

Motoharu Seiki

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198
ext. papers

16,859
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
196	A matrix metalloproteinase expressed on the surface of invasive tumour cells. <i>Nature</i> , 1994 , 370, 61-5	50.4	2242
195	Membrane type 1 matrix metalloproteinase digests interstitial collagens and other extracellular matrix macromolecules. <i>Journal of Biological Chemistry</i> , 1997 , 272, 2446-51	5.4	726
194	Membrane-type 1 matrix metalloproteinase cleaves CD44 and promotes cell migration. <i>Journal of Cell Biology</i> , 2001 , 153, 893-904	7.3	607
193	The membrane-anchored MMP inhibitor RECK is a key regulator of extracellular matrix integrity and angiogenesis. <i>Cell</i> , 2001 , 107, 789-800	56.2	568
192	Evidence for aberrant activation of the interleukin-2 autocrine loop by HTLV-1-encoded p40x and T3/Ti complex triggering. <i>Cell</i> , 1987 , 48, 343-50	56.2	422
191	MT1-MMP: a potent modifier of pericellular microenvironment. <i>Journal of Cellular Physiology</i> , 2006 , 206, 1-8	7	393
190	Identification of the second membrane-type matrix metalloproteinase (MT-MMP-2) gene from a human placenta cDNA library. MT-MMPs form a unique membrane-type subclass in the MMP family. <i>Journal of Biological Chemistry</i> , 1995 , 270, 23013-20	5.4	366
189	Membrane-type 1 matrix metalloproteinase: a key enzyme for tumor invasion. <i>Cancer Letters</i> , 2003 , 194, 1-11	9.9	350
188	Stimulation of 92-kDa gelatinase B promoter activity by ras is mitogen-activated protein kinase kinase 1-independent and requires multiple transcription factor binding sites including closely spaced PEA3/ets and AP-1 sequences. <i>Journal of Biological Chemistry</i> , 1996 , 271, 10672-80	5.4	291
187	Activation of a recombinant membrane type 1-matrix metalloproteinase (MT1-MMP) by furin and its interaction with tissue inhibitor of metalloproteinases (TIMP)-2. <i>FEBS Letters</i> , 1996 , 393, 101-4	3.8	269
186	CD44 directs membrane-type 1 matrix metalloproteinase to lamellipodia by associating with its hemopexin-like domain. <i>EMBO Journal</i> , 2002 , 21, 3949-59	13	256
185	Membrane-type matrix metalloproteinases. <i>Apmis</i> , 1999 , 107, 137-43	3.4	251
184	Activation of the precursor of gelatinase A/72 kDa type IV collagenase/MMP-2 in lung carcinomas correlates with the expression of membrane-type matrix metalloproteinase (MT-MMP) and with lymph node metastasis. <i>International Journal of Cancer</i> , 1995 , 64, 355-9	7.5	240
183	Significant correlation of monocyte chemoattractant protein-1 expression with neovascularization and progression of breast carcinoma. <i>Cancer</i> , 2001 , 92, 1085-91	6.4	239
182	Identification of membrane-type matrix metalloproteinase-1 as a target of the beta-catenin/Tcf4 complex in human colorectal cancers. <i>Oncogene</i> , 2002 , 21, 5861-7	9.2	220
181	TIMP-2 promotes activation of progelatinase A by membrane-type 1 matrix metalloproteinase immobilized on agarose beads. <i>Journal of Biological Chemistry</i> , 1998 , 273, 16098-103	5.4	210
180	The C-terminal region of membrane type matrix metalloproteinase is a functional transmembrane domain required for pro-gelatinase A activation. <i>Journal of Biological Chemistry</i> , 1995 , 270, 801-5	5.4	210

179	Cytoplasmic tail-dependent internalization of membrane-type 1 matrix metalloproteinase is important for its invasion-promoting activity. <i>Journal of Cell Biology</i> , 2001 , 155, 1345-56	7.3	204
178	The cell surface: the stage for matrix metalloproteinase regulation of migration. <i>Current Opinion in Cell Biology</i> , 2002 , 14, 624-32	9	199
177	Intermolecular autolytic cleavage can contribute to the activation of progelatinase A by cell membranes. <i>Journal of Biological Chemistry</i> , 1995 , 270, 30479-85	5.4	189
