Rachel E Miller

List of Publications by Citations

44 papers	1,537 citations	24 h-index	38 g-index
51 ext. papers	1,967 ext. citations	6.3 avg, IF	5 L-index

#	Paper	IF	Citations
44	CCR2 chemokine receptor signaling mediates pain in experimental osteoarthritis. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 20602-7	11.5	167
43	Osteoarthritis joint pain: the cytokine connection. *Cytokine*, **2014**, 70, 185-93	4	141
42	PCSK6-mediated corin activation is essential for normal blood pressure. *Nature Medicine*, **2015**, 21, 1048-53	30.5	83
41	Translational development of an ADAMTS-5 antibody for osteoarthritis disease modification. *Osteoarthritis and Cartilage*, **2015**, 23, 1254-66	6.2	75
40	Effect of self-assembling peptide, chondrogenic factors, and bone marrow-derived stromal cells on osteochondral repair. *Osteoarthritis and Cartilage*, **2010**, 18, 1608-19	6.2	75
39	CCL2 and CCR2 regulate pain-related behaviour and early gene expression in post-traumatic murine osteoarthritis but contribute little to chondropathy. *Osteoarthritis and Cartilage*, **2017**, 25, 406-412	6.2	65
38	Damage-associated molecular patterns generated in osteoarthritis directly excite murine nociceptive neurons through Toll-like receptor 4. *Arthritis and Rheumatology*, **2015**, 67, 2933-43	9.5	60
37	Intraarticular injection of heparin-binding insulin-like growth factor 1 sustains delivery of insulin-like growth factor 1 to cartilage through binding to chondroitin sulfate. *Arthritis and Rheumatism*, **2010**, 62, 3686-94		50
36	An aggrecan fragment drives osteoarthritis pain through Toll-like receptor 2. *JCI Insight*, **2018**, 3,	9.9	50
35	Therapeutic effects of an anti-ADAMTS-5 antibody on joint damage and mechanical allodynia in a murine model of osteoarthritis. *Osteoarthritis and Cartilage*, **2016**, 24, 299-306	6.2	49
34	Mathematical modeling of material-induced blood plasma coagulation. *Biomaterials*, **2006**, 27, 796-806	15.6	45
33	Procoagulant stimulus processing by the intrinsic pathway of blood plasma coagulation. *Biomaterials*, **2005**, 26, 2965-73	15.6	43
32	Peripheral Mechanisms Contributing to Osteoarthritis Pain. *Current Rheumatology Reports*, **2018**, 20, 9	4.9	39
31	What is new in pain modification in osteoarthritis?. *Rheumatology*, **2018**, 57, iv99-iv107	3.9	37
30	Effects of Dexamethasone on Mesenchymal Stromal Cell Chondrogenesis and Aggrecanase Activity: Comparison of Agarose and Self-Assembling Peptide Scaffolds. *Cartilage*, **2013**, 4, 63-74	3	36
29	Plasma coagulation response to surfaces with nanoscale chemical heterogeneity. *Biomaterials*, **2006**, 27, 208-15	15.6	35
28	Nerve growth factor blockade for the management of osteoarthritis pain: what can we learn from clinical trials and preclinical models?. *Current Opinion in Rheumatology*, **2017**, 29, 110-118	5.3	34

