Tonia L Vincent

List of Publications by Year in descending order

82 papers	3,544 citations	109264 35 h-index	149623 56 g-index
98 all docs	98 docs citations	98 times ranked	3992 citing authors

#	Article	IF	Citations
1	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, 8259-8264.	3.3	206
2	Fibroblast growth factor 2 is an intrinsic chondroprotective agent that suppresses ADAMTSâ€5 and delays cartilage degradation in murine osteoarthritis. Arthritis and Rheumatism, 2009, 60, 2019-2027.	6.7	178
3	Joint immobilization prevents murine osteoarthritis and reveals the highly mechanosensitive nature of protease expression in vivo. Arthritis and Rheumatism, 2012, 64, 2278-2288.	6.7	127
4	Hand osteoarthritis: clinical phenotypes, molecular mechanisms and disease management. Nature Reviews Rheumatology, 2018, 14, 641-656.	3.5	126
5	Treatment of murine osteoarthritis with TrkAd5 reveals a pivotal role for nerve growth factor in non-inflammatory joint pain. Pain, 2010, 149, 386-392.	2.0	121
6	Basic fibroblast growth factor mediates transduction of mechanical signals when articular cartilage is loaded. Arthritis and Rheumatism, 2004, 50, 526-533.	6.7	115
7	The microRNA-29 family in cartilage homeostasis and osteoarthritis. Journal of Molecular Medicine, 2016, 94, 583-596.	1.7	106
8	Regulation of pain sensitivity in experimental osteoarthritis by the endogenous peripheral opioid system. Arthritis and Rheumatism, 2008, 58, 3110-3119.	6.7	104
9	Mapping pathogenesis of arthritis through small animal models. Rheumatology, 2012, 51, 1931-1941.	0.9	101
10	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.	0.6	95
11	IL-1 in osteoarthritis: time for a critical review of the literature. F1000Research, 2019, 8, 934.	0.8	94
12	Targeting mechanotransduction pathways in osteoarthritis: a focus on the pericellular matrix. Current Opinion in Pharmacology, 2013, 13, 449-454.	1.7	89
13	Novel gene function revealed by mouse mutagenesis screens for models of age-related disease. Nature Communications, 2016, 7, 12444.	5.8	79
14	Mechanoflammation in osteoarthritis pathogenesis. Seminars in Arthritis and Rheumatism, 2019, 49, S36-S38.	1.6	78
15	Induction of interleukin-1 in articular cartilage by explantation and cutting. Arthritis and Rheumatism, 2004, 50, 2539-2546.	6.7	76
16	Nociceptive Sensitizers Are Regulated in Damaged Joint Tissues, Including Articular Cartilage, When Osteoarthritic Mice Display Pain Behavior. Arthritis and Rheumatology, 2016, 68, 857-867.	2.9	73
17	Connective tissue growth factor contributes to joint homeostasis and osteoarthritis severity by controlling the matrix sequestration and activation of latent TGFÎ². Annals of the Rheumatic Diseases, 2018, 77, 1372-1380.	0.5	72
18	Peripheral pain mechanisms in osteoarthritis. Pain, 2020, 161, S138-S146.	2.0	72

