

William George Stetler-Stevenson

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210
papers

23,869
citations

78
h-index

152
g-index

235
ext. papers

24,970
ext. citations

6.6
avg, IF

6.72
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 210 | Cancer metastasis and angiogenesis: an imbalance of positive and negative regulation. <i>Cell</i> , 1991 , 64, 327-36 | 56.2 | 2428 |
| 209 | Localization of matrix metalloproteinase MMP-2 to the surface of invasive cells by interaction with integrin alpha v beta 3. <i>Cell</i> , 1996 , 85, 683-93 | 56.2 | 1403 |
| 208 | Induction of cell migration by matrix metalloprotease-2 cleavage of laminin-5. <i>Science</i> , 1997 , 277, 225-8 | 33.3 | 1028 |
| 207 | Quantitative zymography: detection of picogram quantities of gelatinases. <i>Analytical Biochemistry</i> , 1994 , 218, 325-9 | 3.1 | 767 |
| 206 | Human mesenchymal stem cells exert potent antitumorigenic effects in a model of Kaposi's sarcoma. <i>Journal of Experimental Medicine</i> , 2006 , 203, 1235-47 | 16.6 | 607 |
| 205 | Matrix metalloproteinases in angiogenesis: a moving target for therapeutic intervention. <i>Journal of Clinical Investigation</i> , 1999 , 103, 1237-41 | 15.9 | 603 |
| 204 | Matrix metalloproteinases and metastasis. <i>Cancer Chemotherapy and Pharmacology</i> , 1999 , 43 Suppl, S42-S49 | 3.1 | 526 |
| 203 | Extracellular matrix 6: role of matrix metalloproteinases in tumor invasion and metastasis. <i>FASEB Journal</i> , 1993 , 7, 1434-41 | 0.9 | 515 |
| 202 | Matrix metalloproteinases (MMPs) and tissue inhibitors of metalloproteinases (TIMPs): Positive and negative regulators in tumor cell adhesion. <i>Seminars in Cancer Biology</i> , 2010 , 20, 161-8 | 12.7 | 476 |
| 201 | Type IV collagenases in tumor invasion and metastasis. <i>Cancer and Metastasis Reviews</i> , 1990 , 9, 289-303 | 9.6 | 455 |
| 200 | TIMP-2 mediated inhibition of angiogenesis: an MMP-independent mechanism. <i>Cell</i> , 2003 , 114, 171-80 | 56.2 | 427 |
| 199 | Molecular aspects of tumor cell invasion and metastasis. <i>Cancer</i> , 1993 , 71, 1368-83 | 6.4 | 414 |
| 198 | Role of the alpha v beta 3 integrin in human melanoma cell invasion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992 , 89, 1557-61 | 11.5 | 386 |
| 197 | Tissue inhibitors of metalloproteinases in cell signaling: metalloproteinase-independent biological activities. <i>Science Signaling</i> , 2008 , 1, re6 | 8.8 | 344 |
| 196 | Proteases in invasion: matrix metalloproteinases. <i>Seminars in Cancer Biology</i> , 2001 , 11, 143-52 | 12.7 | 327 |
| 195 | In vitro suppression of programmed cell death of B cells by tissue inhibitor of metalloproteinases-1. <i>Journal of Clinical Investigation</i> , 1998 , 102, 2002-10 | 15.9 | 307 |
| 194 | Structural biochemistry and activation of matrix metalloproteases. <i>Current Opinion in Cell Biology</i> , 1993 , 5, 891-7 | 9 | 299 |

