

# Masaharu Takigawa

## List of Publications by Year in descending order

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101  
papers

6,112  
citations

57631

44  
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72  
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101  
all docs

101  
docs citations

101  
times ranked

4425  
citing authors

#	ARTICLE	IF	CITATIONS
1	Role and interaction of connective tissue growth factor with transforming growth factor- $\beta$ in persistent fibrosis: A mouse fibrosis model. , 1999, 181, 153-159.		431
2	Effects of CTGF/Hcs24, a Product of a Hypertrophic Chondrocyte-Specific Gene, on the Proliferation and Differentiation of Chondrocytes in Culture. Endocrinology, 2000, 141, 264-273.	1.4	240
3	Effects of CTGF/Hcs24, a hypertrophic chondrocyte-specific gene product, on the proliferation and differentiation of osteoblastic cells in vitro. Journal of Cellular Physiology, 2000, 184, 197-206.	2.0	185
4	Cloning of a mRNA Preferentially Expressed in Chondrocytes by Differential Display-PCR from a Human Chondrocytic Cell Line That Is Identical with Connective Tissue Growth Factor (CTGF) mRNA. Biochemical and Biophysical Research Communications, 1997, 234, 206-210.	1.0	177
5	Role of CTGF/HCS24/ecogenin in skeletal growth control. Journal of Cellular Physiology, 2003, 194, 256-266.	2.0	174
6	Connective tissue growth factor increased by hypoxia may initiate angiogenesis in collaboration with matrix metalloproteinases. Carcinogenesis, 2002, 23, 769-776.	1.3	159
7	CTGF/Hcs24 induces chondrocyte differentiation through a p38 mitogen-activated protein kinase (p38MAPK), and proliferation through a p44/42 MAPK/extracellular-signal regulated kinase (ERK). FEBS Journal, 2001, 268, 6058-6065.	0.2	146
8	Regeneration of Defects in Articular Cartilage in Rat Knee Joints by CCN2 (Connective Tissue Growth) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.1	145
9	Cellular and molecular actions of CCN2/CTGF and its role under physiological and pathological conditions. Clinical Science, 2015, 128, 181-196.	1.8	145
10	Increases in p53 expression induce CTGF synthesis by mouse and human hepatocytes and result in liver fibrosis in mice. Journal of Clinical Investigation, 2011, 121, 3343-3356.	3.9	138
11	Chondrocytes Are Regulated by Cellular Adhesion Through CD44 and Hyaluronic Acid Pathway. Journal of Bone and Mineral Research, 1997, 12, 1657-1663.	3.1	132
12	CT domain of CCN2/CTGF directly interacts with fibronectin and enhances cell adhesion of chondrocytes through integrin $\alpha 5 \beta 1$ . FEBS Letters, 2006, 580, 1376-1382.	1.3	129
13	Hepatocyte growth factor counteracts transforming growth factor- $\beta$ 1, through attenuation of connective tissue growth factor induction, and prevents renal fibrogenesis in 5/6 nephrectomized mice. FASEB Journal, 2003, 17, 268-270.	0.2	128
14	CCN family proteins and angiogenesis: from embryo to adulthood. Angiogenesis, 2007, 10, 1-11.	3.7	125
15	Establishment of the Enzyme-Linked Immunosorbent Assay for Connective Tissue Growth Factor (CTGF) and Its Detection in the Sera of Biliary Atresia. Biochemical and Biophysical Research Communications, 1998, 251, 748-752.	1.0	115
16	Increased Expression of Connective Tissue Growth Factor in the Infarct Zone of Experimentally Induced Myocardial Infarction in Rats. Journal of Molecular and Cellular Cardiology, 1998, 30, 2411-2422.	0.9	111
17	Connective tissue growth factor causes persistent pro $\alpha 2(I)$ collagen gene expression induced by transforming growth factor- $\beta$ in a mouse fibrosis model. Journal of Cellular Physiology, 2005, 203, 447-456.	2.0	111
18	Exosomes mediate intercellular transfer of pro-fibrogenic connective tissue growth factor (CCN2) between hepatic stellate cells, the principal fibrotic cells in the liver. Surgery, 2014, 156, 548-555.	1.0	111