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19	Sulforaphane Represses Matrixâ€Degrading Proteases and Protects Cartilage From Destruction In Vitro and In Vivo. Arthritis and Rheumatism, 2013, 65, 3130-3140.	6.7	71
20	Interleukinâ€1 Acts via the JNKâ€2 Signaling Pathway to Induce Aggrecan Degradation by Human Chondrocytes. Arthritis and Rheumatology, 2015, 67, 1826-1836.	2.9	71
21	Mechanoadaptation: articular cartilage through thick and thin. Journal of Physiology, 2019, 597, 1271-1281.	1.3	67
22	Transcriptional analysis of micro-dissected articular cartilage in post-traumatic murine osteoarthritis. Osteoarthritis and Cartilage, 2015, 23, 616-628.	0.6	66
23	Fibroblast growth factor 2 inhibits induction of aggrecanase activity in human articular cartilage. Arthritis and Rheumatism, 2008, 58, 3498-3509.	6.7	64
24	Acute Molecular Changes in Synovial Fluid Following Human Knee Injury: Association With Early Clinical Outcomes. Arthritis and Rheumatology, 2016, 68, 2129-2140.	2.9	64
25	Hydroxychloroquine Effectiveness in Reducing Symptoms of Hand Osteoarthritis. Annals of Internal Medicine, 2018, 168, 385.	2.0	63
26	Fibroblast Growth Factor 2 Drives Changes in Gene Expression Following Injury to Murine Cartilage In Vitro and In Vivo. Arthritis and Rheumatism, 2013, 65, 2346-2355.	6.7	61
27	Of mice and men: converging on a common molecular understanding of osteoarthritis. Lancet Rheumatology, The, 2020, 2, e633-e645.	2.2	52
28	Imaging technologies for preclinical models of bone and joint disorders. EJNMMI Research, 2011, 1, 11.	1.1	49
29	Brief Report: JNKâ€2 Controls Aggrecan Degradation in Murine Articular Cartilage and the Development of Experimental Osteoarthritis. Arthritis and Rheumatology, 2016, 68, 1165-1171.	2.9	49
30	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.	6.7	46
31	Functional Characterization of the Osteoarthritis Genetic Risk Residing at ALDH1A2 Identifies rs12915901 as a Key Target Variant. Arthritis and Rheumatology, 2018, 70, 1577-1587.	2.9	45
32	Increased thrombin generation in women with recurrent miscarriage. Lancet, The, 1998, 352, 116.	6.3	44
33	In vivo fluorescence imaging of Eâ€selectin: Quantitative detection of endothelial activation in a mouse model of arthritis. Arthritis and Rheumatism, 2011, 63, 107-117.	6.7	42
34	In vivo optical imaging in arthritis--an enlightening future?. Rheumatology, 2010, 49, 1436-1446.	0.9	37
35	Active immunisation targeting nerve growth factor attenuates chronic pain behaviour in murine osteoarthritis. Annals of the Rheumatic Diseases, 2019, 78, 672-675.	0.5	37
36	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.	1.6	35

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37	Heparan Sulfate Proteoglycan Synthesis Is Dysregulated in Human Osteoarthritic Cartilage. American Journal of Pathology, 2019, 189, 632-647.	1.9	33
38	Automated assessment of bone changes in cross-sectional micro-CT studies of murine experimental osteoarthritis. PLoS ONE, 2017, 12, e0174294.	1.1	32
39	Fibroblast growth factor 2: good or bad guy in the joint?. Arthritis Research and Therapy, 2011, 13, 127.	1.6	31
40	SjÃ¶grenâ€™s syndromeâ€“associated myelopathy:. American Journal of Medicine, 2003, 114, 145-148.	0.6	30
41	Rapid Activation of Transforming Growth Factor Î²â€“Activated Kinase 1 in Chondrocytes by Phosphorylation and K⁶³â€Linked Polyubiquitination Upon Injury to Animal Articular Cartilage. Arthritis and Rheumatology, 2017, 69, 565-575.	2.9	29
42	GÎ±11 mutation in mice causes hypocalcemia rectifiable by calcilytic therapy. JCI Insight, 2017, 2, e91103.	2.3	28
43	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.	1.6	27
44	Hydroxychloroquine effectiveness in reducing symptoms of hand osteoarthritis (HERO): study protocol for a randomized controlled trial. Trials, 2013, 14, 64.	0.7	26
45	FGF-2 promotes osteocyte differentiation through increased E11/podoplanin expression. Journal of Cellular Physiology, 2018, 233, 5334-5347.	2.0	23
46	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.	2.9	22
47	Age-dependent changes in protein incorporation into collagen-rich tissues of mice by in vivo pulsed SILAC labelling. ELife, 2021, 10, .	2.8	22
48	Role of Ciliary Protein Intraflagellar Transport Protein 88 in the Regulation of Cartilage Thickness and Osteoarthritis Development in Mice. Arthritis and Rheumatology, 2022, 74, 49-59.	2.9	21
49	Novel compound heterozygous mutations in ENPP1 cause hypophosphataemic rickets with anterior spinal ligament ossification. Rheumatology, 2012, 51, 1919-1921.	0.9	20
50	Ciliary proteins specify the cell inflammatory response by tuning NFÎºB signaling, independently of primary cilia. Journal of Cell Science, 2020, 133, .	1.2	20
51	Night-time immobilization of the distal interphalangeal joint reduces pain and extension deformity in hand osteoarthritis. Rheumatology, 2014, 53, 1142-1149.	0.9	17
52	In vivo optical imaging of early osteoarthritis using an antibody specific to damaged arthritic cartilage. Arthritis Research and Therapy, 2015, 17, 376.	1.6	17
53	Design and Evaluation of Magnetic Hall Effect Tactile Sensors for Use in Sensorized Splints. Sensors, 2020, 20, 1123.	2.1	17
54	Osteoarthritis Pathophysiology. Clinics in Geriatric Medicine, 2022, 38, 193-219.	1.0	17