176	Expression and tissue localization of membrane-type 1, 2, and 3 matrix metalloproteinases in human astrocytic tumors. <i>American Journal of Pathology</i> , 1999 , 154, 417-28	5.8	187
175	Negative regulation of osteoclastogenesis by ectodomain shedding of receptor activator of NF-kappaB ligand. <i>Journal of Biological Chemistry</i> , 2006 , 281, 36846-55	5.4	183
174	Claudin promotes activation of pro-matrix metalloproteinase-2 mediated by membrane-type matrix metalloproteinases. <i>Journal of Biological Chemistry</i> , 2001 , 276, 28204-11	5.4	170
173	Cortactin promotes exosome secretion by controlling branched actin dynamics. <i>Journal of Cell Biology</i> , 2016 , 214, 197-213	7.3	159
172	The Ets-1 and Ets-2 transcription factors activate the promoters for invasion-associated urokinase and collagenase genes in response to epidermal growth factor. <i>International Journal of Cancer</i> , 1998 , 77, 128-37	7.5	156
171	Increased expression of matrix metalloproteinase-II in experimental liver fibrosis in rats. <i>Hepatology</i> , 1995 , 21, 787-795	11.2	151
170	Cell surface binding and activation of gelatinase A induced by expression of membrane-type-1-matrix metalloproteinase (MT1-MMP). <i>FEBS Letters</i> , 1996 , 385, 238-40	3.8	146
169	Crosstalk between neovessels and mural cells directs the site-specific expression of MT1-MMP to endothelial tip cells. <i>Journal of Cell Science</i> , 2007 , 120, 1607-14	5.3	143
168	Membrane type 4 matrix metalloproteinase (MT4-MMP, MMP-17) is a glycosylphosphatidylinositol-anchored proteinase. <i>Journal of Biological Chemistry</i> , 1999 , 274, 34260-6	5.4	130
167	Roles of pericellular proteolysis by membrane type-1 matrix metalloproteinase in cancer invasion and angiogenesis. <i>Cancer Science</i> , 2003 , 94, 569-74	6.9	125
166	Enhanced production of matrix metalloproteinases and activation of matrix metalloproteinase 2 (gelatinase A) in human gastric carcinomas. <i>International Journal of Cancer</i> , 1996 , 69, 9-16	7.5	124
165	Cleavage of metastasis suppressor gene product KiSS-1 protein/metastin by matrix metalloproteinases. <i>Oncogene</i> , 2003 , 22, 4617-26	9.2	117
164	Mutations in two matrix metalloproteinase genes, MMP-2 and MT1-MMP, are synthetic lethal in mice. <i>Oncogene</i> , 2004 , 23, 5041-8	9.2	116
163	Constitutive and induced CD44 shedding by ADAM-like proteases and membrane-type 1 matrix metalloproteinase. <i>Cancer Research</i> , 2004 , 64, 876-82	10.1	115
162	Sequence-specific silencing of MT1-MMP expression suppresses tumor cell migration and invasion: importance of MT1-MMP as a therapeutic target for invasive tumors. <i>Oncogene</i> , 2003 , 22, 8716-22	9.2	114

161	Activation of T cell-derived lymphokine genes in T cells and fibroblasts: effects of human T cell leukemia virus type I p40x protein and bovine papilloma virus encoded E2 protein. <i>Nucleic Acids Research</i> , 1988 , 16, 6547-66	20.1	109
160	Proteolytic activation of the precursor of membrane type 1 matrix metalloproteinase by human plasmin. A possible cell surface activator. <i>FEBS Letters</i> , 1997 , 402, 181-4	3.8	103
159	Membrane-type matrix metalloproteinase-1 (MT1-MMP) is a processing enzyme for human laminin gamma 2 chain. <i>Journal of Biological Chemistry</i> , 2005 , 280, 88-93	5.4	101
158	Membrane type 1 matrix metalloproteinase (MT1-MMP/MMP-14) cleaves and releases a 22-kDa extracellular matrix metalloproteinase inducer (EMMPRIN) fragment from tumor cells. <i>Journal of Biological Chemistry</i> , 2006 , 281, 37576-85	5.4	99
157	Membrane-type 6 matrix metalloproteinase (MT6-MMP, MMP-25) is the second glycosyl-phosphatidyl inositol (GPI)-anchored MMP. <i>FEBS Letters</i> , 2000 , 480, 142-6	3.8	99
