Yuji Hiraki

List of Publications by Year
in descending order

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105 papers	5,632 citations	61984 43 h-index	85541 71 g-index
106 all docs	106 docs citations	106 times ranked	5070 citing authors

#	Article	IF	Citations
1	Scleraxis upregulated by transforming growth factor-Î²1 signaling inhibits tension-induced osteoblast differentiation of priodontal ligament cells via ephrin A2. Bone, 2021, 149, 115969.	2.9	7
2	Role of Scx+/Sox9+ cells as potential progenitor cells for postnatal supraspinatus enthesis formation and healing after injury in mice. PLoS ONE, 2020, 15, e0242286.	2.5	18
3	Fibroblast Growth Factor 2 Enhances Tendon-to-Bone Healing in a Rat Rotator Cuff Repair of Chronic Tears. American Journal of Sports Medicine, 2019, 47, 1701-1712.	4.2	47
4	Differential transactivation of the upstream aggrecan enhancer regulated by PAX1/9 depends on SOX9-driven transactivation. Scientific Reports, 2019, 9, 4605.	3.3	23
5	Scleraxis is a transcriptional activator that regulates the expression of Tenomodulin, a marker of mature tenocytes and ligamentocytes. Scientific Reports, 2018, 8, 3155.	3.3	95
6	THRAP3 interacts with and inhibits the transcriptional activity of SOX9 during chondrogenesis. Journal of Bone and Mineral Metabolism, 2018, 36, 410-419.	2.7	9
7	TGF-Î²1 Improves Biomechanical Strength by Extracellular Matrix Accumulation Without Increasing the Number of Tenogenic Lineage Cells in a Rat Rotator Cuff Repair Model. American Journal of Sports Medicine, 2017, 45, 2394-2404.	4.2	50
8	Scleraxis is required for maturation of tissue domains for proper integration of the musculoskeletal system. Scientific Reports, 2017, 7, 45010.	3.3	83
9	Molecular characterization and function of tenomodulin, a marker of tendons and ligaments that integrate musculoskeletal components. Japanese Dental Science Review, 2016, 52, 84-92.	5.1	36
10	Functional Investigation of a Non-coding Variant Associated with Adolescent Idiopathic Scoliosis in Zebrafish: Elevated Expression of the Ladybird Homeobox Gene Causes Body Axis Deformation. PLoS Genetics, 2016, 12, e1005802.	3.5	51
11	Scleraxis and osterix antagonistically regulate tensile force-responsive remodeling of the periodontal ligament and alveolar bone. Development (Cambridge), 2015, 142, 787-796.	2.5	86
12	A Functional SNP in BNC2 Is Associated with Adolescent Idiopathic Scoliosis. American Journal of Human Genetics, 2015, 97, 337-342.	6.2	119
13	FGF-2 Stimulates the Growth of Tenogenic Progenitor Cells to Facilitate the Generation of Tenomodulin-Positive Tenocytes in a Rat Rotator Cuff Healing Model. American Journal of Sports Medicine, 2015, 43, 2411-2422.	4.2	97
14	The N-Terminal Cleavage of Chondromodulin-I in Growth-Plate Cartilage at the Hypertrophic and Calcified Zones during Bone Development. PLoS ONE, 2014, 9, e94239.	2.5	6
15	Generation and characterization of ScxCre transgenic mice. Genesis, 2013, 51, 275-283.	1.6	55
16	Pax1 acts as a negative regulator of chondrocyte maturation. Experimental Cell Research, 2013, 319, 3128-3139.	2.6	23
17	Genetic variants in GPR126 are associated with adolescent idiopathic scoliosis. Nature Genetics, 2013, 45, 676-679.	21.4	240
18	Scx+/Sox9+ progenitors contribute to the establishment of the junction between cartilage and tendon/ligament. Development (Cambridge), 2013, 140, 2280-2288.	2.5	234

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19	Tenomodulin Expression in the Periodontal Ligament Enhances Cellular Adhesion. PLoS ONE, 2013, 8, e60203.	2.5	25
20	Direct conversion of tenocytes into chondrocytes by Sox9. Experimental Cell Research, 2012, 318, 1492-1507.	2.6	44
21	Synthetic disulfideâ€bridged cyclic peptides mimic the antiâ€angiogenic actions of chondromodulinâ€I. Cancer Science, 2012, 103, 1311-1318.	3.9	10
22	A functional role of the glycosylated N-terminal domain of chondromodulin-I. Journal of Bone and Mineral Metabolism, 2011, 29, 23-30.	2.7	7
