Mark R. Hutchinson

List of Publications by Year
in descending order

205 papers	10,967 citations	36203 51 h-index	34900 98 g-index
212 all docs	212 docs citations	212 times ranked	9459 citing authors

#	Article	IF	Citations
1	Pathological pain and the neuroimmune interface. Nature Reviews Immunology, 2014, 14, 217-231.	10.6	703
2	Evidence that opioids may have toll-like receptor 4 and MD-2 effects. Brain, Behavior, and Immunity, 2010, 24, 83-95.	2.0	447
3	Morphine activates neuroinflammation in a manner parallel to endotoxin. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6325-6330.	3.3	401
4	The â€œTollâ€•of Opioid-Induced Glial Activation: Improving the Clinical Efficacy of Opioids by Targeting Glia. Trends in Pharmacological Sciences, 2009, 30, 581-591.	4.0	353
5	Nonâ€stereoselective reversal of neuropathic pain by naloxone and naltrexone: involvement of tollâ€like receptor 4 (TLR4). European Journal of Neuroscience, 2008, 28, 20-29.	1.2	342
6	Exploring the Neuroimmunopharmacology of Opioids: An Integrative Review of Mechanisms of Central Immune Signaling and Their Implications for Opioid Analgesia. Pharmacological Reviews, 2011, 63, 772-810.	7.1	342
7	Glia as the â€œbad guysâ€• Implications for improving clinical pain control and the clinical utility of opioids. Brain, Behavior, and Immunity, 2007, 21, 131-146.	2.0	306
8	Opioid-Induced Glial Activation: Mechanisms of Activation and Implications for Opioid Analgesia, Dependence, and Reward. Scientific World Journal, The, 2007, 7, 98-111.	0.8	305
9	Glia: novel counter-regulators of opioid analgesia. Trends in Neurosciences, 2005, 28, 661-669.	4.2	303
10	Tollâ€like receptor 4 in CNS pathologies. Journal of Neurochemistry, 2010, 114, 13-27.	2.1	279
11	Proinflammatory cytokines oppose opioid-induced acute and chronic analgesia. Brain, Behavior, and Immunity, 2008, 22, 1178-1189.	2.0	262
12	Opioid Activation of Toll-Like Receptor 4 Contributes to Drug Reinforcement. Journal of Neuroscience, 2012, 32, 11187-11200.	1.7	258
13	Reduction of opioid withdrawal and potentiation of acute opioid analgesia by systemic AV411 (ibudilast). Brain, Behavior, and Immunity, 2009, 23, 240-250.	2.0	238
14	Toll-like receptors in chronic pain. Experimental Neurology, 2012, 234, 316-329.	2.0	208
15	DAT isnâ€™t all that: cocaine reward and reinforcement require Toll-like receptor 4 signaling. Molecular Psychiatry, 2015, 20, 1525-1537.	4.1	178
16	Implications of central immune signaling caused by drugs of abuse: Mechanisms, mediators and new therapeutic approaches for prediction and treatment of drug dependence. , 2012, 134, 219-245.		173
17	â€œListeningâ€•and â€œtalkingâ€•to neurons: Implications of immune activation for pain control and increasing the efficacy of opioids. Brain Research Reviews, 2007, 56, 148-169.	9.1	162
18	Early-Life Experience Decreases Drug-Induced Reinstatement of Morphine CPP in Adulthood via Microglial-Specific Epigenetic Programming of Anti-Inflammatory IL-10 Expression. Journal of Neuroscience, 2011, 31, 17835-17847.	1.7	162

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19	Minocycline suppresses morphine-induced respiratory depression, suppresses morphine-induced reward, and enhances systemic morphine-induced analgesia. Brain, Behavior, and Immunity, 2008, 22, 1248-1256.	2.0	161
20	Evidence that intrathecal morphine-3-glucuronide may cause pain enhancement via toll-like receptor 4/MD-2 and interleukin-1Î². Neuroscience, 2010, 165, 569-583.	1.1	146
