Yasunori Okada

List of Publications by Year
in descending order

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347 papers	25,052 citations	5574 82 h-index	8866 145 g-index
350 all docs	350 docs citations	350 times ranked	24781 citing authors

#	Article	IF	Citations
1	A matrix metalloproteinase expressed on the surface of invasive tumour cells. Nature, 1994, 370, 61-65.	27.8	2,465
2	Membrane Type 1 Matrix Metalloproteinase Digests Interstitial Collagens and Other Extracellular Matrix Macromolecules. Journal of Biological Chemistry, 1997, 272, 2446-2451.	3.4	830
3	Pivotal role of cerebral interleukin-17â€“producing Î³Î´T cells in the delayed phase of ischemic brain injury. Nature Medicine, 2009, 15, 946-950.	30.7	754
4	Matrix metalloproteinases and tissue inhibitors of metalloproteinases in synovial fluids from patients with rheumatoid arthritis or osteoarthritis. Annals of the Rheumatic Diseases, 2000, 59, 455-461.	0.9	509
5	ADAMs in cancer cell proliferation and progression. Cancer Science, 2007, 98, 621-628.	3.9	472
6	Degradation of decorin by matrix metalloproteinases: identification of the cleavage sites, kinetic analyses and transforming growth factor-Î²1 release. Biochemical Journal, 1997, 322, 809-814.	3.7	421
7	Matrix metalloproteinase 2 from human rheumatoid synovial fibroblasts. FEBS Journal, 1990, 194, 721-730.	0.2	386
8	Collagenase expression in the lungs of transgenic mice causes pulmonary emphysema. Cell, 1992, 71, 955-961.	28.9	363
9	Connective tissue growth factor binds vascular endothelial growth factor (VEGF) and inhibits VEGFâ€induced angiogenesis. FASEB Journal, 2002, 16, 1-27.	0.5	324
10	Synovial procollagenase activation by human mast cell tryptase dependence upon matrix metalloproteinase 3 activation.. Journal of Clinical Investigation, 1989, 84, 1657-1662.	8.2	311
11	Matrix Metalloproteinases Cleave Connective Tissue Growth Factor and Reactivate Angiogenic Activity of Vascular Endothelial Growth Factor 165. Journal of Biological Chemistry, 2002, 277, 36288-36295.	3.4	310
12	Cutting Edge: TNF-Î±-Converting Enzyme (TACE/ADAM17) Inactivation in Mouse Myeloid Cells Prevents Lethality from Endotoxin Shock. Journal of Immunology, 2007, 179, 2686-2689.	0.8	287
13	Targeted deletion or pharmacological inhibition of MMP-2 prevents cardiac rupture after myocardial infarction in mice. Journal of Clinical Investigation, 2005, 115, 599-609.	8.2	284
14	Activation of the precursor of gelatinase A/72 kda type IV collagenase/MMPâ€2 in lung carcinomas correlates with the expression of membraneâ€type matrix metalloproteinase (MTâ€MMP) and with lymph node metastasis. International Journal of Cancer, 1995, 64, 355-359.	5.1	257
15	Regulatory Role of Dendritic Cells in Postinfarction Healing and Left Ventricular Remodeling. Circulation, 2012, 125, 1234-1245.	1.6	251
16	HMGA2 Is a Driver of Tumor Metastasis. Cancer Research, 2013, 73, 4289-4299.	0.9	248
17	Matrix Metalloproteinase 7 (Matrilysin) from Human Rectal Carcinoma Cells. Journal of Biological Chemistry, 1995, 270, 6691-6697.	3.4	247
18	Joint Diseases and Matrix Metalloproteinases: A Role for MMP-13. Current Pharmaceutical Biotechnology, 2008, 9, 47-54.	1.6	241

#	Article	IF	Citations
19	ADAMTS-1 cleaves a cartilage proteoglycan, aggrecan. FEBS Letters, 2000, 478, 241-245.	2.8	239
20	TIMP-2 Promotes Activation of Progelatinase A by Membrane-type 1 Matrix Metalloproteinase Immobilized on Agarose Beads. Journal of Biological Chemistry, 1998, 273, 16098-16103.	3.4	234
