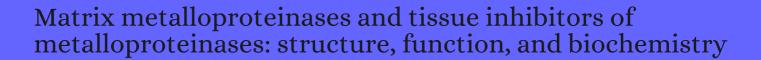
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2275	Molecular cloning and characterization of a zinc finger protein involved in Id-1-stimulated mammary epithelial cell growth. <b>2001</b> , 276, 11852-8		25
2274	AngiotensinII mediates cardiomyocyte hypertrophic growth pathways via MMP-dependent HB-EGF liberation. <b>2003</b> , 10, 431-435		1
2273	Metalloproteinases and plasminogen activators in vessel remodeling. <b>2003</b> , 5, 466-72		35
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2271	Temporal and spatial expression of matrix metalloproteinases during wound healing of human corneal tissue. <b>2003</b> , 77, 653-64		64
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2268	Hepatocyte growth factor modulates matrix metalloproteinases and plasminogen activator/plasmin proteolytic pathways in progressive renal interstitial fibrosis. <b>2003</b> , 14, 3047-60		81
2267	Cleavage of the ADAMTS13 propeptide is not required for protease activity. <b>2003</b> , 278, 46643-8		93
2266	Unveiling the surface epitopes that render tissue inhibitor of metalloproteinase-1 inactive against membrane type 1-matrix metalloproteinase. <b>2003</b> , 278, 40224-30		54
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2256	Matrix metalloproteinases: contribution to pathogenesis, diagnosis, surveillance and treatment of abdominal aortic aneurysms. <b>2004</b> , 20, 419-32	143
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2254	Regulation of insulin-like growth factor (IGF)-I action by matrix metalloproteinase-3 involves selective disruption of IGF-I/IGF-binding protein-3 complexes. <b>2004</b> , 145, 620-6	58
2253	Evidence that the thyrotropin receptor protease is membrane-associated and is not within lipid rafts. <b>2004</b> , 14, 801-5	8
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2088	Hypoxia of endothelial cells leads to MMP-2-dependent survival and death. <b>2005</b> , 289, C1321-31	59
2087	Plasma levels and zymographic activities of matrix metalloproteinases 2 and 9 in type II diabetics with peripheral arterial disease. <b>2005</b> , 10, 1-6	97
2086	The amyloid-beta peptide suppresses transforming growth factor-beta1-induced matrix metalloproteinase-2 production via Smad7 expression in human monocytic THP-1 cells. <b>2005</b> , 280, 7845-53	34
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2084	Joint and bone disease in mucopolysaccharidoses VI and VII: identification of new therapeutic targets and biomarkers using animal models. <b>2005</b> , 57, 701-7	118
2083	Antiangiogenic strategies in hepatocellular carcinoma: current status. <b>2005</b> , 5, 645-56	12
2082	New biochemical insights into the pathogenesis of osteoarthritis and the role of laboratory investigations in clinical assessment. <b>2005</b> , 42, 279-309	33
2081	Hyperhomocysteinemic diabetic cardiomyopathy: oxidative stress, remodeling, and endothelial-myocyte uncoupling. <b>2005</b> , 10, 1-10	44
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2055	Generation of biologically active endostatin fragments from human collagen XVIII by distinct matrix metalloproteases. <b>2005</b> , 307, 292-304		156
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2051	Tumor promoter TPA stimulates MMP-9 secretion from human keratinocytes by activation of superoxide-producing NADPH oxidase. <b>2005</b> , 39, 245-53		26
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2040	Can levels of interleukins and matrix metalloproteinases in the amniotic fluid predict postnatal bowel function in fetuses with gastroschisis?. <b>2005</b> , 40, 1887-91	15
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2036	Matrix metalloproteinase-7 degrades all insulin-like growth factor binding proteins and facilitates insulin-like growth factor bioavailability. <b>2005</b> , 333, 1011-6	98
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2026	Delayed inflammation-associated corneal neovascularization in MMP-2-deficient mice. <b>2005</b> , 80, 159-66	52
2025	Suppression of matrix metalloproteinase-9 by prostaglandin E(2) in peritoneal macrophage is associated with severity of endometriosis. <b>2005</b> , 167, 1061-9	77

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2023	Differential expression of extracellular matrix metalloproteinase inducer (CD147) in normal and ulcerated corneas: role in epithelio-stromal interactions and matrix metalloproteinase induction. <b>2005</b> , 166, 209-19	104
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2010	Vein wall remodeling after deep vein thrombosis involves matrix metalloproteinases and late fibrosis in a mouse model. <b>2005</b> , 42, 140-8	97
2009	Matrix metalloproteinases in cancer: comparison of known and novel aspects of their inhibition as a therapeutic approach. <b>2005</b> , 5, 149-63	45
2008	Blueberry flavonoids inhibit matrix metalloproteinase activity in DU145 human prostate cancer cells. <b>2005</b> , 83, 637-43	58
2007	Expression and functional properties of antibodies to tissue inhibitors of metalloproteinases (TIMPs) in rheumatoid arthritis. <b>2005</b> , 7, R1014-22	10

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2005	The influence of MMP-14, TIMP-2 and MMP-2 expression on breast cancer prognosis. <b>2006</b> , 8, R28	95
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1999	The interplay of cell-cell and cell-matrix interactions in the invasive properties of brain tumors. <b>2006</b> , 91, 2708-16	94
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1997	Signal transducers and activators of transcription-3 up-regulates tissue inhibitor of metalloproteinase-1 expression and decreases invasiveness of breast cancer. <b>2006</b> , 169, 633-42	35
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1991	Inflammation in atherosclerosis: visualizing matrix metalloproteinase action in macrophages in vivo. <b>2006</b> , 114, 55-62	356
1990	Making the cut: protease-mediated regulation of angiogenesis. <b>2006</b> , 312, 608-22	163
1989	Trypsins and their role in carcinoma growth. <b>2006</b> , 312, 1219-28	66