21	The cortical innate immune response increases local neuronal excitability leading to seizures. Brain, 2009, 132, 2478-2486.	3.7	131
22	Ibudilast (AV-411). Expert Opinion on Investigational Drugs, 2007, 16, 935-950.	1.9	130
23	Pharmacological characterization of the opioid inactive isomers (+)â€naltrexone and (+)â€naloxone as antagonists of tollâ€like receptor 4. British Journal of Pharmacology, 2016, 173, 856-869.	2.7	128
24	Small-Molecule Modulators of Toll-like Receptors. Accounts of Chemical Research, 2020, 53, 1046-1055.	7.6	122
25	Ibudilast: a review of its pharmacology, efficacy and safety in respiratory and neurological disease. Expert Opinion on Pharmacotherapy, 2009, 10, 2897-2904.	0.9	115
26	Possible involvement of toll-like receptor 4/myeloid differentiation factor-2 activity of opioid inactive isomers causes spinal proinflammation and related behavioral consequences. Neuroscience, 2010, 167, 880-893.	1.1	115
27	Irinotecan-Induced Gastrointestinal Dysfunction and Pain Are Mediated by Common TLR4-Dependent Mechanisms. Molecular Cancer Therapeutics, 2016, 15, 1376-1386.	1.9	114
28	CYP2D6 and CYP3A4 involvement in the primary oxidative metabolism of hydrocodone by human liver microsomes. British Journal of Clinical Pharmacology, 2003, 57, 287-297.	1.1	112
29	Recent advances in cytokine detection by immunosensing. Biosensors and Bioelectronics, 2016, 79, 810-821.	5.3	109
30	Effect of Chronic Delivery of the Toll-like Receptor 4 Antagonist (+)-Naltrexone on Incubation of Heroin Craving. Biological Psychiatry, 2013, 73, 729-737.	0.7	106
31	Naturally-diverse airborne environmental microbial exposures modulate the gut microbiome and may provide anxiolytic benefits in mice. Science of the Total Environment, 2020, 701, 134684.	3.9	98
32	Peripheral immune contributions to the maintenance of central glial activation underlying neuropathic pain. Brain, Behavior, and Immunity, 2011, 25, 1322-1332.	2.0	96
33	Nitroxidative Signaling Mechanisms in Pathological Pain. Trends in Neurosciences, 2016, 39, 862-879.	4.2	93
34	Enduring Reversal of Neuropathic Pain by a Single Intrathecal Injection of Adenosine 2A Receptor Agonists: A Novel Therapy for Neuropathic Pain. Journal of Neuroscience, 2009, 29, 14015-14025.	1.7	92
35	The glial activation inhibitor AV411 reduces morphine-induced nucleus accumbens dopamine release. Brain, Behavior, and Immunity, 2009, 23, 492-497.	2.0	90
36	(+)-Naloxone, an Opioid-Inactive Toll-Like Receptor 4 Signaling Inhibitor, Reverses Multiple Models of Chronic Neuropathic Pain in Rats. Journal of Pain, 2012, 13, 498-506.	0.7	90

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37	Toll-like receptor 4: innate immune regulator of neuroimmune and neuroendocrine interactions in stress and major depressive disorder. Frontiers in Neuroscience, 2014, 8, 309.	1.4	88
38	Evidence that tricyclic small molecules may possess toll-like receptor and myeloid differentiation protein 2 activity. Neuroscience, 2010, 168, 551-563.	1.1	85
39	Why is neuroimmunopharmacology crucial for the future of addiction research?. Neuropharmacology, 2014, 76, 218-227.	2.0	81
40	The Neuroimmunology of Chronic Pain: From Rodents to Humans. Journal of Neuroscience, 2021, 41, 855-865.	1.7	78
41	Targeting the Toll of Drug Abuse: The Translational Potential of Toll-Like Receptor 4. CNS and Neurological Disorders - Drug Targets, 2015, 14, 692-699.	0.8	75