156	Multifunctional roles of MT1-MMP in myofiber formation and morphostatic maintenance of skeletal muscle. <i>Journal of Cell Science</i> , 2006 , 119, 3822-32	5.3	97
155	MT1-MMP correlates with MMP-2 activation potential seen after epithelial to mesenchymal transition in human breast carcinoma cells. <i>Clinical and Experimental Metastasis</i> , 1997 , 15, 111-20	4.7	94
154	Increased expression of membrane type 1-matrix metalloproteinase in head and neck carcinoma. <i>Cancer</i> , 1997 , 79, 139-44	6.4	91
153	Membrane-Type Matrix Metalloproteinases (MT-MMPs) in Cell Invasion. <i>Thrombosis and Haemostasis</i> , 1997 , 78, 497-500	7	91
152	Interferons inhibit tumor necrosis factor-alpha-mediated matrix metalloproteinase-9 activation via interferon regulatory factor-1 binding competition with NF-kappa B. <i>Journal of Biological Chemistry</i> , 2002 , 277, 35766-75	5.4	89
151	Transcriptional activation of the matrix metalloproteinase-9 gene in an H-ras and v-myc transformed rat embryo cell line. <i>Oncogene</i> , 1997 , 14, 1995-8	9.2	88
150	Membrane type 1 matrix metalloproteinase is a crucial promoter of synovial invasion in human rheumatoid arthritis. <i>Arthritis and Rheumatism</i> , 2009 , 60, 686-97		86
149	Membrane type 1 matrix metalloproteinase regulates collagen-dependent mitogen-activated protein/extracellular signal-related kinase activation and cell migration. <i>Cancer Research</i> , 2004 , 64, 1044-9	10.1	86
148	Ursolic acid-induced down-regulation of MMP-9 gene is mediated through the nuclear translocation of glucocorticoid receptor in HT1080 human fibrosarcoma cells. <i>Oncogene</i> , 1998 , 16, 771-8	9.2	85
147	Cell surface collagenolysis requires homodimerization of the membrane-bound collagenase MT1-MMP. <i>Molecular Biology of the Cell</i> , 2006 , 17, 5390-9	3.5	85
146	Membrane-type 1 matrix metalloproteinase modulates focal adhesion stability and cell migration. <i>Experimental Cell Research</i> , 2006 , 312, 1381-9	4.2	85
145	CD44 binding through the hemopexin-like domain is critical for its shedding by membrane-type 1 matrix metalloproteinase. <i>Oncogene</i> , 2005 , 24, 859-68	9.2	84
144	Transformation of Madin-Darby canine kidney (MDCK) epithelial cells by Epstein-Barr virus latent membrane protein 1 (LMP1) induces expression of Ets1 and invasive growth. <i>Oncogene</i> , 2000 , 19, 1764-71	7.2	81

143	MT1-MMP and MMP-2 mRNA expression in human ovarian tumors: possible implications for the role of desmoplastic fibroblasts. <i>Human Pathology</i> , 1998 , 29, 155-65	3.7	80
142	Characterization of a truncated recombinant form of human membrane type 3 matrix metalloproteinase. <i>FEBS Journal</i> , 1999 , 262, 907-14		79
141	New collagenolytic enzymes/cascade identified at the pannus-hard tissue junction in rheumatoid arthritis: destruction from above. <i>Matrix Biology</i> , 1998 , 17, 585-601	11.4	78
140	Role of tissue inhibitor of metalloproteinases-2 (TIMP-2) in regulation of pro-gelatinase A activation catalyzed by membrane-type matrix metalloproteinase-1 (MT1-MMP) in human cancer cells. <i>Journal of Biochemistry</i> , 1998 , 124, 462-70	3.1	78
139	Tetraspanin CD63 promotes targeting and lysosomal proteolysis of membrane-type 1 matrix metalloproteinase. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 304, 160-6	3.4	76
138	Cloning of a human gene potentially encoding a novel matrix metalloproteinase having a C-terminal transmembrane domain. <i>Gene</i> , 1995 , 155, 293-8	3.8	76
137	Transmembrane/cytoplasmic, rather than catalytic, domains of Mmp14 signal to MAPK activation and mammary branching morphogenesis via binding to integrin β . <i>Development (Cambridge)</i> , 2013 , 140, 343-52	6.6	75
