

# Yoshifumi Itoh

## List of Publications by Year in descending order

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82  
papers

7,927  
citations

71061

41  
h-index

79644

73  
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85  
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85  
docs citations

85  
times ranked

7920  
citing authors

#	ARTICLE	IF	CITATIONS
1	Endosomal TLR3 signaling in stromal osteoblasts induces prostaglandin E <sub>2</sub> -mediated inflammatory periodontal bone resorption. <i>Journal of Biological Chemistry</i> , 2022, 298, 101603.	1.6	5
2	Coordination of two kinesin superfamily motor proteins, KIF3A and KIF13A, is essential for pericellular matrix degradation by membrane-type 1 matrix metalloproteinase (MT1-MMP) in cancer cells. <i>Matrix Biology</i> , 2022, 107, 1-23.	1.5	7
3	A common SNP risk variant MT1-MMP causative for Dupuytren's disease has a specific defect in collagenolytic activity. <i>Matrix Biology</i> , 2021, 97, 20-39.	1.5	8
4	Gram-positive bacteria cell wall-derived lipoteichoic acid induces inflammatory alveolar bone loss through prostaglandin E production in osteoblasts. <i>Scientific Reports</i> , 2021, 11, 13353.	1.6	18
5	Modulation of Microenvironment Signals by Proteolytic Shedding of Cell Surface Extracellular Matrix Receptors. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 736735.	1.8	4
6	Alpha-2-Macroglobulin in Inflammation, Immunity and Infections. <i>Frontiers in Immunology</i> , 2021, 12, 803244.	2.2	86
7	Autofluorescence Lifetime Reports Cartilage Damage in Osteoarthritis. <i>Scientific Reports</i> , 2020, 10, 2154.	1.6	11
8	Hypergravity and microgravity exhibited reversal effects on the bone and muscle mass in mice. <i>Scientific Reports</i> , 2019, 9, 6614.	1.6	51
9	MT1-MMP-dependent cell migration: proteolytic and non-proteolytic mechanisms. <i>Biochemical Society Transactions</i> , 2019, 47, 811-826.	1.6	70
10	Design, synthesis and biological evaluation of bifunctional inhibitors of membrane type 1 matrix metalloproteinase (MT1-MMP). <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 196-207.	1.4	9
11	Epithelial polarization in 3D matrix requires DDR1 signaling to regulate actomyosin contractility. <i>Life Science Alliance</i> , 2019, 2, e201800276.	1.3	6
12	Discoidin domain receptors: Microenvironment sensors that promote cellular migration and invasion. <i>Cell Adhesion and Migration</i> , 2018, 12, 1-8.	1.1	34
13	Highly sensitive and adaptable fluorescence-quenched pair discloses the substrate specificity profiles in diverse protease families. <i>Scientific Reports</i> , 2017, 7, 43135.	1.6	51
14	Discoidin domain receptor 2 mediates collagen-induced activation of membrane-type 1 matrix metalloproteinase in human fibroblasts. <i>Journal of Biological Chemistry</i> , 2017, 292, 6633-6643.	1.6	31
15	Inhibition of Shedding of Low-Density Lipoprotein Receptor-Related Protein 1 Reverses Cartilage Matrix Degradation in Osteoarthritis. <i>Arthritis and Rheumatology</i> , 2017, 69, 1246-1256.	2.9	43
16	Metalloproteinases in Rheumatoid Arthritis: Potential Therapeutic Targets to Improve Current Therapies. <i>Progress in Molecular Biology and Translational Science</i> , 2017, 148, 327-338.	0.9	59
17	Selective Inhibition of Membrane Type 1 Matrix Metalloproteinase Abrogates Progression of Experimental Inflammatory Arthritis: Synergy With Tumor Necrosis Factor Blockade. <i>Arthritis and Rheumatology</i> , 2016, 68, 521-531.	2.9	41
18	Development of a specific affinity-matured exosite inhibitor to MT1-MMP that efficiently inhibits tumor cell invasion <i>in vitro</i> and metastasis <i>in vivo</i> . <i>Oncotarget</i> , 2016, 7, 16773-16792.	0.8	36

