

# Jason J Mcdougall

## List of Publications by Citations

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92  
papers

3,182  
citations

33  
h-index

53  
g-index

113  
ext. papers

3,748  
ext. citations

4.9  
avg, IF

5.55  
L-index

#	Paper	IF	Citations
92	The Rat Grimace Scale: a partially automated method for quantifying pain in the laboratory rat via facial expressions. <i>Molecular Pain</i> , <b>2011</b> , 7, 55	3.4	385
91	The symptoms of osteoarthritis and the genesis of pain. <i>Rheumatic Disease Clinics of North America</i> , <b>2008</b> , 34, 623-43	2.4	211
90	Arthritis and pain. Neurogenic origin of joint pain. <i>Arthritis Research and Therapy</i> , <b>2006</b> , 8, 220	5.7	161
89	A distinct role for transient receptor potential ankyrin 1, in addition to transient receptor potential vanilloid 1, in tumor necrosis factor $\alpha$ -induced inflammatory hyperalgesia and Freund's complete adjuvant-induced monoarthritis. <i>Arthritis and Rheumatism</i> , <b>2011</b> , 63, 819-29		125
88	Attenuation of early phase inflammation by cannabidiol prevents pain and nerve damage in rat osteoarthritis. <i>Pain</i> , <b>2017</b> , 158, 2442-2451	8	98
87	Effects of the novel TRPV1 receptor antagonist SB366791 in vitro and in vivo in the rat. <i>Neuroscience Letters</i> , <b>2005</b> , 385, 137-42	3.3	96
86	Osteoarthritis: the genesis of pain. <i>Rheumatology</i> , <b>2018</b> , 57, iv43-iv50	3.9	92
85	Grading of monosodium iodoacetate-induced osteoarthritis reveals a concentration-dependent sensitization of nociceptors in the knee joint of the rat. <i>Neuroscience Letters</i> , <b>2009</b> , 465, 184-8	3.3	92
84	Cannabinoid-mediated antinociception is enhanced in rat osteoarthritic knees. <i>Arthritis and Rheumatism</i> , <b>2008</b> , 58, 145-53		72
83	Morphological and immunohistochemical examination of nerves in normal and injured collateral ligaments of rat, rabbit, and human knee joints. <i>The Anatomical Record</i> , <b>1997</b> , 248, 29-39		70
82	Vasoactive intestinal peptide (VIP) is a modulator of joint pain in a rat model of osteoarthritis. <i>Pain</i> , <b>2006</b> , 123, 98-105	8	61
81	Triggering of proteinase-activated receptor 4 leads to joint pain and inflammation in mice. <i>Arthritis and Rheumatism</i> , <b>2009</b> , 60, 728-37		60
80	Unravelling the relationship between age, nociception and joint destruction in naturally occurring osteoarthritis of Dunkin Hartley guinea pigs. <i>Pain</i> , <b>2009</b> , 141, 222-232	8	58
79	Preclinical Assessment of Inflammatory Pain. <i>CNS Neuroscience and Therapeutics</i> , <b>2016</b> , 22, 88-101	6.8	58
78	Effects of chondroitin and glucosamine sulfate in a dietary bar formulation on inflammation, interleukin-1 $\beta$ , matrix metalloproteinase-9, and cartilage damage in arthritis. <i>Experimental Biology and Medicine</i> , <b>2005</b> , 230, 255-62	3.7	54
77	Local application of the endocannabinoid hydrolysis inhibitor URB597 reduces nociception in spontaneous and chemically induced models of osteoarthritis. <i>Pain</i> , <b>2011</b> , 152, 975-981	8	52
76	Leukocyte trafficking and pain behavioral responses to a hydrogen sulfide donor in acute monoarthritis. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2008</b> , 295, R814-20	3.2	49

