Pain. Journal of Neuroscience, 2019, 39, 393-411.	3.6	95
20	Parthenolide inhibits nociception and neurogenic vasodilatation in the trigeminovascular system by targeting the TRPA1 channel. Pain, 2013, 154, 2750-2758.	4.2	93
21	Angiotensin II Triggers Peripheral Macrophage-to-Sensory Neuron Redox Crosstalk to Elicit Pain. Journal of Neuroscience, 2018, 38, 7032-7057.	3.6	92
22	mTORC1 inhibition induces pain via IRS-1-dependent feedback activation of ERK. Pain, 2013, 154, 1080-1091.	4.2	79
23	Targeting TRP Channels For Novel Migraine Therapeutics. ACS Chemical Neuroscience, 2014, 5, 1085-1096.	3.5	77
24	TRPM8 and Migraine. Headache, 2016, 56, 1406-1417.	3.9	69
25	TRP Channels and Migraine: Recent Developments and New Therapeutic Opportunities. Pharmaceuticals, 2019, 12, 54.	3.8	68
26	Pharmacological target-focused transcriptomic analysis of native vs cultured human and mouse dorsal root ganglia. Pain, 2020, 161, 1497-1517.	4.2	67
27	Differences between Dorsal Root and Trigeminal Ganglion Nociceptors in Mice Revealed by Translational Profiling. Journal of Neuroscience, 2019, 39, 6829-6847.	3.6	66
28	Spinal Dopaminergic Projections Control the Transition to Pathological Pain Plasticity via a D₁/D₅-Mediated Mechanism. Journal of Neuroscience, 2015, 35, 6307-6317.	3.6	63
29	Activation of TRPV4 on dural afferents produces headache-related behavior in a preclinical rat model. Cephalalgia, 2011, 31, 1595-1600.	3.9	62
30	<scp>pH</scp>â€Evoked Dural Afferent Signaling Is Mediated by <scp>ASIC3</scp> and Is Sensitized by Mast Cell Mediators. Headache, 2013, 53, 1250-1261.	3.9	62
31	A Critical Role for Dopamine D5 Receptors in Pain Chronicity in Male Mice. Journal of Neuroscience, 2018, 38, 379-397.	3.6	62
32	Type I Interferons Act Directly on Nociceptors to Produce Pain Sensitization: Implications for Viral Infection-Induced Pain. Journal of Neuroscience, 2020, 40, 3517-3532.	3.6	62
33	Non-invasive dural stimulation in mice: A novel preclinical model of migraine. Cephalalgia, 2019, 39, 123-134.	3.9	61
34	Local Translation and Retrograde Axonal Transport of CREB Regulates IL-6-Induced Nociceptive Plasticity. Molecular Pain, 2014, 10, 1744-8069-10-45.	2.1	58
35	Protease-activated receptor 2 activation is sufficient to induce the transition to a chronic pain state. Pain, 2015, 156, 859-867.	4.2	57
36	Prolactin Regulates Pain Responses via a Female-Selective Nociceptor-Specific Mechanism. IScience, 2019, 20, 449-465.	4.1	56

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37	Transcriptomic sex differences in sensory neuronal populations of mice. Scientific Reports, 2020, 10, 15278.	3.3	56
38	ASICs as therapeutic targets for migraine. Neuropharmacology, 2015, 94, 64-71.	4.1	55
39	Meningeal transient receptor potential channel M8 activation causes cutaneous facial and hindpaw allodynia in a preclinical rodent model of headache. Cephalalgia, 2016, 36, 185-193.	3.9	49
40	Adenosine Monophosphate-activated Protein Kinase (AMPK) Activators For the Prevention, Treatment and Potential Reversal of Pathological Pain. Current Drug Targets, 2016, 17, 908-920.	2.1	49
41	Meningeal <scp>CGRP</scp>â€Prolactin Interaction Evokes Femaleâ€Specific Migraine Behavior. Annals of Neurology, 2021, 89, 1129-1144.	5.3	46
42	Dural stimulation in rats causes brain-derived neurotrophic factorâ€“dependent priming to subthreshold stimuli including a migraine trigger. Pain, 2016, 157, 2722-2730.	4.2	45
43	Protease activated receptor 2 (PAR2) activation causes migraine-like pain behaviors in mice. Cephalalgia, 2019, 39, 111-122.	3.9	42
44	Transient receptor potential canonical 5 mediates inflammatory mechanical and spontaneous pain in mice. Science Translational Medicine, 2021, 13, .	12.4	41