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19	Cooperative Regulation of Chondrocyte Differentiation by CCN2 and CCN3 Shown by a Comprehensive Analysis of the CCN Family Proteins in Cartilage. <i>Journal of Bone and Mineral Research</i> , 2008, 23, 1751-1764.	3.1	107
20	CTGF/Hcs24, a hypertrophic chondrocyte-specific gene product, stimulates proliferation and differentiation, but not hypertrophy of cultured articular chondrocytes. <i>Journal of Cellular Physiology</i> , 2002, 192, 55-63.	2.0	106
21	Demonstration of Receptors Specific for Connective Tissue Growth Factor on a Human Chondrocytic Cell Line (HCS-2/8). <i>Biochemical and Biophysical Research Communications</i> , 1998, 247, 905-909.	1.0	102
22	Role of CCN2/CTGF/Hcs24 in Bone Growth. <i>International Review of Cytology</i> , 2007, 257, 1-41.	6.2	96
23	Expression of connective tissue growth factor in cartilaginous tumors. <i>Cancer</i> , 2000, 89, 1466-1473.	2.0	94
24	Involvement of CTGF, a Hypertrophic Chondrocyte-Specific Gene Product, in Tumor Angiogenesis. <i>Oncology</i> , 2001, 61, 315-322.	0.9	91
25	CTGF/Hcs24, hypertrophic chondrocyte-specific gene product, interacts with perlecan in regulating the proliferation and differentiation of chondrocytes. <i>Journal of Cellular Physiology</i> , 2003, 196, 265-275.	2.0	89
26	CCN2: a master regulator of the genesis of bone and cartilage. <i>Journal of Cell Communication and Signaling</i> , 2013, 7, 191-201.	1.8	87
27	Connective tissue growth factor as a major angiogenic agent that is induced by hypoxia in a human breast cancer cell line. <i>Cancer Letters</i> , 2001, 174, 57-64.	3.2	85
28	CTGF/Hcs24 as a multifunctional growth factor for fibroblasts, chondrocytes and vascular endothelial cells. <i>Drug News and Perspectives</i> , 2003, 16, 11.	1.9	83
29	CCN Family 2/Connective Tissue Growth Factor Modulates BMP Signalling as a Signal Conductor, Which Action Regulates the Proliferation and Differentiation of Chondrocytes. <i>Journal of Biochemistry</i> , 2008, 145, 207-216.	0.9	82
30	Abundant Retention and Release of Connective Tissue Growth Factor (CTGF/CCN2) by Platelets. <i>Journal of Biochemistry</i> , 2004, 136, 279-282.	0.9	81
31	Insulin-Like Growth Factors I and II Are Autocrine Factors in Stimulating Proteoglycan Synthesis, a Marker of Differentiated Chondrocytes, Acting through Their Respective Receptors on a Clonal Human Chondrosarcoma-Derived Chondrocyte Cell Line, HCS-2/8. <i>Endocrinology</i> , 1997, 138, 4390-4400.	1.4	78
32	The role of CCN2 in cartilage and bone development. <i>Journal of Cell Communication and Signaling</i> , 2011, 5, 209-217.	1.8	71
33	Establishment from a human chondrosarcoma of a new immortal cell line with high tumorigenicity in vivo, which is able to form proteoglycan-rich cartilage-like nodules and to respond to insulin in vitro. <i>International Journal of Cancer</i> , 1991, 48, 717-725.	2.3	70
34	CCN family 2/connective tissue growth factor (CCN2/CTGF) promotes osteoclastogenesis via induction of and interaction with dendritic cell-specific transmembrane protein (DC-STAMP). <i>Journal of Bone and Mineral Research</i> , 2011, 26, 351-363.	3.1	70
35	Effects of CTGF/Hcs24, a Product of a Hypertrophic Chondrocyte-Specific Gene, on the Proliferation and Differentiation of Chondrocytes in Culture. , 0, .		67
36	Triple knockdown of CDC37, HSP90 $\alpha$ and HSP90 $\beta$ diminishes extracellular vesicles-driven malignancy events and macrophage M2 polarization in oral cancer. <i>Journal of Extracellular Vesicles</i> , 2020, 9, 1769373.	5.5	62