75	Involvement of Nav 1.8 sodium ion channels in the transduction of mechanical pain in a rodent model of osteoarthritis. <i>Arthritis Research and Therapy</i> , <b>2012</b> , 14, R5	5.7	47
74	Efficacy, Tolerability, and Safety of Cannabinoid Treatments in the Rheumatic Diseases: A Systematic Review of Randomized Controlled Trials. <i>Arthritis Care and Research</i> , <b>2016</b> , 68, 681-8	4.7	47
73	The symptoms of osteoarthritis and the genesis of pain. <i>Medical Clinics of North America</i> , <b>2009</b> , 93, 83-100, xi	7	44
72	Proteinase-activated receptor-4 (PAR4) activation leads to sensitization of rat joint primary afferents via a bradykinin B2 receptor-dependent mechanism. <i>Journal of Neurophysiology</i> , <b>2010</b> , 103, 155-63	3.2	42
71	Neutrophil elastase induces inflammation and pain in mouse knee joints via activation of proteinase-activated receptor-2. <i>British Journal of Pharmacology</i> , <b>2016</b> , 173, 766-77	8.6	42
70	Infection with an intestinal helminth parasite reduces Freund's complete adjuvant-induced monoarthritis in mice. <i>Arthritis and Rheumatism</i> , <b>2011</b> , 63, 434-44		41
69	Helminth parasites and the modulation of joint inflammation. <i>Journal of Parasitology Research</i> , <b>2011</b> , 2011, 942616	1.9	39
68	The cannabinomimetic arachidonyl-2-chloroethylamide (ACEA) acts on capsaicin-sensitive TRPV1 receptors but not cannabinoid receptors in rat joints. <i>British Journal of Pharmacology</i> , <b>2004</b> , 142, 1361-7	8.6	39
67	Microglial pannexin-1 channel activation is a spinal determinant of joint pain. <i>Science Advances</i> , <b>2018</b> , 4, eaas9846	14.3	38
66	The abnormal cannabidiol analogue O-1602 reduces nociception in a rat model of acute arthritis via the putative cannabinoid receptor GPR55. <i>Neuroscience Letters</i> , <b>2011</b> , 500, 72-6	3.3	38
65	Lysophosphatidic acid provides a missing link between osteoarthritis and joint neuropathic pain. <i>Osteoarthritis and Cartilage</i> , <b>2017</b> , 25, 926-934	6.2	36
64	Injury-induced changes in mRNA levels differ widely between anterior cruciate ligament and medial collateral ligament. <i>American Journal of Sports Medicine</i> , <b>2008</b> , 36, 1337-46	6.8	35
63	Prophylactic inhibition of neutrophil elastase prevents the development of chronic neuropathic pain in osteoarthritic mice. <i>Journal of Neuroinflammation</i> , <b>2017</b> , 14, 168	10.1	33
62	Rheumatologists lack confidence in their knowledge of cannabinoids pertaining to the management of rheumatic complaints. <i>BMC Musculoskeletal Disorders</i> , <b>2014</b> , 15, 258	2.8	33
61	Mechanisms and Mediators That Drive Arthritis Pain. <i>Current Osteoporosis Reports</i> , <b>2015</b> , 13, 216-24	5.4	33
60	Divergent peripheral effects of pituitary adenylate cyclase-activating polypeptide-38 on nociception in rats and mice. <i>Pain</i> , <b>2009</b> , 141, 143-50	8	33
59	Attenuation of knee joint inflammation by peripherally administered endomorphin-1. <i>Journal of Molecular Neuroscience</i> , <b>2004</b> , 22, 125-37	3.3	33
58	Chronic arthritis down-regulates peripheral mu-opioid receptor expression with concomitant loss of endomorphin 1 antinociception. <i>Arthritis and Rheumatism</i> , <b>2005</b> , 52, 3210-9		32