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| 193 | Tissue inhibitor of metalloproteinases-2 inhibits bFGF-induced human microvascular endothelial cell proliferation. <i>Journal of Cellular Physiology</i> , 1993 , 157, 351-8 | 7 | 298 |
| 192 | Matrix metalloproteinases and tumor invasion: from correlation and causality to the clinic. <i>Seminars in Cancer Biology</i> , 1996 , 7, 147-54 | 12.7 | 289 |
| 191 | Type IV collagenase(s) and TIMPs modulate endothelial cell morphogenesis in vitro. <i>Journal of Cellular Physiology</i> , 1993 , 156, 235-46 | 7 | 256 |
| 190 | TIMP-2 reduces proteolytic opening of blood-brain barrier by type IV collagenase. <i>Brain Research</i> , 1992 , 576, 203-7 | 3.7 | 247 |
| 189 | Neuronal matrix metalloproteinase-2 degrades and inactivates a neurite-inhibiting chondroitin sulfate proteoglycan. <i>Journal of Neuroscience</i> , 1998 , 18, 5203-11 | 6.6 | 244 |
| 188 | Tumor necrosis factor-alpha-induced gelatinase B causes delayed opening of the blood-brain barrier: an expanded therapeutic window. <i>Brain Research</i> , 1995 , 703, 151-5 | 3.7 | 239 |
| 187 | Galectin-3 is a novel substrate for human matrix metalloproteinases-2 and -9. <i>Biochemistry</i> , 1994 , 33, 14109-14 | 3.2 | 224 |
| 186 | Matrix metalloproteinases: changing roles in tumor progression and metastasis. <i>American Journal of Pathology</i> , 2012 , 181, 1895-9 | 5.8 | 213 |
| 185 | TIMP-2 over-expression reduces invasion and angiogenesis and protects B16F10 melanoma cells from apoptosis. <i>International Journal of Cancer</i> , 1998 , 75, 246-53 | 7.5 | 208 |
| 184 | Regulation of angiostatin production by matrix metalloproteinase-2 in a model of concomitant resistance. <i>Journal of Biological Chemistry</i> , 1999 , 274, 29568-71 | 5.4 | 202 |
| 183 | The Role of Matrix Metalloproteinases in Tumor Invasion, Metastasis, and Angiogenesis. <i>Surgical Oncology Clinics of North America</i> , 2001 , 10, 383-392 | 2.7 | 194 |
| 182 | Matrix metalloproteinases in renal development and disease. <i>Journal of the American Society of Nephrology: JASN</i> , 2000 , 11, 574-581 | 12.7 | 194 |
| 181 | Breast cancer cells induce stromal fibroblasts to express MMP-9 via secretion of TNF-alpha and TGF-beta. <i>Journal of Cell Science</i> , 2005 , 118, 2143-53 | 5.3 | 193 |
| 180 | The von Hippel-Lindau tumor suppressor gene inhibits hepatocyte growth factor/scatter factor-induced invasion and branching morphogenesis in renal carcinoma cells. <i>Molecular and Cellular Biology</i> , 1999 , 19, 5902-12 | 4.8 | 182 |
| 179 | Validation of a model of colon cancer progression. <i>Journal of Pathology</i> , 2000 , 192, 446-54 | 9.4 | 169 |
| 178 | Metalloproteinase activity secreted by fibrogenic cells in the processing of prolysin oxidase. Potential role of procollagen C-proteinase. <i>Journal of Biological Chemistry</i> , 1996 , 271, 7113-9 | 5.4 | 163 |
| 177 | MMP-2: expression, activation and inhibition. <i>Enzyme & Protein</i> , 1996 , 49, 7-19 | | 159 |
| 176 | Expression and localization of 72 kDa type IV collagenase (MMP-2) in human malignant gliomas in vivo. <i>Clinical and Experimental Metastasis</i> , 1996 , 14, 35-42 | 4.7 | 155 |