42	Evidence for a role of heat shock protein-90 in toll like receptor 4 mediated pain enhancement in rats. Neuroscience, 2009, 164, 1821-1832.	1.1	70
43	Inhibiting the TLR4â€MyD88 signalling cascade by genetic or pharmacological strategies reduces acute alcoholâ€induced sedation and motor impairment in mice. British Journal of Pharmacology, 2012, 165, 1319-1329.	2.7	70
44	Attenuation of microglial and IL-1 signaling protects mice from acute alcohol-induced sedation and/or motor impairment. Brain, Behavior, and Immunity, 2011, 25, S155-S164.	2.0	69
45	From the Bottom-Up: Chemotherapy and Gut-Brain Axis Dysregulation. Frontiers in Behavioral Neuroscience, 2018, 12, 104.	1.0	68
46	Portable optical fiber probe for in vivo brain temperature measurements. Biomedical Optics Express, 2016, 7, 3069.	1.5	61
47	Methamphetamine Activates Toll-Like Receptor 4 to Induce Central Immune Signaling within the Ventral Tegmental Area and Contributes to Extracellular Dopamine Increase in the Nucleus Accumbens Shell. ACS Chemical Neuroscience, 2019, 10, 3622-3634.	1.7	60
48	Inflammatory Mediators in Mastitis and Lactation Insufficiency. Journal of Mammary Gland Biology and Neoplasia, 2014, 19, 161-167.	1.0	58
49	Morphine amplifies mechanical allodynia via TLR4 in a rat model of spinal cord injury. Brain, Behavior, and Immunity, 2016, 58, 348-356.	2.0	58
50	Naloxone-precipitated morphine withdrawal behavior and brain IL-1Î² expression: Comparison of different mouse strains. Brain, Behavior, and Immunity, 2011, 25, 1223-1232.	2.0	57
51	Low-dose endotoxin potentiates capsaicin-induced pain in man: Evidence for a pain neuroimmune connection. Brain, Behavior, and Immunity, 2013, 30, 3-11.	2.0	56
52	Activation of adult rat CNS endothelial cells by opioid-induced toll-like receptor 4 (TLR4) signaling induces proinflammatory, biochemical, morphological, and behavioral sequelae. Neuroscience, 2014, 280, 299-317.	1.1	56
53	Discovery of a Novel Site of Opioid Action at the Innate Immune Pattern-Recognition Receptor TLR4 and its Role in Addiction. International Review of Neurobiology, 2014, 118, 129-163.	0.9	55
54	Toll-Like Receptor 4 Is an Essential Upstream Regulator of On-Time Parturition and Perinatal Viability in Mice. Endocrinology, 2015, 156, 3828-3841.	1.4	54

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55	Novel Toll-like receptor-4 antagonist (+)-naloxone protects mice from inflammation-induced preterm birth. Scientific Reports, 2016, 6, 36112.	1.6	54
56	Glucuronic acid and the ethanol metabolite ethyl-glucuronide cause toll-like receptor 4 activation and enhanced pain. Brain, Behavior, and Immunity, 2013, 30, 24-32.	2.0	52
57	CYP2B6*6 allele and age substantially reduce steadyâ€state ketamine clearance in chronic pain patients: impact on adverse effects. British Journal of Clinical Pharmacology, 2015, 80, 276-284.	1.1	51
58	Gender inequality in publishing during the COVID-19 pandemic. Brain, Behavior, and Immunity, 2021, 91, 1-3.	2.0	50
59	Drug addiction: targeting dynamic neuroimmune receptor interactions as a potential therapeutic strategy. Current Opinion in Pharmacology, 2016, 26, 131-137.	1.7	48
60	Medication-overuse headache and opioid-induced hyperalgesia: A review of mechanisms, a neuroimmune hypothesis and a novel approach to treatment. Cephalalgia, 2013, 33, 52-64.	1.8	46
61	TheCYP2B6*6Allele Significantly Alters theN-Demethylation of Ketamine Enantiomers In Vitro. Drug Metabolism and Disposition, 2013, 41, 1264-1272.	1.7	45
