

# Richard F Loeser

## List of Publications by Year in descending order

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Version: 2024-02-01

97  
papers

13,260  
citations

34016

52  
h-index

39575

94  
g-index

101  
all docs

101  
docs citations

101  
times ranked

11464  
citing authors

#	ARTICLE	IF	CITATIONS
1	Changes in Body Weight and Knee Pain in Adults With Knee Osteoarthritis <sc>Threeâ€andâ€aâ€Half</sc> Years After Completing Diet and Exercise Interventions: Followâ€Up Study for a <sc>Singleâ€Blind</sc>, <sc>Singleâ€Center</sc>, Randomized Controlled Trial. Arthritis Care and Research, 2022, 74, 607-616.	1.5	6
2	Association of Increased Serum Lipopolysaccharide, But Not Microbial Dysbiosis, With <sc>Obesityâ€Related</sc> Osteoarthritis. Arthritis and Rheumatology, 2022, 74, 227-236.	2.9	21
3	Fecal metabolomics reveals products of dysregulated proteolysis and altered microbial metabolism in obesity-related osteoarthritis. Osteoarthritis and Cartilage, 2022, 30, 81-91.	0.6	25
4	Overexpression of Peroxiredoxin 3 in Cartilage Reduces the Severity of <sc>Ageâ€Related</sc> Osteoarthritis But Not Surgically Induced Osteoarthritis in Mice. ACR Open Rheumatology, 2022, 4, 441-446.	0.9	5
5	Osteoarthritis Pathophysiology. Clinics in Geriatric Medicine, 2022, 38, 193-219.	1.0	17
6	Targeting cellular senescence as a novel treatment for osteoarthritis. Current Opinion in Pharmacology, 2022, 64, 102213.	1.7	12
7	Role of the Hypoxia-Inducible Factor Pathway in Normal and Osteoarthritic Meniscus and in Mice after Destabilization of the Medial Meniscus. Cartilage, 2021, 13, 1442S-1455S.	1.4	2
8	Precision Medicine Approach to Develop and Internally Validate Optimal Exercise and Weightâ€Loss Treatments for Overweight and Obese Adults With Knee Osteoarthritis: Data From a Singleâ€Center Randomized Trial. Arthritis Care and Research, 2021, 73, 693-701.	1.5	18
9	Mechanisms and therapeutic implications of cellular senescence in osteoarthritis. Nature Reviews Rheumatology, 2021, 17, 47-57.	3.5	284
10	Diagnosis and Treatment of Hip and Knee Osteoarthritis. JAMA - Journal of the American Medical Association, 2021, 325, 568.	3.8	779
11	Effect of High-Intensity Strength Training on Knee Pain and Knee Joint Compressive Forces Among Adults With Knee Osteoarthritis. JAMA - Journal of the American Medical Association, 2021, 325, 646.	3.8	75
12	CCL2 induces articular chondrocyte MMP expression through ERK and p38 signaling pathways. Osteoarthritis and Cartilage Open, 2021, 3, 100136.	0.9	4
13	Sirtuin 6 (SIRT6) regulates redox homeostasis and signaling events in human articular chondrocytes. Free Radical Biology and Medicine, 2021, 166, 90-103.	1.3	30
14	Vitamin K and osteoarthritis: is there a link?. Annals of the Rheumatic Diseases, 2021, 80, 547-549.	0.5	4
15	Review of Hip and Knee Osteoarthritisâ€Reply. JAMA - Journal of the American Medical Association, 2021, 325, 2505.	3.8	1
16	Vitamin K Status and Mobility Limitation and Disability in Older Adults: The Health, Aging, and Body Composition Study. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, 792-797.	1.7	11
17	Naturally occurring osteoarthritis in male mice with an extended lifespan. Connective Tissue Research, 2020, 61, 95-103.	1.1	11
18	The effects of intensive dietary weight loss and exercise on gait in overweight and obese adults with knee osteoarthritis. The Intensive Diet and Exercise for Arthritis (IDEA) trial. Journal of Biomechanics, 2020, 98, 109477.	0.9	26