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55	Translation of clinical problems in osteoarthritis into pathophysiological research goals. RMD Open, 2016, 2, e000224.	1.8	16
56	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.	2.2	16
57	Matrix-Bound Growth Factors are Released upon Cartilage Compression by an Aggrecan-Dependent Sodium Flux that is Lost in Osteoarthritis. Function, 2021, 2, zqab037.	1.1	15
58	Cyclic mechanical load causes global translational arrest in articular chondrocytes: a process which is partially dependent upon PKR phosphorylation. , 2011, 22, 178-189.		15
59	Mechanical forces couple bone matrix mineralization with inhibition of angiogenesis to limit adolescent bone growth. Nature Communications, 2022, 13, .	5.8	15
60	The Musculoskeletal Manifestations of Marfan Syndrome: Diagnosis, Impact, and Management. Current Rheumatology Reports, 2021, 23, 81.	2.1	14
61	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.	1.8	14
62	Is the response of cartilage to injury relevant to osteoarthritis?. Arthritis and Rheumatism, 2008, 58, 1207-1210.	6.7	13
63	Explaining the fibroblast growth factor paradox in osteoarthritis: Lessons from conditional knockout mice. Arthritis and Rheumatism, 2012, 64, 3835-3838.	6.7	13
64	Are cellular mechanosensors potential therapeutic targets in osteoarthritis?. International Journal of Clinical Rheumatology, 2014, 9, 155-167.	0.3	11
65	Studying Osteoarthritis Pathogenesis in Mice. Current Protocols in Mouse Biology, 2018, 8, e50.	1.2	8
66	TSGâ€6 Is Weakly Chondroprotective in Murine OA but Does not Account for FGF2â€Mediated Joint Protection. ACR Open Rheumatology, 2020, 2, 605-615.	0.9	8
67	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, 1-9.	0.9	7
68	Time to be positive about negative data?. Osteoarthritis and Cartilage, 2017, 25, 351-353.	0.6	6
69	Ciliary IFT88 Protects Coordinated Adolescent Growth Plate Ossification From Disruptive Physiological Mechanical Forces. Journal of Bone and Mineral Research, 2020, 37, 1081-1096.	3.1	6
70	Highly efficient CRISPR-Cas9-mediated editing identifies novel mechanosensitive microRNA-140 targets in primary human articular chondrocytes. Osteoarthritis and Cartilage, 2022, , .	0.6	6
71	A late presentation of Loeys-Dietz syndrome: joint hypermobility is not always benign. Rheumatology, 2014, 53, 574-576.	0.9	3
72	Application of autofluorescence robotic histology for quantitative evaluation of the 3â€dimensional morphology of murine articular cartilage. Microscopy Research and Technique, 2017, 80, 1351-1360.	1.2	3

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73	Cartilage Injury and Osteoarthritis. , 2017, , 27-40.		3
74	2021: The Year We Rewrite the Osteoarthritis Textbooks?. Function, 2020, 2, zqaa043.	1.1	3
75	OA synovial fluid: biological insights into a whole-joint disease. Osteoarthritis and Cartilage, 2022, , .	0.6	3
76	Local depletion of proteoglycans mediates cartilage tissue repair in an ex vivo integration model. Acta Biomaterialia, 2022, 149, 179-188.	4.1	3
77	Comparison of LABORAS with static incapacitance testing for assessing spontaneous pain behaviour in surgically-induced murine osteoarthritis. Osteoarthritis and Cartilage Open, 2020, 2, 100101.	0.9	2
78	Cartilage Repair Activity during Joint-Preserving Treatment May Be Accompanied by Osteophyte Formation. Applied Sciences (Switzerland), 2021, 11, 7156.	1.3	2
79	Imaging articular cartilage in osteoarthritis using targeted peptide radiocontrast agents. PLoS ONE, 2022, 17, e0268223.	1.1	2
80	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.	0.5	1
81	Post-traumatic OA â€" are we any closer to prevention?. Osteoarthritis and Cartilage, 2021, 29, 1630-1631.	0.6	1
82	OP0104â€...THE PRESENCE OF BLOOD IN THE JOINT AND THE IMMEDIATE MOLECULAR RESPONSE IN SYNOVIAL FLUID ARE INDEPENDENTLY ASSOCIATED WITH WORSE CLINICAL OUTCOMES AT 2 YEARS AFTER HUMAN KNEE INJURY. , 2019, , .		0