21	Matrix metalloproteinases, a disintegrin and metalloproteinases, and a disintegrin and metalloproteinases with thrombospondin motifs in non-neoplastic diseases. Pathology International, 2010, 60, 477-496.	1.3	227
22	KIAA1199, a deafness gene of unknown function, is a new hyaluronan binding protein involved in hyaluronan depolymerization. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5612-5617.	7.1	212
23	Hypoxia Disrupts the Barrier Function of Neural Blood Vessels through Changes in the Expression of Claudin-5 in Endothelial Cells. American Journal of Pathology, 2007, 170, 1389-1397.	3.8	203
24	Production of matrix metalloproteinases and tissue inhibitor of metalloproteinases-1 by human brain tumors. Journal of Neurosurgery, 1994, 81, 69-77.	1.6	202
25	Expression and Tissue Localization of Membrane-Type 1, 2, and 3 Matrix Metalloproteinases in Human Astrocytic Tumors. American Journal of Pathology, 1999, 154, 417-428.	3.8	200
26	Neutrophil-Derived Matrix Metalloproteinase 9 Triggers Acute Aortic Dissection. Circulation, 2012, 126, 3070-3080.	1.6	199
27	Vascular Endothelial Growth Factor Isoforms and Their Receptors Are Expressed in Human Osteoarthritic Cartilage. American Journal of Pathology, 2003, 162, 171-181.	3.8	195
28	MT1-MMP and MMP-7 in invasion and metastasis of human cancers. Cancer and Metastasis Reviews, 2003, 22, 145-152.	5.9	194
29	MMP-13 Plays a Role in Keratinocyte Migration, Angiogenesis, and Contraction in Mouse Skin Wound Healing. American Journal of Pathology, 2009, 175, 533-546.	3.8	189
30	Immunolocalization of matrix metalloproteinase 3 (stromelysin) in rheumatoid synovioblasts (B) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	0.9	185
31	Inactivation of tissue inhibitor of metalloproteinases by neutrophil elastase and other serine proteinases. FEBS Letters, 1988, 229, 157-160.	2.8	180
32	The role of matrix metalloproteinases in glioma invasion. Frontiers in Bioscience - Landmark, 2003, 8, e261-269.	3.0	176
33	Loss of the Timp gene family is sufficient for the acquisition of the CAF-like cell state. Nature Cell Biology, 2014, 16, 889-901.	10.3	174
34	Cell surface binding and activation of gelatinase A induced by expression of membrane-type-1-matrix metalloproteinase (MT1-MMP). FEBS Letters, 1996, 385, 238-240.	2.8	164
35	A one-step sandwich enzyme immunoassay for human matrix metalloproteinase 2 (72-kDa) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	1.1	162
36	ApoE knockout mice expressing human matrix metalloproteinase-1 in macrophages have less advanced atherosclerosis. Journal of Clinical Investigation, 2001, 107, 1227-1234.	8.2	161

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37	Glioma cell extracellular matrix metalloproteinase inducer (EMMPRIN) (CD147) stimulates production of membrane-type matrix metalloproteinases and activated gelatinase A in co-cultures with brain-derived fibroblasts. Cancer Letters, 2000, 157, 177-184.	7.2	160
38	Inhibition of ADAMTS4 (aggrecanase-1) by tissue inhibitors of metalloproteinases (TIMP-1, 2, 3 and 4). FEBS Letters, 2001, 494, 192-195.	2.8	160
39	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
40	Activation of matrix metalloproteinase 3 (stromelysin) and matrix metalloproteinase 2 (â€˜gelatinaseâ€™) by human neutrophil elastase and cathepsin G. FEBS Letters, 1989, 249, 353-356.	2.8	157