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19	ADAM10 controls collagen signaling and cell migration on collagen by shedding the ectodomain of discoidin domain receptor 1 (DDR1). <i>Molecular Biology of the Cell</i> , 2015, 26, 659-673.	0.9	41
20	Membrane-type matrix metalloproteinases: Their functions and regulations. <i>Matrix Biology</i> , 2015, 44-46, 207-223.	1.5	317
21	Metalloproteinases: potential therapeutic targets for rheumatoid arthritis. <i>Endocrine, Metabolic and Immune Disorders - Drug Targets</i> , 2015, 15, 216-222.	0.6	21
22	Basal localization of MT1-MMP is essential for epithelial cell morphogenesis in 3D collagen matrix. <i>Journal of Cell Science</i> , 2014, 127, 1203-13.	1.2	19
23	Autofluorescence lifetime metrology for label-free detection of cartilage matrix degradation. , 2014, , .		0
24	Detection of cartilage matrix degradation by autofluorescence lifetime. <i>Matrix Biology</i> , 2013, 32, 32-38.	1.5	36
25	MT-LOOP-dependent Localization of Membrane Type I Matrix Metalloproteinase (MT1-MMP) to the Cell Adhesion Complexes Promotes Cancer Cell Invasion. <i>Journal of Biological Chemistry</i> , 2013, 288, 35126-35137.	1.6	54
26	Membrane-type Matrix Metalloproteinase 1. , 2013, , 804-814.		0
27	Membrane-type Matrix Metalloproteinase 4. , 2013, , 823-826.		0
28	Dimerization of MT1-MMP during cellular invasion detected by fluorescence resonance energy transfer. <i>Biochemical Journal</i> , 2011, 440, 319-327.	1.7	33
29	The Dimer Interface of the Membrane Type 1 Matrix Metalloproteinase Hemopexin Domain. <i>Journal of Biological Chemistry</i> , 2011, 286, 7587-7600.	1.6	52
30	Hyperspectral fluorescence lifetime fibre probe spectroscopy for use in the study and diagnosis of osteoarthritis and skin cancer. , 2011, , .		2
31	Proteoglycans in health and disease: the multiple roles of syndecan shedding. <i>FEBS Journal</i> , 2010, 277, 3876-3889.	2.2	260
32	Analysis of MMP-Dependent Cell Migration and Invasion. <i>Methods in Molecular Biology</i> , 2010, 622, 379-392.	0.4	18
33	Metalloproteinase binding proteins: WO2009097397. <i>Expert Opinion on Therapeutic Patents</i> , 2010, 20, 1091-1095.	2.4	3
34	Membrane type 1 matrix metalloproteinase is a crucial promoter of synovial invasion in human rheumatoid arthritis. <i>Arthritis and Rheumatism</i> , 2009, 60, 686-697.	6.7	111
35	Characterization of the interface between normal and transformed epithelial cells. <i>Nature Cell Biology</i> , 2009, 11, 460-467.	4.6	307
36	Invasive Potential of Human Rheumatoid Tenosynovial Cells Is in Part MT1-MMP Dependent. <i>Journal of Hand Surgery</i> , 2009, 34, 1282-1290.	0.7	3