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19	Reply. Arthritis and Rheumatology, 2020, 72, 2162-2163.	2.9	0
20	Deletion of JNK Enhances Senescence in Joint Tissues and Increases the Severity of Age-Related Osteoarthritis in Mice. Arthritis and Rheumatology, 2020, 72, 1679-1688.	2.9	21
21	The effect of vitamin K insufficiency on histological and structural properties of knee joints in aging mice. Osteoarthritis and Cartilage Open, 2020, 2, 100078.	0.9	4
22	Arp2/3 inactivation causes intervertebral disc and cartilage degeneration with dysregulated TonEBP-mediated osmoadaptation. JCI Insight, 2020, 5, .	2.3	23
23	Impaired Annulus Fibrosus Development and Vertebral Fusion Cause Severe Scoliosis in Mice with Deficiency of c-Jun NH2-Terminal Kinases 1 and 2. American Journal of Pathology, 2019, 189, 868-885.	1.9	9
24	TGF- $\beta$ 2 type 2 receptor-mediated modulation of the IL-36 family can be therapeutically targeted in osteoarthritis. Science Translational Medicine, 2019, 11, .	5.8	49
25	Reactive oxygen species, aging and articular cartilage homeostasis. Free Radical Biology and Medicine, 2019, 132, 73-82.	1.3	337
26	Articular chondrocytes isolated from the knee and ankle joints of human tissue donors demonstrate similar redox-regulated MAP kinase and Akt signaling. Osteoarthritis and Cartilage, 2019, 27, 703-711.	0.6	11
27	Differential peroxiredoxin hyperoxidation regulates MAP kinase signaling in human articular chondrocytes. Free Radical Biology and Medicine, 2019, 134, 139-152.	1.3	18
28	Effect of intensive diet and exercise on self-efficacy in overweight and obese adults with knee osteoarthritis: The IDEA randomized clinical trial. Translational Behavioral Medicine, 2019, 9, 227-235.	1.2	30
29	Phenotypes of osteoarthritis: current state and future implications. Clinical and Experimental Rheumatology, 2019, 37 Suppl 120, 64-72.	0.4	26
30	Is osteoarthritis one disease or a collection of many?. Rheumatology, 2018, 57, iv34-iv42.	0.9	85
31	Targeting aging for disease modification in osteoarthritis. Current Opinion in Rheumatology, 2018, 30, 101-107.	2.0	87
32	Does Joint Injury Make Young Joints Old?. Journal of the American Academy of Orthopaedic Surgeons, The, 2018, 26, e455-e456.	1.1	5
33	H <sub>2</sub> O <sub>2</sub> oxidation of cysteine residues in c-Jun N-terminal kinase 2 (JNK2) contributes to redox regulation in human articular chondrocytes. Journal of Biological Chemistry, 2018, 293, 16376-16389.	1.6	24
34	Intentional Weight Loss in Overweight and Obese Patients With Knee Osteoarthritis: Is More Better?. Arthritis Care and Research, 2018, 70, 1569-1575.	1.5	102
35	Expression of p16 <sup>INK4a</sup> is a biomarker of chondrocyte aging but does not cause osteoarthritis. Aging Cell, 2018, 17, e12771.	3.0	111
36	Reduced Osteoarthritis Severity in Aged Mice With Deletion of Macrophage Migration Inhibitory Factor. Arthritis and Rheumatology, 2017, 69, 352-361.	2.9	49

