

Kaoru Miyazaki

List of Publications by Year in descending order

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93
papers

5,965
citations

71061

41
h-index

74108

75
g-index

94
all docs

94
docs citations

94
times ranked

5966
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | A simplified laminin nomenclature. <i>Matrix Biology</i> , 2005, 24, 326-332. | 1.5 | 760 |
| 2 | Role of Cell Surface Metalloprotease Mt1-Mmp in Epithelial Cell Migration over Laminin-5. <i>Journal of Cell Biology</i> , 2000, 148, 615-624. | 2.3 | 596 |
| 3 | Matrix metalloproteinases and tissue inhibitors of metalloproteinases in human gliomas. <i>Journal of Neurosurgery</i> , 1995, 83, 298-307. | 0.9 | 207 |
| 4 | Expression of Trypsin by Epithelial Cells of Various Tissues, Leukocytes, and Neurons in Human and Mouse. <i>American Journal of Pathology</i> , 1998, 153, 937-944. | 1.9 | 189 |
| 5 | A metalloproteinase inhibitor domain in Alzheimer amyloid protein precursor. <i>Nature</i> , 1993, 362, 839-841. | 13.7 | 174 |
| 6 | Laminin-5 (laminin-332): Unique biological activity and role in tumor growth and invasion. <i>Cancer Science</i> , 2006, 97, 91-98. | 1.7 | 159 |
| 7 | N-Acetylglucosaminyltransferase III Antagonizes the Effect of N-Acetylglucosaminyltransferase V on $\alpha 3 \beta 1$ Integrin-mediated Cell Migration. <i>Journal of Biological Chemistry</i> , 2006, 281, 32122-32130. | 1.6 | 129 |
| 8 | Deletion of Core Fucosylation on $\alpha 3 \beta 1$ Integrin Down-regulates Its Functions. <i>Journal of Biological Chemistry</i> , 2006, 281, 38343-38350. | 1.6 | 123 |
| 9 | Identification of proteins released by pancreatic cancer cells by multidimensional protein identification technology: a strategy for identification of novel cancer markers. <i>FASEB Journal</i> , 2005, 19, 1125-1127. | 0.2 | 122 |
| 10 | In vivo anti-tumor activity of arginine deiminase purified from <i>Mycoplasma arginini</i> . <i>International Journal of Cancer</i> , 1992, 51, 244-249. | 2.3 | 119 |
| 11 | Marked Stimulation of Cell Adhesion and Motility by Ladsin, a Laminin-Like Scatter Factor 1. <i>Journal of Biochemistry</i> , 1994, 116, 862-869. | 0.9 | 111 |
| 12 | Trypsin Stimulates Integrin $\alpha 5 \beta 1$ -dependent Adhesion to Fibronectin and Proliferation of Human Gastric Carcinoma Cells through Activation of Proteinase-activated Receptor-2. <i>Journal of Biological Chemistry</i> , 2000, 275, 4592-4598. | 1.6 | 103 |
| 13 | Regulation of melanoma cell migration and invasion by laminin-5 and $\alpha 3 \beta 1$ integrin (VLA-3). <i>Clinical and Experimental Metastasis</i> , 2002, 19, 127-134. | 1.7 | 102 |
| 14 | Matrilysin (MMP-7) induces homotypic adhesion of human colon cancer cells and enhances their metastatic potential in nude mouse model. <i>Oncogene</i> , 2003, 22, 8662-8670. | 2.6 | 97 |
| 15 | Matriptase activates stromelysin (MMP-3) and promotes tumor growth and angiogenesis. <i>Cancer Science</i> , 2006, 97, 1327-1334. | 1.7 | 89 |
| 16 | The Short Arm of Laminin $\beta 2$ Chain of Laminin-5 (Laminin-332) Binds Syndecan-1 and Regulates Cellular Adhesion and Migration by Suppressing Phosphorylation of Integrin $\beta 4$ Chain. <i>Molecular Biology of the Cell</i> , 2007, 18, 1621-1633. | 0.9 | 89 |
| 17 | Anti-tumor Activity of Arginine Deiminase from <i>Mycoplasma arginini</i> and Its Growth-inhibitory Mechanism. <i>Japanese Journal of Cancer Research</i> , 1995, 86, 840-846. | 1.7 | 88 |
| 18 | Expression of trypsin in vascular endothelial cells. <i>FEBS Letters</i> , 1997, 409, 442-448. | 1.3 | 83 |