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37	A compact, multidimensional spectrofluorometer exploiting supercontinuum generation. <i>Journal of Biophotonics</i> , 2008, 1, 494-505.	1.1	33
38	Homophilic complex formation is prerequisite for MT1-MMP to degrade type-I collagen on the cell surface. <i>International Journal of Experimental Pathology</i> , 2008, 85, A42-A43.	0.6	0
39	The Second Dimer Interface of MT1-MMP, the Transmembrane Domain, Is Essential for ProMMP-2 Activation on the Cell Surface. <i>Journal of Biological Chemistry</i> , 2008, 283, 13053-13062.	1.6	59
40	Analyses of MT1-MMP Activity in Cells. <i>Methods in Molecular Medicine</i> , 2007, 135, 239-249.	0.8	15
41	MT1-MMP: A key regulator of cell migration in tissue. <i>IUBMB Life</i> , 2006, 58, 589-596.	1.5	157
42	MT1-MMP: A potent modifier of pericellular microenvironment. <i>Journal of Cellular Physiology</i> , 2006, 206, 1-8.	2.0	435
43	Cell Surface Collagenolysis Requires Homodimerization of the Membrane-bound Collagenase MT1-MMP. <i>Molecular Biology of the Cell</i> , 2006, 17, 5390-5399.	0.9	97
44	CD44 binding through the hemopexin-like domain is critical for its shedding by membrane-type 1 matrix metalloproteinase. <i>Oncogene</i> , 2005, 24, 859-868.	2.6	95
45	Competitive disruption of the tumor-promoting function of membrane type 1 matrix metalloproteinase/matrix metalloproteinase-14 in vivo. <i>Molecular Cancer Therapeutics</i> , 2005, 4, 1157-1166.	1.9	36
46	Palmitoylation at Cys 574 is essential for MT1-MMP to promote cell migration. <i>FASEB Journal</i> , 2005, 19, 1326-1328.	0.2	55
47	Membrane-type 1 Matrix Metalloproteinase Cytoplasmic Tail-binding Protein-1 Is a New Member of the Cupin Superfamily. <i>Journal of Biological Chemistry</i> , 2004, 279, 12734-12743.	1.6	68
48	Altered Proteolytic Activities of ADAMTS-4 Expressed by C-terminal Processing. <i>Journal of Biological Chemistry</i> , 2004, 279, 10109-10119.	1.6	187
49	MT1-MMP: an enzyme with multidimensional regulation. <i>Trends in Biochemical Sciences</i> , 2004, 29, 285-289.	3.7	72
50	Membrane-type matrix metalloproteinase 1. , 2004 , , 544-549.		0
51	Membrane-type matrix metalloproteinase 4. , 2004 , , 553-555.		0
52	Callysponginol Sulfate A, an MT1-MMP Inhibitor Isolated from the Marine Sponge <i>Callyspongiatruncata</i> 1. <i>Journal of Natural Products</i> , 2003, 66, 569-571.	1.5	25
53	Ageladine A: An Antiangiogenic Matrixmetalloproteinase Inhibitor from the Marine Sponge <i>Agelasnakamura</i> 1. <i>Journal of the American Chemical Society</i> , 2003, 125, 15700-15701.	6.6	132
54	Clusterin, an Abundant Serum Factor, Is a Possible Negative Regulator of MT6-MMP/MMP-25 Produced by Neutrophils. <i>Journal of Biological Chemistry</i> , 2003, 278, 36350-36357.	1.6	54

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55	Membrane-type 1 matrix metalloproteinase and cell migration. <i>Biochemical Society Symposia</i> , 2003, 70, 253-262.	2.7	41
56	CD44 directs membrane-type 1 matrix metalloproteinase to lamellipodia by associating with its hemopexin-like domain. <i>EMBO Journal</i> , 2002, 21, 3949-3959.	3.5	291
57	Matrix metalloproteinases in cancer. <i>Essays in Biochemistry</i> , 2002, 38, 21-36.	2.1	244
58	Membrane-Type Matrix Metalloproteinases. , 2002, , 109-125.		0
59	The Membrane-Anchored MMP Inhibitor RECK Is a Key Regulator of Extracellular Matrix Integrity and Angiogenesis. <i>Cell</i> , 2001, 107, 789-800.	13.5	635
60	Ancorinosides Bâ€“D, inhibitors of membrane type 1 matrix metalloproteinase (MT1-MMP), from the marine sponge <i>Penares sollasi</i> Thiele. <i>Tetrahedron</i> , 2001, 57, 1229-1234.	1.0	44
61	Isolation and structure elucidation of two phosphorylated sterol sulfates, MT1-MMP inhibitors from a marine sponge <i>Cribrorchalina</i> sp.: revision of the structures of haplosamates A and B. <i>Tetrahedron</i> , 2001, 57, 3885-3890.	1.0	37
62	Claudin Promotes Activation of Pro-matrix Metalloproteinase-2 Mediated by Membrane-type Matrix Metalloproteinases. <i>Journal of Biological Chemistry</i> , 2001, 276, 28204-28211.	1.6	191
63	Cytoplasmic tailâ€“dependent internalization of membrane-type 1 matrix metalloproteinase is important for its invasion-promoting activity. <i>Journal of Cell Biology</i> , 2001, 155, 1345-1356.	2.3	220
64	Membrane-Type 1 Matrix Metalloproteinase Cleaves Cd44 and Promotes Cell Migration. <i>Journal of Cell Biology</i> , 2001, 153, 893-904.	2.3	681
65	Membraneâ€“type 6 matrix metalloproteinase (MT6â€“MMP, MMPâ€“25) is the second glycosylâ€“phosphatidyl inositol (GPI)â€“anchored MMP. <i>FEBS Letters</i> , 2000, 480, 142-146.	1.3	109
66	Membrane Type 4 Matrix Metalloproteinase (MT4-MMP, MMP-17) Is a Glycosylphosphatidylinositol-anchored Proteinase. <i>Journal of Biological Chemistry</i> , 1999, 274, 34260-34266.	1.6	142
67	Cloning and Characterization of ADAMTS11 , an Aggrecanase from the ADAMTS Family. <i>Journal of Biological Chemistry</i> , 1999, 274, 23443-23450.	1.6	453
68	Human membrane type-4 matrix metalloproteinase (MT4-MMP) is encoded by a novel major transcript: isolation of complementary DNA clones for human and mouse mt4-mmp transcripts. <i>FEBS Letters</i> , 1999, 457, 353-356.	1.3	39
69	Matrix Metalloproteinase-2 in a Murine Model of Infantile-Type Polycystic Kidney Disease. <i>Journal of the American Society of Nephrology: JASN</i> , 1999, 10, 210-217.	3.0	38
70	Comparative analysis of the noncollagenous NC1 domain of type IV collagen: Identification of structural features important for assembly, function, and pathogenesis. <i>Protein Science</i> , 1998, 7, 1340-1351.	3.1	53
71	Matrix Metalloproteinase-2 Production and Its Binding to the Matrix Are Increased in Abdominal Aortic Aneurysms. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1998, 18, 1625-1633.	1.1	231
72	Intact Vitronectin Induces Matrix Metalloproteinase-2 and Tissue Inhibitor of Metalloproteinases-2 Expression and Enhanced Cellular Invasion by Melanoma Cells. <i>Journal of Biological Chemistry</i> , 1998, 273, 143-149.	1.6	115