41	Brevican Is Degraded by Matrix Metalloproteinases and Aggrecanase-1 (ADAMTS4) at Different Sites. Journal of Biological Chemistry, 2000, 275, 38885-38890.	3.4	157
42	Adventitial CXCL1/G-CSF Expression in Response to Acute Aortic Dissection Triggers Local Neutrophil Recruitment and Activation Leading to Aortic Rupture. Circulation Research, 2015, 116, 612-623.	4.5	150
43	Enhanced production of matrix metalloproteinases and activation of matrix metalloproteinase 2 (gelatinase A) in human gastric carcinomas. , 1996, 69, 9-16.		146
44	ADAM12 Is Selectively Overexpressed in Human Glioblastomas and Is Associated with Glioblastoma Cell Proliferation and Shedding of Heparin-Binding Epidermal Growth Factor. American Journal of Pathology, 2004, 165, 1743-1753.	3.8	139
45	Expression of emmprin (CD147), a cell surface inducer of matrix metalloproteinases, in normal human brain and gliomas. International Journal of Cancer, 2000, 88, 21-27.	5.1	137
46	Hyaluronan inhibits expression of ADAMTS4 (aggrecanase-1) in human osteoarthritic chondrocytes. Annals of the Rheumatic Diseases, 2009, 68, 1051-1058.	0.9	135
47	Chondromodulin-I maintains cardiac valvular function by preventing angiogenesis. Nature Medicine, 2006, 12, 1151-1159.	30.7	134
48	Cleavage of metastasis suppressor gene product KiSS-1 protein/metastin by matrix metalloproteinases. Oncogene, 2003, 22, 4617-4626.	5.9	133
49	Superoxide Dismutase Expression Attenuates Cigarette Smokeâ€“ or Elastase-generated Emphysema in Mice. American Journal of Respiratory and Critical Care Medicine, 2006, 173, 623-631.	5.6	133
50	Constitutive and Induced CD44 Shedding by ADAM-Like Proteases and Membrane-Type 1 Matrix Metalloproteinase. Cancer Research, 2004, 64, 876-882.	0.9	131
51	Heart failure causes cholinergic transdifferentiation of cardiac sympathetic nerves via gp130-signaling cytokines in rodents. Journal of Clinical Investigation, 2010, 120, 408-421.	8.2	128
52	Hypoxia-Inducible Factor Regulates Survival of Antigen Receptor-Driven T Cells. Journal of Immunology, 2003, 171, 6534-6540.	0.8	127
53	Induction and stimulation of 92-kDa gelatinase / type IV collagenase production in osteosarcoma and fibrosarcoma cell lines by tumor necrosis factor Î±. Biochemical and Biophysical Research Communications, 1990, 171, 610-617.	2.1	126
54	Production and Activation of Matrix Metalloproteinase-2 in Proliferative Diabetic Retinopathy. , 2003, 44, 2163.		124

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55	Production of Matrix Metalloproteinases and Tissue Inhibitors of Metalloproteinases in Human Breast Carcinomas. Japanese Journal of Cancer Research, 1996, 87, 602-611.	1.7	123
56	Expression of vascular endothelial growth factor isoforms and their receptors Flt-1, KDR, and neuropilin-1 in synovial tissues of rheumatoid arthritis. Journal of Pathology, 2000, 191, 426-433.	4.5	116
57	ADAM28 Is Overexpressed in Human Breast Carcinomas: Implications for Carcinoma Cell Proliferation through Cleavage of Insulin-like Growth Factor Binding Protein-3. Cancer Research, 2006, 66, 9913-9920.	0.9	115
58	ADAM28 is activated by MMP-7 (matrilysin-1) and cleaves insulin-like growth factor binding protein-3. Biochemical and Biophysical Research Communications, 2004, 315, 79-84.	2.1	111
59	A one-step sandwich enzyme immunoassay for human matrix metalloproteinase 3 (stromelysin-1) using monoclonal antibodies. Clinica Chimica Acta, 1992, 211, 59-72.	1.1	106
