Hee-Jeong Im

List of Publications by Year
in descending order

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103 papers	7,966 citations	47006 47 h-index	51608 86 g-index
107 all docs	107 docs citations	107 times ranked	9588 citing authors

#	Article	IF	Citations
1	Effect of LOXL2 on metastasis through remodeling of the cell surface matrix in non-small cell lung cancer cells. Gene, 2022, 830, 146504.	2.2	3
2	Lactobacillus acidophilus Mitigates Osteoarthritis-Associated Pain, Cartilage Disintegration and Gut Microbiota Dysbiosis in an Experimental Murine OA Model. Biomedicines, 2022, 10, 1298.	3.2	17
3	Gut-microbiota modulation: The impact of the gut-microbiota on osteoarthritis. Gene, 2021, 785, 145619.	2.2	17
4	Absence of VEGFRâ€1/Fltâ€1 signaling pathway in mice results in insensitivity to discogenic low back pain in an established disc injury mouse model. Journal of Cellular Physiology, 2020, 235, 5305-5317.	4.1	15
5	MiR-202-3p regulates interleukin-1Î²-induced expression of matrix metalloproteinase 1 in human nucleus pulposus. Gene, 2019, 687, 156-165.	2.2	30
6	Pharmacological targeting of the mammalian clock reveals a novel analgesic for osteoarthritis-induced pain. Gene, 2018, 655, 1-12.	2.2	29
7	Blockade of vascular endothelial growth factor receptor-1 (Flt-1), reveals a novel analgesic for osteoarthritis-induced joint pain. Gene Reports, 2018, 11, 94-100.	0.8	16
8	Animal models for studying the etiology and treatment of low back pain. Journal of Orthopaedic Research, 2018, 36, 1305-1312.	2.3	41
9	Development of an in vivo mouse model of discogenic low back pain. Journal of Cellular Physiology, 2018, 233, 6589-6602.	4.1	29
10	Nicotinamide Phosphoribosyltransferase Inhibitor APO866 Prevents IL-1Î²-Induced Human Nucleus Pulposus Cell Degeneration via Autophagy. Cellular Physiology and Biochemistry, 2018, 49, 2463-2482.	1.6	27
11	Loss of histone methyltransferase Ezh2 stimulates an osteogenic transcriptional program in chondrocytes but does not affect cartilage development. Journal of Biological Chemistry, 2018, 293, 19001-19011.	3.4	50
12	Osteoarthritis: toward a comprehensive understanding of pathological mechanism. Bone Research, 2017, 5, 16044.	11.4	731
13	Vascular Endothelial Growth Factor in Cartilage Development and Osteoarthritis. Scientific Reports, 2017, 7, 13027.	3.3	75
14	MicroRNA-218-5p as a Potential Target for the Treatment of Human Osteoarthritis. Molecular Therapy, 2017, 25, 2676-2688.	8.2	50
15	Molecular Validation of Chondrogenic Differentiation and Hypoxia Responsiveness of Platelet-Lysate Expanded Adipose Tissueâ€"Derived Human Mesenchymal Stromal Cells. Cartilage, 2017, 8, 283-299.	2.7	32
16	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. Stem Cells Translational Medicine, 2017, 6, 910-922.	3.3	31
17	Coumestrol Counteracts Interleukin-1Î²-Induced Catabolic Effects by Suppressing Inflammation in Primary Rat Chondrocytes. Inflammation, 2017, 40, 79-91.	3.8	19
18	RNAâ€seq analysis of clinicalâ€grade osteochondral allografts reveals activation of early response genes. Journal of Orthopaedic Research, 2016, 34, 1950-1959.	2.3	24

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19	The synovial microenvironment of osteoarthritic joints alters RNA-seq expression profiles of human primary articular chondrocytes. Gene, 2016, 591, 456-464.	2.2	16
20	PKCÎ´null mutations in a mouse model of osteoarthritis alter osteoarthritic pain independently of joint pathology by augmenting NGF/TrkA-induced axonal outgrowth. Annals of the Rheumatic Diseases, 2016, 75, 2133-2141.	0.9	45