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37	The Role of Aging in the Development of Osteoarthritis. Transactions of the American Clinical and Climatological Association, 2017, 128, 44-54.	0.9	60
38	Relationship of Objectively-Measured Habitual Physical Activity to Chronic Inflammation and Fatigue in Middle-Aged and Older Adults. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2016, 71, 1437-1443.	1.7	33
39	Ageing and the pathogenesis of osteoarthritis. Nature Reviews Rheumatology, 2016, 12, 412-420.	3.5	745
40	Cysteine-Mediated Redox Regulation of Cell Signaling in Chondrocytes Stimulated With Fibronectin Fragments. Arthritis and Rheumatology, 2016, 68, 117-126.	2.9	36
41	Oxidative Stress Promotes Peroxiredoxin Hyperoxidation and Attenuates Pro-survival Signaling in Aging Chondrocytes. Journal of Biological Chemistry, 2016, 291, 6641-6654.	1.6	105
42	Vitamin K Status and Lower Extremity Function in Older Adults: The Health Aging and Body Composition Study. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2016, 71, 1348-1355.	1.7	32
43	Osteoarthritis in the Elderly. , 2016, , 309-353.		2
44	Editorial: Inflammatory Activity in Symptomatic Knee Osteoarthritis: Not All Inflammation Is Local. Arthritis and Rheumatology, 2015, 67, 2797-2800.	2.9	35
45	Redox regulation of Rac1 by thiol oxidation. Free Radical Biology and Medicine, 2015, 79, 237-250.	1.3	34
46	Integrins and chondrocyte-matrix interactions in articular cartilage. Matrix Biology, 2014, 39, 11-16.	1.5	196
47	Ageing and Oxidative Stress Reduce the Response of Human Articular Chondrocytes to Insulin-Like Growth Factor 1 and Osteogenic Protein 1. Arthritis and Rheumatology, 2014, 66, 2201-2209.	2.9	78
48	Integration of gene expression data with network-based analysis to identify signaling and metabolic pathways regulated during the development of osteoarthritis. Gene, 2014, 542, 38-45.	1.0	47
49	Strength Training for Arthritis Trial (START): design and rationale. BMC Musculoskeletal Disorders, 2013, 14, 208.	0.8	45
50	Effects of Intensive Diet and Exercise on Knee Joint Loads, Inflammation, and Clinical Outcomes Among Overweight and Obese Adults With Knee Osteoarthritis. JAMA - Journal of the American Medical Association, 2013, 310, 1263.	3.8	607
51	Rac1 Is Required for Matrix Metalloproteinase 13 Production by Chondrocytes in Response to Fibronectin Fragments. Arthritis and Rheumatism, 2013, 65, 1561-1568.	6.7	38
52	Ageing processes and the development of osteoarthritis. Current Opinion in Rheumatology, 2013, 25, 108-113.	2.0	148
53	Disease Progression and Phasic Changes in Gene Expression in a Mouse Model of Osteoarthritis. PLoS ONE, 2013, 8, e54633.	1.1	103
54	Effects of aging on articular cartilage homeostasis. Bone, 2012, 51, 241-248.	1.4	301