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1987	Enhanced gene expression of myocardial matrix metalloproteinases 2 and 9 after acute treatment with doxorubicin in mice. <b>2006</b> , 53, 341-6	38
1986	Tumor cell invasion of collagen matrices requires coordinate lipid agonist-induced G-protein and membrane-type matrix metalloproteinase-1-dependent signaling. <b>2006</b> , 5, 69	75
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1983	The effects of impact and non-impact exercise on circulating markers of collagen remodelling in humans. <b>2006</b> , 24, 843-8	10
1982	Montelukast regulates eosinophil protease activity through a leukotriene-independent mechanism. <b>2006</b> , 118, 113-9	34
1981	Differential expression of MMPs and TIMPs in moderate and severe heart failure in a transgenic model. <b>2006</b> , 12, 314-25	22
1980	Expression of matrix metalloproteinases 7 and 9 in non-small cell lung cancer. Relation to clinicopathological factors, beta-catenin and prognosis. <b>2006</b> , 51, 313-21	60
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1978	Gingival crevicular fluid matrix metalloproteinase (MMP)-7, extracellular MMP inducer, and tissue inhibitor of MMP-1 levels in periodontal disease. <b>2006</b> , 77, 2040-50	50
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1968	Leukotriene B4 at low dosage negates the catabolic effect of prostaglandin E2 in human patellar tendon fibroblasts. <b>2006</b> , 372, 103-9	23
1967	Matrix metalloproteinases and tissue inhibitors of metalloproteinases in coxsackievirus-induced myocarditis. <b>2006</b> , 15, 63-74	44
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1963	Crystal structure of an active form of human MMP-1. <b>2006</b> , 362, 78-88	87
1962	Distinct regulation of gene expression in human endothelial cells by TGF-beta and its receptors. <b>2006</b> , 71, 12-9	58
1961	Interleukin-1 alpha alters the expression of matrix metalloproteinases and collagen degradation by pulp fibroblasts. <b>2006</b> , 32, 186-92	33
1960	The effects of tumor necrosis factor-alpha, interleukin-1beta, interleukin-6, and transforming growth factor-beta1 on pulp fibroblast mediated collagen degradation. <b>2006</b> , 32, 853-61	63
1959	TIMP-1/MMP-9 imbalance in brain edema in rats with fulminant hepatic failure. <b>2006</b> , 134, 307-14	32
1958	Infected chronic wounds show different local and systemic arginine conversion compared with acute wounds. <b>2006</b> , 134, 205-14	28
1957	Tackling the EGFR in pathological tissue remodelling. <b>2006</b> , 19, 74-8	24
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1951	MMP-9 expression is associated with leukocytic but not endothelial markers in brain arteriovenous malformations. <b>2006</b> , 11, 3121-8	55
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1945	Matrix Metalloproteinases in Tumor Progression. <b>2006</b> , 143-158	
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1932	Captopril, an Angiotensin-converting enzyme inhibitor, attenuates the severity of acute pancreatitis in rats by reducing expression of matrix metalloproteinase 9. <b>2006</b> , 209, 99-107	18
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1929	Effect of meso-dihydroguaiaretic acid from Machilus thunbergii Sieb et Zucc on MMP-1 expression in heat shock-induced cultured primary human fibroblasts. <b>2006</b> , 20, 714-6	8
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1927	Tissue inhibitor of metalloproteinase-2 (TIMP-2) expression is regulated by multiple neural differentiation signals. <b>2006</b> , 98, 234-47	31
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1297	Matrix metalloproteinase-3 promoter polymorphisms but not dupA-H. pylori correlate to duodenal ulcers in H. pylori-infected females. <b>2010</b> , 10, 218	15
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1295	Synergistic effect of stromelysin-1 (matrix metalloproteinase-3) promoter (-1171 5A->6A) polymorphism in oral submucous fibrosis and head and neck lesions. <b>2010</b> , 10, 369	25
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1291	The requirement of zinc and calcium ions for functional MMP activity in demineralized dentin matrices. <b>2010</b> , 26, 1059-67	175
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1285	Suppression of PMA-induced tumor cell invasion by dihydroartemisinin via inhibition of PKCalpha/Raf/MAPKs and NF-kappaB/AP-1-dependent mechanisms. <b>2010</b> , 79, 1714-26	88
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1278	A combined molecular modeling study on gelatinases and their potent inhibitors. <b>2010</b> , 31, 24-42	15
1277	Pathobiology of colorectal cancer hepatic metastases with an emphasis on prognostic factors. <b>2010</b> , 102, 898-908	25
1276	Suppression of phorbol-12-myristate-13-acetate-induced tumor cell invasion by bergamottin via the inhibition of protein kinase Cdelta/p38 mitogen-activated protein kinase and JNK/nuclear factor-kappaB-dependent matrix metalloproteinase-9 expression. <b>2010</b> , 54, 977-90	32
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1274	Identification of potential and selective collagenase, gelatinase inhibitors from Crataegus pinnatifida. <b>2010</b> , 20, 991-3	8
1273	Genetic polymorphisms of matrix metalloproteinases and their inhibitors in potentially malignant and malignant lesions of the head and neck. <b>2010</b> , 17, 10	55
1272	Salvianolic acid B functioned as a competitive inhibitor of matrix metalloproteinase-9 and efficiently prevented cardiac remodeling. <b>2010</b> , 10, 10	41
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1270	Quantitative analysis of the secretome of TGF-beta signaling-deficient mammary fibroblasts. <b>2010</b> , 10, 2458-70	35
1269	Proteolytic fluorescent signal amplification on gold nanoparticles for a highly sensitive and rapid protease assay. <b>2010</b> , 6, 126-31	33