23	Localization of chondromodulin-I at the feto-maternal interface and its inhibitory actions on trophoblast invasion in vitro. BMC Cell Biology, 2011, 12, 34.	3.0	6
24	Genomic Organization of the Human Chondromodulin-1 Gene Containing a Promoter Region That Confers the Expression of Reporter Gene in Chondrogenic ATDC5 Cells. Journal of Bone and Mineral Research, 2010, 15, 421-429.	2.8	13
25	Stimulatory actions of lysophosphatidic acid on mouse ATDC5 chondroprogenitor cells. Journal of Bone and Mineral Metabolism, 2010, 28, 659-671.	2.7	6
26	Impairment of VEGF-A-stimulated lamellipodial extensions and motility of vascular endothelial cells by chondromodulin-I, a cartilage-derived angiogenesis inhibitor. Experimental Cell Research, 2010, 316, 775-788.	2.6	25
27	Periostin advances atherosclerotic and rheumatic cardiac valve degeneration by inducing angiogenesis and MMP production in humans and rodents. Journal of Clinical Investigation, 2010, 120, 2292-2306.	8.2	160
28	Chondromodulin-I: A Growth-Modulating Functional Matrix in Cartilage. Inflammation and Regeneration, 2009, 29, 317-323.	3.7	0
29	Benzene Metabolite Hydroquinone Up-Regulates Chondromodulin-I and Inhibits Tube Formation in Human Bone Marrow Endothelial Cells. Molecular Pharmacology, 2009, 76, 579-587.	2.3	38
30	Analyses of early events during chondrogenic repair in rat full-thickness articular cartilage defects. Journal of Bone and Mineral Metabolism, 2009, 27, 272-286.	2.7	37
31	Gene delivery process in a single animal cell after femtosecond laser microinjection. Applied Surface Science, 2009, 255, 9880-9884.	6.1	34
32	Differential actions of VEGF-A isoforms on perichondrial angiogenesis during endochondral bone formation. Developmental Biology, 2009, 332, 196-211.	2.0	21
33	Nanoparticle injection to single animal cells using femtosecond laser-induced impulsive force. Applied Physics A: Materials Science and Processing, 2008, 93, 39-43.	2.3	17
34	Chondromodulin-I and tenomodulin are differentially expressed in the avascular mesenchyme during mouse and chick development. Cell and Tissue Research, 2008, 332, 111-122.	2.9	42
35	Cartilaginous features in matrix-producing carcinoma of the breast: four cases report with histochemical and immunohistochemical analysis of matrix molecules. Modern Pathology, 2008, 21, 1282-1292.	5.5	35
36	Altered fracture callus formation in chondromodulin-I deficient mice. Bone, 2008, 43, 1047-1056.	2.9	23

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37	Local Tenomodulin Absence, Angiogenesis, and Matrix Metalloproteinase Activation Are Associated With the Rupture of the Chordae Tendineae Cordis. Circulation, 2008, 118, 1737-1747.	1.6	45
38	Chondromodulin-I and Tenomodulin: The Negative Control of Angiogenesis in Connective Tissue. Current Pharmaceutical Design, 2007, 13, 2101-2112.	1.9	40
39	Nondestructive micropatterning of living animal cells using focused femtosecond laser-induced impulsive force. Applied Physics Letters, 2007, 91, .	3.3	51
40	Dual effects of the membrane-anchored MMP regulator RECK on chondrogenic differentiation of ATDC5 cells. Journal of Cell Science, 2007, 120, 849-857.	2.0	39
41	Immobilization of Bioactive Fibroblast Growth Factor-2 into Cubic Proteinous Microcrystals (Bombyx) Tj ETQq1 1 0.784314 rgBT /Ove Biological Chemistry, 2007, 282, 17289-17296.	3.4	35
42	Nondestructive micro-patterning of proteinous occlusion bodies in water by femtosecond laser-induced mechanical force. Biomedical Microdevices, 2007, 9, 105-111.	2.8	15
43	Femtosecond laser processing in water for single living cell and solid phase protein. The Review of Laser Engineering, 2007, 35, 246-247.	0.0	0
44	Scleraxis positively regulates the expression of tenomodulin, a differentiation marker of tenocytes. Developmental Biology, 2006, 298, 234-247.	2.0	380