57	Gabapentin reduces the mechanosensitivity of fine afferent nerve fibres in normal and inflamed rat knee joints. <i>Pain</i> , <b>2003</b> , 104, 363-6	8	29
56	Inhibitory effect of amiloride and gadolinium on fine afferent nerves in the rat knee: evidence of mechanogated ion channels in joints. <i>Experimental Brain Research</i> , <b>2005</b> , 167, 114-8	2.3	27
55	Murine autoimmune arthritis is exaggerated by infection with the rat tapeworm, <i>Hymenolepis diminuta</i> . <i>International Journal for Parasitology</i> , <b>2013</b> , 43, 593-601	4.3	26
54	Peripheral modulation of rat knee joint afferent mechanosensitivity by nociceptin/orphanin FQ. <i>Neuroscience Letters</i> , <b>2000</b> , 288, 123-6	3.3	26
53	The role of kinin B1 receptor and the effect of angiotensin I-converting enzyme inhibition on acute gout attacks in rodents. <i>Annals of the Rheumatic Diseases</i> , <b>2016</b> , 75, 260-8	2.4	25
52	Neuropeptides regulate expression of matrix molecule, growth factor and inflammatory mediator mRNA in explants of normal and healing medial collateral ligament. <i>Regulatory Peptides</i> , <b>2007</b> , 142, 1-6		25
51	Participation of NK1 receptors in nociceptin-induced modulation of rat knee joint mechanosensitivity. <i>Experimental Brain Research</i> , <b>2001</b> , 137, 249-53	2.3	25
50	Cannabis and joints: scientific evidence for the alleviation of osteoarthritis pain by cannabinoids. <i>Current Opinion in Pharmacology</i> , <b>2018</b> , 40, 104-109	5.1	23
49	Tapping into the endocannabinoid system to ameliorate acute inflammatory flares and associated pain in mouse knee joints. <i>Arthritis Research and Therapy</i> , <b>2014</b> , 16, 437	5.7	23
48	Activation of PAR(2) receptors sensitizes primary afferents and causes leukocyte rolling and adherence in the rat knee joint. <i>British Journal of Pharmacology</i> , <b>2012</b> , 167, 1665-78	8.6	23
47	Peripheral analgesia: Hitting pain where it hurts. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2011</b> , 1812, 459-67	6.9	21
46	Spatial variation in sympathetic influences on the vasculature of the synovium and medial collateral ligament of the rabbit knee joint. <i>Journal of Physiology</i> , <b>1997</b> , 503 ( Pt 2), 435-43	3.9	21
45	A role for calcitonin gene-related peptide in rabbit knee joint ligament healing. <i>Canadian Journal of Physiology and Pharmacology</i> , <b>2000</b> , 78, 535-540	2.4	21
44	Loss of vasomotor responsiveness to the mu-opioid receptor ligand endomorphin-1 in adjuvant monoarthritic rat knee joints. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2004</b> , 286, R634-41	3.2	20
43	Role of capsaicin-sensitive nerves and tachykinins in mast cell tryptase-induced inflammation of murine knees. <i>Inflammation Research</i> , <b>2016</b> , 65, 725-36	7.2	18
42	Evaluation of the novel avocado/soybean unsaponifiable Arthrocen to alter joint pain and inflammation in a rat model of osteoarthritis. <i>PLoS ONE</i> , <b>2018</b> , 13, e0191906	3.7	17
41	Vascular volume determination of articular tissues in normal and anterior cruciate ligament-deficient rabbit knees. <i>The Anatomical Record</i> , <b>1998</b> , 251, 207-13		17
40	Stimulation of sensory neuropeptide release by nociceptin/orphanin FQ leads to hyperaemia in acutely inflamed rat knees. <i>British Journal of Pharmacology</i> , <b>2006</b> , 148, 938-46	8.6	17

39	The role of joint nerves and mast cells in the alteration of vasoactive intestinal peptide (VIP) sensitivity during inflammation progression in rats. <i>British Journal of Pharmacology</i> , <b>2005</b> , 145, 104-13	8.6	17
38	The pronociceptive effect of proteinase-activated receptor-4 stimulation in rat knee joints is dependent on mast cell activation. <i>Pain</i> , <b>2011</b> , 152, 354-360	8	16
37	Nociceptin/orphanin FQ evokes knee joint pain in rats via a mast cell independent mechanism. <i>Neuroscience Letters</i> , <b>2006</b> , 398, 135-8	3.3	16
36	Early blockade of joint inflammation with a fatty acid amide hydrolase inhibitor decreases end-stage osteoarthritis pain and peripheral neuropathy in mice. <i>Arthritis Research and Therapy</i> , <b>2017</b> , 19, 106	5.7	15
35	Age and frailty as risk factors for the development of osteoarthritis. <i>Mechanisms of Ageing and Development</i> , <b>2019</b> , 180, 21-28	5.6	15
34	Targeting the Nav1.8 ion channel engenders sex-specific responses in lysophosphatidic acid-induced joint neuropathy. <i>Pain</i> , <b>2019</b> , 160, 269-278	8	15
33	The role of proteases in pain. <i>Handbook of Experimental Pharmacology</i> , <b>2015</b> , 227, 239-60	3.2	14
32	Neurophysiology of arthritis pain. <i>Current Pain and Headache Reports</i> , <b>2012</b> , 16, 485-91	4.2	14
31	Cholinergic vasoregulation in normal and adjuvant monoarthritic rat knee joints. <i>Journal of the Autonomic Nervous System</i> , <b>1998</b> , 72, 55-60		13
30	Abrogation of alpha-adrenergic vasoactivity in chronically inflamed rat knee joints. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2001</b> , 281, R821-7	3.2	13
29	Neurogenic origin of articular hyperemia in early degenerative joint disease. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>1999</b> , 276, R745-52	3.2	12
28	Involvement of Mast Cells in $\alpha$ 7 Nicotinic Receptor Agonist Exacerbation of Freund's Complete Adjuvant-Induced Monoarthritis in Mice. <i>Arthritis and Rheumatology</i> , <b>2016</b> , 68, 542-52	9.5	12
27	Lack of Galanin 3 Receptor Aggravates Murine Autoimmune Arthritis. <i>Journal of Molecular Neuroscience</i> , <b>2016</b> , 59, 260-9	3.3	11
26	Clinical implications for cannabinoid use in the rheumatic diseases: potential for help or harm?. <i>Arthritis and Rheumatism</i> , <b>2012</b> , 64, 2417-25		11
25	Endocannabinoids inhibit neurogenic inflammation in murine joints by a non-canonical cannabinoid receptor mechanism. <i>Neuropeptides</i> , <b>2017</b> , 64, 131-135	3.3	9
24	Involvement of sympathetic efferents but not capsaicin-sensitive afferents in nociceptin-mediated dual control of rat synovial blood flow. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2003</b> , 284, R1477-85	3.2	8
23	Combatting joint pain and inflammation by dual inhibition of monoacylglycerol lipase and cyclooxygenase-2 in a rat model of osteoarthritis. <i>Arthritis Research and Therapy</i> , <b>2020</b> , 22, 9	5.7	7
22	Late gestational changes in sympathomimetic sensitivity in primigravid rabbit ligaments. <i>Canadian Journal of Physiology and Pharmacology</i> , <b>2000</b> , 78, 528-534	2.4	7