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37	CCN Proteins. , 2005, , .		61
38	N-terminal domains of CCN family 2/connective tissue growth factor bind to aggrecan. <i>Biochemical Journal</i> , 2009, 420, 413-420.	1.7	59
39	Overexpression of Connective Tissue Growth Factor/Hypertrophic Chondrocyte-Specific Gene Product 24 Decreases Bone Density in Adult Mice and Induces Dwarfism. <i>Biochemical and Biophysical Research Communications</i> , 2001, 281, 678-681.	1.0	58
40	The CCN family acting throughout the body: recent research developments. <i>Biomolecular Concepts</i> , 2013, 4, 477-494.	1.0	57
41	Depletion of Lipid Efflux Pump ABCG1 Triggers the Intracellular Accumulation of Extracellular Vesicles and Reduces Aggregation and Tumorigenesis of Metastatic Cancer Cells. <i>Frontiers in Oncology</i> , 2018, 8, 376.	1.3	56
42	Tumor Necrosis Factor $\hat{\pm}$ Induces Expression of Genes for Matrix Degradation in Human Chondrocyte-like HCS-2/8 Cells Through Activation of NF- $\hat{\pm}$ B: Abrogation of the Tumor Necrosis Factor $\hat{\pm}$ Effect by Proteasome Inhibitors. <i>Journal of Bone and Mineral Research</i> , 2001, 16, 1272-1280.	3.1	55
43	CCN2 enhances RANKL-induced osteoclast differentiation via direct binding to RANK and OPG. <i>Bone</i> , 2015, 73, 242-248.	1.4	55
44	Identification of an RNA element that confers post-transcriptional repression of connective tissue growth factor/hypertrophic chondrocyte specific 24 (ctgf/hcs24) gene: Similarities to retroviral RNA-protein interactions. <i>Oncogene</i> , 2000, 19, 4773-4786.	2.6	53
45	Roles of PKC, PI3K and JNK in multiple transduction of CCN2/CTGF signals in chondrocytes. <i>Bone</i> , 2006, 38, 853-863.	1.4	53
46	CCN2/CTGF binds to fibroblast growth factor receptor 2 and modulates its signaling. <i>FEBS Letters</i> , 2012, 586, 4270-4275.	1.3	52
47	Involvement of cis-acting repressive element(s) in the 3' untranslated region of human connective tissue growth factor gene. <i>FEBS Letters</i> , 1999, 450, 84-88.	1.3	45
48	Connective tissue growth factor expressed in rat alveolar bone regeneration sites after tooth extraction. <i>Archives of Oral Biology</i> , 2003, 48, 723-730.	0.8	44
49	Binding of glyceraldehyde-3-phosphate dehydrogenase to the cis-acting element of structure-anchored repression in ccn2 mRNA. <i>Biochemical and Biophysical Research Communications</i> , 2011, 405, 382-387.	1.0	44
50	Promotion of Bone Regeneration by CCN2 Incorporated into Gelatin Hydrogel. <i>Tissue Engineering - Part A</i> , 2008, 14, 1089-1098.	1.6	43
51	Gene expression of connective tissue growth factor (CTGF/CCN2) in calcifying tissues of normal and cbfa1-null mutant mice in late stage of embryonic development. <i>Journal of Bone and Mineral Metabolism</i> , 2005, 23, 280-288.	1.3	42
52	Immunohistochemical localization of connective tissue growth factor in the rat central nervous system. <i>Brain Research</i> , 1999, 834, 146-151.	1.1	39
53	Novel intracellular effects of human connective tissue growth factor expressed in Cos-7 cells. <i>FEBS Letters</i> , 2000, 474, 58-62.	1.3	39
54	Extracellular Vesicles Enriched with Moonlighting Metalloproteinase Are Highly Transmissive, Pro-Tumorigenic, and Trans-Activates Cellular Communication Network Factor (CCN2/CTGF): CRISPR against Cancer. <i>Cancers</i> , 2020, 12, 881.	1.7	39