62	Increased Responsiveness of Peripheral Blood Mononuclear Cells to In Vitro TLR 2, 4 and 7 Ligand Stimulation in Chronic Pain Patients. PLoS ONE, 2012, 7, e44232.	1.1	45
63	A novel animal model of graded neuropathic pain: Utility to investigate mechanisms of population heterogeneity. Journal of Neuroscience Methods, 2010, 193, 47-53.	1.3	44
64	Glial contributions to visceral pain: implications for disease etiology and the female predominance of persistent pain. Translational Psychiatry, 2016, 6, e888-e888.	2.4	43
65	A Peptide Antagonist of the TLR4â€“MD2 Interaction. ChemBioChem, 2009, 10, 645-649.	1.3	41
66	Harnessing pain heterogeneity and RNA transcriptome to identify bloodâ€based pain biomarkers: a novel correlational study design and bioinformatics approach in a graded chronic constriction injury model. Journal of Neurochemistry, 2012, 122, 976-994.	2.1	40
67	Association of IL-1B genetic polymorphisms with an increased risk of opioid and alcohol dependence. Pharmacogenetics and Genomics, 2009, 19, 869-876.	0.7	39
68	Sensitive Cytokine Assay Based on Optical Fiber Allowing Localized and Spatially Resolved Detection of Interleukin-6. ACS Sensors, 2017, 2, 218-226.	4.0	39
69	Sex differences in mechanical allodynia: how can it be preclinically quantified and analyzed?. Frontiers in Behavioral Neuroscience, 2014, 8, 40.	1.0	38
70	Graphene quantum dot based â€œswitch-onâ€•nanosensors for intracellular cytokine monitoring. Nanoscale, 2017, 9, 4934-4943.	2.8	37
71	Dissecting the Innate Immune Recognition of Opioid Inactive Isomer (+)-Naltrexone Derived Toll-like Receptor 4 (TLR4) Antagonists. Journal of Chemical Information and Modeling, 2018, 58, 816-825.	2.5	37
72	Lovastatin inhibits Toll-like receptor 4 signaling in microglia by targeting its co-receptor myeloid differentiation protein 2 and attenuates neuropathic pain. Brain, Behavior, and Immunity, 2019, 82, 432-444.	2.0	37

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73	Peripheral Interleukin-1Î² Levels are Elevated in Chronic Tension-Type Headache Patients. Pain Research and Management, 2013, 18, 301-306.	0.7	36
74	The effects of a single exposure to uncontrollable stress on the subsequent conditioned place preference responses to oxycodone, cocaine, and ethanol in rats. Psychopharmacology, 2007, 191, 909-917.	1.5	35
75	Application of a novel in silico high-throughput screen to identify selective inhibitors for proteinâ€“protein interactions. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 5411-5413.	1.0	34
76	Codeine-induced hyperalgesia and allodynia: investigating the role of glial activation. Translational Psychiatry, 2014, 4, e482-e482.	2.4	34
77	Targeting Tollâ€like receptorâ€4 to tackle preterm birth and fetal inflammatory injury. Clinical and Translational Immunology, 2020, 9, e1121.	1.7	32
78	The role of Tollâ€like receptor 4 (TLR4) in cardiac ischaemicâ€reperfusion injury, cardioprotection and preconditioning. Clinical and Experimental Pharmacology and Physiology, 2016, 43, 864-871.	0.9	31
79	Perspective: Biomedical sensing and imaging with optical fibersâ€”Innovation through convergence of science disciplines. APL Photonics, 2018, 3, .	3.0	31
80	Chronic Morphine-Induced Changes in Signaling at the A₃Adenosine Receptor Contribute to Morphine-Induced Hyperalgesia, Tolerance, and Withdrawal. Journal of Pharmacology and Experimental Therapeutics, 2020, 374, 331-341.	1.3	30
81	TLR4 biased small molecule modulators. , 2021, 228, 107918.		29