136	A membrane protease regulates energy production in macrophages by activating hypoxia-inducible factor-1 via a non-proteolytic mechanism. <i>Journal of Biological Chemistry</i> , 2010 , 285, 29951-64	5.4	73
135	Membrane type 1-matrix metalloproteinase is involved in the formation of hepatocyte growth factor/scatter factor-induced branching tubules in madin-darby canine kidney epithelial cells. <i>Biochemical and Biophysical Research Communications</i> , 1998 , 251, 681-7	3.4	72
134	Role of pericellular proteolysis by membrane-type 1 matrix metalloproteinase in cancer invasion and angiogenesis. <i>Cancer and Metastasis Reviews</i> , 2003 , 22, 129-43	9.6	71
133	MT-MMPs play pivotal roles in cancer dissemination. <i>Clinical and Experimental Metastasis</i> , 2002 , 19, 209-157		70
132	Stroma-derived matrix metalloproteinase (MMP)-2 promotes membrane type 1-MMP-dependent tumor growth in mice. <i>Cancer Research</i> , 2007 , 67, 4311-9	10.1	69
131	Cytoplasmic tail of MT1-MMP regulates macrophage motility independently from its protease activity. <i>Genes To Cells</i> , 2009 , 14, 617-26	2.3	68
130	Expression and tissue localization of membrane-types 1, 2, and 3 matrix metalloproteinases in rheumatoid synovium. <i>Laboratory Investigation</i> , 2000 , 80, 677-87	5.9	66
129	Dual over-expression pattern of membrane-type metalloproteinase-1 in cancer and stromal cells in human gastrointestinal carcinoma revealed by in situ hybridization and immunoelectron microscopy. <i>International Journal of Cancer</i> , 1996 , 68, 565-70	7.5	66
128	MT1-MMP: an enzyme with multidimensional regulation. <i>Trends in Biochemical Sciences</i> , 2004 , 29, 285-9	10.3	64
127	Membrane-type matrix metalloproteinase-1(MT1-MTP) gene is overexpressed in highly invasive hepatocellular carcinomas. <i>Journal of Hepatology</i> , 1998 , 28, 231-9	13.4	64
126	Activation of matrix metalloproteinase-2 in human breast cancer cells overexpressing cyclooxygenase-1 or -2. <i>FEBS Letters</i> , 1999 , 460, 145-8	3.8	61

125	Regulation of matrix metalloproteinase-2 (MMP-2) by hepatocyte growth factor/scatter factor (HGF/SF) in human glioma cells: HGF/SF enhances MMP-2 expression and activation accompanying up-regulation of membrane type-1 MMP. <i>International Journal of Cancer</i> , 1999 , 82, 274-81	7.5	60
124	Targeting the Warburg effect that arises in tumor cells expressing membrane type-1 matrix metalloproteinase. <i>Journal of Biological Chemistry</i> , 2011 , 286, 14691-704	5.4	58
123	Membrane-type 1 matrix metalloproteinase cytoplasmic tail-binding protein-1 is a new member of the Cupin superfamily. A possible multifunctional protein acting as an invasion suppressor down-regulated in tumors. <i>Journal of Biological Chemistry</i> , 2004 , 279, 12734-43	5.4	58
122	Cloning of three <i>Caenorhabditis elegans</i> genes potentially encoding novel matrix metalloproteinases. <i>Gene</i> , 1998 , 211, 57-62	3.8	57
121	Matrix metalloproteinases and tissue inhibitor of metalloproteinase-2 in fetal rabbit lung. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2000 , 279, L555-61	5.8	56
120	Inhibition of metastasis in human gastric cancer cells transfected with tissue inhibitor of metalloproteinase 1 gene in nude mice. <i>Cancer</i> , 1996 , 77, 1676-1680	6.4	54
119	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. <i>Clinical and Experimental Metastasis</i> , 2000 , 18, 179-88	4.7	53
118	A novel protein associated with membrane-type 1 matrix metalloproteinase binds p27(kip1) and regulates RhoA activation, actin remodeling, and matrigel invasion. <i>Journal of Biological Chemistry</i> , 2009 , 284, 27315-26	5.4	52
117	The second dimer interface of MT1-MMP, the transmembrane domain, is essential for ProMMP-2 activation on the cell surface. <i>Journal of Biological Chemistry</i> , 2008 , 283, 13053-62	5.4	50