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55	Possible role of LRP1, a CCN2 receptor, in chondrocytes. <i>Biochemical and Biophysical Research Communications</i> , 2006, 345, 552-559.	1.0	36
56	Characterization of a Mouse ctgf 3' UTR Segment That Mediates Repressive Regulation of Gene Expression. <i>Biochemical and Biophysical Research Communications</i> , 2000, 278, 119-124.	1.0	35
57	Roles of heterotypic CCN2/CTGF-CCN3/NOV and homotypic CCN2-CCN2 interactions in expression of the differentiated phenotype of chondrocytes. <i>FEBS Journal</i> , 2012, 279, 3584-3597.	2.2	35
58	Antiparkinson Drug Benztropine Suppresses Tumor Growth, Circulating Tumor Cells, and Metastasis by Acting on SLC6A3/DAT and Reducing STAT3. <i>Cancers</i> , 2020, 12, 523.	1.7	34
59	A novel cis-element that enhances connective tissue growth factor gene expression in chondrocytic cells. <i>Biochemical and Biophysical Research Communications</i> , 2002, 295, 445-451.	1.0	31
60	Mechanical stretch increases Smad3-dependent CCN2 expression in inner meniscus cells. <i>Journal of Orthopaedic Research</i> , 2012, 30, 1738-1745.	1.2	31
61	The regenerative effects of CCN2 independent modules on chondrocytes in vitro and osteoarthritis models in vivo. <i>Bone</i> , 2014, 59, 180-188.	1.4	30
62	An early history of CCN2/CTGF research: the road to CCN2 via hcs24, ctgf, ecogenin, and regenerin. <i>Journal of Cell Communication and Signaling</i> , 2018, 12, 253-264.	1.8	30
63	Transcriptional induction of connective tissue growth factor/hypertrophic chondrocyte-specific 24 gene by dexamethasone in human chondrocytic cells. <i>Bone</i> , 2003, 33, 694-702.	1.4	28
64	Expression of c-fos gene inhibits proteoglycan synthesis in transfected chondrocyte. <i>FEBS Letters</i> , 1996, 381, 222-226.	1.3	26
65	CCN family protein 2 (CCN2) promotes the early differentiation, but inhibits the terminal differentiation of skeletal myoblasts. <i>Journal of Biochemistry</i> , 2015, 157, 91-100.	0.9	25
66	Gene Expression and Distribution of Connective Tissue Growth Factor (CCN2/CTGF) During Secondary Ossification Center Formation. <i>Journal of Histochemistry and Cytochemistry</i> , 2007, 55, 1245-1255.	1.3	24
67	Novel effects of CCN3 that may direct the differentiation of chondrocytes. <i>FEBS Letters</i> , 2011, 585, 3033-3040.	1.3	24
68	The CCN Proteins: An Overview. <i>Methods in Molecular Biology</i> , 2017, 1489, 1-8.	0.4	24
69	Insulin-Like Growth Factors I and II Are Autocrine Factors in Stimulating Proteoglycan Synthesis, a Marker of Differentiated Chondrocytes, Acting through Their Respective Receptors on a Clonal Human Chondrosarcoma-Derived Chondrocyte Cell Line, HCS-2/8. , 0, .		24
70	Meckel's cartilage chondrocytes in organ culture synthesize bone-type proteins accompanying osteocytic phenotype expression. <i>Anatomy and Embryology</i> , 1996, 193, 61-71.	1.5	23
71	Promotion of Ccn2 expression and osteoblastic differentiation by actin polymerization, which is induced by laminar fluid flow stress. <i>Journal of Cell Communication and Signaling</i> , 2012, 6, 225-232.	1.8	22
72	Expression of connective tissue growth factor/hypertrophic chondrocyte-specific gene product 24 (CTGF/Hcs24/CCN2) during distraction osteogenesis. <i>Journal of Bone and Mineral Metabolism</i> , 2004, 22, 293-302.	1.3	20