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| 175 | Quantitative reverse zymography: analysis of picogram amounts of metalloproteinase inhibitors using gelatinase A and B reverse zymograms. <i>Analytical Biochemistry</i> , 1997 , 244, 161-6 | 3.1 | 153 |
| 174 | Resistance of malignant trophoblast cells to both the anti-proliferative and anti-invasive effects of transforming growth factor-beta. <i>Experimental Cell Research</i> , 1994 , 214, 93-9 | 4.2 | 152 |
| 173 | Coexpression of vimentin and keratins by human melanoma tumor cells: correlation with invasive and metastatic potential. <i>Journal of the National Cancer Institute</i> , 1992 , 84, 165-74 | 9.7 | 149 |
| 172 | Tissue inhibitor of metalloproteinase-2 (TIMP-2) has erythroid-potentiating activity. <i>FEBS Letters</i> , 1992 , 296, 231-4 | 3.8 | 147 |
| 171 | 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 |
| 170 | CD97, an adhesion receptor on inflammatory cells, stimulates angiogenesis through binding integrin counterreceptors on endothelial cells. <i>Blood</i> , 2005 , 105, 2836-44 | 2.2 | 144 |
| 169 | Swe1Wee1-dependent tyrosine phosphorylation of Hsp90 regulates distinct facets of chaperone function. <i>Molecular Cell</i> , 2010 , 37, 333-43 | 17.6 | 143 |
| 168 | TIMP-2: an endogenous inhibitor of angiogenesis. <i>Trends in Molecular Medicine</i> , 2005 , 11, 97-103 | 11.5 | 138 |
| 167 | Tissue inhibitor of metalloproteinase-2 stimulates fibroblast proliferation via a cAMP-dependent mechanism. <i>Journal of Biological Chemistry</i> , 1995 , 270, 13453-9 | 5.4 | 137 |
| 166 | Immunohistochemical study of matrix metalloproteinases (MMPs) and their tissue inhibitors (TIMPs) in pulmonary lymphangiomyomatosis (LAM). <i>Human Pathology</i> , 1997 , 28, 1071-8 | 3.7 | 136 |
| 165 | Gelatinase A activity directly modulates melanoma cell adhesion and spreading.. <i>EMBO Journal</i> , 1995 , 14, 908-917 | 13 | 132 |
| 164 | Epidermal growth factor receptor signaling and the invasive phenotype of ovarian carcinoma cells. <i>Journal of the National Cancer Institute</i> , 2001 , 93, 1375-84 | 9.7 | 130 |
| 163 | Cancer invasion and metastasis: positive and negative regulatory elements. <i>Cancer Investigation</i> , 1991 , 9, 543-51 | 2.1 | 126 |
| 162 | Angiogenic potential in vivo by Kaposi's sarcoma cell-free supernatants and HIV-1 tat product: inhibition of KS-like lesions by tissue inhibitor of metalloproteinase-2. <i>Aids</i> , 1994 , 8, 1237-44 | 3.5 | 125 |
| 161 | Expression and localization of 92 kDa type IV collagenase/gelatinase B (MMP-9) in human gliomas. <i>Clinical and Experimental Metastasis</i> , 1996 , 14, 12-8 | 4.7 | 124 |
| 160 | Immunohistochemical localization of matrix metalloproteinase 2 and its specific inhibitor TIMP-2 in neoplastic tissues with monoclonal antibodies. <i>International Journal of Cancer</i> , 1994 , 56, 500-5 | 7.5 | 123 |
| 159 | Expression of 92-kD type IV collagenase/gelatinase (gelatinase B) in osteoarthritic cartilage and its induction in normal human articular cartilage by interleukin 1. <i>Journal of Clinical Investigation</i> , 1993 , 92, 179-85 | 15.9 | 116 |
| 158 | The tumor microenvironment: regulation by MMP-independent effects of tissue inhibitor of metalloproteinases-2. <i>Cancer and Metastasis Reviews</i> , 2008 , 27, 57-66 | 9.6 | 114 |

