Luke Grundy

List of Publications by Year
in descending order

39 papers	1,468 citations	361413 20 h-index	361022 35 g-index
40 all docs	40 docs citations	40 times ranked	1338 citing authors

#	Article	IF	Citations
1	Selective spider toxins reveal a role for the Nav1.1 channel in mechanical pain. Nature, 2016, 534, 494-499.	27.8	239
2	Visceral Pain. Annual Review of Physiology, 2019, 81, 261-284.	13.1	159
3	Pain in Endometriosis. Frontiers in Cellular Neuroscience, 2020, 14, 590823.	3.7	95
4	Mechanisms Underlying Overactive Bladder and Interstitial Cystitis/Painful Bladder Syndrome. Frontiers in Neuroscience, 2018, 12, 931.	2.8	84
5	Î±-Conotoxin Vc1.1 inhibits human dorsal root ganglion neuroexcitability and mouse colonic nociception via GABA_Breceptors. Gut, 2017, 66, 1083-1094.	12.1	77
6	Multiple sodium channel isoforms mediate the pathological effects of Pacific ciguatoxin-1. Scientific Reports, 2017, 7, 42810.	3.3	67
7	Chronic linaclotide treatment reduces colitis-induced neuroplasticity and reverses persistent bladder dysfunction. JCI Insight, 2018, 3, .	5.0	61
8	Activation of pruritogenic TGR5, MrgprA3, and MrgprC11 on colon-innervating afferents induces visceral hypersensitivity. JCI Insight, 2019, 4, .	5.0	59
9	Cross-organ sensitization between the colon and bladder: to pee or not to pee?. American Journal of Physiology - Renal Physiology, 2018, 314, G301-G308.	3.4	44
10	Histamine induces peripheral and central hypersensitivity to bladder distension via the histamine H₁receptor and TRPV1. American Journal of Physiology - Renal Physiology, 2020, 318, F298-F314.	2.7	42
11	Identifying unique subtypes of spinal afferent nerve endings within the urinary bladder of mice. Journal of Comparative Neurology, 2018, 526, 707-720.	1.6	42
12	TRPV1 enhances the afferent response to P2X receptor activation in the mouse urinary bladder. Scientific Reports, 2018, 8, 197.	3.3	36
13	Voltageâ€gated sodium channels: (Na_V)igating the field to determine their contribution to visceral nociception. Journal of Physiology, 2018, 596, 785-807.	2.9	36
14	Cyclic analogues of Î±â€conotoxin Vc1.1 inhibit colonic nociceptors and provide analgesia in a mouse model of chronic abdominal pain. British Journal of Pharmacology, 2018, 175, 2384-2398.	5.4	36
15	NaV1.1 inhibition can reduce visceral hypersensitivity. JCI Insight, 2018, 3, .	5.0	34
16	Tetrodotoxin-sensitive voltage-gated sodium channels regulate bladder afferent responses to distension. Pain, 2018, 159, 2573-2584.	4.2	31
17	Colonic afferent input and dorsal horn neuron activation differs between the thoracolumbar and lumbosacral spinal cord. American Journal of Physiology - Renal Physiology, 2019, 317, G285-G303.	3.4	30
18	Contribution of membrane receptor signalling to chronic visceral pain. International Journal of Biochemistry and Cell Biology, 2018, 98, 10-23.	2.8	29

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19	A spider-venom peptide with multitarget activity on sodium and calcium channels alleviates chronic visceral pain in a model of irritable bowel syndrome. Pain, 2021, 162, 569-581.	4.2	28
20	Translating peripheral bladder afferent mechanosensitivity to neuronal activation within the lumbosacral spinal cord of mice. Pain, 2019, 160, 793-804.	4.2	25
21	Linaclotide treatment reduces endometriosis-associated vaginal hyperalgesia and mechanical allodynia through viscerovisceral cross-talk. Pain, 2019, 160, 2566-2579.	4.2	25
22	NKA enhances bladder-afferent mechanosensitivity via urothelial and detrusor activation. American Journal of Physiology - Renal Physiology, 2018, 315, F1174-F1185.	2.7	23
23	Innate immune response to bacterial urinary tract infection sensitises high-threshold bladder afferents and recruits silent nociceptors. Pain, 2020, 161, 202-210.	4.2	19
24	Identification of a Quorum Sensing-Dependent Communication Pathway Mediating Bacteria-Gut-Brain Cross Talk. IScience, 2020, 23, 101695.	4.1	18
25	Serotonin exerts a direct modulatory role on bladder afferent firing in mice. Journal of Physiology, 2019, 597, 5247-5264.	2.9	17
26	Extrinsic Sensory Afferent Nerves Innervating the Gastrointestinal Tract in Health and Disease. , 2018, , 387-418.		14
27	Purinergic receptor mediated calcium signalling in urothelial cells. Scientific Reports, 2019, 9, 16101.	3.3	12
28	Hypersensitivity of bladder low threshold, wide dynamic range, afferent fibres following treatment with the chemotherapeutic drugs cyclophosphamide and ifosfamide. Archives of Toxicology, 2020, 94, 2785-2797.	4.2	12
29	The validation of an in vitro colonic motility assay as a biomarker for gastrointestinal adverse drug reactions. Toxicology and Applied Pharmacology, 2010, 245, 299-309.	2.8	10
30	A mouse model of endometriosis that displays vaginal, colon, cutaneous, and bladder sensory comorbidities. FASEB Journal, 2021, 35, e21430.	0.5	10
31	Translational potential of a mouse in vitro bioassay in predicting gastrointestinal adverse drug reactions in Phase I clinical trials. Neurogastroenterology and Motility, 2014, 26, 980-989.	3.0	9
32	Activation of MrgprA3 and MrgprC11 on Bladder-Innervating Afferents Induces Peripheral and Central Hypersensitivity to Bladder Distension. Journal of Neuroscience, 2021, 41, 3900-3916.	3.6	9
33	Pharmacological modulation of voltage-gated sodium (NaV) channels alters nociception arising from the female reproductive tract. Pain, 2021, 162, 227-242.	4.2	9
34	Experimentally Induced Bladder Permeability Evokes Bladder Afferent Hypersensitivity in the Absence of Inflammation. Frontiers in Neuroscience, 2020, 14, 590871.	2.8	8
35	Guanylate cyclase-C agonists as peripherally acting treatments of chronic visceral pain. Trends in Pharmacological Sciences, 2022, 43, 110-122.	8.7	8
36	A syngeneic inoculation mouse model of endometriosis that develops multiple comorbid visceral and cutaneous pain like behaviours. Pain, 2021, Publish Ahead of Print, .	4.2	6

#	Article	IF	Citations
37	Urinary Tract Infection in Overactive Bladder: An Update on Pathophysiological Mechanisms. Frontiers in Physiology, 0, 13, .	2.8	3
38	TGR5 agonists induce peripheral and central hypersensitivity to bladder distension. Scientific Reports, 2022, 12, .	3.3	2
39	Gastrointestinal Sensation; General Principles. , 2020, , 701-710.		0