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|----|--|-----|-----------|
| 19 | 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, 462-470. | 0.9 | 80 |
| 20 | Reversible Regulation of Tissue Factor-Induced Coagulation by Glycosyl Phosphatidylinositol-Anchored Tissue Factor Pathway Inhibitor. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2000, 20, 874-882. | 1.1 | 80 |
| 21 | Plasma-membrane-associated sialidase (NEU3) differentially regulates integrin-mediated cell proliferation through laminin- and fibronectin-derived signalling. <i>Biochemical Journal</i> , 2006, 394, 647-656. | 1.7 | 80 |
| 22 | Wide Distribution of Laminin-5 β 2 Chain in Basement Membranes of Various Human Tissues. <i>Hormone Research in Paediatrics</i> , 1998, 50, 7-14. | 0.8 | 79 |
| 23 | Matrilysin-specific antisense oligonucleotide inhibits liver metastasis of human colon cancer cells in a nude mouse model. , 1998, 76, 812-816. | | 76 |
| 24 | Trypsinogen expression in human ovarian carcinomas. <i>International Journal of Cancer</i> , 1995, 63, 176-181. | 2.3 | 72 |
| 25 | Structural Requirement of Carboxyl-terminal Globular Domains of Laminin β 3 Chain for Promotion of Rapid Cell Adhesion and Migration by Laminin-5. <i>Journal of Biological Chemistry</i> , 2000, 275, 22495-22502. | 1.6 | 70 |
| 26 | Isolation and Activity of Proteolytic Fragment of Laminin-5 β 3 Chain. <i>Biochemical and Biophysical Research Communications</i> , 2000, 278, 614-620. | 1.0 | 70 |
| 27 | The association of the tetraspanin D6.1A with the β 6 γ 4 integrin supports cell motility and liver metastasis formation. <i>Journal of Cell Science</i> , 2003, 116, 4373-4390. | 1.2 | 70 |
| 28 | Cancer cell migration on elongate protrusions of fibroblasts in collagen matrix. <i>Scientific Reports</i> , 2019, 9, 292. | 1.6 | 65 |
| 29 | MMP-7 (matrilysin) accelerated growth of human umbilical vein endothelial cells. <i>Cancer Letters</i> , 2002, 177, 95-100. | 3.2 | 62 |
| 30 | Epithelial-Mesenchymal Transition Stimulates Human Cancer Cells to Extend Microtubule-based Invasive Protrusions and Suppresses Cell Growth in Collagen Gel. <i>PLoS ONE</i> , 2012, 7, e53209. | 1.1 | 60 |
| 31 | Regulation of Proliferation and Chondrogenic Differentiation of Human Mesenchymal Stem Cells by Laminin-5 (Laminin-332). <i>Stem Cells</i> , 2006, 24, 2346-2354. | 1.4 | 59 |
| 32 | The basement membrane protein laminin-5 acts as a soluble cell motility factor. <i>Experimental Cell Research</i> , 2004, 297, 508-520. | 1.2 | 57 |
| 33 | Expression of matrilysin in vascular endothelial cells adjacent to matrilysin-producing tumors. <i>International Journal of Cancer</i> , 1997, 72, 441-445. | 2.3 | 56 |
| 34 | Sole Expression of Laminin β 3 Chain in Invading Tumor Cells and Its Association with Stromal Fibrosis in Lung Adenocarcinomas. <i>Japanese Journal of Cancer Research</i> , 2001, 92, 184-192. | 1.7 | 50 |
| 35 | Strong suppression of tumor growth by insulin-like growth factor-binding protein-related protein 1/tumor-derived cell adhesion factor/mac25. <i>Cancer Science</i> , 2007, 98, 1055-1063. | 1.7 | 48 |
| 36 | Matrilysin stimulates DNA synthesis of cultured vascular endothelial cells and induces angiogenesis in vivo. <i>Cancer Letters</i> , 2001, 173, 175-182. | 3.2 | 47 |