1268	SAR150640, a selective beta3-adrenoceptor agonist, prevents human myometrial remodelling and activation of matrix metalloproteinase in an in vitro model of chorioamnionitis. <b>2010</b> , 159, 1354-66	15
1267	IL-1beta induces expression of matrix metalloproteinase-9 and cell migration via a c-Src-dependent, growth factor receptor transactivation in A549 cells. <b>2010</b> , 160, 1595-610	58
1266	Plasmin plays a key role in the regulation of profibrogenic molecules in hepatic stellate cells. <b>2010</b> , 30, 298-310	6
1265	Degradation of tropoelastin by matrix metalloproteinasescleavage site specificities and release of matrikines. <b>2010</b> , 277, 1939-56	67
1264	Proteoglycans in health and disease: the multiple roles of syndecan shedding. <b>2010</b> , 277, 3876-89	212
1263	Finasteride treatment alters MMP-2 and -9 gene expression and activity in the rat ventral prostate. <b>2010</b> , 33, e114-22	13
1262	Matrix metalloproteinase (MMP)-2 and MMP-9 activity and localization during ventral prostate atrophy and regrowth. <b>2010</b> , 33, 696-708	24
1261	Fell-Muir Lecture: Metalloproteinases: from demolition squad to master regulators. <b>2010</b> , 91, 303-13	18
1260	Propranolol for infantile haemangiomas: insights into the molecular mechanisms of action. <b>2010</b> , 163, 269-74	354
1259	A novel fibrotic disorder associated with increased dermal fibroblast proliferation and downregulation of genes of the microfibrillar network. <b>2010</b> , 163, 1102-15	7
1258	Serum metalloproteinase leukolysin (MMP-25/MT-6): a potential metabolic marker for atopy-associated inflammation. <b>2010</b> , 40, 859-66	8
1257	The anti-angiogenic herbal composition Ob-X inhibits adipose tissue growth in obese mice. <b>2010</b> , 34, 820-30	31
1256	Analysis of matrix metalloproteinase (MMP-8 and MMP-2) activity in gingival crevicular fluid from children with Down's syndrome. <b>2010</b> , 45, 170-6	14
1255	The protective effects of long-term oral administration of marine collagen hydrolysate from chum salmon on collagen matrix homeostasis in the chronological aged skin of Sprague-Dawley male rats. <b>2010</b> , 75, H230-8	53
1254	. 2010,	6
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1252	Extraction and Purification of Collagenase Enzymes: A Critical Review. <b>2010</b> , 6, 239-263	23
1251	Gelatinase B (MMP-9) deficiency does not affect murine adipose tissue development. <b>2010</b> , 104, 165-71	27

1250	The vessel wall: A forgotten player in post thrombotic syndrome. <b>2010</b> , 104, 681-92	38
1249	Topical Application of Selenium Can Significantly Relieve UV-induced Skin Aging in Hairless Mice. <b>2010</b> , 26, 37	2
1248	Proteases and Therapeutic Approaches of Bone Tumors. <b>2010</b> , 107-119	
1247	Influence of elastin-derived peptides on metalloprotease production in endothelial cells. <b>2010</b> , 1, 1057-1060	7
1246	Wound Healing Versus Regeneration: Role of the Tissue Environment in Regenerative Medicine. <b>2010</b> , 35, 597	60
1245	p53 dysfunction by xeroderma pigmentosum group C defects enhance lung adenocarcinoma metastasis via increased MMP1 expression. <b>2010</b> , 70, 10422-32	26
1244	Drug-induced valvulopathy: an update. <b>2010</b> , 38, 837-48	86
1243	Arterial stiffness: a brief review. <b>2010</b> , 31, 1267-76	175
1242	Local conformation and dynamics of isoleucine in the collagenase cleavage site provide a recognition signal for matrix metalloproteinases. <b>2010</b> , 285, 34181-90	28
1241	The effect of oxygen tension on the long-term osteogenic differentiation and MMP/TIMP expression of human mesenchymal stem cells. <b>2010</b> , 191, 175-84	27
1240	Androgen-mediated improvement of body composition and muscle function involves a novel early transcriptional program including IGF1, mechano growth factor, and induction of {beta}-catenin. <b>2010</b> , 44, 55-73	62
1239	Effect of doxycycline on proliferation, MMP production, and adhesion in LAM-related cells. <b>2010</b> , 299, L393-400	34
1238	Hepatocyte growth factor enhances ovarian cancer cell invasion through downregulation of thrombospondin-1. <b>2010</b> , 9, 79-87	18
1237	AP-1 (Fra-1/c-Jun)-mediated induction of expression of matrix metalloproteinase-2 is required for 15S-hydroxyeicosatetraenoic acid-induced angiogenesis. <b>2010</b> , 285, 16830-43	30
1236	Transient estrogen exposure from birth affects uterine expression of developmental markers in neonatal gilts with lasting consequences in pregnant adults. <b>2010</b> , 139, 623-30	22
1235	An oxidized extracellular oxidation-reduction state increases Nox1 expression and proliferation in vascular smooth muscle cells via epidermal growth factor receptor activation. <b>2010</b> , 30, 2234-41	38
1234	Inhibition of podocyte FAK protects against proteinuria and foot process effacement. <b>2010</b> , 21, 1145-56	89
1233	The 🛘 -integrin-dependent function of RECK in physiologic and tumor angiogenesis. <b>2010</b> , 8, 665-76	27