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| 157 | Shp-1 mediates the antiproliferative activity of tissue inhibitor of metalloproteinase-2 in human microvascular endothelial cells. <i>Journal of Biological Chemistry</i> , 2006 , 281, 3711-21 | 5.4 | 114 |
| 156 | Chemically modified tetracyclines inhibit human melanoma cell invasion and metastasis. <i>Clinical and Experimental Metastasis</i> , 1998 , 16, 217-25 | 4.7 | 112 |
| 155 | Matrix metalloproteinase-2 cleavage of adrenomedullin produces a vasoconstrictor out of a vasodilator. <i>Biochemical Journal</i> , 2004 , 383, 413-8 | 3.8 | 110 |
| 154 | Adenovirus-mediated gene transfer of the human tissue inhibitor of metalloproteinase-2 blocks vascular smooth muscle cell invasiveness in vitro and modulates neointimal development in vivo. <i>Circulation</i> , 1998 , 98, 2195-201 | 16.7 | 110 |
| 153 | Quantitative assessment of angiogenic responses by the directed in vivo angiogenesis assay. <i>American Journal of Pathology</i> , 2003 , 162, 1431-9 | 5.8 | 108 |
| 152 | Regulation of vascular growth and regression by matrix metalloproteinases in the rat aorta model of angiogenesis. <i>Laboratory Investigation</i> , 2000 , 80, 545-55 | 5.9 | 108 |
| 151 | Measurement of gelatinase B (MMP-9) in the cerebrospinal fluid of patients with vascular dementia and Alzheimer disease. <i>Stroke</i> , 2004 , 35, e159-62 | 6.7 | 103 |
| 150 | Cellular activation of the 72 kDa type IV procollagenase/TIMP-2 complex. <i>Kidney International</i> , 1993 , 43, 163-70 | 9.9 | 103 |
| 149 | Expression of 92 kD type IV collagenase/gelatinase B in human osteoclasts. <i>Journal of Bone and Mineral Research</i> , 1994 , 9, 549-56 | 6.3 | 102 |
| 148 | Tissue inhibitor of metalloproteinase-1 alters the tumorigenicity of Burkitt's lymphoma via divergent effects on tumor growth and angiogenesis. <i>American Journal of Pathology</i> , 2001 , 158, 1207-15 | 5.8 | 102 |
| 147 | Distribution of the 72-kd type IV collagenase in nonneoplastic and neoplastic thyroid tissue. <i>Human Pathology</i> , 1992 , 23, 1395-401 | 3.7 | 101 |
| 146 | Primate smooth muscle cell migration from aortic explants is mediated by endogenous platelet-derived growth factor and basic fibroblast growth factor acting through matrix metalloproteinases 2 and 9. <i>Circulation</i> , 1997 , 96, 3555-60 | 16.7 | 100 |
| 145 | Nm23-H1 suppresses tumor cell motility by down-regulating the lysophosphatidic acid receptor EDG2. <i>Cancer Research</i> , 2007 , 67, 7238-46 | 10.1 | 99 |
| 144 | Tissue inhibitor of metalloproteinases-2 (TIMP-2) suppresses TKR-growth factor signaling independent of metalloproteinase inhibition. <i>Journal of Biological Chemistry</i> , 2001 , 276, 3203-14 | 5.4 | 97 |
| 143 | Tissue inhibitors of metalloproteinase 2 inhibits endothelial cell migration through increased expression of RECK. <i>Cancer Research</i> , 2004 , 64, 9062-9 | 10.1 | 96 |
| 142 | Expression of Matrix Metalloproteinases and Tissue Inhibitors of Metalloproteinases in Reactive and Neoplastic Lymphoid Cells. <i>Blood</i> , 1997 , 89, 1708-1715 | 2.2 | 93 |
| 141 | Increased expression of membrane-type matrix metalloproteinase and preferential localization of matrix metalloproteinase-2 to the neointima of balloon-injured rat carotid arteries. <i>Circulation</i> , 1998 , 97, 82-90 | 16.7 | 93 |
| 140 | Evaluation of basement membrane components and the 72 kDa type IV collagenase in serous tumors of the ovary. <i>American Journal of Surgical Pathology</i> , 1992 , 16, 500-7 | 6.7 | 92 |