45	Chondromodulin-I maintains cardiac valvular function by preventing angiogenesis. Nature Medicine, 2006, 12, 1151-1159.	30.7	134
46	Expression and localization of cartilage-specific matrix protein chondromodulin-I mRNA in salivary pleomorphic adenomas. Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin, 2005, 446, 34-40.	2.8	5
47	Angiogenesis Inhibitors Localized in Hypovascular Mesenchymal Tissues: Chondromodulin-I and Tenomodulin. Connective Tissue Research, 2005, 46, 3-11.	2.3	29
48	Chondromodulin-I and tenomodulin: A new class of tissue-specific angiogenesis inhibitors found in hypovascular connective tissues. Biochemical and Biophysical Research Communications, 2005, 333, 299-307.	2.1	80
49	Anti-angiogenic action of the C-terminal domain of tenomodulin that shares homology with chondromodulin-I. Journal of Cell Science, 2004, 117, 2731-2744.	2.0	68
50	Expression Profiles Provide Insights into Early Malignant Potential and Skeletal Abnormalities in Multiple Endocrine Neoplasia Type 2B Syndrome Tumors. Cancer Research, 2004, 64, 3907-3913.	0.9	66
51	Active proliferation of mesenchymal cells prior to the chondrogenic repair response in rabbit full-thickness defects of articular cartilage11This work was partly supported by grants from the Ministry of Health, Labor and Welfare, and Grant-in Aid for Scientific Research from the Ministry of Education, Culture, Sports, Science and Technology of Japan.. Osteoarthritis and Cartilage, 2004, 12, 586-596.	1.3	64
52	Suppression of T cell responses by chondromodulin I, a cartilage-derived angiogenesis inhibitory factor: Therapeutic potential in rheumatoid arthritis. Arthritis and Rheumatism, 2004, 50, 828-839.	6.7	20
53	Transcriptome analysis of early chondrogenesis in ATDC5 cells induced by bone morphogenetic protein 4. Genomics, 2004, 83, 45-58.	2.9	23
54	Single Cell Manipulation Using Femtosecond Laser Induced Shockwave. The Review of Laser Engineering, 2004, 32, 94-98.	0.0	12

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55	Research on the Control of Growth/Differentiation of Tissue Stem Cells; Possible Applications of Laser Technology for the Understanding of Inductive Tissue Regeneration. The Review of Laser Engineering, 2004, 32, 99-104.	0.0	0
56	Immunohistochemical evaluation of cartilage-derived morphogenic protein-1 and -2 in normal human salivary glands and pleomorphic adenomas. Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin, 2003, 442, 482-490.	2.8	11
57	Suppression of differentiation and proliferation of early chondrogenic cells by Notch. Journal of Bone and Mineral Metabolism, 2003, 21, 344-352.	2.7	110
58	Expression and Localization of Tenomodulin, a Transmembrane Type Chondromodulin-I-Related Angiogenesis Inhibitor, in Mouse Eyes. , 2003, 44, 1814.		66
59	Chondromodulin I Is a Bone Remodeling Factor. Molecular and Cellular Biology, 2003, 23, 636-644.	2.3	54
60	Cartilage-specific matrix protein, chondromodulin-I (ChM-I), is a strong angio-inhibitor in endochondral ossification of human neonatal vertebral tissues in vivo: relationship with angiogenic factors in the cartilage. Acta Histochemica, 2002, 104, 167-175.	1.8	29
61	Phenotypic switching of in vitro mandibular condylar cartilage during matrix mineralization. Kaibogaku Zasshi Journal of Anatomy, 2002, 77, 237-246.	1.2	12
62	Molecular Cloning of tenomodulin, a Novel Chondromodulin-I Related Gene. Biochemical and Biophysical Research Communications, 2001, 280, 1323-1327.	2.1	101
63	Cartilage-Specific Matrix Protein Chondromodulin-I Is Associated with Chondroid Formation in Salivary Pleomorphic Adenomas. American Journal of Pathology, 2001, 158, 1465-1472.	3.8	25
64	Sequence analysis of zebrafish chondromodulin-1 and expression profile in the notochord and chondrogenic regions during cartilage morphogenesis. Mechanisms of Development, 2001, 105, 157-162.	1.7	35
