

# Hee-Jeong Im

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/10653338/hee-jeong-im-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103  
papers

6,207  
citations

43  
h-index

76  
g-index

107  
ext. papers

7,133  
ext. citations

5  
avg, IF

5.48  
L-index

#	Paper	IF	Citations
103	Osteoarthritis: toward a comprehensive understanding of pathological mechanism. <i>Bone Research</i> , <b>2017</b> , 5, 16044	13.3	422
102	MMP13 is a critical target gene during the progression of osteoarthritis. <i>Arthritis Research and Therapy</i> , <b>2013</b> , 15, R5	5.7	271
101	A current review of molecular mechanisms regarding osteoarthritis and pain. <i>Gene</i> , <b>2013</b> , 527, 440-7	3.8	270
100	Repetitive mechanical stretching modulates IL-1beta induced COX-2, MMP-1 expression, and PGE2 production in human patellar tendon fibroblasts. <i>Gene</i> , <b>2005</b> , 363, 166-72	3.8	216
99	Mechanoregulation of gene expression in fibroblasts. <i>Gene</i> , <b>2007</b> , 391, 1-15	3.8	184
98	Articular chondrocytes express the receptor for advanced glycation end products: Potential role in osteoarthritis. <i>Arthritis and Rheumatism</i> , <b>2005</b> , 52, 2376-85		178
97	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> , <b>2005</b> , 174, 5781-8	5.3	166
96	MicroRNA functions in osteogenesis and dysfunctions in osteoporosis. <i>Current Osteoporosis Reports</i> , <b>2013</b> , 11, 72-82	5.4	159
95	MicroRNA-146a is linked to pain-related pathophysiology of osteoarthritis. <i>Gene</i> , <b>2011</b> , 480, 34-41	3.8	158
94	Basic fibroblast growth factor stimulates matrix metalloproteinase-13 via the molecular cross-talk between the mitogen-activated protein kinases and protein kinase Cdelta pathways in human adult articular chondrocytes. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 11110-21	5.4	141
93	Deletion of the transforming growth factor $\beta$ receptor type II gene in articular chondrocytes leads to a progressive osteoarthritis-like phenotype in mice. <i>Arthritis and Rheumatism</i> , <b>2013</b> , 65, 3107-19		130
92	Biological impact of the fibroblast growth factor family on articular cartilage and intervertebral disc homeostasis. <i>Gene</i> , <b>2008</b> , 420, 82-9	3.8	130
91	Alteration of sensory neurons and spinal response to an experimental osteoarthritis pain model. <i>Arthritis and Rheumatism</i> , <b>2010</b> , 62, 2995-3005		127
90	High-resolution molecular validation of self-renewal and spontaneous differentiation in clinical-grade adipose-tissue derived human mesenchymal stem cells. <i>Journal of Cellular Biochemistry</i> , <b>2014</b> , 115, 1816-28	4.7	123
89	Recent progress in understanding molecular mechanisms of cartilage degeneration during osteoarthritis. <i>Annals of the New York Academy of Sciences</i> , <b>2011</b> , 1240, 61-9	6.5	122
88	HGF mediates the anti-inflammatory effects of PRP on injured tendons. <i>PLoS ONE</i> , <b>2013</b> , 8, e67303	3.7	121
87	Prostaglandin E2 and its cognate EP receptors control human adult articular cartilage homeostasis and are linked to the pathophysiology of osteoarthritis. <i>Arthritis and Rheumatism</i> , <b>2009</b> , 60, 513-23		116