82	Air Pollution Distribution Patterns in the San Bernardino Mountains of Southern California: a 40-Year Perspective. Scientific World Journal, The, 2007, 7, 98-109.	0.8	28
83	A novel platform for in vivo detection of cytokine release within discrete brain regions. Brain, Behavior, and Immunity, 2018, 71, 18-22.	2.0	28
84	Toll-Like Receptor 4 Regulates Lipopolysaccharide-Induced Inflammation and Lactation Insufficiency in a Mouse Model of Mastitis1. Biology of Reproduction, 2014, 90, 91.	1.2	27
85	Ethnicity-dependent influence of innate immune genetic markers on morphine PCA requirements and adverse effects in postoperative pain. Pain, 2016, 157, 2458-2466.	2.0	26
86	Graphene Oxide Based Recyclable in Vivo Device for Amperometric Monitoring of Interferon-Î³ in Inflammatory Mice. ACS Applied Materials & Interfaces, 2018, 10, 33078-33087.	4.0	25
87	Stimulation of water and calcium dynamics in astrocytes with pulsed infrared light. FASEB Journal, 2020, 34, 6539-6553.	0.2	25
88	Adoptive transfer of peripheral immune cells potentiates allodynia in a graded chronic constriction injury model of neuropathic pain. Brain, Behavior, and Immunity, 2011, 25, 503-513.	2.0	24
89	Silk: A bio-derived coating for optical fiber sensing applications. Sensors and Actuators B: Chemical, 2020, 311, 127864.	4.0	24
90	Local and Systemic Inflammation in Localized, Provoked Vestibulodynia. Obstetrics and Gynecology, 2016, 128, 337-347.	1.2	23

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91	Ibudilast reduces oxaliplatin-induced tactile allodynia and cognitive impairments in rats. Behavioural Brain Research, 2017, 334, 109-118.	1.2	23
92	Quantification of the O- and N-demethylated metabolites of hydrocodone and oxycodone in human liver microsomes using liquid chromatography with ultraviolet absorbance detection1. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2003, 785, 81-88.	1.2	22
93	Role of microglia and toll-like receptor 4 in the pathophysiology of delirium. Medical Hypotheses, 2012, 79, 735-739.	0.8	22
94	Chemotherapy-induced gut toxicity and pain: involvement of TLRs. Supportive Care in Cancer, 2016, 24, 2251-2258.	1.0	22
95	Biophotonics: the big picture. Journal of Biomedical Optics, 2017, 23, 1.	1.4	22
96	Alcohol-induced sedation and synergistic interactions between alcohol and morphine: A key mechanistic role for Toll-like receptors and MyD88-dependent signaling. Brain, Behavior, and Immunity, 2015, 45, 245-252.	2.0	21
97	Measuring and tracking vitamin B12: A review of current methods with a focus on optical spectroscopy. Applied Spectroscopy Reviews, 2017, 52, 439-455.	3.4	21
98	Lesion development is modulated by the natural estrous cycle and mouse strain in a minimally invasive model of endometriosisâ€. Biology of Reproduction, 2017, 97, 810-821.	1.2	21
99	Corticosterone Preexposure Increases NF-Î²B Translocation and Sensitizes IL-1Î² Responses in BV2 Microglia-Like Cells. Frontiers in Immunology, 2018, 9, 3.	2.2	21
100	Reduced Response to the Thermal Grill Illusion in Chronic Pain Patients. Pain Medicine, 2014, 15, 647-660.	0.9	20
101	The Effects of Pregabalin and the Glial Attenuator Minocycline on the Response to Intradermal Capsaicin in Patients with Unilateral Sciatica. PLoS ONE, 2012, 7, e38525.	1.1	20
102	Commentary on Landry et al.: â€œPropentofylline, a CNS glial modulator, does not decrease pain in post-herpetic neuralgia patients: In vitro evidence for differential responses in human and rodent microglia and macrophagesâ€• Experimental Neurology, 2012, 234, 351-353.	2.0	19