60	A one-step sandwich enzyme immunoassay for tissue inhibitor of metalloproteinases-2 using monoclonal antibodies. Clinica Chimica Acta, 1993, 220, 31-45.	1.1	106
61	A one-step sandwich enzyme immunoassay for human matrix metalloproteinase 1 (interstitial) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.1	105
62	Expression of immunoreactive matrix metalloproteinases and tissue inhibitors of matrix metalloproteinases in human normal livers and primary liver tumors. Hepatology, 1996, 23, 1341-1344.	7.3	105
63	Detection of von Willebrand factor-cleaving protease (ADAMTS-13) in human platelets. Biochemical and Biophysical Research Communications, 2004, 313, 212-216.	2.1	105
64	Expression of ADAMTS4 (aggrecanaseâ€1) in human osteoarthritic cartilage. Pathology International, 2007, 57, 703-711.	1.3	104
65	Membrane-Type Matrix Metalloproteinases (MT-MMPs) in Cell Invasion. Thrombosis and Haemostasis, 1997, 78, 497-500.	3.4	103
66	Impaired bone fracture healing in matrix metalloproteinase-13 deficient mice. Biochemical and Biophysical Research Communications, 2007, 354, 846-851.	2.1	102
67	Effects of hyaluronic acid on the release of proteoglycan from the cell matrix in rabbit chondrocyte cultures in the presence and absence of cytokines. Arthritis and Rheumatism, 1993, 36, 247-253.	6.7	101
68	Expression of Snail and Slug in renal cell carcinoma: E-cadherin repressor Snail is associated with cancer invasion and prognosis. Laboratory Investigation, 2011, 91, 1443-1458.	3.7	101
69	Inhibition of Membrane-Type 1 Matrix Metalloproteinase by Hydroxamate Inhibitors:â€‰ An Examination of the Subsite Pocket. Journal of Medicinal Chemistry, 1998, 41, 1209-1217.	6.4	100
70	Expression Profiles and Clinical Correlations of Degradome Components in the Tumor Microenvironment of Head and Neck Squamous Cell Carcinoma. Clinical Cancer Research, 2010, 16, 2022-2035.	7.0	100
71	Activation of the precursor of human stromelysin 2 and its interactions with other matrix metalloproteinases. FEBS Journal, 1998, 253, 67-75.	0.2	99
72	Human glioblastomas overexpress ADAMTS-5 that degrades brevican. Acta Neuropathologica, 2005, 110, 239-246.	7.7	99

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73	Expression of <scp>TNF</scp>â€Î± and <scp>CD</scp>44 is implicated in poor prognosis, cancer cell invasion, metastasis and resistance to the sunitinib treatment in clear cell renal cell carcinomas. International Journal of Cancer, 2015, 136, 1504-1514.	5.1	99
74	Expression and tissue localization of matrix metalloproteinase 7 (matrilysin) in human gastric carcinomas. Implications for vessel invasion and metastasis. International Journal of Cancer, 1998, 79, 187-194.	5.1	98
75	Transgenic expression of matrix metalloproteinase-9 causes adult-onset emphysema in mice associated with the loss of alveolar elastin. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2008, 294, L1149-L1157.	2.9	98
76	A one-step sandwich enzyme immunoassay for inactive precursor and complexed forms of human matrix metalloproteinase 9 (92 kDa gelatinase/type IV collagenase, gelatinase B) using monoclonal antibodies. Clinica Chimica Acta, 1994, 231, 79-88.	1.1	95
77	Degradation of type IX collagen by matrix metalloproteinase 3 (stromelysin) from human rheumatoid synovial cells. FEBS Letters, 1989, 244, 473-476.	2.8	93