86	Inhibitory effects of insulin-like growth factor-1 and osteogenic protein-1 on fibronectin fragment- and interleukin-1beta-stimulated matrix metalloproteinase-13 expression in human chondrocytes. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 25386-94	5.4	112
85	Targeting VEGF and Its Receptors for the Treatment of Osteoarthritis and Associated Pain. <i>Journal of Bone and Mineral Research</i> , <b>2016</b> , 31, 911-24	6.3	112
84	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> , <b>2003</b> , 278, 24577-85	5.4	110
83	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> , <b>2005</b> , 60, 1118-24	6.4	97
82	The chondrocyte clock gene Bmal1 controls cartilage homeostasis and integrity. <i>Journal of Clinical Investigation</i> , <b>2016</b> , 126, 365-76	15.9	97
81	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> , <b>2005</b> , 52, 3910-7		95
80	Fibroblast growth factor receptor 1 is principally responsible for fibroblast growth factor 2-induced catabolic activities in human articular chondrocytes. <i>Arthritis Research and Therapy</i> , <b>2011</b> , 13, R130	5.7	94
79	Hyaluronan oligosaccharides induce matrix metalloproteinase 13 via transcriptional activation of NFkappaB and p38 MAP kinase in articular chondrocytes. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 17952-60	5.4	84
78	EP4 receptor regulates collagen type-I, MMP-1, and MMP-3 gene expression in human tendon fibroblasts in response to IL-1 beta treatment. <i>Gene</i> , <b>2007</b> , 386, 154-61	3.8	84
77	MicroRNA-146a reduces IL-1 dependent inflammatory responses in the intervertebral disc. <i>Gene</i> , <b>2015</b> , 555, 80-7	3.8	81
76	Basic fibroblast growth factor activates the MAPK and NFkappaB pathways that converge on Elk-1 to control production of matrix metalloproteinase-13 by human adult articular chondrocytes. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 31409-21	5.4	78
75	Basic fibroblast growth factor accelerates matrix degradation via a neuro-endocrine pathway in human adult articular chondrocytes. <i>Journal of Cellular Physiology</i> , <b>2008</b> , 215, 452-63	7	73
74	Conditional activation of Eatenin signaling in mice leads to severe defects in intervertebral disc tissue. <i>Arthritis and Rheumatism</i> , <b>2012</b> , 64, 2611-23		72
73	Kindlin-2 controls TGF-β signalling and Sox9 expression to regulate chondrogenesis. <i>Nature Communications</i> , <b>2015</b> , 6, 7531	17.4	71
72	Pain assessment in animal models of osteoarthritis. <i>Gene</i> , <b>2014</b> , 537, 184-8	3.8	68
71	Altered spinal microRNA-146a and the microRNA-183 cluster contribute to osteoarthritic pain in knee joints. <i>Journal of Bone and Mineral Research</i> , <b>2013</b> , 28, 2512-22	6.3	64
70	Increased expression of the Akt/PKB inhibitor TRB3 in osteoarthritic chondrocytes inhibits insulin-like growth factor 1-mediated cell survival and proteoglycan synthesis. <i>Arthritis and Rheumatism</i> , <b>2009</b> , 60, 492-500		63
69	Lactoferricin mediates anti-inflammatory and anti-catabolic effects via inhibition of IL-1 and LPS activity in the intervertebral disc. <i>Journal of Cellular Physiology</i> , <b>2013</b> , 228, 1884-96	7	55