103	TLR 2 and 4 Responsiveness from Isolated Peripheral Blood Mononuclear Cells from Rats and Humans as Potential Chronic Pain Biomarkers. PLoS ONE, 2013, 8, e77799.	1.1	19
104	Zerumbone Modulates Î±2A-Adrenergic, TRPV1, and NMDA NR2B Receptors Plasticity in CCI-Induced Neuropathic Pain In Vivo and LPS-Induced SH-SY5Y Neuroblastoma In Vitro Models. Frontiers in Pharmacology, 2020, 11, 92.	1.6	19
105	Diacetylmorphine degradation to 6-monoacetylmorphine and morphine in cell culture: implications for in vitro studies. European Journal of Pharmacology, 2002, 453, 27-32.	1.7	18
106	Mouse models of mastitis â€“ how physiological are they?. International Breastfeeding Journal, 2015, 10, 12.	0.9	18
107	The Relationship Between Opioids and Immune Signalling in the Spinal Cord. Handbook of Experimental Pharmacology, 2015, 227, 207-238.	0.9	18
108	BrainPhys neuronal medium optimized for imaging and optogenetics in vitro. Nature Communications, 2020, 11, 5550.	5.8	18

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109	Toll-like Receptor-4: A New Target for Preterm Labour Pharmacotherapies?. Current Pharmaceutical Design, 2018, 24, 960-973.	0.9	18
110	Association of Innate Immune Single-Nucleotide Polymorphisms with the Electroencephalogram During Desflurane General Anaesthesia. Journal of Molecular Neuroscience, 2014, 52, 497-506.	1.1	17
111	Spinal Glial Adaptations Occur in a Minimally Invasive Mouse Model of Endometriosis: Potential Implications for Lesion Etiology and Persistent Pelvic Pain. Reproductive Sciences, 2019, 26, 357-369.	1.1	17
112	A Nanoparticle-Based Affinity Sensor that Identifies and Selects Highly Cytokine-Secreting Cells. IScience, 2019, 20, 137-147.	1.9	17
113	Spiropyranâ€Based Nanocarrier: A New Zn²⁺â€Responsive Delivery System with Realâ€Time Intracellular Sensing Capabilities. Chemistry - A European Journal, 2019, 25, 854-862.	1.7	17
114	In vivo veritas: (+)-Naltrexone's actions define translational importance. Trends in Pharmacological Sciences, 2014, 35, 432-433.	4.0	16
115	Stereochemistry and innate immune recognition: (+)â€norbinaltorphimine targets myeloid differentiation protein 2 and inhibits tollâ€like receptor 4 signaling. FASEB Journal, 2019, 33, 9577-9587.	0.2	16
116	Artemisinin inhibits TLR4 signaling by targeting coâ€receptor MD2 in microglial BVâ€2 cells and prevents lipopolysaccharideâ€induced bloodâ€“brain barrier leakage in mice. Journal of Neurochemistry, 2021, 157, 611-623.	2.1	16
117	Neuroimmune reactivity marker expression in rodent models of chemotherapy-induced cognitive impairment: A systematic scoping review. Brain, Behavior, and Immunity, 2021, 94, 392-409.	2.0	16
118	Antagonising TLR4-TRIF signalling before or after a low-dose alcohol binge during adolescence prevents alcohol drinking but not seeking behaviour in adulthood. Neuropharmacology, 2018, 128, 460-473.	2.0	15
119	An optical fiber based immunosensor for localized detection of IL-1Î² in rat spinal cord. Sensors and Actuators B: Chemical, 2019, 282, 122-129.	4.0	15
120	Are the protective benefits of vitamin D in neurodegenerative disease dependent on route of administration? A systematic review. Nutritional Neuroscience, 2020, 23, 251-280.	1.5	15
121	Toll-Like Receptor-4 Antagonist (+)-Naltrexone Protects Against Carbamyl-Platelet Activating Factor (cPAF)-Induced Preterm Labor in Mice. American Journal of Pathology, 2020, 190, 1030-1045.	1.9	14