45	Pharmacological activation of AMPK inhibits incision-evoked mechanical hypersensitivity and the development of hyperalgesic priming in mice. Neuroscience, 2017, 359, 119-129.	2.3	40
46	Reversal of peripheral nerve injury-induced neuropathic pain and cognitive dysfunction via genetic and tomivosertib targeting of MNK. Neuropsychopharmacology, 2020, 45, 524-533.	5.4	40
47	Sex Differences in Nociceptor Translatomes Contribute to Divergent Prostaglandin Signaling in Male and Female Mice. Biological Psychiatry, 2022, 91, 129-140.	1.3	40
48	A Female-Specific Role for Calcitonin Gene-Related Peptide (CGRP) in Rodent Pain Models. Journal of Neuroscience, 2022, 42, 1930-1944.	3.6	40
49	Transcriptome Analysis of the Human Tibial Nerve Identifies Sexually Dimorphic Expression of Genes Involved in Pain, Inflammation, and Neuro-Immunity. Frontiers in Molecular Neuroscience, 2019, 12, 37.	2.9	39
50	Spinal Inhibition of P2XR or p38 Signaling Disrupts Hyperalgesic Priming in Male, but not Female, Mice. Neuroscience, 2018, 385, 133-142.	2.3	38
51	Ion Channels and Migraine. Headache, 2014, 54, 619-639.	3.9	36
52	Meningeal Afferent Signaling and the Pathophysiology of Migraine. Progress in Molecular Biology and Translational Science, 2015, 131, 537-564.	1.7	35
53	A pharmacological interactome between COVID-19 patient samples and human sensory neurons reveals potential drivers of neurogenic pulmonary dysfunction. Brain, Behavior, and Immunity, 2020, 89, 559-568.	4.1	35
54	Prolactin receptor expression in mouse dorsal root ganglia neuronal subtypes is sexâ€dependent. Journal of Neuroendocrinology, 2019, 31, e12759.	2.6	34

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55	Neuroendocrine Mechanisms Governing Sex Differences in Hyperalgesic Priming Involve Prolactin Receptor Sensory Neuron Signaling. Journal of Neuroscience, 2020, 40, 7080-7090.	3.6	34
56	eIF4E Phosphorylation Influences Bdnf mRNA Translation in Mouse Dorsal Root Ganglion Neurons. Frontiers in Cellular Neuroscience, 2018, 12, 29.	3.7	33
57	Repetitive stress in mice causes migraine-like behaviors and calcitonin gene-related peptide-dependent hyperalgesic priming to a migraine trigger. Pain, 2020, 161, 2539-2550.	4.2	33
58	Adult mouse sensory neurons on microelectrode arrays exhibit increased spontaneous and stimulus-evoked activity in the presence of interleukin-6. Journal of Neurophysiology, 2018, 120, 1374-1385.	1.8	32
59	A ligand-receptor interactome platform for discovery of pain mechanisms and therapeutic targets. Science Signaling, 2021, 14, .	3.6	32
60	Alleviation of paclitaxel-induced mechanical hypersensitivity and hyperalgesic priming with AMPK activators in male and female mice. Neurobiology of Pain (Cambridge, Mass), 2019, 6, 100037.	2.5	30
61	Targeting AMPK for the Alleviation of Pathological Pain. Exs, 2016, 107, 257-285.	1.4	29
62	Targeted Acid-Sensing Ion Channel Therapies for Migraine. Neurotherapeutics, 2018, 15, 402-414.	4.4	27
63	Serotonin, 5HT1 agonists, and migraine. Current Opinion in Supportive and Palliative Care, 2014, 8, 137-142.	1.3	25
64	Temporal and sex differences in the role of BDNF/TrkB signaling in hyperalgesic priming in mice and rats. Neurobiology of Pain (Cambridge, Mass), 2019, 5, 100024.	2.5	25
65	IL-6 induced upregulation of T-type Ca²⁺ currents and sensitization of DRG nociceptors is attenuated by MNK inhibition. Journal of Neurophysiology, 2020, 124, 274-283.	1.8	24
66	Evolution: The Advantage of â€˜Maladaptiveâ€™ Pain Plasticity. Current Biology, 2014, 24, R384-R386.	3.9	22
67	Dural fibroblasts play a potential role in headache pathophysiology. Pain, 2014, 155, 1238-1244.	4.2	21
