

# Kaoru Miyazaki

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3751071/publications.pdf>

Version: 2024-02-01

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	Collective cancer cell invasion in contact with fibroblasts through integrin $\alpha$ 5 $\beta$ 1/fibronectin interaction in collagen matrix. <i>Cancer Science</i> , 2020, 111, 4381-4392.	1.7	19
2	Cancer cell migration on elongate protrusions of fibroblasts in collagen matrix. <i>Scientific Reports</i> , 2019, 9, 292.	1.6	65
3	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
4	Highly sensitive detection of invasive lung cancer cells by novel antibody against amino-terminal domain of laminin $\beta$ 2 chain. <i>Cancer Science</i> , 2016, 107, 1909-1918.	1.7	9
5	Amino-terminal fragments of laminin $\beta$ 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
6	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
7	Angiomodulin, a marker of cancer vasculature, is upregulated by vascular endothelial growth factor and increases vascular permeability as a ligand of integrin $\alpha$ 1 $\beta$ 3. <i>Cancer Medicine</i> , 2014, 3, 537-549.	1.3	26
8	Amino-terminal fragments of laminin $\beta$ 2 chain retract vascular endothelial cells and increase vascular permeability. <i>Cancer Science</i> , 2014, 105, 168-175.	1.7	13
9	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
10	Inhibition of transforming growth factor- $\beta$ 2 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
11	Polymerized Laminin-332 Matrix Supports Rapid and Tight Adhesion of Keratinocytes, Suppressing Cell Migration. <i>PLoS ONE</i> , 2012, 7, e35546.	1.1	27
12	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
13	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
14	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
15	Expression of laminin $\beta$ 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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Localization of laminin $\beta$ 3 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
20	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
21	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
22	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
23	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
24	The $\beta$ 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
25	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
26	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
27	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
28	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
29	Matriptase activates stromelysin (MMP-3) and promotes tumor growth and angiogenesis. <i>Cancer Science</i> , 2006, 97, 1327-1334.	1.7	89
30	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
31	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
32	Deletion of Core Fucosylation on $\beta$ 1 Integrin Down-regulates Its Functions. <i>Journal of Biological Chemistry</i> , 2006, 281, 38343-38350.	1.6	123
33	N-Acetylglucosaminyltransferase III Antagonizes the Effect of N-Acetylglucosaminyltransferase V on $\beta$ 1 Integrin-mediated Cell Migration. <i>Journal of Biological Chemistry</i> , 2006, 281, 32122-32130.	1.6	129
34	Production of soluble matriptase 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
35	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
36	Regulation of Cell Adhesion and Type VII Collagen Binding by the $\beta$ 3 Chain Short Arm of Laminin-5: Effect of Its Proteolytic Cleavage. <i>Journal of Biochemistry</i> , 2005, 138, 539-552.	0.9	31

#	ARTICLE	IF	CITATIONS
37	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
38	Regulation of Biological Activity and Matrix Assembly of Laminin-5 by COOH-terminal, LG4 $\alpha$ 5 Domain of $\beta$ 3 Chain. <i>Journal of Biological Chemistry</i> , 2005, 280, 14370-14377.	1.6	34
39	Laminin-5 suppresses chondrogenic differentiation of murine teratocarcinoma cell line ATDC5. <i>Experimental Cell Research</i> , 2005, 310, 256-269.	1.2	10
40	A simplified laminin nomenclature. <i>Matrix Biology</i> , 2005, 24, 326-332.	1.5	760
41	Characterization of Laminin 5B and NH2-terminal Proteolytic Fragment of Its $\beta$ 3 Chain. <i>Journal of Biological Chemistry</i> , 2004, 279, 24774-24784.	1.6	32
42	Regulation of biological activity of laminin-5 by proteolytic processing of $\beta$ 2 chain. <i>Journal of Cellular Biochemistry</i> , 2004, 92, 701-714.	1.2	29
43	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
44	Differential regulation of cellular adhesion and migration by recombinant laminin-5 forms with partial deletion or mutation within the G3 domain of $\beta$ 3 chain. <i>Journal of Cellular Biochemistry</i> , 2003, 88, 506-520.	1.2	36
45	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
46	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
47	The association of the tetraspanin D6.1A with the $\beta$ 6 $\beta$ 4 integrin supports cell motility and liver metastasis formation. <i>Journal of Cell Science</i> , 2003, 116, 4373-4390.	1.2	70
48	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
49	Efficient Expression System of Human Recombinant Laminin-5. <i>Journal of Biochemistry</i> , 2002, 132, 607-612.	0.9	44
50	MMP-7 (matrilysin) accelerated growth of human umbilical vein endothelial cells. <i>Cancer Letters</i> , 2002, 177, 95-100.	3.2	62
51	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
52	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
53	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
54	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