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55	Osteoarthritis: A disease of the joint as an organ. <i>Arthritis and Rheumatism</i> , 2012, 64, 1697-1707.	6.7	2,055
56	Microarray analysis reveals age-related differences in gene expression during the development of osteoarthritis in mice. <i>Arthritis and Rheumatism</i> , 2012, 64, 705-717.	6.7	190
57	The Effects of Aging on the Development of Osteoarthritis. <i>HSS Journal</i> , 2012, 8, 18-19.	0.7	18
58	Regulation of chondrocyte gene expression by osteogenic protein-1. <i>Arthritis Research and Therapy</i> , 2011, 13, R55.	1.6	27
59	Aging and osteoarthritis. <i>Current Opinion in Rheumatology</i> , 2011, 23, 492-496.	2.0	212
60	A Comprehensive Histological Assessment of Osteoarthritis Lesions in Mice. <i>Cartilage</i> , 2011, 2, 354-363.	1.4	64
61	Why is osteoarthritis an age-related disease?. <i>Best Practice and Research in Clinical Rheumatology</i> , 2010, 24, 15-26.	1.4	436
62	Biology and pathology of Rho GTPase, PI3 kinase-Akt, and MAP kinase signaling pathways in chondrocytes. <i>Journal of Cellular Biochemistry</i> , 2010, 110, 573-580.	1.2	121
63	Age-Related Changes in the Musculoskeletal System and the Development of Osteoarthritis. <i>Clinics in Geriatric Medicine</i> , 2010, 26, 371-386.	1.0	343
64	Oxidative Stress Inhibits Insulin-like Growth Factor-I Induction of Chondrocyte Proteoglycan Synthesis through Differential Regulation of Phosphatidylinositol 3-Kinase-Akt and MEK-ERK MAPK Signaling Pathways. <i>Journal of Biological Chemistry</i> , 2009, 284, 31972-31981.	1.6	153
65	The Intensive Diet and Exercise for Arthritis (IDEA) trial: design and rationale. <i>BMC Musculoskeletal Disorders</i> , 2009, 10, 93.	0.8	70
66	Human articular chondrocytes produce IL-7 and respond to IL-7 with increased production of matrix metalloproteinase-13. <i>Arthritis Research and Therapy</i> , 2008, 10, R23.	1.6	74
67	Mitogen-activated protein kinases as therapeutic targets in osteoarthritis. <i>Current Opinion in Rheumatology</i> , 2008, 20, 581-586.	2.0	114
68	Endogenous production of reactive oxygen species is required for stimulation of human articular chondrocyte matrix metalloproteinase production by fibronectin fragments. <i>Free Radical Biology and Medicine</i> , 2007, 42, 1350-1358.	1.3	69
69	Chondrocyte cell death mediated by reactive oxygen species-dependent activation of PKC- $\delta$ . <i>American Journal of Physiology - Cell Physiology</i> , 2006, 290, C802-C811.	2.1	44
70	IGF-I stimulation of proteoglycan synthesis by chondrocytes requires activation of the PI 3-kinase pathway but not ERK MAPK. <i>Biochemical Journal</i> , 2005, 389, 723-729.	1.7	155
71	Articular chondrocytes express the receptor for advanced glycation end products: Potential role in osteoarthritis. <i>Arthritis and Rheumatism</i> , 2005, 52, 2376-2385.	6.7	206
72	Basic fibroblast growth factor inhibits the anabolic activity of insulin-like growth factor 1 and osteogenic protein 1 in adult human articular chondrocytes. <i>Arthritis and Rheumatism</i> , 2005, 52, 3910-3917.	6.7	98