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73	Plasma Membrane-bound Tissue Inhibitor of Metalloproteinases (TIMP)-2 Specifically Inhibits Matrix Metalloproteinase 2 (Gelatinase A) Activated on the Cell Surface. <i>Journal of Biological Chemistry</i> , 1998, 273, 24360-24367.	1.6	127
74	Fluorescence Quenching Studies of Matrix Metalloproteinases (MMPs): Evidence for Structural Rearrangement of the proMMP-2/TIMP-2 Complex upon Mercurial Activation. <i>Archives of Biochemistry and Biophysics</i> , 1996, 333, 163-169.	1.4	8
75	Relaxed Specificity of Matrix Metalloproteinases (MMPS) and TIMP Insensitivity of Tumor Necrosis Factor- $\alpha$ (TNF- $\alpha$ ) Production Suggest the Major TNF- $\alpha$ Converting Enzyme Is Not an MMP. <i>Biochemical and Biophysical Research Communications</i> , 1996, 225, 400-405.	1.0	67
76	Matrix metalloproteinases and TIMPS in cultured C57BL/6J-cpk kidney tubules. <i>Kidney International</i> , 1996, 50, 835-844.	2.6	57
77	Degradation of Interleukin 1 $\beta$ by Matrix Metalloproteinases. <i>Journal of Biological Chemistry</i> , 1996, 271, 14657-14660.	1.6	326
78	Preferential Inactivation of Tissue Inhibitor of Metalloproteinases-1 That Is Bound to the Precursor of Matrix Metalloproteinase 9 (Progelatinase B) by Human Neutrophil Elastase. <i>Journal of Biological Chemistry</i> , 1995, 270, 16518-16521.	1.6	162
79	Steps Involved in Activation of the Pro-matrix Metalloproteinase 9 (Progelatinase B)-Tissue Inhibitor of Metalloproteinases-1 Complex by 4-Aminophenylmercuric Acetate and Proteinases. <i>Journal of Biological Chemistry</i> , 1995, 270, 18506-18511.	1.6	173
80	Interaction of $\gamma$ 2-Macroglobulin with Matrix Metalloproteinases and Its Use for Identification of Their Active Forms. <i>Annals of the New York Academy of Sciences</i> , 1994, 732, 294-302.	1.8	52
81	Progesterone increases the production of tissue inhibitor of metalloproteinases-2 in rabbit uterine cervical fibroblasts. <i>FEBS Letters</i> , 1994, 341, 109-112.	1.3	23
82	Analyses of MT1-MMP Activity in Cells. , 0, , 239-250.		0