65	A Novel Alternatively Spliced Fibroblast Growth Factor Receptor 3 Isoform Lacking the Acid Box Domain Is Expressed during Chondrogenic Differentiation of ATDC5 Cells. Journal of Biological Chemistry, 2001, 276, 11031-11040.	3.4	52
66	Immunohistochemistry of chondromodulin-I in the human intervertebral discs with special reference to the degenerative changes. The Histochemical Journal, 2000, 32, 545-550.	0.6	17
67	Differential Expressions of BMP Family Genes during Chondrogenic Differentiation of Mouse ATDC5 Cells.. Cell Structure and Function, 2000, 25, 195-204.	1.1	49
68	Requirement of autocrine signaling by bone morphogenetic protein-4 for chondrogenic differentiation of ATDC5 cells. FEBS Letters, 2000, 469, 83-87.	2.8	40
69	Inhibition of Chondrogenesis by Parathyroid Hormone In Vivo During Repair of Full-Thickness Defects of Articular Cartilage. Journal of Bone and Mineral Research, 2000, 15, 253-260.	2.8	22
70	Molecular Cloning and Biological Activity of a Novel Ha-Ras Suppressor Gene Predominantly Expressed in Skeletal Muscle, Heart, Brain, and Bone Marrow by Differential Display Using Clonal Mouse EC Cells, ATDC5. Journal of Biological Chemistry, 1999, 274, 32192-32197.	3.4	50
71	Cloning of a novel gene specifically expressed in clonal mouse chondroprogenitor-like EC cells, ATDC5. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1999, 1444, 291-294.	2.4	1
72	Molecular cloning of human chondromodulin-I, a cartilage-derived growth modulating factor, and its expression in Chinese hamster ovary cells. FEBS Journal, 1999, 260, 869-878.	0.2	63

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73	Generation of multiple transcripts from the chicken chondromodulin-I gene and their expression during embryonic development. FEBS Letters, 1999, 456, 165-170.	2.8	17
74	Specific loss of chondromodulin-I gene expression in chondrosarcoma and the suppression of tumor angiogenesis and growth by its recombinant protein in vivo. FEBS Letters, 1999, 458, 436-440.	2.8	57
75	Indian Hedgehog in the Late-Phase Differentiation in Mouse Chondrogenic EC Cells, ATDC5: Upregulation of Type X Collagen and Osteoprotegerin Ligand mRNAs. Biochemical and Biophysical Research Communications, 1999, 257, 814-820.	2.1	44
76	Expression of Cartilage-Specific Functional Matrix Chondromodulin-I mRNA in Rabbit Growth Plate Chondrocytes and Its Responsiveness to Growth Stimuliin Vitro. Biochemical and Biophysical Research Communications, 1998, 249, 885-890.	2.1	30
77	Sequential Progression of the Differentiation Program by Bone Morphogenetic Protein-2 in Chondrogenic Cell Line ATDC5. Experimental Cell Research, 1998, 241, 1-11.	2.6	149
78	Functional Analysis of Diastrophic Dysplasia Sulfate Transporter. Journal of Biological Chemistry, 1998, 273, 12307-12315.	3.4	120
79	Identification of Chondromodulin I as a Novel Endothelial Cell Growth Inhibitor. Journal of Biological Chemistry, 1997, 272, 32419-32426.	3.4	170
80	Cloning of a Mouse Smoothened cDNA and Expression Patterns of Hedgehog Signalling Molecules during Chondrogenesis and Cartilage Differentiation in Clonal Mouse EC Cells, ATDC5. Biochemical and Biophysical Research Communications, 1997, 235, 142-147.	2.1	67
81	Identification of an Autocrine Chondrocyte Colony-Stimulating Factor: Chondromodulin-I Stimulates the Colony Formation of Growth Plate Chondrocytes in Agarose Culture. Biochemical and Biophysical Research Communications, 1997, 241, 395-400.	2.1	46
82	Stimulation of osteoblast proliferation by the cartilage-derived growth promoting factors chondromodulin-I and -II. FEBS Letters, 1997, 406, 310-314.	2.8	35
83	Inhibition of DNA synthesis and tube morphogenesis of cultured vascular endothelial cells by chondromodulin-I. FEBS Letters, 1997, 415, 321-324.	2.8	52
84	Cellular Hypertrophy and Calcification of Embryonal Carcinoma-Derived Chondrogenic Cell Line ATDC5 In Vitro. Journal of Bone and Mineral Research, 1997, 12, 1174-1188.	2.8	260