78	Increased RANKL expression is related to tumour migration and metastasis of renal cell carcinomas. Journal of Pathology, 2009, 218, 530-539.	4.5	92
79	Resveratrol prevents the development of abdominal aortic aneurysm through attenuation of inflammation, oxidative stress, and neovascularization. Atherosclerosis, 2011, 217, 350-357.	0.8	89
80	Role of vascular endothelial growth factor-A in development of abdominal aortic aneurysm. Cardiovascular Research, 2011, 91, 358-367.	3.8	89
81	Activation of the aryl hydrocarbon receptor pathway enhances cancer cell invasion by upregulating the MMP expression and is associated with poor prognosis in upper urinary tract urothelial cancer. Carcinogenesis, 2010, 31, 287-295.	2.8	88
82	Effect of ADAM28 on Carcinoma Cell Metastasis by Cleavage of von Willebrand Factor. Journal of the National Cancer Institute, 2012, 104, 906-922.	6.3	87
83	Characterization of a truncated recombinant form of human membrane type 3 matrix metalloproteinase. FEBS Journal, 1999, 262, 907-914.	0.2	86
84	ADAM28 is overexpressed in human non-small cell lung carcinomas and correlates with cell proliferation and lymph node metastasis. International Journal of Cancer, 2006, 118, 263-273.	5.1	84
85	Roles of membrane type 1 matrix metalloproteinase and tissue inhibitor of metalloproteinases 2 in invasion and dissemination of human malignant glioma. Journal of Neurosurgery, 2001, 94, 464-473.	1.6	82
86	Lysophosphatidic acid activates Arf6 to promote the mesenchymal malignancy of renal cancer. Nature Communications, 2016, 7, 10656.	12.8	81
87	Progressive adult-onset emphysema in transgenic mice expressing human MMP-1 in the lung. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2003, 284, L727-L737.	2.9	80
88	Misexpression of Full-length HMGA2 Induces Benign Mesenchymal Tumors in Mice. Cancer Research, 2006, 66, 7453-7459.	0.9	80
89	Stroma-Derived Matrix Metalloproteinase (MMP)-2 Promotes Membrane Type 1-MMPâ€“Dependent Tumor Growth in Mice. Cancer Research, 2007, 67, 4311-4319.	0.9	79
90	Expression of Telomerase Activity in Human Endometrium Is Localized to Epithelial Glandular Cells and Regulated in a Menstrual Phase-Dependent Manner Correlated with Cell Proliferation. American Journal of Pathology, 1998, 153, 1985-1991.	3.8	77

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91	Pivotal Role of Matrix Metalloproteinase 13 in Extracellular Matrix Turnover in Idiopathic Pulmonary Fibrosis. PLoS ONE, 2013, 8, e73279.	2.5	77
92	Marked increase of matrix metalloproteinase 9 in cerebrospinal fluid of patients with fungal or tuberculous meningoencephalitis. Journal of the Neurological Sciences, 2000, 173, 45-52.	0.6	75
93	Expression and Tissue Localization of Membrane-Types 1, 2, and 3 Matrix Metalloproteinases in Rheumatoid Synovium. Laboratory Investigation, 2000, 80, 677-687.	3.7	74
94	Immunohistochemical demonstration of collagenase and tissue inhibitor of metalloproteinases (TIMP) in synovial lining cells of rheumatoid synovium. Vigiliae Christianae, 1990, 59, 305-312.	0.1	73
95	ADAMâ€12 (meltrin Î±) is involved in chondrocyte proliferation via cleavage of insulinâ€like growth factor binding protein 5 in osteoarthritic cartilage. Arthritis and Rheumatism, 2008, 58, 778-789.	6.7	72
96	Enhancement of sparc (osteonectin) synthesis in arthritic cartilage: Increased levels in synovial fluids from patients with rheumatoid arthritis and regulation by growth factors and cytokines in chondrocyte cultures. Arthritis and Rheumatism, 1996, 39, 539-551.	6.7	71