1232	Down-regulation of tissue inhibitor of metalloproteinase-3 (TIMP-3) expression is necessary for adipocyte differentiation. <b>2010</b> , 285, 6508-14	32
1231	Gels containing MMP inhibitors prevent dental erosion in situ. <b>2010</b> , 89, 468-72	73
1230	Microarray-based transcriptional and epigenetic profiling of matrix metalloproteinases, collagens, and related genes in cancer. <b>2010</b> , 285, 19647-59	35
1229	Functional polymorphisms in matrix metalloproteinases-1, -3, -9 are associated with arteriovenous fistula patency in hemodialysis patients. <b>2010</b> , 5, 1805-14	22
1228	The enzymatic degradation of hyaluronan is associated with disease progression in experimental pulmonary hypertension. <b>2010</b> , 298, L148-57	31
1227	Lewis (y) antigen overexpression increases the expression of MMP-2 and MMP-9 and invasion of human ovarian cancer cells. <b>2010</b> , 11, 4441-52	38
1226	Estrogen improves TIMP-MMP balance and collagen distribution in volume-overloaded hearts of ovariectomized females. <b>2010</b> , 299, R683-93	66
1225	Polyoma virus-induced osteosarcomas in inbred strains of mice: host determinants of metastasis. <b>2010</b> , 6, e1000733	26
1224	Kaposi's sarcoma associated herpes virus (KSHV) induced COX-2: a key factor in latency, inflammation, angiogenesis, cell survival and invasion. <b>2010</b> , 6, e1000777	106
1223	Molecular imaging of matrix metalloproteinase activation to predict murine aneurysm expansion in vivo. <b>2010</b> , 51, 1107-15	37
1222	Adipocyte differentiation influences the proliferation and migration of normal and tumoral breast epithelial cells. <b>2010</b> , 3, 433-9	13
1221	Imbalance of matrix metalloproteinases/tissue inhibitor of metalloproteinase-1 and loss of fibronectin expression in patients with congestive heart failure. <b>2010</b> , 116, 133-41	17
1220	Matrix metalloproteinase-9 is increased in obese subjects and decreases in response to pioglitazone. <b>2010</b> , 95, 2993-3001	52
1219	Erythropoietin combined with granulocyte colony-stimulating factor enhances MMP-2 expression in mesenchymal stem cells and promotes cell migration. <b>2011</b> , 4, 31-6	20
1218	Cell-type specific actions of progesterone receptor modulators in the regulation of uterine leiomyoma growth. <b>2010</b> , 28, 260-73	68
1217	Differential release of matrix metalloproteinases and tissue inhibitors of metalloproteinases by human granulosa-lutein cells and ovarian leukocytes. <b>2010</b> , 151, 1290-8	12
1216	Involvement of matrix metalloproteinases in the growth plate response to physiological mechanical load. <b>2010</b> , 108, 172-80	18
1215	Current developments in salivary diagnostics. <b>2010</b> , 4, 171-89	242

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1214	Role of Matrix Metalloproteinases in Extracellular Matrix Disintegration of Meckel's Cartilage in Mice. <b>2010</b> , 52, 143-149	2
1213	Intracellular substrate cleavage: a novel dimension in the biochemistry, biology and pathology of matrix metalloproteinases. <b>2010</b> , 45, 351-423	212
1212	Effect of an antimicrobial agent on atherosclerotic plaques: assessment of metalloproteinase activity by molecular imaging. <b>2010</b> , 55, 1240-1249	28
1211	Matrix metalloproteinases and tissue inhibitors of metalloproteinases in patients with different types of scars and keloids. <b>2010</b> , 63, 1015-21	69
<b>121</b> 0	"Hypoxia-induced down-regulation of microRNA-449a/b impairs control over targeted SERPINE1 (PAI-1) mRNA - a mechanism involved in SERPINE1 (PAI-1) overexpression". <b>2010</b> , 8, 33	27
1209	Increased matrix metalloproteinase activation in esophageal squamous cell carcinoma. <b>2010</b> , 8, 91	35
1208	Hepatocyte growth factor (HGF) modulates Leydig cell extracellular matrix components. 2010, 31, 306-13	13
1207	Purification and structure determination of gelatinase and collagenase inhibitors from Viola patrinii fermentation extracts. <b>2010</b> , 32, 614-6	5
1206	Purification and characterization of a gelatinolytic metalloproteinase from the skeletal muscle of red sea bream (Pagrus major). <b>2010</b> , 58, 5730-6	11
1205	Chemical analysis of Hericium erinaceum polysaccharides and effect of the polysaccharides on derma antioxidant enzymes, MMP-1 and TIMP-1 activities. <b>2010</b> , 47, 33-6	30
1204	MMP-2 induced vein relaxation via inhibition of [Ca2+]e-dependent mechanisms of venous smooth muscle contraction. Role of RGD peptides. <b>2010</b> , 159, 755-64	41
1203	Imbalance between matrix metalloproteinases and tissue inhibitor of metalloproteinases in hypertensive vascular remodeling. <b>2010</b> , 29, 194-201	94
1202	Effect of activation of viral receptors on the gelatinases MMP-2 and MMP-9 in human mesothelial cells. <b>2010</b> , 29, 202-8	15
1201	Nanocrystalline silver, gelatinases and the clinical implications. <b>2010</b> , 36, 965-74	29
1200	Increased endostatin generation and decreased angiogenesis via MMP-9 by tamoxifen in hormone dependent ovarian cancer. <b>2010</b> , 292, 32-40	18
1199	Exercise ameliorates serum MMP-9 and TIMP-2 levels in patients with type 2 diabetes. <b>2010</b> , 36, 144-51	41
1198	Impact of ENPP1 and MMP3 gene polymorphisms on aortic calcification in patients with type 2 diabetes in a Korean population. <b>2010</b> , 88, 87-96	19
1197	Role of matrix metalloproteinases in recurrent corneal melting. <b>2010</b> , 90, 583-90	28

1196	Purification and characterization of a collagenolytic serine proteinase from the skeletal muscle of red sea bream (Pagrus major). <b>2010</b> , 155, 281-7	18
1195	Matrix metalloproteinase (MMP)-9 genotypes and haplotypes in preeclampsia and gestational hypertension. <b>2010</b> , 411, 874-7	35
1194	Transcriptional regulation of TIMPs in ascending aorta aneurysms. <b>2010</b> , 126, 399-405	14
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1192	7-Ketocholesterol and cholesterol-5alpha,6alpha-epoxide induce smooth muscle cell migration and proliferation through the epidermal growth factor receptor/phosphoinositide 3-kinase/Akt signaling pathways. <b>2010</b> , 197, 88-96	16
1191	3-Caffeoyl, 4-dihydrocaffeoylquinic acid from Salicornia herbacea inhibits tumor cell invasion by regulating protein kinase C-delta-dependent matrix metalloproteinase-9 expression. <b>2010</b> , 198, 200-9	16
1190	Matrix metalloproteinase-2 polymorphism is associated with prognosis in prostate cancer. <b>2010</b> , 28, 624-7	11
1189	Relationship between matrix production by bronchial fibroblasts and lung function and AHR in asthma. <b>2010</b> , 104, 1799-808	17
1188	Role of matrix metalloproteinases in the inflammatory process of respiratory diseases. <b>2010</b> , 48, 440-4	60
1187	New insights into hyperglycemia-induced molecular changes in microvascular cells. <b>2010</b> , 89, 116-27	31
1186	Assessment of nonischemic myocardial fibrosis. <b>2010</b> , 56, 89-97	166
1185	Fibroblast aging: intrinsic and extrinsic factors. <b>2010</b> , 7, 65-70	10
1184	Effects of aprotinin or tranexamic acid on proteolytic/cytokine profiles in infants after cardiac surgery. <b>2010</b> , 89, 1843-52; discussion 1852	15
1183	Matrix metalloproteinases and angiogenic factors: predictors of survival after radical prostatectomy for clinically organ-confined prostate cancer?. <b>2010</b> , 177, 2216-24	24
1182	Regulation of redox signaling involving chemical conjugation of protein thiols by nitric oxide and electrophiles. <b>2010</b> , 21, 1121-9	32
1181	Methods of Cancer Diagnosis, Therapy, and Prognosis. <b>2010</b> ,	
1180	Enzyme-triggered nanomedicine: drug release strategies in cancer therapy. <b>2010</b> , 27, 353-63	141
1179	Rapid analysis of matrix metalloproteinase-3 activity by gelatin arrays using a spectral surface plasmon resonance biosensor. <b>2010</b> , 135, 1050-7	21