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|----|--|-----|-----------|
| 37 | cDNA cloning of a novel trypsin inhibitor with similarity to pathogenesis-related proteins, and its frequent expression in human brain cancer cells. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1998, 1395, 202-208. | 2.4 | 45 |
| 38 | Efficient Purification of TIMP-2 from Culture Medium Conditioned by Human Hepatoma Cell Line, and Its Inhibitory Effects on Metalloproteinases and In Vitro Tumor Invasion. <i>Journal of Biochemistry</i> , 1991, 110, 189-195. | 0.9 | 44 |
| 39 | Expression of angiomodulin (tumor-derived adhesion factor/mac25) in invading tumor cells correlates with poor prognosis in human colorectal cancer. <i>International Journal of Cancer</i> , 2001, 95, 216-222. | 2.3 | 44 |
| 40 | Expression of Serine Proteinase Inhibitor PP5/TFPI-2/MSPI Decreases the Invasive Potential of Human Choriocarcinoma Cells in Vitro and in Vivo. <i>Gynecologic Oncology</i> , 2001, 83, 325-333. | 0.6 | 44 |
| 41 | Efficient Expression System of Human Recombinant Laminin-5. <i>Journal of Biochemistry</i> , 2002, 132, 607-612. | 0.9 | 44 |
| 42 | Proteolytic processing of IGFBP-related protein-1 (TAF/angiomodulin/mac25) modulates its biological activity. <i>Biochemical and Biophysical Research Communications</i> , 2003, 310, 612-618. | 1.0 | 44 |
| 43 | Identification of cell-binding site of angiomodulin (AGM/TAF/Mac25) that interacts with heparan sulfates on cell surface. <i>Journal of Cellular Biochemistry</i> , 1999, 75, 187-195. | 1.2 | 43 |
| 44 | Stimulation of cellular growth and adhesion to fibronectin and vitronectin in culture and tumorigenicity in nude mice by overexpression of trypsinogen in human gastric cancer cells. <i>Clinical and Experimental Metastasis</i> , 1998, 16, 613-621. | 1.7 | 41 |
| 45 | Binding of Active Matrilysin to Cell Surface Cholesterol Sulfate Is Essential for Its Membrane-associated Proteolytic Action and Induction of Homotypic Cell Adhesion. <i>Journal of Biological Chemistry</i> , 2006, 281, 9170-9180. | 1.6 | 40 |
| 46 | The role of the tetraspanin CD151 in primary keratinocyte and fibroblast functions: Implications for wound healing. <i>Experimental Cell Research</i> , 2008, 314, 2165-2175. | 1.2 | 39 |
| 47 | Identification of membrane-bound serine proteinase matriptase as processing enzyme of insulin-like growth factor binding protein-related protein-1 (IGFBP-rP1/angiomodulin/mac25). <i>FEBS Journal</i> , 2006, 273, 615-627. | 2.2 | 38 |
| 48 | Ly6 family member C4.4A binds laminins 1 and 5, associates with galectin-3 and supports cell migration. <i>International Journal of Cancer</i> , 2005, 115, 724-733. | 2.3 | 37 |
| 49 | Matrilysin gene expression in sporadic and familial colorectal adenomas. <i>Molecular Carcinogenesis</i> , 1997, 19, 225-229. | 1.3 | 36 |
| 50 | Differential regulation of cellular adhesion and migration by recombinant laminin-5 forms with partial deletion or mutation within the G3 domain of β 3 chain. <i>Journal of Cellular Biochemistry</i> , 2003, 88, 506-520. | 1.2 | 36 |
| 51 | Chemical Modification by Polyethylene Glycol of the Anti-tumor Enzyme Arginine Deiminase from <i>Mycoplasma arginini</i> . <i>Japanese Journal of Cancer Research</i> , 1993, 84, 1195-1200. | 1.7 | 34 |
| 52 | Structural Requirements of Heparan Sulfate for the Binding to the Tumor-derived Adhesion Factor/Angiomodulin That Induces Cord-like Structures to ECV-304 Human Carcinoma Cells. <i>Journal of Biological Chemistry</i> , 2000, 275, 15321-15329. | 1.6 | 34 |
| 53 | Laminin-6 Is Activated by Proteolytic Processing and Regulates Cellular Adhesion and Migration Differently from Laminin-5. <i>Journal of Biological Chemistry</i> , 2002, 277, 49287-49295. | 1.6 | 34 |
| 54 | Regulation of Biological Activity and Matrix Assembly of Laminin-5 by COOH-terminal, LG4 β 5 Domain of β 3 Chain. <i>Journal of Biological Chemistry</i> , 2005, 280, 14370-14377. | 1.6 | 34 |