68	The action of resveratrol, a phytoestrogen found in grapes, on the intervertebral disc. <i>Spine</i> , <b>2008</b> , 33, 2586-95	3-3	54
67	Hyaluronan oligosaccharide-induced activation of transcription factors in bovine articular chondrocytes. <i>Arthritis and Rheumatism</i> , <b>2005</b> , 52, 800-9		51
66	Species-specific biological effects of FGF-2 in articular cartilage: implication for distinct roles within the FGF receptor family. <i>Journal of Cellular Biochemistry</i> , <b>2012</b> , 113, 2532-42	4-7	49
65	Critical role of filamin-binding LIM protein 1 (FBLP-1)/migfilin in regulation of bone remodeling. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 21450-60	5-4	48
64	Targeting Runx2 expression in hypertrophic chondrocytes impairs endochondral ossification during early skeletal development. <i>Journal of Cellular Physiology</i> , <b>2012</b> , 227, 3446-56	7	47
63	Vascular Endothelial Growth Factor in Cartilage Development and Osteoarthritis. <i>Scientific Reports</i> , <b>2017</b> , 7, 13027	4-9	46
62	Insulin-like growth factor 1 synergizes with bone morphogenetic protein 7-mediated anabolism in bovine intervertebral disc cells. <i>Arthritis and Rheumatism</i> , <b>2010</b> , 62, 3706-15		46
61	Toll-like receptor adaptor signaling molecule MyD88 on intervertebral disk homeostasis: in vitro, ex vivo studies. <i>Gene</i> , <b>2012</b> , 505, 283-90	3-8	44
60	Divergent regulation of the growth-promoting gene IEX-1 by the p53 tumor suppressor and Sp1. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 14612-21	5-4	43
59	Critical role of AKT protein in myeloma-induced osteoclast formation and osteolysis. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 30399-30410	5-4	42
58	MicroRNA-218-5p as a Potential Target for the Treatment of Human Osteoarthritis. <i>Molecular Therapy</i> , <b>2017</b> , 25, 2676-2688	11-7	39
57	Licochalcone-A induces intrinsic and extrinsic apoptosis via ERK1/2 and p38 phosphorylation-mediated TRAIL expression in head and neck squamous carcinoma FaDu cells. <i>Food and Chemical Toxicology</i> , <b>2015</b> , 77, 34-43	4-7	39
56	ATF4 promotes bone angiogenesis by increasing VEGF expression and release in the bone environment. <i>Journal of Bone and Mineral Research</i> , <b>2013</b> , 28, 1870-1884	6-3	39
55	atf4 promotes $\beta$ -catenin expression and osteoblastic differentiation of bone marrow mesenchymal stem cells. <i>International Journal of Biological Sciences</i> , <b>2013</b> , 9, 256-66	11-2	38
54	The rat intervertebral disk degeneration pain model: relationships between biological and structural alterations and pain. <i>Arthritis Research and Therapy</i> , <b>2011</b> , 13, R165	5-7	37
53	Fibroblast growth factor-2 promotes catabolism via FGFR1-Ras-Raf-MEK1/2-ERK1/2 axis that coordinates with the PKC $\beta$ pathway in human articular chondrocytes. <i>Journal of Cellular Biochemistry</i> , <b>2012</b> , 113, 2856-65	4-7	36
52	Environmental disruption of circadian rhythm predisposes mice to osteoarthritis-like changes in knee joint. <i>Journal of Cellular Physiology</i> , <b>2015</b> , 230, 2174-2183	7	35
51	Biological effects of the plant-derived polyphenol resveratrol in human articular cartilage and chondrosarcoma cells. <i>Journal of Cellular Physiology</i> , <b>2012</b> , 227, 3488-97	7	35

50	Action of fibroblast growth factor-2 on the intervertebral disc. <i>Arthritis Research and Therapy</i> , <b>2008</b> , 10, R48	5.7	35
49	Induction of CD44 cleavage in articular chondrocytes. <i>Arthritis and Rheumatism</i> , <b>2010</b> , 62, 1338-48		34
48	PKC $\delta$ mutations in a mouse model of osteoarthritis alter osteoarthritic pain independently of joint pathology by augmenting NGF/TrkA-induced axonal outgrowth. <i>Annals of the Rheumatic Diseases</i> , <b>2016</b> , 75, 2133-2141	2.4	32
47	Biochanin-A antagonizes the interleukin-1 $\beta$ -induced catabolic inflammation through the modulation of NF $\kappa$ B cellular signaling in primary rat chondrocytes. <i>Biochemical and Biophysical Research Communications</i> , <b>2016</b> , 477, 723-730	3.4	30
46	Characterization of a new animal model for evaluation and treatment of back pain due to lumbar facet joint osteoarthritis. <i>Arthritis and Rheumatism</i> , <b>2011</b> , 63, 2966-73		30
45	Licochalcone A induces apoptosis in KB human oral cancer cells via a caspase-dependent FasL signaling pathway. <i>Oncology Reports</i> , <b>2014</b> , 31, 755-62	3.5	29
44	Bovine lactoferricin is anti-inflammatory and anti-catabolic in human articular cartilage and synovium. <i>Journal of Cellular Physiology</i> , <b>2013</b> , 228, 447-56	7	29
43	Berberine induces FasL-related apoptosis through p38 activation in KB human oral cancer cells. <i>Oncology Reports</i> , <b>2015</b> , 33, 1775-82	3.5	29
42	Immediate early gene X-1 interacts with proteins that modulate apoptosis. <i>Biochemical and Biophysical Research Communications</i> , <b>2004</b> , 323, 1293-8	3.4	29
41	The pathophysiologic role of the protein kinase C $\beta$ pathway in the intervertebral discs of rabbits and mice: in vitro, ex vivo, and in vivo studies. <i>Arthritis and Rheumatism</i> , <b>2012</b> , 64, 1950-9		28
40	Loss of histone methyltransferase Ezh2 stimulates an osteogenic transcriptional program in chondrocytes but does not affect cartilage development. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 19001-19011	5.4	28
39	Lactoferricin mediates anabolic and anti-catabolic effects in the intervertebral disc. <i>Journal of Cellular Physiology</i> , <b>2012</b> , 227, 1512-20	7	25
38	Animal models for studying the etiology and treatment of low back pain. <i>Journal of Orthopaedic Research</i> , <b>2018</b> , 36, 1305-1312	3.8	23
37	Leukotriene B4 at low dosage negates the catabolic effect of prostaglandin E2 in human patellar tendon fibroblasts. <i>Gene</i> , <b>2006</b> , 372, 103-9	3.8	23
36	Characterization of a novel hexameric repeat DNA sequence in the promoter of the immediate early gene, IEX-1, that mediates 1 $\alpha$ ,25-dihydroxyvitamin D(3)-associated IEX-1 gene repression. <i>Oncogene</i> , <b>2002</b> , 21, 3706-14	9.2	23
35	Molecular Validation of Chondrogenic Differentiation and Hypoxia Responsiveness of Platelet-Lysate Expanded Adipose Tissue-Derived Human Mesenchymal Stromal Cells. <i>Cartilage</i> , <b>2017</b> , 8, 283-299	3	22
34	Safety Studies for Use of Adipose Tissue-Derived Mesenchymal Stromal/Stem Cells in a Rabbit Model for Osteoarthritis to Support a Phase I Clinical Trial. <i>Stem Cells Translational Medicine</i> , <b>2017</b> , 6, 910-922	6.9	22
33	RNA-seq analysis of clinical-grade osteochondral allografts reveals activation of early response genes. <i>Journal of Orthopaedic Research</i> , <b>2016</b> , 34, 1950-1959	3.8	22