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1178	Dual endothelin receptor antagonism prevents remodeling of resistance arteries in diabetes. <b>2010</b> , 88, 616-21	8
1177	Trends in matrix metalloproteinase research from 1986-2007: a bibliometric study. <b>2010</b> , 88, 843-51	2
1176	Matrix metalloproteinase (MMP)-7 in salivary gland cancer. <b>2010</b> , 49, 85-90	26
1175	Metalloproteinase binding proteins: WO2009097397. <b>2010</b> , 20, 1091-5	3
1174	Wound healing: a new approach to the topical wound care. <b>2011</b> , 30, 92-9	12
1173	Differential expression of oxidative stress and extracellular matrix remodeling genes in low- or high-dose-rate photon-irradiated skin. <b>2011</b> , 176, 187-97	17
1172	Ultraviolet radiation-induced cytokines promote mast cell accumulation and matrix metalloproteinase production: potential role in cutaneous lupus erythematosus. <b>2011</b> , 40, 197-204	25
1171	Modeling signaling pathways in articular cartilage. <b>2011</b> , 2011, 3712-5	
1170	Chronic hyperhomocysteinemia causes vascular remodelling by instigating vein phenotype in artery. <b>2011</b> , 117, 270-82	7
1169	Effects of intense pulsed light and ultraviolet A on metalloproteinases and extracellular matrix expression in human skin. <b>2011</b> , 29, 97-103	6
1168	Lessons learned from the preclinical drug discovery of asoprisnil and ulipristal for non-surgical treatment of uterine leiomyomas. <b>2011</b> , 6, 897-911	9
1167	Histopathologic and immunohistochemical lesions in liver of mink infected with Aleutian disease virus. <b>2011</b> , 14, 69-76	3
1166	Molecular and structural mapping of collagen fibril interactions. <b>2011</b> , 52, 2-17	132
1165	MicroRNA-488 suppresses cell migration through modulation of the focal adhesion activity during chondrogenic differentiation of chick limb mesenchymal cells. <b>2011</b> , 35, 179-85	23
1164	N-Acetylglucosamine suppress collagenases activation in ultraviolet B-irradiated human dermal fibroblasts: Involvement of calcium ions and mitogen-activated protein kinases. <b>2011</b> , 63, 93-103	20
1163	Oxidative stress and blood-brain barrier dysfunction under particular consideration of matrix metalloproteinases. <b>2011</b> , 15, 1305-23	106
1162	Encyclopedia of Cancer. <b>2011</b> , 3703-3705	
1161	The biology of immunoglobulin free light chains and kidney injury. <b>2011</b> , 79, 1289-301	66

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1158	Matrix metalloproteinases: targets for doxycycline to prevent the vascular alterations of hypertension. <b>2011</b> , 64, 567-72	67
1157	Matrix metalloproteinase inhibitor properties of tetracyclines: therapeutic potential in cardiovascular diseases. <b>2011</b> , 64, 551-60	66
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1155	Effect of chlorhexidine pretreatment on bond strength durability of caries-affected dentin over 2-year aging in artificial saliva and under simulated intrapulpal pressure. <b>2011</b> , 36, 649-60	53
1154	Expression of matrix metalloproteinase-13 is controlled by IL-13 via PI3K/Akt3 and PKC-lin normal human dermal fibroblasts. <b>2011</b> , 131, 655-61	32
1153	Acute myocardial infarction is reflected in salivary matrix metalloproteinase-8 activation level. <b>2011</b> , 82, 716-25	37
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1151	CD14 signaling reciprocally controls collagen deposition and turnover to regulate the development of lyme arthritis. <b>2011</b> , 178, 724-34	8
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1149	Metalloproteinases in metabolic syndrome. <b>2011</b> , 412, 1731-9	37
1148	Cytochemical, immunocytochemical and ultrastructural observations on leukocytes and thrombocytes of fat snook (Centropomus parallelus). <b>2011</b> , 31, 571-7	23
1147	Insights into the degradation of human elastin by matrilysin-1. <b>2011</b> , 93, 187-94	30
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1144	Epidermal growth factor-mediated proliferation and sodium transport in normal and PKD epithelial cells. <b>2011</b> , 1812, 1301-13	49
1143	Bone, joint and tooth development in mucopolysaccharidoses: relevance to therapeutic options. <b>2011</b> , 1812, 1542-56	57