27	Chemogenetic Inhibition of Pain Neurons in a Mouse Model of Osteoarthritis. *Arthritis and Rheumatology*, **2017**, 69, 1429-1439	9.5	31
26	The innate immune response as a mediator of osteoarthritis pain. *Osteoarthritis and Cartilage*, **2020**, 28, 562-571	6.2	30
25	TRPC5 Does Not Cause or Aggravate Glomerular Disease. *Journal of the American Society of Nephrology: JASN*, **2018**, 29, 409-415	12.7	29
24	Engineering insulin-like growth factor-1 for local delivery. *FASEB Journal*, **2008**, 22, 1886-93	0.9	29
23	Growth factor delivery through self-assembling peptide scaffolds. *Clinical Orthopaedics and Related Research*, **2011**, 469, 2716-24	2.2	27
22	The Role of Peripheral Nociceptive Neurons in the Pathophysiology of Osteoarthritis Pain. *Current Osteoporosis Reports*, **2015**, 13, 318-26	5.4	26
21	Spinal microglial activation in a murine surgical model of knee osteoarthritis. *Osteoarthritis and Cartilage*, **2017**, 25, 718-726	6.2	25
20	Genetically Engineered Mouse Models Reveal the Importance of Proteases as Osteoarthritis Drug Targets. *Current Rheumatology Reports*, **2013**, 15, 350	4.9	24
19	Effects of the combination of microfracture and self-assembling Peptide filling on the repair of a clinically relevant trochlear defect in an equine model. *Journal of Bone and Joint Surgery - Series A*, **2014**, 96, 1601-9	5.6	24
18	Delivering heparin-binding insulin-like growth factor 1 with self-assembling peptide hydrogels. *Tissue Engineering - Part A*, **2015**, 21, 637-46	3.9	23
17	Visualization of Peripheral Neuron Sensitization in a Surgical Mouse Model of Osteoarthritis by In Vivo Calcium Imaging. *Arthritis and Rheumatology*, **2018**, 70, 88-97	9.5	22
16	Osteoarthritis pain: What are we learning from animal models?. *Best Practice and Research in Clinical Rheumatology*, **2017**, 31, 676-687	5.3	22
15	Current status of nerve growth factor antibodies for the treatment of osteoarthritis pain. *Clinical and Experimental Rheumatology*, **2017**, 35 Suppl 107, 85-87	2.2	22
14	The nociceptive innervation of the normal and osteoarthritic mouse knee. *Osteoarthritis and Cartilage*, **2019**, 27, 1669-1679	6.2	21
13	An emerging role for Toll-like receptors at the neuroimmune interface in osteoarthritis. *Seminars in Immunopathology*, **2019**, 41, 583-594	12	19
12	Targeting neurotrophic factors: Novel approaches to musculoskeletal pain. *Pharmacology & Therapeutics*, **2020**, 211, 107553	13.9	13
11	Chemokine receptor-7 (CCR7) deficiency leads to delayed development of joint damage and functional deficits in a murine model of osteoarthritis. *Journal of Orthopaedic Research*, **2018**, 36, 864-875	3.8	10
10	Microarray analyses of the dorsal root ganglia support a role for innate neuro-immune pathways in persistent pain in experimental osteoarthritis. *Osteoarthritis and Cartilage*, **2020**, 28, 581-592	6.2	9

9	Is cannabis an effective treatment for joint pain?. *Clinical and Experimental Rheumatology*, **2017**, 35 Suppl 107, 59-67	2.2	7
8	Pain-related behaviors and abnormal cutaneous innervation in a murine model of classical Ehlers-Danlos syndrome. *Pain*, **2020**, 161, 2274-2283	8	6
7	Neuroimmune interactions and osteoarthritis pain: focus on macrophages. *Pain Reports*, **2021**, 6, e892	3.5	6
6	Basic Mechanisms of Pain in Osteoarthritis: Experimental Observations and New Perspectives. *Rheumatic Disease Clinics of North America*, **2021**, 47, 165-180	2.4	5
5	The role of intra-articular neuronal CCR2 receptors in knee joint pain associated with experimental osteoarthritis in mice. *Arthritis Research and Therapy*, **2021**, 23, 103	5.7	4
4	Animal Models of Ehlers-Danlos Syndromes: Phenotype, Pathogenesis, and Translational Potential. *Frontiers in Genetics*, **2021**, 12, 726474	4.5	3
3	The Genesis of Pain in Osteoarthritis: Inflammation as a Mediator of Osteoarthritis Pain.. *Clinics in Geriatric Medicine*, **2022**, 38, 221-238	3.8	3
2	Pain in the Ehlers-Danlos syndromes: Mechanisms, models, and challenges. *American Journal of Medical Genetics, Part C: Seminars in Medical Genetics*, **2021**, 187, 429-445	3.1	2
1	An update on targets for treating osteoarthritis pain: NGF and TRPV1. *Current Treatment Options in Rheumatology*, **2020**, 6, 129-145	1.3	2