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| 139 | The effects of adrenomedullin overexpression in breast tumor cells. <i>Journal of the National Cancer Institute</i> , 2002 , 94, 1226-37 | 9.7 | 91 |
| 138 | Matrix metalloproteinases. Novel targets for directed cancer therapy. <i>Drugs and Aging</i> , 1997 , 11, 229-44 | 4.7 | 90 |
| 137 | Type I collagen shows a specific binding affinity for bovine dentin phosphophoryn. <i>Calcified Tissue International</i> , 1986 , 38, 135-41 | 3.9 | 88 |
| 136 | Cell surface binding of TIMP-2 and pro-MMP-2/TIMP-2 complex. <i>FEBS Letters</i> , 1995 , 364, 28-32 | 3.8 | 86 |
| 135 | Biophysical and functional characterization of full-length, recombinant human tissue inhibitor of metalloproteinases-2 (TIMP-2) produced in <i>Escherichia coli</i> . Comparison of wild type and amino-terminal alanine appended variant with implications for the mechanism of TIMP functions. <i>Journal of Biological Chemistry</i> , 1999 , 274, 21362-8 | 5.4 | 85 |
| 134 | Expression of tissue inhibitors of metalloproteinases: negative regulators of human glioblastoma invasion in vivo. <i>Clinical and Experimental Metastasis</i> , 1995 , 13, 57-62 | 4.7 | 83 |
| 133 | Asymmetric Hsp90 N domain SUMOylation recruits Aha1 and ATP-competitive inhibitors. <i>Molecular Cell</i> , 2014 , 53, 317-29 | 17.6 | 82 |
| 132 | Molecular regulation of cellular invasion--role of gelatinase A and TIMP-2. <i>Biochemistry and Cell Biology</i> , 1996 , 74, 823-31 | 3.6 | 77 |
| 131 | Bovine dentin phosphophoryn: calcium ion binding properties of a high molecular weight preparation. <i>Calcified Tissue International</i> , 1987 , 40, 97-102 | 3.9 | 77 |
| 130 | Stability analysis of latent and active 72-kDa type IV collagenase: the role of tissue inhibitor of metalloproteinases-2 (TIMP-2). <i>Biochemistry</i> , 1993 , 32, 1583-92 | 3.2 | 75 |
| 129 | Autolytic activation of recombinant human 72 kilodalton type IV collagenase. <i>Biochemistry</i> , 1995 , 34, 2819-25 | 3.2 | 74 |
| 128 | Pro-matrix metalloproteinase-2 transfection increases orthotopic primary growth and experimental metastasis of MDA-MB-231 human breast cancer cells in nude mice. <i>Cancer Research</i> , 2004 , 64, 652-8 | 10.1 | 72 |
| 127 | Glucose-induced changes in integrins and matrix-related functions in cultured human glomerular epithelial cells. <i>American Journal of Physiology - Renal Physiology</i> , 2003 , 284, F671-9 | 4.3 | 69 |
| 126 | Gelatinase A expression and localization in human breast cancers. An in situ hybridization study and immunohistochemical detection using confocal microscopy. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 1994 , 424, 641-645 | 5.1 | 68 |
| 125 | Role of human cripto-1 in tumor angiogenesis. <i>Journal of the National Cancer Institute</i> , 2005 , 97, 132-41 | 9.7 | 67 |
| 124 | Expression of human recombinant 72 kDa gelatinase and tissue inhibitor of metalloproteinase-2 (TIMP-2): characterization of complex and free enzyme. <i>Biochemical Journal</i> , 1993 , 289 (Pt 2), 411-6 | 3.8 | 67 |
| 123 | Expression of matrix metalloproteinase-2-cleaved laminin-5 in breast remodeling stimulated by sex steroids. <i>American Journal of Pathology</i> , 1999 , 154, 1193-201 | 5.8 | 66 |
| 122 | Fungal fimbriae are composed of collagen.. <i>EMBO Journal</i> , 1996 , 15, 4445-4453 | 13 | 65 |