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|----|---|-----|-----------|
| 55 | Characterization of Laminin 5B and NH ₂ -terminal Proteolytic Fragment of Its β 3 Chain. <i>Journal of Biological Chemistry</i> , 2004, 279, 24774-24784. | 1.6 | 32 |
| 56 | Matrilysin (MMP-7) cleaves C-type lectin domain family 3 member A (CLEC3A) on tumor cell surface and modulates its cell adhesion activity. <i>Journal of Cellular Biochemistry</i> , 2009, 106, 693-702. | 1.2 | 32 |
| 57 | TRPM5 mediates acidic extracellular pH signaling and TRPM5 inhibition reduces spontaneous metastasis in mouse B16-BL6 melanoma cells. <i>Oncotarget</i> , 2017, 8, 78312-78326. | 0.8 | 32 |
| 58 | Regulation of Cell Adhesion and Type VII Collagen Binding by the β 3 Chain Short Arm of Laminin-5: Effect of Its Proteolytic Cleavage. <i>Journal of Biochemistry</i> , 2005, 138, 539-552. | 0.9 | 31 |
| 59 | Purification and Properties of Extracellular Matrix-Degrading Metallo-Proteinase Overproduced by Rous Sarcoma Virus-Transformed Rat Liver Cell Line, and Its Identification as Transin1. <i>Journal of Biochemistry</i> , 1990, 108, 537-543. | 0.9 | 30 |
| 60 | Inhibition of transforming growth factor- β signaling potentiates tumor cell invasion into collagen matrix induced by fibroblast-derived hepatocyte growth factor. <i>Experimental Cell Research</i> , 2014, 326, 267-279. | 1.2 | 30 |
| 61 | Regulation of biological activity of laminin-5 by proteolytic processing of β 2 chain. <i>Journal of Cellular Biochemistry</i> , 2004, 92, 701-714. | 1.2 | 29 |
| 62 | Production of soluble matrilysin by human cancer cell lines and cell surface activation of its zymogen by trypsin. <i>Journal of Cellular Biochemistry</i> , 2005, 95, 632-647. | 1.2 | 27 |
| 63 | Expression of laminin β 2 chain monomer enhances invasive growth of human carcinoma cells <i>in vivo</i> . <i>International Journal of Cancer</i> , 2010, 127, 2031-2041. | 2.3 | 27 |
| 64 | Polymerized Laminin-332 Matrix Supports Rapid and Tight Adhesion of Keratinocytes, Suppressing Cell Migration. <i>PLoS ONE</i> , 2012, 7, e35546. | 1.1 | 27 |
| 65 | Angiomodulin, a marker of cancer vasculature, is upregulated by vascular endothelial growth factor and increases vascular permeability as a ligand of integrin α 5 β 3. <i>Cancer Medicine</i> , 2014, 3, 537-549. | 1.3 | 26 |
| 66 | Identification of Amino Acid Residues of Matrix Metalloproteinase-7 Essential for Binding to Cholesterol Sulfate. <i>Journal of Biological Chemistry</i> , 2008, 283, 35735-35744. | 1.6 | 25 |
| 67 | Stimulation of endothelial cell migration in culture by ladsin, a laminin-5-like cell adhesion protein. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 1996, 32, 46-52. | 0.7 | 24 |
| 68 | Matrilysin as a target for chemotherapy for colon cancer: use of antisense oligonucleotides as antimetastatic agents. <i>Cancer Chemotherapy and Pharmacology</i> , 1999, 43, S52-S55. | 1.1 | 24 |
| 69 | Differential Expression of Trypsin in Human Ovarian Carcinomas and Low-Malignant-Potential Tumors. <i>Gynecologic Oncology</i> , 1998, 68, 162-165. | 0.6 | 23 |
| 70 | Cholesterol Sulfate Alters Substrate Preference of Matrix Metalloproteinase-7 and Promotes Degradations of Pericellular Laminin-332 and Fibronectin. <i>Journal of Biological Chemistry</i> , 2010, 285, 28862-28873. | 1.6 | 21 |
| 71 | Vitronectin secretion by hepatic and non-hepatic human cancer cells. <i>In Vitro Cellular & Developmental Biology</i> , 1993, 29, 403-407. | 1.0 | 19 |
| 72 | SLOW INDUCTION OF GELATINASE B mRNA BY ACIDIC CULTURE CONDITIONS IN MOUSE METASTATIC MELANOMA CELLS. <i>Cell Biology International</i> , 1996, 20, 375-377. | 1.4 | 19 |