122	In vitro opioid induced proliferation of peripheral blood immune cells correlates with in vivo cold pressor pain tolerance in humans: a biological marker of pain tolerance. Pain, 2004, 110, 751-755.	2.0	13
123	(S)-(+)-methadone is more immunosuppressive than the potent analgesic (R)-(â^')-methadone. International Immunopharmacology, 2004, 4, 1525-1530.	1.7	13
124	An MD2 Hotâ€Spotâ€Mimicking Peptide that Suppresses TLR4â€Mediated Inflammatory Response in vitro and in vivo. ChemBioChem, 2011, 12, 1827-1831.	1.3	13
125	Glial Attenuation With Ibudilast in the Treatment of Medication Overuse Headache: A Doubleâ€Blind, Randomized, Placeboâ€Controlled Pilot Trial of Efficacy and Safety. Headache, 2015, 55, 1192-1208.	1.8	13
126	Select steroid hormone glucuronide metabolites can cause toll-like receptor 4 activation and enhanced pain. Brain, Behavior, and Immunity, 2015, 44, 128-136.	2.0	13

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127	Differential effect of morphine on gastrointestinal transit, colonic contractions and nerve-evoked relaxations in Toll-Like Receptor deficient mice. Scientific Reports, 2018, 8, 5923.	1.6	13
128	Toll-Like Receptor-4 Antagonist (+)-Naloxone Confers Sexually Dimorphic Protection From Inflammation-Induced Fetal Programming in Mice. Endocrinology, 2019, 160, 2646-2662.	1.4	13
129	Glial TLR4 signaling does not contribute to opioid-induced depression of respiration. Journal of Applied Physiology, 2014, 117, 857-868.	1.2	12
130	A concern on comparing â€˜applesâ€™ and â€˜orangesâ€™ when differences between microglia used in human and rodent studies go far, far beyond simply species: comment on Smith and Dragunow. Trends in Neurosciences, 2014, 37, 189-190.	4.2	12
131	Novel imaging tools for investigating the role of immune signalling in the brain. Brain, Behavior, and Immunity, 2016, 58, 40-47.	2.0	12
132	In vivo intrathecal IL-1Î² quantification in rats: Monitoring the molecular signals of neuropathic pain. Brain, Behavior, and Immunity, 2020, 88, 442-450.	2.0	12
133	Toll-Like Receptors change morphine-induced antinociception, tolerance and dependence: studies using male and female TLR and Signalling gene KO mice. Brain, Behavior, and Immunity, 2022, , .	2.0	12
134	Exploring neuroinflammation as a potential avenue to improve the clinical efficacy of opioids. Expert Review of Neurotherapeutics, 2012, 12, 1311-1324.	1.4	11
135	Effects of a forest pathogen on habitat selection and quality for the endangered goldenâ€cheeked warbler. Wildlife Society Bulletin, 2014, 38, 279-287.	1.6	11
136	The efficacy of (+)-Naltrexone on alcohol preference and seeking behaviour is dependent on light-cycle. Brain, Behavior, and Immunity, 2018, 67, 181-193.	2.0	11
137	Improved method for optical fiber temperature probe implantation in brains of free-moving rats. Journal of Neuroscience Methods, 2019, 313, 24-28.	1.3	11
138	Amitriptyline pharmacologically preconditions rat hearts against cardiac ischemicâ€“reperfusion injury. International Journal of Cardiology, 2015, 190, 353-359.	0.8	10
139	Nicotine and its metabolite cotinine target MD2 and inhibit TLR4 signaling. Innovation(China), 2021, 2, 100111.	5.2	10
140	Want more pain? Just add a dash of endotoxin to enhance your clinical pain model. Brain, Behavior, and Immunity, 2014, 41, 44-45.	2.0	9
141	Acute stress induces the rapid and transient induction of caspase-1, gasdermin D and release of constitutive IL-1Î² protein in dorsal hippocampus. Brain, Behavior, and Immunity, 2020, 90, 70-80.	2.0	9