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| 121 | Effect of cholera toxin and pertussis toxin on prostaglandin H synthase-2, prostaglandin E2, and matrix metalloproteinase production by human monocytes. <i>Archives of Biochemistry and Biophysics</i> , 1994 , 310, 481-8 | 4.1 | 64 |
| 120 | Over-expression of tissue inhibitor of matrix metalloproteinases (TIMP1 and TIMP2) suppresses extravasation of pulmonary metastasis of a rat bladder carcinoma. <i>International Journal of Cancer</i> , 1995 , 63, 680-7 | 7.5 | 63 |
| 119 | Role of plasminogen activator and of 92-KDa type IV collagenase in glioblastoma invasion using an in vitro matrigel model. <i>Journal of Neuro-Oncology</i> , 1994 , 18, 129-38 | 4.8 | 62 |
| 118 | Monocyte membrane type 1-matrix metalloproteinase. Prostaglandin-dependent regulation and role in metalloproteinase-2 activation. <i>Journal of Biological Chemistry</i> , 2001 , 276, 19027-32 | 5.4 | 59 |
| 117 | Immunoassay of type IV collagenase/gelatinase (MMP-2) in human plasma. <i>Journal of Immunological Methods</i> , 1992 , 148, 189-98 | 2.5 | 59 |
| 116 | Higher-order complex formation between the 72-kilodalton type IV collagenase and tissue inhibitor of metalloproteinases-2. <i>Biochemistry</i> , 1992 , 31, 1665-72 | 3.2 | 58 |
| 115 | Modulation of MMP-2 (gelatinase A) and MMP-9 (gelatinase B) by interferon-gamma in a human salivary gland cell line. <i>Journal of Cellular Physiology</i> , 1997 , 171, 117-24 | 7 | 57 |
| 114 | Gelatinase A/TIMP-2 imbalance in lymph-node-positive breast carcinomas, as measured by RT-PCR. <i>International Journal of Cancer</i> , 1995 , 63, 621-6 | 7.5 | 57 |
| 113 | Activation of the estrogen receptor contributes to the progression of pulmonary lymphangioliomyomatosis via matrix metalloproteinase-induced cell invasiveness. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2008 , 93, 1625-33 | 5.6 | 56 |
| 112 | Growth factors specifically alter hair follicle cell proliferation and collagenolytic activity alone or in combination. <i>Differentiation</i> , 1990 , 45, 168-78 | 3.5 | 55 |
| 111 | Marked acceleration of the metastatic phenotype of a rat bladder carcinoma cell line by the expression of human gelatinase A. <i>International Journal of Cancer</i> , 1995 , 63, 568-75 | 7.5 | 54 |
| 110 | Characterization of metalloproteinases and tissue inhibitors of metalloproteinases in human plasma. <i>Connective Tissue Research</i> , 1992 , 28, 213-30 | 3.3 | 53 |
| 109 | Matrix metalloproteinases and tissue inhibitors of metalloproteinases in bronchial squamous preinvasive lesions. <i>Human Pathology</i> , 2000 , 31, 296-305 | 3.7 | 51 |
| 108 | Pentosan polysulfate decreases proliferation and net extracellular matrix production in mouse mesangial cells. <i>Journal of the American Society of Nephrology: JASN</i> , 1999 , 10, 62-8 | 12.7 | 51 |
| 107 | Gelatinase A expression and localization in human breast cancers. An in situ hybridization study and immunohistochemical detection using confocal microscopy. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 1994 , 424, 641-5 | 5.1 | 48 |
| 106 | TIMP-2 modulates cancer cell transcriptional profile and enhances E-cadherin/beta-catenin complex expression in A549 lung cancer cells. <i>Oncotarget</i> , 2013 , 4, 166-76 | 3.3 | 48 |
| 105 | Genes involved in tumor invasion and metastasis are differentially modulated by estradiol and progesterin in human breast-cancer cells. <i>International Journal of Cancer</i> , 1992 , 52, 653-7 | 7.5 | 47 |
| 104 | Differentiation of cultured human melanoma cells induced by the aromatic fatty acids phenylacetate and phenylbutyrate. <i>Journal of Investigative Dermatology</i> , 1994 , 103, 335-40 | 4.3 | 45 |