116	Tumor cell contact mediated transcriptional activation of the fibroblast matrix metalloproteinase-9 gene: involvement of multiple transcription factors including Ets and an alternating purine-pyrimidine repeat. <i>Clinical and Experimental Metastasis</i> , 1998 , 16, 169-77	4.7	49
115	Isolation of a mouse MT2-MMP gene from a lung cDNA library and identification of its product. <i>FEBS Letters</i> , 1997 , 402, 219-22	3.8	48
114	Membrane-type 1 MMP (MMP-14) cleaves at three sites in the aggrecan interglobular domain. <i>FEBS Letters</i> , 1998 , 430, 186-90	3.8	47
113	Palmitoylation at Cys574 is essential for MT1-MMP to promote cell migration. <i>FASEB Journal</i> , 2005 , 19, 1326-8	0.9	47
112	Production of membrane-type matrix metalloproteinase-1 (MT-MMP-1) in early human placenta. A possible role in placental implantation?. <i>Journal of Histochemistry and Cytochemistry</i> , 1998 , 46, 221-9	3.4	47
111	Evidence for the Involvement of MMP14 in MMP2 Processing and Recruitment in Exosomes of Corneal Fibroblasts. <i>Investigative Ophthalmology and Visual Science</i> , 2015 , 56, 5323-9		46
110	EXPRESSION AND TISSUE LOCALIZATION OF MEMBRANE-TYPES 1, 2, AND 3 MATRIX METALLOPROTEINASES IN HUMAN UROTHELIAL CARCINOMAS. <i>Journal of Urology</i> , 1998 , 160, 1540-1545 ^{2,5}		44
109	Type I collagen abrogates the clathrin-mediated internalization of membrane type 1 matrix metalloproteinase (MT1-MMP) via the MT1-MMP hemopexin domain. <i>Journal of Biological Chemistry</i> , 2006 , 281, 6826-40	5.4	44
108	Furin-independent pathway of membrane type 1-matrix metalloproteinase activation in rabbit dermal fibroblasts. <i>Journal of Biological Chemistry</i> , 1999 , 274, 37280-4	5.4	43

107	Membrane type 1-matrix metalloproteinase cleaves off the NH2-terminal portion of heparin-binding epidermal growth factor and converts it into a heparin-independent growth factor. <i>Cancer Research</i> , 2010 , 70, 6093-103	10.1	41
106	Inhibition of metastasis in human gastric cancer cells transfected with tissue inhibitor of metalloproteinase 1 gene in nude mice. <i>Cancer</i> , 1996 , 77, 1676-80	6.4	41
105	Membrane-type 1 matrix metalloproteinase and cell migration. <i>Biochemical Society Symposia</i> , 2003 , 253-62		38
104	MT1-MMP plays a critical role in hematopoiesis by regulating HIF-mediated chemokine/cytokine gene transcription within niche cells. <i>Blood</i> , 2012 , 119, 5405-16	2.2	37
103	Deficiency of MMP17/MT4-MMP proteolytic activity predisposes to aortic aneurysm in mice. <i>Circulation Research</i> , 2015 , 117, e13-26	15.7	36
102	Integrated functions of membrane-type 1 matrix metalloproteinase in regulating cancer malignancy: Beyond a proteinase. <i>Cancer Science</i> , 2017 , 108, 1095-1100	6.9	36
101	Competitive disruption of the tumor-promoting function of membrane type 1 matrix metalloproteinase/matrix metalloproteinase-14 in vivo. <i>Molecular Cancer Therapeutics</i> , 2005 , 4, 1157-66	6.1	36
100	Critical role of transient activity of MT1-MMP for ECM degradation in invadopodia. <i>PLoS Computational Biology</i> , 2013 , 9, e1003086	5	35
99	Ras pathway is required for the activation of MMP-2 secretion and for the invasion of src-transformed 3Y1. <i>Oncogene</i> , 1999 , 18, 6555-63	9.2	34
98	Establishment of an MT4-MMP-deficient mouse strain representing an efficient tracking system for MT4-MMP/MMP-17 expression in vivo using beta-galactosidase. <i>Genes To Cells</i> , 2007 , 12, 1091-100	2.3	33
97	Human membrane type-4 matrix metalloproteinase (MT4-MMP) is encoded by a novel major transcript: isolation of complementary DNA clones for human and mouse mt4-mmp transcripts. <i>FEBS Letters</i> , 1999 , 457, 353-6	3.8	32