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73	Increased Matrix Metalloproteinase-13 Production With Aging by Human Articular Chondrocytes in Response to Catabolic Stimuli. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2005, 60, 1118-1124.	1.7	104
74	NF- $\kappa$ B Mediates the Stimulation of Cytokine and Chemokine Expression by Human Articular Chondrocytes in Response to Fibronectin Fragments. <i>Journal of Immunology</i> , 2005, 174, 5781-5788.	0.4	193
75	Exercise and dietary weight loss in overweight and obese older adults with knee osteoarthritis: The arthritis, diet, and activity promotion trial. <i>Arthritis and Rheumatism</i> , 2004, 50, 1501-1510.	6.7	932
76	Aging Cartilage and Osteoarthritis--What's the Link?. <i>Science of Aging Knowledge Environment: SAGE KE</i> , 2004, 2004, pe31-pe31.	0.9	25
77	Integrin-mediated adhesion of human articular chondrocytes to cartilage. <i>Arthritis and Rheumatism</i> , 2003, 48, 110-118.	6.7	73
78	The combination of insulin-like growth factor 1 and osteogenic protein 1 promotes increased survival of and matrix synthesis by normal and osteoarthritic human articular chondrocytes. <i>Arthritis and Rheumatism</i> , 2003, 48, 2188-2196.	6.7	170
79	Increased oxidative stress with aging reduces chondrocyte survival: Correlation with intracellular glutathione levels. <i>Arthritis and Rheumatism</i> , 2003, 48, 3419-3430.	6.7	227
80	Aging or osteoarthritis: which is the problem?. <i>Rheumatic Disease Clinics of North America</i> , 2003, 29, 653-673.	0.8	57
81	Inhibitory Effects of Insulin-like Growth Factor-1 and Osteogenic Protein-1 on Fibronectin Fragment- and Interleukin-1 $\beta$ -stimulated Matrix Metalloproteinase-13 Expression in Human Chondrocytes. <i>Journal of Biological Chemistry</i> , 2003, 278, 25386-25394.	1.6	126
82	Fibronectin Fragment Activation of Proline-rich Tyrosine Kinase PYK2 Mediates Integrin Signals Regulating Collagenase-3 Expression by Human Chondrocytes through a Protein Kinase C-dependent Pathway. <i>Journal of Biological Chemistry</i> , 2003, 278, 24577-24585.	1.6	126
83	Nitric oxide-mediated chondrocyte cell death requires the generation of additional reactive oxygen species. <i>Arthritis and Rheumatism</i> , 2002, 46, 394-403.	6.7	223
84	The $\alpha$ 5 $\beta$ 1 integrin provides matrix survival signals for normal and osteoarthritic human articular chondrocytes in vitro. <i>Arthritis and Rheumatism</i> , 2002, 46, 1528-1535.	6.7	93
85	Detection of nitrotyrosine in aging and osteoarthritic cartilage: Correlation of oxidative damage with the presence of interleukin-1 $\beta$ and with chondrocyte resistance to insulin-like growth factor 1. <i>Arthritis and Rheumatism</i> , 2002, 46, 2349-2357.	6.7	226
86	Fibronectin fragments and blocking antibodies to $\alpha$ 5 $\beta$ 1 and $\alpha$ 2 $\beta$ 1 integrins stimulate mitogen-activated protein kinase signaling and increase collagenase 3 (matrix metalloproteinase 13) production by human articular chondrocytes. <i>Arthritis and Rheumatism</i> , 2002, 46, 2368-2376.	6.7	189
87	Mechanisms of chondrocyte adhesion to cartilage: role of $\alpha$ 2 $\beta$ 1-integrins, CD44, and annexin V. <i>Journal of Orthopaedic Research</i> , 2001, 19, 1122-1130.	1.2	48
88	Modifiers of change in physical functioning in older adults with knee pain: the Observational Arthritis Study in Seniors (OASIS). <i>Arthritis and Rheumatism</i> , 2001, 45, 331-339.	6.7	99
89	Reduction in the chondrocyte response to insulin-like growth factor 1 in aging and osteoarthritis: Studies in a non-human primate model of naturally occurring disease. <i>Arthritis and Rheumatism</i> , 2000, 43, 2110-2120.	6.7	179
90	Estrogen replacement therapy modulation of the insulin-like growth factor system in monkey knee joints. <i>Arthritis and Rheumatism</i> , 1999, 42, 2103-2111.	6.7	35

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91	Growth factor regulation of chondrocyte integrins. Differential effects of insulin-like growth factor 1 and transforming growth factor $\beta_2$ on $\alpha_1\beta_1$ integrin expression and chondrocyte adhesion to type VI collagen. <i>Arthritis and Rheumatism</i> , 1997, 40, 270-276.	6.7	127
92	Human chondrocyte expression of growth-arrest-specific gene 6 and the tyrosine kinase receptor axl. Potential role in autocrine signaling in cartilage. <i>Arthritis and Rheumatism</i> , 1997, 40, 1455-1465.	6.7	69
93	Expression of $\alpha_1\beta_1$ Integrins by Cultured Articular Chondrocytes and in Osteoarthritic Cartilage. <i>Experimental Cell Research</i> , 1995, 217, 248-257.	1.2	166
94	Osteoarthritis in cynomolgus macaques: A primate model of naturally occurring disease. <i>Journal of Orthopaedic Research</i> , 1994, 12, 331-339.	1.2	133
95	Integrin-mediated attachment of articular chondrocytes to extracellular matrix proteins. <i>Arthritis and Rheumatism</i> , 1993, 36, 1103-1110.	6.7	179
96	Immunolocalization of noncollagenous bone matrix proteins in lumbar vertebrae from intact and surgically menopausal cynomolgus monkeys. <i>Journal of Bone and Mineral Research</i> , 1993, 8, 71-81.	3.1	44
97	Correspondence on "Mechanical overloading promotes chondrocyte senescence and osteoarthritis development through downregulating FBXW7" by Zhang <i>et al</i> . <i>Annals of the Rheumatic Diseases</i> , 0, , annrhumdis-2022-222597.	0.5	0