21	Dynamic measurement of bone blood perfusion with modified laser Doppler imaging. <i>Journal of Orthopaedic Research</i> , <b>1999</b> , 17, 578-81	3.8	7
20	Inhibition of nitric oxide production during electrical stimulation of the nerves supplying the rat knee joint. <i>Journal of the Autonomic Nervous System</i> , <b>1996</b> , 57, 73-7		7
19	Age alters the ability of substance P to sensitize joint nociceptors in guinea pigs. <i>Journal of Molecular Neuroscience</i> , <b>2007</b> , 31, 289-96	3.3	7
18	Alpha-1-antitrypsin reduces inflammation and exerts chondroprotection in arthritis. <i>FASEB Journal</i> , <b>2021</b> , 35, e21472	0.9	6
17	Osteoarthritis is a neurological disease: an hypothesis. <i>Osteoarthritis and Cartilage Open</i> , <b>2019</b> , 1, 100005	5.5	5
16	Denervation alters mRNA levels of repair-associated genes in a rabbit medial collateral ligament injury model. <i>Journal of Orthopaedic Research</i> , <b>2006</b> , 24, 1842-53	3.8	5
15	Cannabinoid control of neurogenic inflammation. <i>British Journal of Pharmacology</i> , <b>2020</b> , 177, 4386-4399	8.6	5
14	Cannabinoids and Pain Control in the Periphery	325-345	5
13	Understanding osteoarthritis pain through animal models. <i>Clinical and Experimental Rheumatology</i> , <b>2017</b> , 35 Suppl 107, 47-52	2.2	5
12	Adaptation of post-traumatic angiogenesis in the rabbit knee by apposition of torn ligament ends. <i>Journal of Orthopaedic Research</i> , <b>2000</b> , 18, 663-70	3.8	4
11	Repetitive activity alters perfusion of proximal interphalangeal joints of the human hand. <i>Clinical Journal of Sport Medicine</i> , <b>1998</b> , 8, 106-10	3.2	4
10	Pregnancy-induced changes in rabbit medial collateral ligament vasoregulation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>1998</b> , 275, R1380-5	3.2	3
9	Galanin 3 receptor-deficient mice show no alteration in the oxazolone-induced contact dermatitis phenotype. <i>Experimental Dermatology</i> , <b>2016</b> , 25, 725-7	4	3
8	Protease Activated Receptors and Arthritis. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	3
7	Pain responses to protease-activated receptor-2 stimulation in the spinal cord of naïve and arthritic rats. <i>Neuroscience Letters</i> , <b>2020</b> , 739, 135391	3.3	2
6	Intracellular versus extracellular inhibition of calpain I causes differential effects on pain in a rat model of joint inflammation. <i>Molecular Pain</i> , <b>2021</b> , 17, 17448069211016141	3.4	2
5	Role of Primary Afferents in Arthritis Induced Spinal Microglial Reactivity. <i>Frontiers in Immunology</i> , <b>2021</b> , 12, 626884	8.4	1
4	Joint Damage and Neuropathic Pain in Rats Treated With Lysophosphatidic Acid.. <i>Frontiers in Immunology</i> , <b>2022</b> , 13, 811402	8.4	0

3 Proteinase-Activated Receptors and Arthritis **2011**, 217-242

2 K/BxN-induced poly-arthritis is exacerbated by infection with the intestinal helminth parasite *Hymenolepis diminuta*; possible involvement of complement and mast cells. *FASEB Journal*, **2013**, 27, 648.9 0.9

1 Targeting Proteinase Activated Receptor-4 Reduces Mechanonociception During the Acute Inflammatory Phase but not the Chronic Neuropathic Phase of Osteoarthritis in Rats.. *Frontiers in Pharmacology*, **2021**, 12, 756632 5.6