1142	Liberation of desmosine and isodesmosine as amino acids from insoluble elastin by elastolytic proteases. <b>2011</b> , 411, 281-6	28
1141	Matrix metalloproteinases, tissue inhibitors of metalloproteinases, and heart failure outcomes. <b>2011</b> , 151, 237-9	4
1140	Isolated right ventricular infarction as a cause for anterior (V1-V3) ST elevation - review of publications since 2006 and re-appraisal of direct vs reciprocal ST changes. <b>2011</b> , 151, 239-41	9
1139	The role of matrix metalloproteinases in intestinal epithelial wound healing during normal and inflammatory states. <b>2011</b> , 168, 315-24	36
1138	Polymorphisms in MMP-9 and TIMP-2 in Chinese patients with varicose veins. <b>2011</b> , 168, e143-8	26
1137	Mesenchymal stem cells attenuate angiotensin II-induced aortic aneurysm growth in apolipoprotein E-deficient mice. <b>2011</b> , 54, 1743-52	47
1136	Bovine endometrial metallopeptidases MMP14 and MMP2 and the metallopeptidase inhibitor TIMP2 participate in maternal preparation of pregnancy. <b>2011</b> , 332, 48-57	45
1135	Matrix metalloproteinase-2 expression induced by two different adhesive systems on human pulp fibroblasts. <b>2011</b> , 37, 1663-7	11
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1133	MMP-2 assay within the hybrid layer created by a two-step etch-and-rinse adhesive: biochemical and immunohistochemical analysis. <b>2011</b> , 39, 470-7	43
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1128	Suppression of phorbol-12-myristate-13-acetate-induced tumor cell invasion by piperine via the inhibition of PKCÆRK1/2-dependent matrix metalloproteinase-9 expression. <b>2011</b> , 203, 9-19	72
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1125	A comparison of basal and eye-flush tears for the analysis of cat tear proteins. <b>2011</b> , 89, e75-81	14

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1120	Cutis laxa: analysis of metalloproteinases and extracellular matrix expression by immunohistochemistry and histochemistry. <b>2011</b> , 21, 717-21	9
1119	Glioblastoma: Current Chemotherapeutic Status and Need for New Targets and Approaches. <b>2011</b> ,	
1118	The Role of Matrix Metalloproteinases a nd Tissue Inhibitors of Metalloproteinases in the Progression of Astrocytomas. <b>2011</b> ,	
1117	Overexpression of matrix metalloproteinase-1 (MMP-1) and MMP-3 in superior limbic keratoconjunctivitis. <b>2011</b> , 52, 3701-5	11
1116	Effects of hepatocyte growth factor on collagen synthesis and matrix metalloproteinase production in keloids. <b>2011</b> , 26, 1081-6	19
1115	Cellular and Immunological Regulation of Viral Myocarditis. <b>2011</b> ,	
1114	Cyclophilin A: A Mediator of Cardiovascular Pathology. <b>2011</b> , 17, 133	0
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1106	Biomarkers of myocardial fibrosis. <b>2011</b> , 57, 522-35	66
1105	Association of MMP-2 and MMP-9 with clinical outcome of neurocysticercosis. <b>2011</b> , 138, 1423-8	35
1104	Evidence-based dressing selection. <b>2011</b> , 20, 4-8	2
1103	Isolation and characterization of myofibroblast cell lines from oral squamous cell carcinoma. <b>2011</b> , 25, 1013-20	16
1102	Inhibitory effect of esculetin on migration, invasion and matrix metalloproteinase-9 expression in TNF-⊞nduced vascular smooth muscle cells. <b>2011</b> , 4, 337-41	38
1101	Augmentation of gene expression and production of promatrix metalloproteinase 2 by Propionibacterium acnes-derived factors in hamster sebocytes and dermal fibroblasts: a possible mechanism for acne scarring. <b>2011</b> , 34, 295-9	16
1100	Influence of chlorhexidine application on longitudinal adhesive bond strength in deciduous teeth. <b>2011</b> , 25, 388-92	22
1099	Ribavirin and interferon alter MMP-9 abundance in vitro and in HIV-HCV-coinfected patients. <b>2011</b> , 16, 1237-47	7
1098	Matrix metalloproteinase-9 is a prognostic marker to predict survival of patients who underwent surgery due to rectal carcinoma. <b>2011</b> , 223, 67-73	13
1097	Effects of increased matrix metalloproteinase-9 expression on skeletal muscle fibrosis in prolonged alcoholic myopathies of rats. <b>2012</b> , 5, 60-5	4
1096	Clinical characteristics of TIMP2, MMP2, and MMP9 gene polymorphisms in colorectal cancer. <b>2011</b> , 26, 391-7	65
1095	Altered levels of Ets-1 transcription factor and matrix metalloproteinases in melanocytes from patients with vitiligo. <b>2011</b> , 165, 285-91	34
1094	Real-time enzymatic degradation of human dentin collagen fibrils exposed to exogenous collagenase: an AFM study in situ. <b>2011</b> , 241, 162-70	12
1093	The structure of the catalytic domain of Tannerella forsythia karilysin reveals it is a bacterial xenologue of animal matrix metalloproteinases. <b>2011</b> , 79, 119-32	24
1092	Regulation of matrix metalloproteinase activity in health and disease. <b>2011</b> , 278, 28-45	262
1091	Effect of dentin etching and chlorhexidine application on metalloproteinase-mediated collagen degradation. <b>2011</b> , 119, 79-85	109
1090	Association of matrix metalloproteinase gene polymorphism with temporomandibular joint degeneration. <b>2011</b> , 119, 1-6	28
1089	The effect of smoking on the mRNA expression of MMPs and TIMP-1 in untreated chronic periodontitis patients: a cross-sectional study. <b>2011</b> , 46, 576-83	10

