

# Hee-Jeong Im

## List of Publications by Year in Descending Order

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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	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
102	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
101	Gut-microbiota modulation: The impact of thegut-microbiotaon osteoarthritis. <i>Gene</i> , <b>2021</b> , 785, 145619	3.8	6
100	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
99	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
98	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
97	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
96	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
95	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
94	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
93	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, 19004-19011	5.4	38
92	Osteoarthritis: toward a comprehensive understanding of pathological mechanism. <i>Bone Research</i> , <b>2017</b> , 5, 16044	13.3	422
91	Vascular Endothelial Growth Factor in Cartilage Development and Osteoarthritis. <i>Scientific Reports</i> , <b>2017</b> , 7, 13027	4.9	46
90	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
89	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
88	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
87	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

86	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
85	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
84	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
83	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
82	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
81	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
80	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
79	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
78	Kindlin-2 controls TGF- $\beta$ signalling and Sox9 expression to regulate chondrogenesis. <i>Nature Communications</i> , <b>2015</b> , 6, 7531	17.4	71
77	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
76	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
75	MicroRNA-146a reduces IL-1 dependent inflammatory responses in the intervertebral disc. <i>Gene</i> , <b>2015</b> , 555, 80-7	3.8	81
74	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
73	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
72	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
71	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
70	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
69	Pain assessment in animal models of osteoarthritis. <i>Gene</i> , <b>2014</b> , 537, 184-8	3.8	68

68	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
67	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
66	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
65	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
64	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
63	A current review of molecular mechanisms regarding osteoarthritis and pain. <i>Gene</i> , <b>2013</b> , 527, 440-7	3.8	270
62	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
61	Lactoferricin enhances BMP7-stimulated anabolic pathways in intervertebral disc cells. <i>Gene</i> , <b>2013</b> , 524, 282-91	3.8	13
60	MicroRNA functions in osteogenesis and dysfunctions in osteoporosis. <i>Current Osteoporosis Reports</i> , <b>2013</b> , 11, 72-82	5.4	159
59	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
58	ADAR1 ablation decreases bone mass by impairing osteoblast function in mice. <i>Gene</i> , <b>2013</b> , 513, 101-10	3.8	17
57	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
56	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
55	The anti-catabolic role of bovine lactoferricin in cartilage. <i>Biomolecular Concepts</i> , <b>2013</b> , 4, 495-500	3.7	1
54	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
53	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
52	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
51	HGF mediates the anti-inflammatory effects of PRP on injured tendons. <i>PLoS ONE</i> , <b>2013</b> , 8, e67303	3.7	121

50	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
49	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
48	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
47	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
46	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
45	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
44	Fibroblast growth factor-2 promotes catabolism via FGFR1-Ras-Raf-MEK1/2-ERK1/2 axis that coordinates with the PKC $\delta$ pathway in human articular chondrocytes. <i>Journal of Cellular Biochemistry</i> , <b>2012</b> , 113, 2856-65	4.7	36
43	The pathophysiologic role of the protein kinase C $\delta$ 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
42	Conditional activation of $\beta$ -catenin signaling in mice leads to severe defects in intervertebral disc tissue. <i>Arthritis and Rheumatism</i> , <b>2012</b> , 64, 2611-23		72
41	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
40	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
39	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
38	MicroRNA-146a is linked to pain-related pathophysiology of osteoarthritis. <i>Gene</i> , <b>2011</b> , 480, 34-41	3.8	158
37	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
36	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
35	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
34	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
33	Emerging roles of SUMO modification in arthritis. <i>Gene</i> , <b>2010</b> , 466, 1-15	3.8	18

32	Induction of CD44 cleavage in articular chondrocytes. <i>Arthritis and Rheumatism</i> , <b>2010</b> , 62, 1338-48		34
31	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
30	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
29	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
28	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
27	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
26	Adherens junction protein, p120 catenin, represses transcriptional activity of endothelial cells. <i>FASEB Journal</i> , <b>2009</b> , 23, 1028.3		0.9
25	Action of fibroblast growth factor-2 on the intervertebral disc. <i>Arthritis Research and Therapy</i> , <b>2008</b> , 10, R48	5.7	35
24	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
23	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
22	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
21	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
20	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
19	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
18	Mechanoregulation of gene expression in fibroblasts. <i>Gene</i> , <b>2007</b> , 391, 1-15	3.8	184
17	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
16	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
15	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

14	Hyaluronan oligosaccharide-induced activation of transcription factors in bovine articular chondrocytes. <i>Arthritis and Rheumatism</i> , <b>2005</b> , 52, 800-9		51
13	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
12	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
11	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
10	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
9	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
8	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
7	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
6	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
5	Characterization of a novel hexameric repeat DNA sequence in the promoter of the immediate early gene, IEX-1, that mediates 1alpha,25-dihydroxyvitamin D(3)-associated IEX-1 gene repression. <i>Oncogene</i> , <b>2002</b> , 21, 3706-14	9.2	23
4	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
3	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
2	Opioid receptor gene: cytokine response element and the effect of cytokines. <i>Brain Research</i> , <b>1999</b> , 829, 174-9	3.7	14
1	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