97	STRUCTURAL EMPHYSEMA DOES NOT CORRELATE WITH LUNG COMPLIANCE: LESSONS FROM THE MOUSE SMOKING MODEL. Experimental Lung Research, 2005, 31, 547-562.	1.2	71
98	Regulation of Hyaluronan (HA) Metabolism Mediated by HYBID (Hyaluronan-binding Protein Involved in) Tj ETQq0 0 0 rgBT /Overlock 10 Biological Chemistry, 2015, 290, 30910-30923.	3.4	71
99	Susceptibility of tenascin to degradation by matrix metalloproteinases and serine proteinases. FEBS Letters, 1994, 352, 216-218.	2.8	69
100	Pericellular activation of proMMP-7 (promatrilysin-1) through interaction with CD151. Laboratory Investigation, 2005, 85, 1489-1506.	3.7	69
101	Membrane-type 1 Matrix Metalloproteinase Cytoplasmic Tail-binding Protein-1 Is a New Member of the Cupin Superfamily. Journal of Biological Chemistry, 2004, 279, 12734-12743.	3.4	68
102	Mechanisms of Heat-induced Antigen Retrieval: Analyses In Vitro Employing SDS-PAGE and Immunohistochemistry. Journal of Histochemistry and Cytochemistry, 2005, 53, 13-21.	2.5	68
103	Relaxed Specificity of Matrix Metalloproteinases (MMPS) and TIMP Insensitivity of Tumor Necrosis Factor-Î± (TNF-Î±) Production Suggest the Major TNF-Î± Converting Enzyme Is Not an MMP. Biochemical and Biophysical Research Communications, 1996, 225, 400-405.	2.1	67
104	NUCLEAR EXPRESSION OF ARYL HYDROCARBON RECEPTOR PREDICTS DISEASE SPECIFIC SURVIVAL OF UROTHELIAL CARCINOMA OF THE UPPER URINARY TRACT. Journal of Urology, 2008, 179, 71-71.	0.4	66
105	IL-27 Abrogates Receptor Activator of NF-ÎºB Ligand-Mediated Osteoclastogenesis of Human Granulocyte-Macrophage Colony-Forming Unit Cells through STAT1-Dependent Inhibition of c-Fos. Journal of Immunology, 2009, 183, 2397-2406.	0.8	66
106	Production and Activation of Matrix Metalloproteinase 7 (Matrilysin 1) in the Lungs of Patients With Idiopathic Pulmonary Fibrosis. Archives of Pathology and Laboratory Medicine, 2010, 134, 1136-1142.	2.5	66
107	A one-step sandwich enzyme immunoassay for human matrix metalloproteinase 7 (matrilysin) using monoclonal antibodies. Clinica Chimica Acta, 1996, 244, 181-198.	1.1	65
108	Expression of Matrix Metalloproteinases and Tissue Inhibitors of Metalloproteinases in HTLV-I-associated Myelopathy. Journal of Neuropathology and Experimental Neurology, 1998, 57, 839-849.	1.7	64

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109	Enhanced production and activation of progelatinase A mediated by membrane-type 1 matrix metalloproteinase in human oral squamous cell carcinomas: implications for lymph node metastasis. Clinical and Experimental Metastasis, 2000, 18, 179-188.	3.3	62
110	The Citrus Flavonoid, Nobiletin, Inhibits Peritoneal Dissemination of Human Gastric Carcinoma in SCID Mice. Japanese Journal of Cancer Research, 2001, 92, 1322-1328.	1.7	62
111	Matrix metalloproteinases and tissue inhibitor of metalloproteinase-2 in fetal rabbit lung. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2000, 279, L555-L561.	2.9	60
112	ADAMTS4 (Aggrecanase-1) Interaction with the C-terminal Domain of Fibronectin Inhibits Proteolysis of Aggrecan. Journal of Biological Chemistry, 2004, 279, 32483-32491.	3.4	60
113	Effects of Parathyroid Hormone (PTH) and PTH-Related Peptide on Expressions of Matrix Metalloproteinase- 2, -3, and -9 in Growth Plate Chondrocyte Cultures*. Endocrinology, 1998, 139, 2120-2127.	2.8	59