21	Targeting VEGF and Its Receptors for the Treatment of Osteoarthritis and Associated Pain. Journal of Bone and Mineral Research, 2016, 31, 911-924.	2.8	181
22	Biochanin-A antagonizes the interleukin-1Î²-induced catabolic inflammation through the modulation of NFÎºB cellular signaling in primary rat chondrocytes. Biochemical and Biophysical Research Communications, 2016, 477, 723-730.	2.1	43
23	Intraarticular slow-release triamcinolone acetate reduces allodynia in an experimental mouse knee osteoarthritis model. Gene, 2016, 591, 1-5.	2.2	7
24	Rho-Associated Kinase Inhibitor Immortalizes Rat Nucleus Pulposus and Annulus Fibrosus Cells. Spine, 2016, 41, E255-E261.	2.0	32
25	Biological Effects of the Herbal Plant-Derived Phytoestrogen Bavachin in Primary Rat Chondrocytes. Biological and Pharmaceutical Bulletin, 2015, 38, 1199-1207.	1.4	12
26	Osteoarthritis-like pathologic changes in the knee joint induced by environmental disruption of circadian rhythms is potentiated by a high-fat diet. Scientific Reports, 2015, 5, 16896.	3.3	25
27	Berberine induces FasL-related apoptosis through p38 activation in KB human oral cancer cells. Oncology Reports, 2015, 33, 1775-1782.	2.6	36
28	Environmental Disruption of Circadian Rhythm Predisposes Mice to Osteoarthritisâ€Like Changes in Knee Joint. Journal of Cellular Physiology, 2015, 230, 2174-2183.	4.1	47
29	Licochalcone-A induces intrinsic and extrinsic apoptosis via ERK1/2 and p38 phosphorylation-mediated TRAIL expression in head and neck squamous carcinoma FaDu cells. Food and Chemical Toxicology, 2015, 77, 34-43.	3.6	47
30	Kindlin-2 controls TGF-Î² signalling and Sox9 expression to regulate chondrogenesis. Nature Communications, 2015, 6, 7531.	12.8	93
31	Induction of Osteoarthritisâ€like Pathologic Changes by Chronic Alcohol Consumption in an Experimental Mouse Model. Arthritis and Rheumatology, 2015, 67, 1678-1680.	5.6	16
32	Development of an Experimental Animal Model for Lower Back Pain by Percutaneous Injury-Induced Lumbar Facet Joint Osteoarthritis. Journal of Cellular Physiology, 2015, 230, 2837-2847.	4.1	30
33	MicroRNA-146a reduces IL-1 dependent inflammatory responses in the intervertebral disc. Gene, 2015, 555, 80-87.	2.2	91
34	The chondrocyte clock gene Bmal1 controls cartilage homeostasis and integrity. Journal of Clinical Investigation, 2015, 126, 365-376.	8.2	151
35	Pain assessment in animal models of osteoarthritis. Gene, 2014, 537, 184-188.	2.2	94
36	Highâ€Resolution Molecular Validation of Selfâ€Renewal and Spontaneous Differentiation in Clinicalâ€Grade Adiposeâ€Tissue Derived Human Mesenchymal Stem Cells. Journal of Cellular Biochemistry, 2014, 115, 1816-1828.	2.6	142

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37	Licochalcone A induces apoptosis in KB human oral cancer cells via a caspase-dependent FasL signaling pathway. Oncology Reports, 2014, 31, 755-762.	2.6	40
38	Col10a1-Runx2 transgenic mice with delayed chondrocyte maturation are less susceptible to developing osteoarthritis. American Journal of Translational Research (discontinued), 2014, 6, 736-45.	0.0	12
39	Bovine lactoferricin is antiâ€inflammatory and antiâ€catabolic in human articular cartilage and synovium. Journal of Cellular Physiology, 2013, 228, 447-456.	4.1	37
40	MMP13 is a critical target gene during the progression of osteoarthritis. Arthritis Research and Therapy, 2013, 15, R5.	3.5	385
41	A current review of molecular mechanisms regarding osteoarthritis and pain. Gene, 2013, 527, 440-447.	2.2	328
42	Bovine lactoferricin induces TIMP-3 via the ERK1/2-Sp1 axis in human articular chondrocytes. Gene, 2013, 517, 12-18.	2.2	19