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| 103 | Comparison of extracellular matrix antigens in subtypes of bronchioloalveolar carcinoma and conventional pulmonary adenocarcinoma. An immunohistochemical study. <i>American Journal of Surgical Pathology</i> , 1992 , 16, 675-86 | 6.7 | 45 |
| 102 | c-Abl Mediated Tyrosine Phosphorylation of Aha1 Activates Its Co-chaperone Function in Cancer Cells. <i>Cell Reports</i> , 2015 , 12, 1006-18 | 10.6 | 44 |
| 101 | Extraction of type-IV collagenase/gelatinase from plasma membranes of human cancer cells. <i>International Journal of Cancer</i> , 1990 , 45, 1137-42 | 7.5 | 44 |
| 100 | Mps1 Mediated Phosphorylation of Hsp90 Confers Renal Cell Carcinoma Sensitivity and Selectivity to Hsp90 Inhibitors. <i>Cell Reports</i> , 2016 , 14, 872-884 | 10.6 | 42 |
| 99 | Endogenous angiogenesis inhibitor blocks tumor growth via direct and indirect effects on tumor microenvironment. <i>American Journal of Pathology</i> , 2011 , 179, 2589-600 | 5.8 | 41 |
| 98 | Increased expression of tissue inhibitor of metalloproteinases type 1 (TIMP-1) in a more tumorigenic colon cancer cell line. <i>Journal of Pathology</i> , 2000 , 192, 455-9 | 9.4 | 41 |
| 97 | Posttranscriptional stimulation of endothelial cell matrix metalloproteinases 2 and 1 by endothelioma cells. <i>Experimental Cell Research</i> , 2000 , 258, 384-94 | 4.2 | 41 |
| 96 | Antagonism of VEGF-A-induced increase in vascular permeability by an integrin β ₁ -Shp-1-cAMP/PKA pathway. <i>Blood</i> , 2012 , 120, 4892-902 | 2.2 | 40 |
| 95 | TIMP-2 disrupts FGF-2-induced downstream signaling pathways. <i>Microvascular Research</i> , 2008 , 76, 145-51 | 3.7 | 40 |
| 94 | TIMP-2 upregulates RECK expression via dephosphorylation of paxillin tyrosine residues 31 and 118. <i>Oncogene</i> , 2006 , 25, 4230-4 | 9.2 | 40 |
| 93 | Identification of type IV collagenase in rat testicular cell culture: influence of peritubular-Sertoli cell interactions. <i>Biology of Reproduction</i> , 1990 , 43, 956-64 | 3.9 | 40 |
| 92 | The role of metalloproteinases and their inhibitors in hematological disorders. <i>Critical Reviews in Oncogenesis</i> , 1996 , 7, 205-25 | 1.3 | 40 |
| 91 | Proadrenomedullin NH2-terminal 20 peptide is a potent angiogenic factor, and its inhibition results in reduction of tumor growth. <i>Cancer Research</i> , 2004 , 64, 6489-94 | 10.1 | 39 |
| 90 | Tissue inhibitor of metalloproteinase 1 (TIMP-1) promotes plasmablastic differentiation of a Burkitt lymphoma cell line: implications in the pathogenesis of plasmacytic/plasmablastic tumors. <i>Blood</i> , 2005 , 105, 1660-8 | 2.2 | 39 |
| 89 | Tissue inhibitor of metalloproteinases 1 regulation of interleukin-10 in B-cell differentiation and lymphomagenesis. <i>Blood</i> , 2001 , 97, 1796-802 | 2.2 | 39 |
| 88 | Induction of tissue-type plasminogen activator and 72-kDa type-IV collagenase by ionizing radiation in rat astrocytes. <i>International Journal of Cancer</i> , 1994 , 56, 214-8 | 7.5 | 39 |
| 87 | TIMP-2 targets tumor-associated myeloid suppressor cells with effects in cancer immune dysfunction and angiogenesis. <i>Journal of Immunotherapy</i> , 2012 , 35, 502-12 | 5 | 38 |
| 86 | Monoclonal antibodies to type IV collagenase recognize a protein with limited sequence homology to interstitial collagenase and stromelysin. <i>FEBS Letters</i> , 1988 , 233, 109-13 | 3.8 | 38 |