114	Enhanced production and activation of matrix metalloproteinase-7 (matrilysin) in human endometrial carcinomas. , 1999, 84, 470-477.		59
115	Differential expression of WNTs and FRPs in the synovium of rheumatoid arthritis and osteoarthritis. Biochemical and Biophysical Research Communications, 2006, 345, 1615-1620.	2.1	59
116	ULTRASTRUCTURE OF THE MOUSE SYNOVIAL MEMBRANE. Arthritis and Rheumatism, 1981, 24, 835-843.	6.7	58
117	Silencing of SOCS1 in macrophages suppresses tumor development by enhancing antitumor inflammation. Cancer Science, 2009, 100, 730-736.	3.9	58
118	Ets-1 Positively Regulates Expression of Urokinase-type Plasminogen Activator (uPA) and Invasiveness of Astrocytic Tumors. Journal of Neuropathology and Experimental Neurology, 1999, 58, 329-334.	1.7	57
119	Conditional Inactivation of TACE by a Sox9 Promoter Leads to Osteoporosis and Increased Granulopoiesis via Dysregulation of IL-17 and G-CSF. Journal of Immunology, 2009, 182, 2093-2101.	0.8	57
120	Association of medial meniscal extrusion with medial tibial osteophyte distance detected by T2 mapping MRI in patients with early-stage knee osteoarthritis. Arthritis Research and Therapy, 2017, 19, 201.	3.5	57
121	Secretion of matrix metalloproteinase-2 (72 kD gelatinase/type IV collagenase = gelatinase A) by malignant human glioma cell lines: implications for the growth and cellular invasion of the extracellular matrix. Journal of Neuro-Oncology, 1996, 28, 13-24.	2.9	56
122	Zymographic analysis of circulating and tissue forms of colon carcinoma gelatinase A (MMP-2) and B (MMP-9) separated by mono- and two-dimensional electrophoresis. Matrix Biology, 2001, 20, 419-427.	3.6	56
123	Expression of Snail in Upper Urinary Tract Urothelial Carcinoma: Prognostic Significance and Implications for Tumor Invasion. Clinical Cancer Research, 2010, 16, 5814-5823.	7.0	56
124	The prognostic significance of vasohibin-1 expression in patients with prostate cancer. British Journal of Cancer, 2013, 108, 2123-2129.	6.4	56
125	High efficacy of third generation EGFR inhibitor AZD9291 in a leptomeningeal carcinomatosis model with EGFR-mutant lung cancer cells. Oncotarget, 2016, 7, 3847-3856.	1.8	56
126	Tumor necrosis factor-Î± converting enzyme is a key mediator of abdominal aortic aneurysm development. Atherosclerosis, 2011, 218, 470-478.	0.8	54

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127	Establishment of a Real-Time, Quantitative, and Reproducible Mouse Model of Staphylococcus Osteomyelitis Using Bioluminescence Imaging. Infection and Immunity, 2012, 80, 733-741.	2.2	54
128	Mechanisms of Heat-induced Antigen Retrieval: Does pH or Ionic Strength of the Solution Play a Role for Refolding Antigens?. Journal of Histochemistry and Cytochemistry, 2005, 53, 1311-1321.	2.5	53
129	Inhibition of STAT1 accelerates bone fracture healing. Journal of Orthopaedic Research, 2010, 28, 937-941.	2.3	53
130	Degradation of vitronectin by matrix metalloproteinases-1, -2, -3, -7 and -9. FEBS Letters, 1995, 369, 249-251.	2.8	52
131	Membrane-type 1 MMP (MMP-14) cleaves at three sites in the aggrecan interglobular domain. FEBS Letters, 1998, 430, 186-190.	2.8	52
132	MET Copy Number Gain Is Associated with Gefitinib Resistance in Leptomeningeal Carcinomatosis of EGFR-mutant Lung Cancer. Molecular Cancer Therapeutics, 2017, 16, 506-515.	4.1	52