43	Lactoferricin enhances BMP7-stimulated anabolic pathways in intervertebral disc cells. Gene, 2013, 524, 282-291.	2.2	16
44	MicroRNA Functions in Osteogenesis and Dysfunctions in Osteoporosis. Current Osteoporosis Reports, 2013, 11, 72-82.	3.6	192
45	Altered Spinal MicroRNA-146a and the MicroRNA-183 Cluster Contribute to Osteoarthritic Pain in Knee Joints. Journal of Bone and Mineral Research, 2013, 28, 2512-2522.	2.8	73
46	ADAR1 ablation decreases bone mass by impairing osteoblast function in mice. Gene, 2013, 513, 101-110.	2.2	25
47	Deletion of the Transforming Growth Factor Î² Receptor Type II Gene in Articular Chondrocytes Leads to a Progressive Osteoarthritisâ€like Phenotype in Mice. Arthritis and Rheumatism, 2013, 65, 3107-3119.	6.7	159
48	Critical Role of AKT Protein in Myeloma-induced Osteoclast Formation and Osteolysis. Journal of Biological Chemistry, 2013, 288, 30399-30410.	3.4	56
49	The anti-catabolic role of bovine lactoferricin in cartilage. Biomolecular Concepts, 2013, 4, 495-500.	2.2	6
50	Lactoferricin mediates antiâ€inflammatory and antiâ€catabolic effects via inhibition of ILâ€1 and LPS activity in the intervertebral disc. Journal of Cellular Physiology, 2013, 228, 1884-1896.	4.1	68
51	Bovine Lactoferricin-induced Anti-inflammation Is, in Part, via Up-regulation of Interleukin-11 by Secondary Activation of STAT3 in Human Articular Cartilage. Journal of Biological Chemistry, 2013, 288, 31655-31669.	3.4	20
52	ATF4 promotes bone angiogenesis by increasing vegf expression and release in the bone environment. Journal of Bone and Mineral Research, 2013, 28, 1870-1884.	2.8	57
53	HGF Mediates the Anti-inflammatory Effects of PRP on Injured Tendons. PLoS ONE, 2013, 8, e67303.	2.5	159
54	ATF4 Promotes Î²-Catenin Expression and Osteoblastic Differentiation of Bone Marrow Mesenchymal Stem Cells. International Journal of Biological Sciences, 2013, 9, 256-266.	6.4	50

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55	Critical Role of Filamin-binding LIM Protein 1 (FBLP-1)/Migfilin in Regulation of Bone Remodeling. Journal of Biological Chemistry, 2012, 287, 21450-21460.	3.4	57
56	Lumbar Facet Joint Compressive Injury Induces Lasting Changes in Local Structure, Nociceptive Scores, and Inflammatory Mediators in a Novel Rat Model. Pain Research and Treatment, 2012, 2012, 1-11.	1.7	20
57	Toll-like receptor adaptor signaling molecule MyD88 on intervertebral disk homeostasis: In vitro, ex vivo studies. Gene, 2012, 505, 283-290.	2.2	51
58	Targeting Runx2 expression in hypertrophic chondrocytes impairs endochondral ossification during early skeletal development. Journal of Cellular Physiology, 2012, 227, 3446-3456.	4.1	57
59	Biological effects of the plantâ€derived polyphenol resveratrol in human articular cartilage and chondrosarcoma cells. Journal of Cellular Physiology, 2012, 227, 3488-3497.	4.1	39
60	Speciesâ€specific biological effects of FGFâ€2 in articular cartilage: Implication for distinct roles within the FGF receptor family. Journal of Cellular Biochemistry, 2012, 113, 2532-2542.	2.6	63
61	Fibroblast growth factorâ€2 promotes catabolism via FGFR1â€Rasâ€Rafâ€MEK1/2â€ERK1/2 axis that coordinates with the PKCÎ´ pathway in human articular chondrocytes. Journal of Cellular Biochemistry, 2012, 113, 2856-2865.	2.6	42
62	The pathophysiologic role of the protein kinase CÎ´ pathway in the intervertebral discs of rabbits and mice: In vitro, ex vivo, and in vivo studies. Arthritis and Rheumatism, 2012, 64, 1950-1959.	6.7	32