68	Indirect AMP-Activated Protein Kinase Activators Prevent Incision-Induced Hyperalgesia and Block Hyperalgesic Priming, Whereas Positive Allosteric Modulators Block Only Priming in Mice. Journal of Pharmacology and Experimental Therapeutics, 2019, 371, 138-150.	2.5	21
69	Meningeal norepinephrine produces headache behaviors in rats via actions both on dural afferents and fibroblasts. Cephalalgia, 2015, 35, 1054-1064.	3.9	19
70	Emerging neurotechnology for antinociceptive mechanisms and therapeutics discovery. Biosensors and Bioelectronics, 2019, 126, 679-689.	10.1	19
71	The cellular basis of protease activated receptor type 2 (PAR2) evoked mechanical and affective pain. JCI Insight, 2020, 5, .	5.0	18
72	The AMPK Activator A769662 Blocks Voltage-Gated Sodium Channels: Discovery of a Novel Pharmacophore with Potential Utility for Analgesic Development. PLoS ONE, 2017, 12, e0169882.	2.5	16

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73	17-Î²-Estradiol induces spreading depression and pain behavior in alert female rats. Oncotarget, 2017, 8, 114109-114122.	1.8	16
74	Interleukin-6 induces spatially dependent whole-body hypersensitivity in rats: implications for extracephalic hypersensitivity in migraine. Journal of Headache and Pain, 2021, 22, 70.	6.0	14
75	Sex differences in the expression of calcitonin gene-related peptide receptor components in the spinal trigeminal nucleus. Neurobiology of Pain (Cambridge, Mass), 2019, 6, 100031.	2.5	13
76	Pituitary Hormones and Orofacial Pain. Frontiers in Integrative Neuroscience, 2018, 12, 42.	2.1	12
77	New discoveries in migraine mechanisms and therapeutic targets. Current Opinion in Physiology, 2019, 11, 116-124.	1.8	11
78	MNK-eIF4E signalling is a highly conserved mechanism for sensory neuron axonal plasticity: evidence from <i>Aplysia californica</i>. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20190289.	4.0	11
79	Sex-dependent pain trajectories induced by prolactin require an inflammatory response for pain resolution. Brain, Behavior, and Immunity, 2022, 101, 246-263.	4.1	9
80	AMPK activation regulates P-body dynamics in mouse sensory neurons in vitro and in vivo. Neurobiology of Pain (Cambridge, Mass), 2019, 5, 100026.	2.5	8
81	Voluntary Wheel Running Partially Attenuates Early Life Stress-Induced Neuroimmune Measures in the Dura and Evoked Migraine-Like Behaviors in Female Mice. Frontiers in Physiology, 2021, 12, 665732.	2.8	8
82	Receptor Specificity Defines Algogenic Properties of Propofol and Fospropofol. Anesthesia and Analgesia, 2012, 115, 837-840.	2.2	7
83	Diversity of Receptor Expression in Central and Peripheral Mouse Neurons Estimated from Single Cell RNA Sequencing. Neuroscience, 2021, 463, 86-96.	2.3	7
84	A Role for Protease Activated Receptor Type 3 (PAR3) in Nociception Demonstrated Through Development of a Novel Peptide Agonist. Journal of Pain, 2021, 22, 692-706.	1.4	7
85	Dural Stimulation and Periorbital von Frey Testing in Mice As a Preclinical Model of Headache. Journal of Visualized Experiments, 2021, , .	0.3	6
86	De novo protein synthesis is necessary for priming in preclinical models of migraine. Cephalalgia, 2021, 41, 237-246.	3.9	6
87	A Pharmacological Interactome between COVID-19 Patient Samples and Human Sensory Neurons Reveals Potential Drivers of Neurogenic Pulmonary Dysfunction. SSRN Electronic Journal, 2020, , 3581446.	0.4	4
88	Proteinaseâ€activated receptorâ€2 antagonist C391 inhibits <i>Alternaria</i>â€induced airway epithelial signalling and asthma indicators in acute exposure mouse models. British Journal of Pharmacology, 2022, 179, 2208-2222.	5.4	4
89	Changes in undamaged fibers following peripheral nerve injury: A role for TNF-Î±. Pain, 2010, 151, 237-238.	4.2	1