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1087	Forming functional fat: a growing understanding of adipocyte differentiation. <b>2011</b> , 12, 722-34	891
1086	Nuclease deficiencies promote end-stage lupus nephritis but not nephritogenic autoimmunity in (NZB [NZW) F1 mice. <b>2011</b> , 89, 90-9	14
1085	The vacuolar-ATPase modulates matrix metalloproteinase isoforms in human pancreatic cancer. <b>2011</b> , 91, 732-43	90
1084	Amelioration of glomerulosclerosis with all-trans retinoic acid is linked to decreased plasminogen activator inhibitor-1 and ⊞mooth muscle actin. <b>2011</b> , 32, 70-8	20
1083	TNF- <del>Ir</del> especifies human mesenchymal stem cells to a neural fate and promotes migration toward experimental glioma. <b>2011</b> , 18, 853-63	64
1082	Sildenafil promotes smooth muscle preservation and ameliorates fibrosis through modulation of extracellular matrix and tissue growth factor gene expression after bilateral cavernosal nerve resection in the rat. <b>2011</b> , 8, 1048-60	38
1081	Molecular evolution of matrix metalloproteinase 20. <b>2011</b> , 119 Suppl 1, 247-53	14
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1079	Antifibrotic effects of B fatty acids in the heart: one possible treatment for diastolic heart failure. <b>2011</b> , 21, 90-5	4
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1076	Targeting stem cell niches and trafficking for cardiovascular therapy. <b>2011</b> , 129, 62-81	37
1075	MMP-2 and MMP-9 localization and activity in the female prostate during estrous cycle. <b>2011</b> , 173, 419-27	12
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1072	Inhibition of MMPs by alcohols. <b>2011</b> , 27, 926-33	37
1071	Zinc protects against indomethacin-induced damage in the rat small intestine. <b>2011</b> , 654, 106-16	16

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1069	Immune responses to implants - a review of the implications for the design of immunomodulatory biomaterials. <b>2011</b> , 32, 6692-709	902
1068	Decidualisation and angiogenesis. <b>2011</b> , 25, 259-71	64
1067	Aristolochic acid downregulates monocytic matrix metalloproteinase-9 by inhibiting nuclear factor- <b>B</b> activation. <b>2011</b> , 192, 209-19	5
1066	Cross-linked collagen sponges loaded with plant polyphenols with inhibitory activity towards chronic wound enzymes. <b>2011</b> , 6, 1208-18	26
1065	Expression of global oxidative stress and matrix metalloproteinases is associated with rett syndrome. <b>2011</b> , 5, 141-145	1
1064	miR-17-5p promotes human breast cancer cell migration and invasion through suppression of HBP1. <b>2011</b> , 126, 565-75	163
1063	Current evidence on the relationship between four polymorphisms in the matrix metalloproteinases (MMP) gene and breast cancer risk: a meta-analysis. <b>2011</b> , 127, 813-8	34
1062	Is a single nucleotide polymorphism a risk factor for lung cancer in the matrix metalloproteinase-2 promoter?. <b>2011</b> , 38, 1469-74	13
1061	Structure-dependent inhibition of gelatinases by dietary antioxidants in rat astrocytes and sera of multiple sclerosis patients. <b>2011</b> , 36, 518-27	32
1060	Balancing zinc deficiency leads to an improved healing of colon anastomosis in rats. <b>2011</b> , 26, 295-301	16
1059	Meta-analysis of associations between polymorphisms in the promoter regions of matrix metalloproteinases and the risk of colorectal cancer. <b>2011</b> , 26, 1099-105	17
1058	Matrix metalloproteinase 13 in the ligamentum flavum from lumbar spinal canal stenosis patients with and without diabetes mellitus. <b>2011</b> , 16, 785-90	18
1057	Role of decursin in TNF-Estimulated migration, invasion, and matrix metalloproteinase-9 induction in vascular smooth muscle cells. <b>2011</b> , 20, 913-918	2
1056	Transcript levels of major MMPs and ADAMTS-4 in relation to the clinicopathological profile of patients with lumbar disc herniation. <b>2011</b> , 20, 781-90	21
1055	Effects of statins on matrix metalloproteinases and their endogenous inhibitors in human endothelial cells. <b>2011</b> , 383, 547-54	54
1054	Protective effect of Withania somnifera and Cardiospermum halicacabum extracts against collagenolytic degradation of collagen. <b>2011</b> , 165, 1075-91	29
1053	Vasculopathy in type 2 diabetes mellitus: role of specific angiogenic modulators. <b>2011</b> , 67, 339-49	21

1052	Procyanidins inhibit tumor angiogenesis by crosslinking extracellular matrix. <b>2011</b> , 23, 99-106	10
1051	In vitro secretion and activity profiles of matrix metalloproteinases, MMP-9 and MMP-2, in human term extra-placental membranes after exposure to Escherichia coli. <b>2011</b> , 9, 13	18
1050	Aberrant repair and fibrosis development in skeletal muscle. <b>2011</b> , 1, 21	486
1049	Semi-quantitative expression of tissue inhibitor of matrix metalloproteinase-2 in cancer of uterine cervix. <b>2011</b> , 104, 210-5	1
1048	Extracellular matrix metalloproteinase inducer (EMMPRIN/CD147) as a novel regulator of myogenic cell differentiation. <b>2011</b> , 226, 141-9	7
1047	Mesenchymal stem cells inhibit both endogenous and exogenous MMPs via secreted TIMPs. <b>2011</b> , 226, 385-96	106
1046	Matrix metalloproteinase expression during blastema formation in regeneration-competent versus regeneration-deficient amphibian limbs. <b>2011</b> , 240, 1127-41	40
1045	Macrophage differentiation and polarization on a decellularized pericardial biomaterial. <b>2011</b> , 32, 439-49	60
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1043	Shedding of low-density lipoprotein receptorâlelated protein-1 in acute respiratory distress syndrome. <b>2011</b> , 184, 438-48	32
1042	Enhanced susceptibility to biomechanical stress in ACE2 null mice is prevented by loss of the p47(phox) NADPH oxidase subunit. <b>2011</b> , 91, 151-61	67
1041	Regulation of muscle stem cells activation: the role of growth factors and extracellular matrix. <b>2011</b> , 87, 239-76	27
1040	Exercise and diet, independent of weight loss, improve cardiometabolic risk profile in overweight and obese individuals. <b>2011</b> , 39, 87-97	73
1039	Effect of doxycycline on atherosclerosis: from bench to bedside. <b>2011</b> , 6, 42-54	6
1038	Matrix metalloproteinase imbalance in inguinal hernia formation. <b>2011</b> , 24, 145-50	25
1037	Reduced NO signaling during pregnancy attenuates outward uterine artery remodeling by altering MMP expression and collagen and elastin deposition. <b>2011</b> , 301, H1266-75	20
1036	The dimer interface of the membrane type 1 matrix metalloproteinase hemopexin domain: crystal structure and biological functions. <b>2011</b> , 286, 7587-600	45
1035	The lens as a model for fibrotic disease. <b>2011</b> , 366, 1301-19	74