63	Conditional activation of Î²â€catenin signaling in mice leads to severe defects in intervertebral disc tissue. Arthritis and Rheumatism, 2012, 64, 2611-2623.	6.7	92
64	Lactoferricin mediates anabolic and antiâ€catabolic effects in the intervertebral disc. Journal of Cellular Physiology, 2012, 227, 1512-1520.	4.1	31
65	The rat intervertebral disk degeneration pain model: relationships between biological and structural alterations and pain. Arthritis Research and Therapy, 2011, 13, R165.	3.5	60
66	MicroRNA-146a is linked to pain-related pathophysiology of osteoarthritis. Gene, 2011, 480, 34-41.	2.2	181
67	Fibroblast growth factor receptor 1 is principally responsible for fibroblast growth factor 2-induced catabolic activities in human articular chondrocytes. Arthritis Research and Therapy, 2011, 13, R130.	3.5	124
68	Recent progress in understanding molecular mechanisms of cartilage degeneration during osteoarthritis. Annals of the New York Academy of Sciences, 2011, 1240, 61-69.	3.8	160
69	Osteoarthritic tissues modulate functional properties of sensory neurons associated with symptomatic OA pain. Molecular Biology Reports, 2011, 38, 5335-5339.	2.3	25
70	Characterization of a new animal model for evaluation and treatment of back pain due to lumbar facet joint osteoarthritis. Arthritis and Rheumatism, 2011, 63, 2966-2973.	6.7	42
71	Induction of CD44 cleavage in articular chondrocytes. Arthritis and Rheumatism, 2010, 62, 1338-1348.	6.7	37
72	Alteration of sensory neurons and spinal response to an experimental osteoarthritis pain model. Arthritis and Rheumatism, 2010, 62, 2995-3005.	6.7	149

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73	Insulinâ€like growth factor 1 synergizes with bone morphogenetic protein 7â€“mediated anabolism in bovine intervertebral disc cells. Arthritis and Rheumatism, 2010, 62, 3706-3715.	6.7	53
74	Emerging roles of SUMO modification in arthritis. Gene, 2010, 466, 1-15.	2.2	20
75	Basic fibroblast growth factor induces matrix metalloproteinase-13 via ERK MAP kinase-altered phosphorylation and sumoylation of Elk-1 in human adult articular chondrocytes. Open Access Rheumatology: Research and Reviews, 2009, 1, 151.	1.6	8
76	Increased expression of the Akt/PKB inhibitor TRB3 in osteoarthritic chondrocytes inhibits insulinâ€like growth factor 1â€“mediated cell survival and proteoglycan synthesis. Arthritis and Rheumatism, 2009, 60, 492-500.	6.7	80
77	Prostaglandin E₂ and its cognate EP receptors control human adult articular cartilage homeostasis and are linked to the pathophysiology of osteoarthritis. Arthritis and Rheumatism, 2009, 60, 513-523.	6.7	137
78	Adherens junction protein, p120 catenin, represses transcriptional activity of endothelial cells. FASEB Journal, 2009, 23, 1028.3.	0.5	0
79	Basic fibroblast growth factor accelerates matrix degradation via a neuroâ€endocrine pathway in human adult articular chondrocytes. Journal of Cellular Physiology, 2008, 215, 452-463.	4.1	84
80	Action of fibroblast growth factor-2 on the intervertebral disc. Arthritis Research and Therapy, 2008, 10, R48.	3.5	44
81	Biological impact of the fibroblast growth factor family on articular cartilage and intervertebral disc homeostasis. Gene, 2008, 420, 82-89.	2.2	150
82	The Action of Resveratrol, a Phytoestrogen Found in Grapes, on the Intervertebral Disc. Spine, 2008, 33, 2586-2595.	2.0	64
83	Basic Fibroblast Growth Factor Activates the MAPK and NFÎºB Pathways That Converge on Elk-1 to Control Production of Matrix Metalloproteinase-13 by Human Adult Articular Chondrocytes. Journal of Biological Chemistry, 2007, 282, 31409-31421.	3.4	90
