Tonia L Vincent

List of Publications by Citations

71 papers	2,463 citations	30 h-index	48 g-index
98 ext. papers	3,067 ext. citations	6.1 avg, IF	5.57 L-index

#	Paper	IF	Citations
71	Basic FGF mediates an immediate response of articular cartilage to mechanical injury. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 8259-64	11.5	170
70	Fibroblast growth factor 2 is an intrinsic chondroprotective agent that suppresses ADAMTS-5 and delays cartilage degradation in murine osteoarthritis. *Arthritis and Rheumatism*, **2009**, 60, 2019-27		139
69	Joint immobilization prevents murine osteoarthritis and reveals the highly mechanosensitive nature of protease expression in vivo. *Arthritis and Rheumatism*, **2012**, 64, 2278-88		104
68	Treatment of murine osteoarthritis with TrkAd5 reveals a pivotal role for nerve growth factor in non-inflammatory joint pain. *Pain*, **2010**, 149, 386-392	8	100
67	Basic fibroblast growth factor mediates transduction of mechanical signals when articular cartilage is loaded. *Arthritis and Rheumatism*, **2004**, 50, 526-33		100
66	Regulation of pain sensitivity in experimental osteoarthritis by the endogenous peripheral opioid system. *Arthritis and Rheumatism*, **2008**, 58, 3110-9		97
65	The microRNA-29 family in cartilage homeostasis and osteoarthritis. *Journal of Molecular Medicine*, **2016**, 94, 583-96	5.5	87
64	Mapping pathogenesis of arthritis through small animal models. *Rheumatology*, **2012**, 51, 1931-41	3.9	85
63	Targeting mechanotransduction pathways in osteoarthritis: a focus on the pericellular matrix. *Current Opinion in Pharmacology*, **2013**, 13, 449-54	5.1	70
62	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
61	Hand osteoarthritis: clinical phenotypes, molecular mechanisms and disease management. *Nature Reviews Rheumatology*, **2018**, 14, 641-656	8.1	64
60	Induction of interleukin-1 in articular cartilage by explantation and cutting. *Arthritis and Rheumatism*, **2004**, 50, 2539-46		62
59	Sulforaphane represses matrix-degrading proteases and protects cartilage from destruction in vitro and in vivo. *Arthritis and Rheumatism*, **2013**, 65, 3130-40		59
58	Interleukin-1 Acts via the JNK-2 Signaling Pathway to Induce Aggrecan Degradation by Human Chondrocytes. *Arthritis and Rheumatology*, **2015**, 67, 1826-36	9.5	58
57	Novel gene function revealed by mouse mutagenesis screens for models of age-related disease. *Nature Communications*, **2016**, 7, 12444	17.4	56
56	Fibroblast growth factor 2 inhibits induction of aggrecanase activity in human articular cartilage. *Arthritis and Rheumatism*, **2008**, 58, 3498-509		51
55	Nociceptive Sensitizers Are Regulated in Damaged Joint Tissues, Including Articular Cartilage, When Osteoarthritic Mice Display Pain Behavior. *Arthritis and Rheumatology*, **2016**, 68, 857-67	9.5	51