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73	Novel role of CCN3 that maintains the differentiated phenotype of articular cartilage. <i>Journal of Bone and Mineral Metabolism</i> , 2017, 35, 582-597.	1.3	19
74	A Reporter System Evaluates Tumorigenesis, Metastasis, $\beta$ -catenin/MMP Regulation, and Druggability. <i>Tissue Engineering - Part A</i> , 2019, 25, 1413-1425.	1.6	19
75	Tyrosine kinase-type receptor ErbB4 in chondrocytes: interaction with connective tissue growth factor and distribution in cartilage. <i>FEBS Letters</i> , 2002, 528, 109-113.	1.3	18
76	Expression of osteopontin in Meckel's cartilage cells during phenotypic transdifferentiation in vitro, as detected by in situ hybridization and immunocytochemical analysis. <i>Histochemistry and Cell Biology</i> , 1998, 110, 457-466.	0.8	17
77	Rheumatoid arthritis-related antigen 47 kDa (RA-A47) is a product of colligin-2 and acts as a human HSP47. <i>Journal of Bone and Mineral Metabolism</i> , 2000, 18, 328-334.	1.3	17
78	Translational repression by the cis-acting element of structure-anchored repression (CAESAR) of human <i>ctgf/ccn2</i> mRNA. <i>FEBS Letters</i> , 2005, 579, 3751-3758.	1.3	17
79	Physical interaction of CCN2 with diverse growth factors involved in chondrocyte differentiation during endochondral ossification. <i>Journal of Cell Communication and Signaling</i> , 2015, 9, 247-254.	1.8	17
80	Promotion of Bone Regeneration by CCN2 Incorporated into Gelatin Hydrogel. <i>Tissue Engineering - Part A</i> , 2008, 14, 080422095744451.	1.6	17
81	Change in cellular localization of a rheumatoid arthritis-related antigen (RA-A47) with downregulation upon stimulation by inflammatory cytokines in chondrocytes. <i>Journal of Cellular Physiology</i> , 2001, 186, 168-281.	2.0	16
82	Possible reparative effect of low-intensity pulsed ultrasound (LIPUS) on injured meniscus. <i>Journal of Cell Communication and Signaling</i> , 2019, 13, 193-207.	1.8	16
83	Coordinated change between complement C1s production and chondrocyte differentiation in vitro. <i>Cell and Tissue Research</i> , 1997, 289, 299-305.	1.5	13
84	CCN2/CTGF binds the small leucine rich proteoglycan protein Tsukushi. <i>Journal of Cell Communication and Signaling</i> , 2019, 13, 113-118.	1.8	13
85	Cell Density-Dependent Proliferative Effects of Transforming Growth Factor (TGF)- $\beta$ 1, $\beta$ 2, and $\beta$ 3 in Human Chondrosarcoma Cells HCS-2/8 Are Associated with Changes in the Expression of TGF- $\beta$ Receptor Type I. <i>Cancer Investigation</i> , 2001, 19, 475-486.	0.6	11
86	A Tumor Suppressor Gene Product, Platelet-Derived Growth Factor Receptor-Like Protein Controls Chondrocyte Proliferation and Differentiation. <i>Journal of Cellular Biochemistry</i> , 2017, 118, 4033-4044.	1.2	11
87	The BMP-2 mutant L51P: a BMP receptor IA binding-deficient inhibitor of noggin. <i>Journal of Bone and Mineral Metabolism</i> , 2019, 37, 199-205.	1.3	10
88	Novel FNR homologues identified in four representative oral facultative anaerobes: <i>Capnocytophaga ochracea</i> , <i>Capnocytophaga sputigena</i> , <i>Haemophilus aphrophilus</i> , and <i>Actinobacillus actinomycetemcomitans</i> . <i>FEMS Microbiology Letters</i> , 1996, 137, 213-220.	0.7	9
89	Jiadifenolide induces the expression of cellular communication network factor (CCN) genes, and CCN2 exhibits neurotrophic activity in neuronal precursor cells derived from human induced pluripotent stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2019, 519, 309-315.	1.0	8
90	Suppression of adipocyte differentiation by low-intensity pulsed ultrasound via inhibition of insulin signaling and promotion of CCN family protein 2. <i>Journal of Cellular Biochemistry</i> , 2020, 121, 4724-4740.	1.2	8

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91	ROLES OF CCN2/CTGF IN THE CONTROL OF GROWTH AND REGENERATION. , 2005, , 19-59.		8
92	Roles of Interaction between CCN2 and Rab14 in Aggrecan Production by Chondrocytes. International Journal of Molecular Sciences, 2020, 21, 2769.	1.8	7
93	The Basic Effect of IGF on Chondrocytes. Clinical Pediatric Endocrinology, 1997, 6, 169-174.	0.4	7
94	Cartilaginous differentiation in the joint capsule. Journal of Bone and Mineral Metabolism, 1999, 17, 7-10.	1.3	4
95	Contact dermatitis from carboxyvinyl polymer. Contact Dermatitis, 1995, 33, 271-271.	0.8	3
96	Terminology of CCN1-6 should not be applicable for their fragments and be limited to only full length CCN1-6. Journal of Cell Communication and Signaling, 2015, 9, 81-83.	1.8	3
97	Effect of Angiotensin II on Chondrocyte Degeneration and Protection via Differential Usage of Angiotensin II Receptors. International Journal of Molecular Sciences, 2021, 22, 9204.	1.8	2
98	Mobile fat; three stages?. Australasian Journal of Dermatology, 1996, 37, 223-224.	0.4	1
99	Electrophoretic and serologic characterization of 56 kDa antigen (M56) with autologous serum derived from a chondrosarcoma patient: A shared antigen of immunoresponses in cancer and autoimmune diseases. Electrophoresis, 1999, 20, 3335-3342.	1.3	1
100	Western Blotting Analysis of CCN Proteins in Calcified Tissues. Methods in Molecular Biology, 2017, 1489, 43-51.	0.4	1
101	Hypoxic induction of <i>CCN2</i> mRNA through p38 MAP kinase activation in the human chondrosarcoma-derived cell line, HCS-2/8. Oral Science International, 2021, 18, 35-39.	0.3	0