133	The Expression of Invasive Behavior of Differentiated Squamous Carcinoma Cell Line Evaluated by anin vitroInvasion Model. Japanese Journal of Cancer Research, 1993, 84, 409-418.	1.7	50
134	Computed Tomographic Attenuation Value of Coronary Atherosclerotic Plaques With Different Tube Voltage. Journal of Computer Assisted Tomography, 2010, 34, 58-63.	0.9	50
135	Invasion and metastasis of renal cell carcinoma. Medical Molecular Morphology, 2014, 47, 63-67.	1.0	50
136	Thyroid Hormone Enhances Aggrecanase-2/ADAM-TS5 Expression and Proteoglycan Degradation in Growth Plate Cartilage. Endocrinology, 2003, 144, 2480-2488.	2.8	48
137	EMPHYSEMATOUS CHANGES ARE CAUSED BY DEGRADATION OF TYPE III COLLAGEN IN TRANSGENIC MICE EXPRESSING MMP-1. Experimental Lung Research, 2003, 29, 1-15.	1.2	48
138	Chest High-Resolution CT Findings of Microscopic Polyangiitis: A Japanese First Nationwide Prospective Cohort Study. American Journal of Roentgenology, 2019, 213, 104-114.	2.2	48
139	Production of tissue inhibitor of metalloproteinases 3 is selectively enhanced by calcium pentosan polysulfate in human rheumatoid synovial fibroblasts. Arthritis and Rheumatism, 2000, 43, 812.	6.7	47
140	An antibacterial coated polymer prevents biofilm formation and implant-associated infection. Scientific Reports, 2021, 11, 3602.	3.3	47
141	A one-step sandwich enzyme immunoassay for human matrix metalloproteinase 8 (neutrophil) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.1	46
142	EXPRESSION AND TISSUE LOCALIZATION OF MEMBRANE-TYPES 1, 2, AND 3 MATRIX METALLOPROTEINASES IN HUMAN UROTHELIAL CARCINOMAS. Journal of Urology, 1998, 160, 1540-1545.	0.4	45
143	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
144	Enhanced susceptibility to lipopolysaccharide-induced arthritis and endotoxin shock in interleukin-32 alpha transgenic mice through induction of tumor necrosis factor alpha. Arthritis Research and Therapy, 2012, 14, R120.	3.5	45

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145	Degeneration of mesencephalic dopaminergic neurons in klotho mouse related to vitamin D exposure. Brain Research, 2011, 1382, 109-117.	2.2	44
146	Expression and Function of a Disintegrin and Metalloproteinases in Cancer-Associated Fibroblasts of Colorectal Cancer. Digestion, 2020, 101, 18-24.	2.3	44
147	Application of Heat-induced Antigen Retrieval to Aldehyde-fixed Fresh Frozen Sections. Journal of Histochemistry and Cytochemistry, 2005, 53, 1421-1432.	2.5	43
148	Expression of matrix metalloproteinases and aggrecanase in the synovial fluids of patients with symptomatic temporomandibular disorders. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2006, 102, 22-27.	1.4	43
149	The Prognostic Significance of Vasohibin-1 Expression in Patients with Upper Urinary Tract Urothelial Carcinoma. Clinical Cancer Research, 2012, 18, 4145-4153.	7.0	42
150	Dual functions of cell-autonomous and nonâ€“cell-autonomous ADAM10 activity in granulopoiesis. Blood, 2011, 118, 6939-6942.	1.4	41
151	Murine homologue of the human KIAA1199 is implicated in hyaluronan binding and depolymerization. FEBS Open Bio, 2013, 3, 352-356.	2.3	41
152	The waved with open eyelids (woe) Locus Is a Hypomorphic Mouse Mutation in Adam17. Genetics, 2010, 185, 245-255.	2.9	40
153	Recent advances in renal cell carcinoma from a pathological point of view. Pathology International, 2016, 66, 481-490.	1.3	40
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