#	ARTICLE	IF	CITATIONS
55	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
56	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
57	Sole Expression of Laminin $\beta$ 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
58	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
59	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
60	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
61	Structural Requirement of Carboxyl-terminal Globular Domains of Laminin $\beta$ 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
62	Reversible Regulation of Tissue Factor $\alpha$ 1-Induced Coagulation by Glycosyl Phosphatidylinositol $\alpha$ 1-Anchored Tissue Factor Pathway Inhibitor. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2000, 20, 874-882.	1.1	80
63	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
64	Isolation and Activity of Proteolytic Fragment of Laminin-5 $\beta$ 3 Chain. <i>Biochemical and Biophysical Research Communications</i> , 2000, 278, 614-620.	1.0	70
65	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
66	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
67	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
68	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
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	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
71	Matrilysin-specific antisense oligonucleotide inhibits liver metastasis of human colon cancer cells in a nude mouse model. , 1998, 76, 812-816.		76
72	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

#	ARTICLE	IF	CITATIONS
73	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
74	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
75	Wide Distribution of Laminin-5 $\beta$ 2 Chain in Basement Membranes of Various Human Tissues. <i>Hormone Research in Paediatrics</i> , 1998, 50, 7-14.	0.8	79
76	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
77	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
78	Expression of trypsin in vascular endothelial cells. <i>FEBS Letters</i> , 1997, 409, 442-448.	1.3	83
79	Matrilysin gene expression in sporadic and familial colorectal adenomas. <i>Molecular Carcinogenesis</i> , 1997, 19, 225-229.	1.3	36
80	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
81	Production of recombinant human matrix metalloproteinase 7 (Matrilysin) with potential role in tumor invasion by refolding from <i>Escherichia coli</i> 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
82	Stimulation of endothelial cell migration in culture by ladsin, a laminin-5-like cell adhesion protein. In <i>In Vitro Cellular and Developmental Biology - Animal</i> , 1996, 32, 46-52.	0.7	24
83	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
84	Trypsinogen expression in human ovarian carcinomas. <i>International Journal of Cancer</i> , 1995, 63, 176-181.	2.3	72
85	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
86	Matrix metalloproteinases and tissue inhibitors of metalloproteinases in human gliomas. <i>Journal of Neurosurgery</i> , 1995, 83, 298-307.	0.9	207
87	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
88	A metalloproteinase inhibitor domain in Alzheimer amyloid protein precursor. <i>Nature</i> , 1993, 362, 839-841.	13.7	174
89	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
90	Vitronectin secretion by hepatic and non-hepatic human cancer cells. <i>In Vitro Cellular &amp; Developmental Biology</i> , 1993, 29, 403-407.	1.0	19

#	ARTICLE	IF	CITATIONS
91	In vivo anti-tumor activity of arginine deiminase purified from <i>Mycoplasma arginini</i> . International Journal of Cancer, 1992, 51, 244-249.	2.3	119
92	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 <sup>1</sup> . Journal of Biochemistry, 1991, 110, 189-195.	0.9	44
93	Purification and Properties of Extracellular Matrix-Degrading Metallo-Proteinase Overproduced by Rous Sarcoma Virus-Transformed Rat Liver Cell Line, and Its Identification as Transin <sup>1</sup> . Journal of Biochemistry, 1990, 108, 537-543.	0.9	30