84	Basic Fibroblast Growth Factor Stimulates Matrix Metalloproteinase-13 via the Molecular Cross-talk between the Mitogen-activated Protein Kinases and Protein Kinase CÎ´ Pathways in Human Adult Articular Chondrocytes. Journal of Biological Chemistry, 2007, 282, 11110-11121.	3.4	156
85	EP4 receptor regulates collagen type-I, MMP-1, and MMP-3 gene expression in human tendon fibroblasts in response to IL-1Î² treatment. Gene, 2007, 386, 154-161.	2.2	95
86	Mechanoregulation of gene expression in fibroblasts. Gene, 2007, 391, 1-15.	2.2	225
87	Leukotriene B4 at low dosage negates the catabolic effect of prostaglandin E2 in human patellar tendon fibroblasts. Gene, 2006, 372, 103-109.	2.2	23
88	Hyaluronan Oligosaccharides Induce Matrix Metalloproteinase 13 via Transcriptional Activation of NFÎºB and p38 MAP Kinase in Articular Chondrocytes. Journal of Biological Chemistry, 2006, 281, 17952-17960.	3.4	95
89	Hyaluronan oligosaccharide-induced activation of transcription factors in bovine articular chondrocytes. Arthritis and Rheumatism, 2005, 52, 800-809.	6.7	54
90	Articular chondrocytes express the receptor for advanced glycation end products: Potential role in osteoarthritis. Arthritis and Rheumatism, 2005, 52, 2376-2385.	6.7	206

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91	Basic fibroblast growth factor inhibits the anabolic activity of insulin-like growth factor 1 and osteogenic protein 1 in adult human articular chondrocytes. Arthritis and Rheumatism, 2005, 52, 3910-3917.	6.7	98
92	Increased Matrix Metalloproteinase-13 Production With Aging by Human Articular Chondrocytes in Response to Catabolic Stimuli. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2005, 60, 1118-1124.	3.6	104
93	NF-Î²B Mediates the Stimulation of Cytokine and Chemokine Expression by Human Articular Chondrocytes in Response to Fibronectin Fragments. Journal of Immunology, 2005, 174, 5781-5788.	0.8	193
94	Repetitive mechanical stretching modulates IL-1Î² induced COX-2, MMP-1 expression, and PGE2 production in human patellar tendon fibroblasts. Gene, 2005, 363, 166-172.	2.2	246
95	Immediate early gene X-1 interacts with proteins that modulate apoptosis. Biochemical and Biophysical Research Communications, 2004, 323, 1293-1298.	2.1	31
96	Inhibitory Effects of Insulin-like Growth Factor-1 and Osteogenic Protein-1 on Fibronectin Fragment- and Interleukin-1Î²-stimulated Matrix Metalloproteinase-13 Expression in Human Chondrocytes. Journal of Biological Chemistry, 2003, 278, 25386-25394.	3.4	126
97	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. Journal of Biological Chemistry, 2003, 278, 24577-24585.	3.4	126
98	A Novel Vitamin D-Regulated Immediate-Early Gene, IEX-1, Alters Cellular Growth and Apoptosis. Recent Results in Cancer Research, 2003, 164, 123-134.	1.8	16
99	Divergent Regulation of the Growth-promoting GeneIEX-1 by the p53 Tumor Suppressor and Sp1. Journal of Biological Chemistry, 2002, 277, 14612-14621.	3.4	49
100	Characterization of a novel hexameric repeat DNA sequence in the promoter of the immediate early gene, IEX-1, that mediates 1Î±,25-dihydroxyvitamin D3-associated IEX-1 gene repression. Oncogene, 2002, 21, 3706-3714.	5.9	25
101	Transcriptional Modulation of Mouse Î¼-Opioid Receptor Distal Promoter Activity by Sox18. Molecular Pharmacology, 2001, 59, 1486-1496.	2.3	22
102	Opioid receptor gene: cytokine response element and the effect of cytokines. Brain Research, 1999, 829, 174-179.	2.2	15
103	Mouse Î¼ Opioid Receptor Gene Expression. Journal of Biological Chemistry, 1998, 273, 34926-34932.	3.4	22