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|----|--|------|----|
| 85 | TIMP-3 mRNA expression is regionally increased in moderately and poorly differentiated colorectal adenocarcinoma. <i>British Journal of Cancer</i> , 1997 , 75, 1678-83 | 8.7 | 34 |
| 84 | Inhibition of human type IV collagenase by a highly conserved peptide sequence derived from its prosegment. <i>American Journal of the Medical Sciences</i> , 1991 , 302, 163-70 | 2.2 | 34 |
| 83 | Novel anti-filamin-A antibody detects a secreted variant of filamin-A in plasma from patients with breast carcinoma and high-grade astrocytoma. <i>Cancer Science</i> , 2009 , 100, 1748-56 | 6.9 | 33 |
| 82 | Tissue inhibitor of metalloproteinase-2 (TIMP-2) mRNA is constitutively expressed in bovine, human normal, and osteoarthritic articular chondrocytes. <i>Journal of Cellular Biochemistry</i> , 1996 , 60, 211-7 | 4.7 | 33 |
| 81 | Plasma assay of matrix metalloproteinases (MMPs) and MMP-inhibitor complexes in cancer. Potential use in predicting metastasis and monitoring treatment. <i>Annals of the New York Academy of Sciences</i> , 1994 , 732, 248-62 | 6.5 | 33 |
| 80 | Gelatinase A (MMP-2) and its mRNA detected in both neoplastic and stromal cells of tumors with different invasive and metastatic properties. <i>Diagnostic Molecular Pathology</i> , 1994 , 3, 163-9 | | 33 |
| 79 | Cloning of murine membrane-type-1-matrix metalloproteinase (MT-1-MMP) and its metanephric developmental regulation with respect to MMP-2 and its inhibitor. <i>Kidney International</i> , 1998 , 54, 131-142 | 8.9 | 32 |
| 78 | Tissue inhibitor of metalloproteinase-2 induces apoptosis in human T lymphocytes. <i>Annals of the New York Academy of Sciences</i> , 1999 , 878, 522-3 | 6.5 | 32 |
| 77 | HIV-1 infection stimulates T cell invasiveness and synthesis of the 92-kDa type IV collagenase. <i>AIDS Research and Human Retroviruses</i> , 1993 , 9, 513-8 | 1.6 | 31 |
| 76 | 72-kDa Gelatinase (Gelatinase A): Structure, Activation, Regulation, and Substrate Specificity 1998 , 85-113 | | 31 |
| 75 | Matrix metalloproteinases. <i>Current Protocols in Cell Biology</i> , 2008 , Chapter 10, Unit 10.8 | 2.3 | 29 |
| 74 | Inhibition of matrix metalloproteinases by over-expression of tissue inhibitor of metalloproteinase-2 inhibits the growth of experimental hemangiomas. <i>International Journal of Cancer</i> , 2001 , 91, 241-7 | 7.5 | 27 |
| 73 | An integrin-binding N-terminal peptide region of TIMP-2 retains potent angio-inhibitory and anti-tumorigenic activity in vivo. <i>Peptides</i> , 2011 , 32, 1840-8 | 3.8 | 26 |
| 72 | TGF-beta signaling preserves RECK expression in activated pancreatic stellate cells. <i>Journal of Cellular Biochemistry</i> , 2008 , 104, 1065-74 | 4.7 | 26 |
| 71 | Modulation of tumor-host interactions, angiogenesis, and tumor growth by tissue inhibitor of metalloproteinase 2 via a novel mechanism. <i>Cancer Research</i> , 2004 , 64, 4481-6 | 10.1 | 26 |
| 70 | Matrix metalloproteinases and their tissue inhibitors in the lesions of cardiac and pulmonary sarcoidosis: an immunohistochemical study. <i>Human Pathology</i> , 2002 , 33, 1158-64 | 3.7 | 25 |
| 69 | Co-chaperones TIMP2 and AHA1 Competitively Regulate Extracellular HSP90:Client MMP2 Activity and Matrix Proteolysis. <i>Cell Reports</i> , 2019 , 28, 1894-1906.e6 | 10.6 | 24 |
| 68 | Human cardiac fibroblast extracellular matrix remodeling: dual effects of tissue inhibitor of metalloproteinase-2. <i>Cardiovascular Pathology</i> , 2014 , 23, 335-43 | 3.8 | 24 |

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| 67 | Normalization of the tumor microenvironment: evidence for tissue inhibitor of metalloproteinase-2 as a cancer therapeutic. <i>Connective Tissue Research</i> , 2014 , 55, 13-9 | 3.3 | 24 |
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