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|----|--|-----|-----------|
| 73 | Localization of laminin β 3B chain in vascular and epithelial basement membranes of normal human tissues and its down-regulation in skin cancers. <i>Journal of Molecular Histology</i> , 2008, 39, 435-446. | 1.0 | 19 |
| 74 | Collective cancer cell invasion in contact with fibroblasts through integrin α 5 β 1/fibronectin interaction in collagen matrix. <i>Cancer Science</i> , 2020, 111, 4381-4392. | 1.7 | 19 |
| 75 | Matrilysin (matrix metalloproteinase-7) cleaves membrane-bound annexin II and enhances binding of tissue-type plasminogen activator to cancer cell surfaces. <i>FEBS Journal</i> , 2008, 275, 4810-4823. | 2.2 | 18 |
| 76 | Elevated expression of angiomodulin (AGM/IGFBP-1) in tumor stroma and its roles in fibroblast activation. <i>Cancer Science</i> , 2012, 103, 691-699. | 1.7 | 18 |
| 77 | Immunohistochemical distribution of laminin-5 gamma2 chain and its developmental change in human embryonic and foetal tissues. <i>The Histochemical Journal</i> , 2001, 33, 629-637. | 0.6 | 17 |
| 78 | Inhibitory effect of matrilysin antisense oligonucleotides on human colon cancer cell invasion in vitro. <i>Molecular Carcinogenesis</i> , 1998, 22, 57-63. | 1.3 | 16 |
| 79 | Production of recombinant human matrix metalloproteinase 7 (Matrilysin) with potential role in tumor invasion by refolding from Escherichia coli inclusion bodies and development of sandwich ELISA of MMP-7. <i>Urologic Oncology: Seminars and Original Investigations</i> , 1996, 2, 20-26. | 0.8 | 15 |
| 80 | Expression of Laminin-5 Enhances Tumorigenicity of Human Fibrosarcoma Cells in Nude Mice. <i>Japanese Journal of Cancer Research</i> , 2002, 93, 652-659. | 1.7 | 15 |
| 81 | High production of SPARC/osteonectin/BM-40 in mouse metastatic B16 melanoma cell lines. <i>Pathology and Oncology Research</i> , 2000, 6, 24-26. | 0.9 | 14 |
| 82 | Amino-terminal fragments of laminin β 2 chain retract vascular endothelial cells and increase vascular permeability. <i>Cancer Science</i> , 2014, 105, 168-175. | 1.7 | 13 |
| 83 | Modulation of matrix metalloproteinase-9 secretion from tumor-associated macrophage-like cells by proteolytically processed laminin-332 (laminin-5). <i>Clinical and Experimental Metastasis</i> , 2014, 31, 285-291. | 1.7 | 12 |
| 84 | Inhibition of sea urchin fertilization by jaspisin, a specific inhibitor of matrix metalloendoproteinase. <i>Development Growth and Differentiation</i> , 1998, 40, 221-230. | 0.6 | 11 |
| 85 | Laminin-3B11, a Novel Vascular-type Laminin Capable of Inducing Prominent Lamellipodial Protrusions in Microvascular Endothelial Cells. <i>Journal of Biological Chemistry</i> , 2010, 285, 35068-35078. | 1.6 | 11 |
| 86 | Laminin-5 suppresses chondrogenic differentiation of murine teratocarcinoma cell line ATDC5. <i>Experimental Cell Research</i> , 2005, 310, 256-269. | 1.2 | 10 |
| 87 | Pericellular proteolysis by matrix metalloproteinase-7 is differentially modulated by cholesterol sulfate, sulfatide, and cardiolipin. <i>FEBS Journal</i> , 2014, 281, 3346-3356. | 2.2 | 10 |
| 88 | Amino-terminal fragments of laminin β 2 chain stimulate migration of metastatic breast cancer cells by interacting with CD44. <i>Clinical and Experimental Metastasis</i> , 2015, 32, 405-415. | 1.7 | 10 |
| 89 | The β 3 chain short arm of laminin-332 (laminin-5) induces matrix assembly and cell adhesion activity of laminin-511 (laminin-10). <i>Journal of Cellular Biochemistry</i> , 2007, 100, 545-556. | 1.2 | 9 |
| 90 | Downregulation of a newly identified laminin, laminin-3B11, in vascular basement membranes of invasive human breast cancers. <i>Cancer Science</i> , 2011, 102, 1095-1100. | 1.7 | 9 |

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| 91 | Highly sensitive detection of invasive lung cancer cells by novel antibody against amino-terminal domain of laminin β 2 chain. <i>Cancer Science</i> , 2016, 107, 1909-1918. | 1.7 | 9 |
| 92 | Analyses of matrix-degrading proteinases and their inhibitors by highly sensitive zymography and reverse zymography: Their application to study of tumor metastasis.. <i>Seibutsu Butsuri Kagaku</i> , 1998, 42, 87-92. | 0.1 | 0 |
| 93 | Studies on mechanism of tumor metastasis with special attention to matrix proteinases and cell adhesion proteins. Functions of matrilysin, trypsin and laminin-5.. <i>Seibutsu Butsuri Kagaku</i> , 1999, 43, 63-67. | 0.1 | 0 |