32	Development of an Experimental Animal Model for Lower Back Pain by Percutaneous Injury-Induced Lumbar Facet Joint Osteoarthritis. <i>Journal of Cellular Physiology</i> , <b>2015</b> , 230, 2837-47	7	21
31	Mouse mu opioid receptor gene expression. A 34-base pair cis-acting element inhibits transcription of the mu opioid receptor gene from the distal promoter. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 34926-32	5.4	21
30	Transcriptional modulation of mouse mu-opioid receptor distal promoter activity by Sox18. <i>Molecular Pharmacology</i> , <b>2001</b> , 59, 1486-96	4.3	20
29	Rho-Associated Kinase Inhibitor Immortalizes Rat Nucleus Pulposus and Annulus Fibrosus Cells: Establishment of Intervertebral Disc Cell Lines With Novel Approaches. <i>Spine</i> , <b>2016</b> , 41, E255-61	3.3	19
28	Osteoarthritis-like pathologic changes in the knee joint induced by environmental disruption of circadian rhythms is potentiated by a high-fat diet. <i>Scientific Reports</i> , <b>2015</b> , 5, 16896	4.9	19
27	Nicotinamide Phosphoribosyltransferase Inhibitor APO866 Prevents IL-1 $\beta$ Induced Human Nucleus Pulposus Cell Degeneration via Autophagy. <i>Cellular Physiology and Biochemistry</i> , <b>2018</b> , 49, 2463-2482	3.9	19
26	Osteoarthritic tissues modulate functional properties of sensory neurons associated with symptomatic OA pain. <i>Molecular Biology Reports</i> , <b>2011</b> , 38, 5335-9	2.8	18
25	Emerging roles of SUMO modification in arthritis. <i>Gene</i> , <b>2010</b> , 466, 1-15	3.8	18
24	ADAR1 ablation decreases bone mass by impairing osteoblast function in mice. <i>Gene</i> , <b>2013</b> , 513, 101-10	3.8	17
23	Coumestrol Counteracts Interleukin-1 $\beta$ Induced Catabolic Effects by Suppressing Inflammation in Primary Rat Chondrocytes. <i>Inflammation</i> , <b>2017</b> , 40, 79-91	5.1	16
22	Lumbar facet joint compressive injury induces lasting changes in local structure, nociceptive scores, and inflammatory mediators in a novel rat model. <i>Pain Research and Treatment</i> , <b>2012</b> , 2012, 127636	1.9	16
21	A novel vitamin D-regulated immediate-early gene, IEX-1, alters cellular growth and apoptosis. <i>Recent Results in Cancer Research</i> , <b>2003</b> , 164, 123-34	1.5	16
20	MiR-202-3p regulates interleukin-1 $\beta$ Induced expression of matrix metalloproteinase 1 in human nucleus pulposus. <i>Gene</i> , <b>2019</b> , 687, 156-165	3.8	16
19	Pharmacological targeting of the mammalian clock reveals a novel analgesic for osteoarthritis-induced pain. <i>Gene</i> , <b>2018</b> , 655, 1-12	3.8	15
18	Bovine lactoferricin induces TIMP-3 via the ERK1/2-Sp1 axis in human articular chondrocytes. <i>Gene</i> , <b>2013</b> , 517, 12-8	3.8	15
17	Development of an in vivo mouse model of discogenic low back pain. <i>Journal of Cellular Physiology</i> , <b>2018</b> , 233, 6589-6602	7	15
16	Opioid receptor gene: cytokine response element and the effect of cytokines. <i>Brain Research</i> , <b>1999</b> , 829, 174-9	3.7	14
15	The synovial microenvironment of osteoarthritic joints alters RNA-seq expression profiles of human primary articular chondrocytes. <i>Gene</i> , <b>2016</b> , 591, 456-64	3.8	14