96	The ERK signaling target RNF126 regulates anoikis resistance in cancer cells by changing the mitochondrial metabolic flux. <i>Cell Discovery</i> , 2016 , 2, 16019	22.3	32
95	Matrix metalloproteinase 14 modulates signal transduction and angiogenesis in the cornea. <i>Survey of Ophthalmology</i> , 2016 , 61, 478-97	6.1	30
94	CDCP1 regulates the function of MT1-MMP and invadopodia-mediated invasion of cancer cells. <i>Molecular Cancer Research</i> , 2013 , 11, 628-37	6.6	30
93	Significance of membrane type 1 matrix metalloproteinase expression in breast cancer. <i>Japanese Journal of Cancer Research</i> , 1999 , 90, 516-22		30
92	Calcium influx inhibits MT1-MMP processing and blocks MMP-2 activation. <i>FEBS Letters</i> , 1997 , 412, 568-72	3.8	29
91	Induction of membrane-type matrix metalloproteinase 1 (MT1-MMP) expression in human fibroblasts by breast adenocarcinoma cells. <i>Clinical and Experimental Metastasis</i> , 1997 , 15, 157-63	4.7	29
90	Expression of membrane-type matrix metalloproteinase-1 in human pancreatic adenocarcinomas. <i>Journal of Cancer Research and Clinical Oncology</i> , 1998 , 124, 65-72	4.9	29

89	Expression of type-IV collagenases in human tumor cell lines that can form liver colonies in chick embryos. <i>International Journal of Cancer</i> , 1994 , 56, 46-51	7.5	29
88	Differentiation-dependent expression of gelatinase B/matrix metalloproteinase-9 in trophoblast cells. <i>Cell and Tissue Research</i> , 1999 , 295, 287-96	4.2	29
87	Proteolysis of EphA2 Converts It from a Tumor Suppressor to an Oncoprotein. <i>Cancer Research</i> , 2015 , 75, 3327-39	10.1	27
86	High throughput analysis of proteins associating with a proinvasive MT1-MMP in human malignant melanoma A375 cells. <i>Cancer Science</i> , 2009 , 100, 1284-90	6.9	27
85	Deletion of the Mint3/Apba3 gene in mice abrogates macrophage functions and increases resistance to lipopolysaccharide-induced septic shock. <i>Journal of Biological Chemistry</i> , 2011 , 286, 32542-51	5.4	27
84	Shedding of membrane type 1 matrix metalloproteinase in a human breast carcinoma cell line. <i>Japanese Journal of Cancer Research</i> , 1999 , 90, 942-50		26
83	Dimerization of MT1-MMP during cellular invasion detected by fluorescence resonance energy transfer. <i>Biochemical Journal</i> , 2011 , 440, 319-26	3.8	25
82	Molecular mechanisms of regulation of HTLV-1 gene expression and its association with leukemogenesis. <i>Genome</i> , 1989 , 31, 662-7	2.4	25
81	Proteolytic activation of heparin-binding EGF-like growth factor by membrane-type matrix metalloproteinase-1 in ovarian carcinoma cells. <i>Cancer Science</i> , 2011 , 102, 111-6	6.9	24
80	Human membrane type-2 matrix metalloproteinase is defective in cell-associated activation of progelatinase A. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 267, 796-800	3.4	24
79	Expression of c-fos gene inhibits proteoglycan synthesis in transfected chondrocyte. <i>FEBS Letters</i> , 1996 , 381, 222-6	3.8	22
78	Endothelial MT1-MMP targeting limits intussusceptive angiogenesis and colitis via TSP1/nitric oxide axis. <i>EMBO Molecular Medicine</i> , 2020 , 12, e10862	12	21
77	MT4-MMP deficiency increases patrolling monocyte recruitment to early lesions and accelerates atherosclerosis. <i>Nature Communications</i> , 2018 , 9, 910	17.4	21
76	NECAB3 Promotes Activation of Hypoxia-inducible factor-1 during Normoxia and Enhances Tumourigenicity of Cancer Cells. <i>Scientific Reports</i> , 2016 , 6, 22784	4.9	21
75	Assignment of the human genes for membrane-type-1, -2, and -3 matrix metalloproteinases (MMP14, MMP15, and MMP16) to 14q12.2, 16q12.2-q21, and 8q21, respectively, by in situ hybridization. <i>Genomics</i> , 1997 , 39, 412-3	4.3	21