54	Fibroblast growth factor 2 drives changes in gene expression following injury to murine cartilage in vitro and in vivo. *Arthritis and Rheumatism*, **2013**, 65, 2346-55		48
53	Acute Molecular Changes in Synovial Fluid Following Human Knee Injury: Association With Early Clinical Outcomes. *Arthritis and Rheumatology*, **2016**, 68, 2129-40	9.5	48
52	IL-1 in osteoarthritis: time for a critical review of the literature. *F1000Research*, **2019**, 8,	3.6	45
51	Transcriptional analysis of micro-dissected articular cartilage in post-traumatic murine osteoarthritis. *Osteoarthritis and Cartilage*, **2015**, 23, 616-28	6.2	44
50	Connective tissue growth factor contributes to joint homeostasis and osteoarthritis severity by controlling the matrix sequestration and activation of latent TGF *Annals of the Rheumatic Diseases*, **2018**, 77, 1372-1380	2.4	42
49	Imaging technologies for preclinical models of bone and joint disorders. *EJNMMI Research*, **2011**, 1, 11	3.6	41
48	Mechanoadaptation: articular cartilage through thick and thin. *Journal of Physiology*, **2019**, 597, 1271-1281	3.9	40
47	Hydroxychloroquine Effectiveness in Reducing Symptoms of Hand Osteoarthritis: A Randomized Trial. *Annals of Internal Medicine*, **2018**, 168, 385-395	8	39
46	In vivo fluorescence imaging of E-selectin: quantitative detection of endothelial activation in a mouse model of arthritis. *Arthritis and Rheumatism*, **2011**, 63, 107-17		38
45	Brief Report: JNK-2 Controls Aggrecan Degradation in Murine Articular Cartilage and the Development of Experimental Osteoarthritis. *Arthritis and Rheumatology*, **2016**, 68, 1165-71	9.5	34
44	Increased thrombin generation in women with recurrent miscarriage. *Lancet, The*, **1998**, 352, 116	40	34
43	Src and fibroblast growth factor 2 independently regulate signaling and gene expression induced by experimental injury to intact articular cartilage. *Arthritis and Rheumatism*, **2013**, 65, 397-407		33
42	In vivo optical imaging in arthritis--an enlightening future?. *Rheumatology*, **2010**, 49, 1436-46	3.9	33
41	Targeting of viral interleukin-10 with an antibody fragment specific to damaged arthritic cartilage improves its therapeutic potency. *Arthritis Research and Therapy*, **2014**, 16, R151	5.7	30
40	Mechanoflammation in osteoarthritis pathogenesis. *Seminars in Arthritis and Rheumatism*, **2019**, 49, S36-S38	3.9	30
39	Sjgren s syndrome-associated myelopathy: response to immunosuppressive treatment. *American Journal of Medicine*, **2003**, 114, 145-8	2.4	26
38	Active immunisation targeting nerve growth factor attenuates chronic pain behaviour in murine osteoarthritis. *Annals of the Rheumatic Diseases*, **2019**, 78, 672-675	2.4	25
37	Functional Characterization of the Osteoarthritis Genetic Risk Residing at ALDH1A2 Identifies rs12915901 as a Key Target Variant. *Arthritis and Rheumatology*, **2018**, 70, 1577-1587	9.5	25

36	G mutation in mice causes hypocalcemia rectifiable by calcilytic therapy. *JCI Insight*, **2017**, 2, e91103	9.9	25
35	Of mice and men: converging on a common molecular understanding of osteoarthritis. *Lancet Rheumatology, The*, **2020**, 2, e633-e645	14.2	25
34	Automated assessment of bone changes in cross-sectional micro-CT studies of murine experimental osteoarthritis. *PLoS ONE*, **2017**, 12, e0174294	3.7	23
33	Synchrotron- and laboratory-based X-ray phase-contrast imaging for imaging mouse articular cartilage in the absence of radiopaque contrast agents. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2014**, 372, 20130127	3	21
32	Hydroxychloroquine effectiveness in reducing symptoms of hand osteoarthritis (HERO): study protocol for a randomized controlled trial. *Trials*, **2013**, 14, 64	2.8	20
31	Heparan Sulfate Proteoglycan Synthesis Is Dysregulated in Human Osteoarthritic Cartilage. *American Journal of Pathology*, **2019**, 189, 632-647	5.8	18
30	Peripheral pain mechanisms in osteoarthritis. *Pain*, **2020**, 161 Suppl 1, S138-S146	8	17
29	FGF-2 promotes osteocyte differentiation through increased E11/podoplanin expression. *Journal of Cellular Physiology*, **2018**, 233, 5334-5347	7	17
28	Night-time immobilization of the distal interphalangeal joint reduces pain and extension deformity in hand osteoarthritis. *Rheumatology*, **2014**, 53, 1142-9	3.9	15
27	Novel compound heterozygous mutations in ENPP1 cause hypophosphataemic rickets with anterior spinal ligament ossification. *Rheumatology*, **2012**, 51, 1919-21	3.9	15
26	Rapid Activation of Transforming Growth Factor Activated Kinase 1 in Chondrocytes by Phosphorylation and K -Linked Polyubiquitination Upon Injury to Animal Articular Cartilage. *Arthritis and Rheumatology*, **2017**, 69, 565-575	9.5	14
25	In vivo optical imaging of early osteoarthritis using an antibody specific to damaged arthritic cartilage. *Arthritis Research and Therapy*, **2015**, 17, 376	5.7	14
24	Cyclic mechanical load causes global translational arrest in articular chondrocytes: a process which is partially dependent upon PKR phosphorylation. *European Cells and Materials*, **2011**, 22, 178-89	4.3	13
23	Ciliary proteins specify the cell inflammatory response by tuning NF signalling, independently of primary cilia. *Journal of Cell Science*, **2020**, 133,	5.3	9
22	Translation of clinical problems in osteoarthritis into pathophysiological research goals. *RMD Open*, **2016**, 2, e000224	5.9	9
21	Design and Evaluation of Magnetic Hall Effect Tactile Sensors for Use in Sensorized Splints. *Sensors*, **2020**, 20,	3.8	8
20	Are cellular mechanosensors potential therapeutic targets in osteoarthritis?. *International Journal of Clinical Rheumatology*, **2014**, 9, 155-167	1.5	7
19	Does Pain at an Earlier Stage of Chondropathy Protect Female Mice Against Structural Progression After Surgically Induced Osteoarthritis?. *Arthritis and Rheumatology*, **2020**, 72, 2083-2093	9.5	6