85	Requirement of fibroblast growth factor signaling for regeneration of epiphyseal morphology in rabbit full-thickness defects of articular cartilage. Development Growth and Differentiation, 1997, 39, 143-156.	1.5	75
86	Construction of a Human Chondromodulin-I Expression System in CHO Cells. , 1997, , 691-695.		0
87	High-density culture of mouse Meckel's cartilage cells stimulates phenotypic conversion to osteocyte-like cells. Journal of Bone and Mineral Metabolism, 1996, 14, 202-213.	2.7	10
88	A Novel Growth-Promoting Factor Derived from Fetal Bovine Cartilage, Chondromodulin II. Journal of Biological Chemistry, 1996, 271, 22657-22662.	3.4	53
89	1Î±,25-dihydroxyvitamin D3 inhibits cell growth and chondrogenesis of a clonal mouse EC cell line, ATDC5. Journal of Bone and Mineral Research, 1996, 11, 22-28.	2.8	49
90	Bone morphogenetic proteins (BMP-2 and BMP-3) induce the late phase expression of the proto-oncogene c-fosin murine osteoblastic MC3T3-E1 cells. FEBS Letters, 1992, 314, 356-360.	2.8	32

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91	Molecular cloning of a new class of cartilage-specific matrix, chondromodulin-I, which stimulates growth of cultured chondrocytes. Biochemical and Biophysical Research Communications, 1991, 175, 971-977.	2.1	110
92	Fracture healing induces expression of the proto-oncogenec-fosin vivo Possible involvement of the Fos protein in osteoblastic differentiation. FEBS Letters, 1991, 284, 42-45.	2.8	41
93	GENERAL SESSION. Acta Histochemica Et Cytochemica, 1991, 24, 517-525.	1.6	0
94	Bone morphogenetic proteins (BMP-2 and BMP-3) promote growth and expression of the differentiated phenotype of rabbit chondrocytes and osteoblastic MC3T3-E1 cells in vitro. Journal of Bone and Mineral Research, 1991, 6, 1373-1385.	2.8	135
95	Differential modulation of growth and phenotypic expression of chondrocytes in sparse and confluent cultures by growth factors in cartilage. Journal of Bone and Mineral Research, 1990, 5, 1077-1085.	2.8	14
96	Stimulation of cartilage-matrix proteoglycan synthesis by morphologically transformed chondrocytes grown in the presence of fibroblast growth factor and transforming growth factor-beta. Journal of Cellular Physiology, 1989, 138, 329-337.	4.1	92
97	Cartilage-derived anti-tumor factor (CATF). Japanese Journal of Bone and Mineral Metabolism, 1988, 6, 29-38.	0.1	7
98	Effect of transforming growth factor Î² on cell proliferation and glycosaminoglycan synthesis by rabbit growth-plate chondrocytes in culture. Biochimica Et Biophysica Acta - Molecular Cell Research, 1988, 969, 91-99.	4.1	93
99	[29] Preparation of Cartilage-Derived Factor. Methods in Enzymology, 1987, 146, 313-320.	1.0	10
100	Combined effects of somatomedin-like growth factors with fibroblast growth factor or epidermal growth factor in DNA synthesis in rabbit chondrocytes. Molecular and Cellular Biochemistry, 1987, 76, 185-93.	3.1	34
101	Stimulation of DNA synthesis in quiescent rabbit chondrocytes in culture by limited exposure to somatomedin-like growth factors. FEBS Journal, 1986, 158, 333-337.	0.2	16
102	Differential effects of parathyroid hormone and somatomedin-like growth factors on the sizes of proteoglycan monomers and their synthesis in rabbit costal chondrocytes in culture. Biochimica Et Biophysica Acta - Molecular Cell Research, 1985, 845, 445-453.	4.1	39
103	Effect of cartilage-derived factor on DNA and protein synthesis in cultured rat calvariae. Calcified Tissue International, 1984, 36, 102-107.	3.1	6
104	Differential and Synergistic Actions of Somatomedinâ€Like Growth Factors, Fibroblast Growth Factor and Epidermal Growth Factor in Rabbit Costal Chondrocytes. FEBS Journal, 1983, 129, 685-690.	0.2	87
105	Selective stimulation of sulfated glycosaminoglycan synthesis by multiplication-stimulating activity, cartilage-derived factor and bone-derived growth factor. Biochimica Et Biophysica Acta - General Subjects, 1982, 716, 232-239.	2.4	17