14	Lactoferricin enhances BMP7-stimulated anabolic pathways in intervertebral disc cells. <i>Gene</i> , <b>2013</b> , 524, 282-91	3.8	13
13	Bovine lactoferricin-induced anti-inflammation is, in part, via up-regulation of interleukin-11 by secondary activation of STAT3 in human articular cartilage. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 31655-69	5.4	13
12	Induction of Osteoarthritis-like Pathologic Changes by Chronic Alcohol Consumption in an Experimental Mouse Model. <i>Arthritis and Rheumatology</i> , <b>2015</b> , 67, 1678-80	9.5	11
11	Col10a1-Runx2 transgenic mice with delayed chondrocyte maturation are less susceptible to developing osteoarthritis. <i>American Journal of Translational Research (discontinued)</i> , <b>2014</b> , 6, 736-45	3	11
10	Blockade of Vascular Endothelial Growth Factor Receptor-1 (Flt-1), Reveals a Novel Analgesic For Osteoarthritis-Induced Joint Pain. <i>Gene Reports</i> , <b>2018</b> , 11, 94-100	1.4	10
9	Biological Effects of the Herbal Plant-Derived Phytoestrogen Bavachin in Primary Rat Chondrocytes. <i>Biological and Pharmaceutical Bulletin</i> , <b>2015</b> , 38, 1199-207	2.3	10
8	Basic fibroblast growth factor induces matrix metalloproteinase-13 via ERK MAP kinase-altered phosphorylation and sumoylation of Elk-1 in human adult articular chondrocytes. <i>Open Access Rheumatology: Research and Reviews</i> , <b>2009</b> , 1, 151-161	2.4	7
7	Gut-microbiota modulation: The impact of the gut-microbiota on osteoarthritis. <i>Gene</i> , <b>2021</b> , 785, 145619	3.8	6
6	Absence of VEGFR-1/Flt-1 signaling pathway in mice results in insensitivity to discogenic low back pain in an established disc injury mouse model. <i>Journal of Cellular Physiology</i> , <b>2020</b> , 235, 5305-5317	7	5
5	Intraarticular slow-release triamcinolone acetate reduces allodynia in an experimental mouse knee osteoarthritis model. <i>Gene</i> , <b>2016</b> , 591, 1-5	3.8	4
4	The anti-catabolic role of bovine lactoferricin in cartilage. <i>Biomolecular Concepts</i> , <b>2013</b> , 4, 495-500	3.7	1
3	Lactobacillus acidophilus Mitigates Osteoarthritis-Associated Pain, Cartilage Disintegration and Gut Microbiota Dysbiosis in an Experimental Murine OA Model. <i>Biomedicines</i> , <b>2022</b> , 10, 1298	4.8	1
2	Effect of LOXL2 on metastasis through remodeling of the cell surface matrix in non-small cell lung cancer cells.. <i>Gene</i> , <b>2022</b> , 146504	3.8	0
1	Adherens junction protein, p120 catenin, represses transcriptional activity of endothelial cells. <i>FASEB Journal</i> , <b>2009</b> , 23, 1028.3	0.9	