142	Relationship between 4,5-epoxymorphinan structure and in vitro modulation of cell proliferation. European Journal of Pharmacology, 2004, 494, 251-262.	1.7	8
143	A Method for in Vivo Quantification Of Cytokine IL-1Î² In The Rat Intrathecal Space. ACS Applied Bio Materials, 2020, 3, 539-546.	2.3	8
144	Assessing the Effects of Parthenolide on Inflammation, Bone Loss, and Glial Cells within a Collagen Antibody-Induced Arthritis Mouse Model. Mediators of Inflammation, 2020, 2020, 1-13.	1.4	8

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145	Psychoneuroimmunology goes East: Development of the PNIRS affiliate and its expansion into PNIRS. Brain, Behavior, and Immunity, 2020, 88, 75-87.	2.0	8
146	Three new species of Stiphrornis (Aves: Muscicapidae) from the Afro-tropics, with a molecular phylogenetic assessment of the genus. Systematics and Biodiversity, 2017, 15, 87-104.	0.5	7
147	Visualizing neuroinflammation with fluorescence and luminescent lanthanide-based in situ hybridization. Journal of Neuroinflammation, 2019, 16, 65.	3.1	7
148	Toll-Like Receptor Responsiveness of Peripheral Blood Mononuclear Cells in Young Women with Dysmenorrhea . Journal of Pain Research, 2020, Volume 13, 503-516.	0.8	7
149	The Relationship Between Androgens and Days per Month of Period Pain, Pelvic Pain, Headache, and TLR4 Responsiveness of Peripheral Blood Mononuclear Cells in Young Women with Dysmenorrhoea. Journal of Pain Research, 2021, Volume 14, 585-599.	0.8	7
150	Long-term intrathecal administration of morphine vs. baclofen: Differences in CSF glycoconjugate profiles using multiglycomics. Glycobiology, 2022, 32, 50-59.	1.3	7
151	Androgens, Endometriosis and Pain. Frontiers in Reproductive Health, 2021, 3, .	0.6	7
152	Neuroimmune Interactions and Pain: The Role of Immune and Glial Cells. , 2007, , 393-414.		6
153	A new metabotropic glutamate receptor agonist with in vivo anti-allodynic activity. Bioorganic and Medicinal Chemistry, 2010, 18, 6089-6098.	1.4	6
154	Are the effects of alcohol on the CNS influenced by Toll-like receptor signaling?. Expert Review of Clinical Immunology, 2012, 8, 201-203.	1.3	6
155	Fluorescence brightness and photostability of individual copper (I) oxide nanocubes. Scientific Reports, 2017, 7, 16905.	1.6	6
156	Sphingosine-1-phosphate receptor subtype 1 activation in the central nervous system contributes to morphine withdrawal in rodents. Journal of Neuroinflammation, 2020, 17, 314.	3.1	6
157	Graded peripheral nerve injury creates mechanical allodynia proportional to the progression and severity of microglial activity within the spinal cord of male mice. Brain, Behavior, and Immunity, 2021, 91, 568-577.	2.0	6
158	Characterisation of the in vitro modulation of splenocyte proliferation by non-4,5-epoxymorphinan opioids. International Immunopharmacology, 2005, 5, 1713-1722.	1.7	5
159	Immune priming and experimental glaucoma: the effect of prior systemic lipopolysaccharide challenge on tissue outcomes after optic nerve injury. Clinical and Experimental Ophthalmology, 2014, 42, 539-554.	1.3	4
160	Constriction of the buccal branch of the facial nerve produces unilateral craniofacial allodynia. Brain, Behavior, and Immunity, 2017, 64, 59-64.	2.0	4
161	The importance of knowing you are sick: Nanoscale biophotonics for the â€˜otherâ€™ brain. Microelectronic Engineering, 2018, 187-188, 101-104.	1.1	4
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