18	Studying Osteoarthritis Pathogenesis in Mice. *Current Protocols in Mouse Biology*, **2018**, 8, e50	1.1	6
17	Age-dependent changes in protein incorporation into collagen-rich tissues of mice by in vivo pulsed SILAC labelling. *ELife*, **2021**, 10,	8.9	6
16	Matrix-Bound Growth Factors are Released upon Cartilage Compression by an Aggrecan-Dependent Sodium Flux that is Lost in Osteoarthritis. *Function*, **2021**, 2, zqab037	6.1	5
15	Application of autofluorescence robotic histology for quantitative evaluation of the 3-dimensional morphology of murine articular cartilage. *Microscopy Research and Technique*, **2017**, 80, 1351-1360	2.8	3
14	Comparison of LABORAS with static incapacitance testing for assessing spontaneous pain behaviour in surgically-induced murine osteoarthritis. *Osteoarthritis and Cartilage Open*, **2020**, 2, 100101	1.5	2
13	The Effects of Age and Cell Isolation on Collagen II Synthesis by Articular Chondrocytes: Evidence for Transcriptional and Posttranscriptional Regulation. *BioMed Research International*, **2020**, 2020, 4060135	3	2
12	A late presentation of Loeys-Dietz syndrome: joint hypermobility is not always benign. *Rheumatology*, **2014**, 53, 574-6	3.9	2
11	TSG-6 Is Weakly Chondroprotective in Murine OA but Does not Account for FGF2-Mediated Joint Protection. *ACR Open Rheumatology*, **2020**, 2, 605-615	3.5	2
10	The ciliary protein IFT88 controls post-natal cartilage thickness and influences development of osteoarthritis. *Arthritis and Rheumatology*, **2021**,	9.5	2
9	Clinical and molecular associations with outcomes at 2 years after acute knee injury: a longitudinal study in the Knee Injury Cohort at the Kennedy (KICK). *Lancet Rheumatology, The*, **2021**, 3, e648-e658	14.2	2
8	Cartilage Injury and Osteoarthritis **2017**, 27-40		1
7	The ciliary protein IFT88 controls post-natal cartilage thickness and influences development of osteoarthritis		1
6	Osteoarthritis Pathophysiology: Therapeutic Target Discovery may Require a Multifaceted Approach.. *Clinics in Geriatric Medicine*, **2022**, 38, 193-219	3.8	1
5	The Extracellular Matrix of Articular Cartilage Controls the Bioavailability of Pericellular Matrix-Bound Growth Factors to Drive Tissue Homeostasis and Repair. *International Journal of Molecular Sciences*, **2022**, 23, 6003	6.3	1
4	The Musculoskeletal Manifestations of Marfan Syndrome: Diagnosis, Impact, and Management. *Current Rheumatology Reports*, **2021**, 23, 81	4.9	0
3	Hand Osteoarthritis: investigating Pain Effects of estrogen-containing therapy (HOPE-e): a protocol for a feasibility randomised placebo-controlled trial. *Pilot and Feasibility Studies*, **2021**, 7, 133	1.9	0
2	Cartilage Repair Activity during Joint-Preserving Treatment May Be Accompanied by Osteophyte Formation. *Applied Sciences (Switzerland)*, **2021**, 11, 7156	2.6	0
1	Imaging articular cartilage in osteoarthritis using targeted peptide radiocontrast agents.. *PLoS ONE* , **2022**, 17, e0268223	3.7	0