1034	Significant relation of tissue inhibitor of matrix metalloproteinase-2 and its combination with matrix metalloproteinase-2 to survival of patients with cancer of uterine cervix. <b>2011</b> , 18, 798-808	4	
1033	Conditionally replicating adenovirus expressing TIMP2 for ovarian cancer therapy. <b>2011</b> , 17, 538-49	27	
1032	MT1-MMP regulates the turnover and endocytosis of extracellular matrix fibronectin. <b>2011</b> , 124, 4039-50	86	
1031	The airway epithelium: soldier in the fight against respiratory viruses. <b>2011</b> , 24, 210-29	408	8
1030	Inmunodeteccifi de metaloproteinasas de matriz extracelular (MMPs)-2, -9, -13 y -14 en lesiones apicales asociadas con periodontitis apical asintom <b>t</b> ica. <b>2011</b> , 4, 17-21	2	
1029	Placental regulation of peptide hormone and growth factor activity by proMBP. <b>2011</b> , 84, 1077-86	16	
1028	Novel yeast bioassay for high-throughput screening of matrix metalloproteinase inhibitors. <b>2011</b> , 77, 8573-7	5	
1027	Tumor and salivary matrix metalloproteinase levels are strong diagnostic markers of oral squamous cell carcinoma. <b>2011</b> , 20, 2628-36	52	
1026	Activity of matrix metalloproteinases in bovine versus human dentine. <b>2011</b> , 45, 429-34	21	
1025	Matrix metalloproteinase activation predicts amelioration of remodeling after dietary modification in injured arteries. <b>2011</b> , 31, 102-9	23	
1024	Nuclear factor kappa B and matrix metalloproteinase induced receptor cleavage in the spontaneously hypertensive rat. <b>2011</b> , 57, 261-8	40	
1023	Human leucine zipper protein sLZIP induces migration and invasion of cervical cancer cells via expression of matrix metalloproteinase-9. <b>2011</b> , 286, 42072-42081	20	
1022	Identifying Functional Modules of Diffuse Large B-cell Lymphoma Gene Co-expression networks by Hierarchical Clustering Method Based on Random Matrix Theory. <b>2011</b> , 3,	1	
1021	Plasma profiling determinants of matrix homeostasis in paediatric dilated cardiomyopathy. <b>2011</b> , 21, 52-61	2	
1020	Dynamic interdomain interactions contribute to the inhibition of matrix metalloproteinases by tissue inhibitors of metalloproteinases. <b>2011</b> , 286, 21002-12	11	
1019	I <b>B</b> 酶ttenuates angiotensin II-induced cardiovascular inflammation and fibrosis in mice. <b>2011</b> , 58, 310-6	24	
1018	The inhibitory effects of quaternary ammonium methacrylates on soluble and matrix-bound MMPs. <b>2011</b> , 90, 535-40	128	8
1017	Molecular imaging insights into early inflammatory stages of arterial and aortic valve calcification.  Circulation Research, <b>2011</b> , 108, 1381-91	i.7 <b>21</b> 3	3

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1015	TGF-¶ promoted MMP-2 mediated wound healing of anterior cruciate ligament fibroblasts through NF-B. <b>2011</b> , 52, 218-25	48
1014	Hepatoprotective effect of Crossostephium chinensis (L.) Makino in rats. <b>2011</b> , 39, 503-21	4
1013	Series "matrix metalloproteinases in lung health and disease": Biological role of matrix metalloproteinases: a critical balance. <b>2011</b> , 38, 191-208	398
1012	Selective inhibition of matrix metalloproteinase-13 increases collagen content of established mouse atherosclerosis. <b>2011</b> , 31, 2464-72	89
1011	Reactive oxygen species released from hypoxic hepatocytes regulates MMP-2 expression in hepatic stellate cells. <b>2011</b> , 12, 2434-47	37
1010	Evidence for early fibrosis and increased airway resistance in bone marrow transplant recipient mice deficient in MMP12. <b>2011</b> , 301, L519-26	14
1009	Soy protein preserves basement membrane integrity through a synergistic effect on nephrin, matrix metalloproteinase and vascular endothelial growth factor. <b>2011</b> , 34, 529-33	4
1008	Methamphetamine and HIV-1 gp120 effects on lipopolysaccharide stimulated matrix metalloproteinase-9 production by human monocyte-derived macrophages. <b>2011</b> , 40, 481-97	12
1007	Does inflammation have a role in the pathogenesis of venous ulcers? A critical review of the evidence. <b>2011</b> , 131, 818-27	31
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964	Avalia <b>ö</b> da express <b>ö</b> g <b>ö</b> ica de metaloproteinases de matriz e seus inibidores em colesteatomas por amplifica <b>ö</b> de <b>ö</b> idos nucleicos. <b>2012</b> , 78, 116-121	4
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927	Design strategy for a near-infrared fluorescence probe for matrix metalloproteinase utilizing highly cell permeable boron dipyrromethene. <b>2012</b> , 134, 13730-7	102

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915	Glycosylphosphatidylinositols of Toxoplasma gondii induce matrix metalloproteinase-9 production and degradation of galectin-3. <b>2012</b> , 217, 61-4	9
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827	Expression of MMPs and TIMP-1 in smoker and nonsmoker chronic periodontitis patients before and after periodontal treatment. <b>2012</b> , 47, 532-42	16
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629	Effects of Linn. Fruit, Pulp, Leaf, and Seed on Oxidation, Inflammation, Tyrosinase, Matrix Metalloproteinase, Elastase, and Hyaluronidase Inhibition. <b>2021</b> , 10,	1
628	Protective Effects of Titanium Dioxide-based Emulsion after Short-term and Long-term Infrared-A Ray Irradiation on Skin Cells. <b>2021</b> , 26, 595-605	0
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