74	Genetic dissection of proteolytic and non-proteolytic contributions of MT1-MMP to macrophage invasion. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 413, 277-81	3.4	20
73	Elevated cyclic AMP suppresses ConA-induced MT1-MMP expression in MDA-MB-231 human breast cancer cells. <i>Clinical and Experimental Metastasis</i> , 1998 , 16, 185-91	4.7	20
72	Overexpression of tissue inhibitor of matrix metalloproteinases-1 (TIMP-1) in metastatic MDCK cells transformed by v-src. <i>Clinical and Experimental Metastasis</i> , 1999 , 17, 105-10	4.7	20

71	The proteolytic activity of MT4-MMP is required for its pro-angiogenic and pro-metastatic promoting effects. <i>International Journal of Cancer</i> , 2012 , 131, 1537-48	7.5	19
70	MT1-MMP-mediated basement membrane remodeling modulates renal development. <i>Experimental Cell Research</i> , 2010 , 316, 2993-3005	4.2	19
69	Different metastatic potentials of ras- and src-transformed BALB/c 3T3 A31 variant cells. <i>Molecular Carcinogenesis</i> , 1996 , 15, 300-8	5	19
68	Control of metastatic niche formation by targeting APBA3/Mint3 in inflammatory monocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E4416-E4424	11.5	18
67	Identification and characterization of Lutheran blood group glycoprotein as a new substrate of membrane-type 1 matrix metalloproteinase 1 (MT1-MMP): a systemic whole cell analysis of MT1-MMP-associating proteins in A431 cells. <i>Journal of Biological Chemistry</i> , 2009 , 284, 27360-9	5.4	17
66	Heat shock suppresses membrane type 1-matrix metalloproteinase production and progelatinase A activation in human fibrosarcoma HT-1080 cells and thereby inhibits cellular invasion. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 265, 189-93	3.4	17
65	Mint3 potentiates TLR3/4- and RIG-I-induced IFN- λ expression and antiviral immune responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 11925-11930	11.5	17
64	ZF21 protein regulates cell adhesion and motility. <i>Journal of Biological Chemistry</i> , 2010 , 285, 21013-22	5.4	16
63	New insight into the role of MMP14 in metabolic balance. <i>PeerJ</i> , 2016 , 4, e2142	3.1	16
62	Specific detection of soluble EphA2 fragments in blood as a new biomarker for pancreatic cancer. <i>Cell Death and Disease</i> , 2017 , 8, e3134	9.8	15
61	Basal localization of MT1-MMP is essential for epithelial cell morphogenesis in 3D collagen matrix. <i>Journal of Cell Science</i> , 2014 , 127, 1203-13	5.3	15
60	Calmodulin antagonists increase the expression of membrane-type-1 matrix metalloproteinase in human uterine cervical fibroblasts. <i>FEBS Journal</i> , 1998 , 251, 353-8		15
59	Expression and localization of membrane-type-1 matrix metalloproteinase, CD 44, and laminin-5 γ 2 chain during colorectal carcinoma tumor progression. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2004 , 445, 271-8	5.1	15
58	Heat shock-mediated transient increase in intracellular 3',5'-cyclic AMP results in tumor specific suppression of membrane type 1-matrix metalloproteinase production and progelatinase A activation. <i>Clinical and Experimental Metastasis</i> , 2000 , 18, 131-8	4.7	15
57	Mint3/Apba3 depletion ameliorates severe murine influenza pneumonia and macrophage cytokine production in response to the influenza virus. <i>Scientific Reports</i> , 2016 , 6, 37815	4.9	14
56	Mathematical modeling of invadopodia formation. <i>Journal of Theoretical Biology</i> , 2012 , 298, 138-46	2.3	14
55	Urinary laminin- α 5 is a novel biomarker of non-muscle invasive urothelial carcinoma. <i>Cancer Science</i> , 2015 , 106, 1730-7	6.9	14
54	Regulated nucleo-cytoplasmic shuttling of human aci-reductone dioxygenase (hADI1) and its potential role in mRNA processing. <i>Genes To Cells</i> , 2007 , 12, 105-17	2.3	14

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