

# Hideto Watanabe

## List of Publications by Year in descending order

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83  
papers

4,236  
citations

117453

34  
h-index

114278

63  
g-index

89  
all docs

89  
docs citations

89  
times ranked

4605  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bone marrow endothelial dysfunction promotes myeloid cell expansion in cardiovascular disease. , 2022, 1, 28-44.		32
2	Accumulation of versican and lack of versikine ameliorate acute colitis. Matrix Biology, 2022, 107, 59-76.	1.5	7
3	Aggrecan and versican: two brothers close or apart. American Journal of Physiology - Cell Physiology, 2022, 322, C967-C976.	2.1	13
4	Versican contributes to ligament formation of knee joints. PLoS ONE, 2021, 16, e0250366.	1.1	3
5	Characterization of stable hypoxia-preconditioned dental pulp stem cells compared with mobilized dental pulp stem cells for application for pulp regenerative therapy. Stem Cell Research and Therapy, 2021, 12, 302.	2.4	20
6	Accumulation of versican facilitates wound healing: Implication of its initial ADAMTS-cleavage site. Matrix Biology, 2020, 87, 77-93.	1.5	41
7	Cerebral cavernous malformations are driven by ADAMTS5 proteolysis of versican. Journal of Experimental Medicine, 2020, 217, .	4.2	30
8	Treatment of Pulpectomized Teeth With Trypsin Prior to Transplantation of Mobilized Dental Pulp Stem Cells Enhances Pulp Regeneration in Aged Dogs. Frontiers in Bioengineering and Biotechnology, 2020, 8, 983.	2.0	17
9	Versican: A Dynamic Regulator of the Extracellular Matrix. Journal of Histochemistry and Cytochemistry, 2020, 68, 763-775.	1.3	38
10	CCR3 antagonist protects against induced cellular senescence and promotes rejuvenation in periodontal ligament cells for stimulating pulp regeneration in the aged dog. Scientific Reports, 2020, 10, 8631.	1.6	8
11	Regulation of Macrophage and Dendritic Cell Function by Chondroitin Sulfate in Innate to Antigen-Specific Adaptive Immunity. Frontiers in Immunology, 2020, 11, 232.	2.2	33
12	Effects of Fibroblast Growth Factor 2 on Burn Injury and Repair Process: Analysis Using a Refined Mouse Model. Plastic and Reconstructive Surgery - Global Open, 2020, 8, e2757.	0.3	3
13	Versican is crucial for the initiation of cardiovascular lumen development in medaka ( <i>Oryzias latipes</i> ). Scientific Reports, 2019, 9, 9475.	1.6	18
14	Characterization and functional analysis of novel circulating NK cell sub-populations. International Immunology, 2019, 31, 515-530.	1.8	3
15	Interaction of receptor type of protein tyrosine phosphatase sigma (RPTP $\sigma$ ) with a glycosaminoglycan library. Journal of Biochemistry, 2018, 164, 41-51.	0.9	2
16	Versican A-subdomain is required for its adequate function in dermal development. Connective Tissue Research, 2018, 59, 178-190.	1.1	8
17	Craniofacial abnormality with skeletal dysplasia in mice lacking chondroitin sulfate N-acetylgalactosaminyltransferase-1. Scientific Reports, 2018, 8, 17134.	1.6	15
18	The plant alkaloid conophylline inhibits matrix formation of fibroblasts. Journal of Biological Chemistry, 2018, 293, 20214-20226.	1.6	6

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19	Chemical synthesis of 4-azido- <sup>125</sup> I-galactosamine derivatives for inhibitors of N-acetylgalactosamine 4-sulfate 6-O-sulfotransferase. <i>Glycoconjugate Journal</i> , 2018, 35, 477-491.	1.4	3
20	Proteoglycan Chemical Diversity Drives Multifunctional Cell Regulation and Therapeutics. <i>Chemical Reviews</i> , 2018, 118, 9152-9232.	23.0	253
21	Postnatal lethality and chondrodysplasia in mice lacking both chondroitin sulfate N-acetylgalactosaminyltransferase-1 and -2. <i>PLoS ONE</i> , 2017, 12, e0190333.	1.1	16
22	Host stromal versican is essential for cancer-associated fibroblast function to inhibit cancer growth. <i>International Journal of Cancer</i> , 2016, 138, 630-641.	2.3	36
23	Molecular dissection of placental malaria protein VAR2CSA interaction with a chemo-enzymatically synthesized chondroitin sulfate library. <i>Glycoconjugate Journal</i> , 2016, 33, 985-994.	1.4	20
24	Sequence determination of synthesized chondroitin sulfate dodecasaccharides. <i>Glycobiology</i> , 2016, 26, 592-606.	1.3	15
25	Assessment of Pulp Regeneration Induced by Stem Cell Therapy by Magnetic Resonance Imaging. <i>Journal of Endodontics</i> , 2016, 42, 397-401.	1.4	36
26	Callicarpa longissima extract, carnosol-rich, potently inhibits melanogenesis in B16F10 melanoma cells. <i>Journal of Natural Medicines</i> , 2016, 70, 28-35.	1.1	12
27	Chondroitin Sulfate in Cartilage. , 2015, , 1331-1337.		0
28	Chondroitin Sulfate in Cartilage. , 2014, , 1-7.		0
29	Involvement of heparan sulfate 6-O-sulfation in the regulation of energy metabolism and the alteration of thyroid hormone levels in male mice. <i>Glycobiology</i> , 2013, 23, 980-992.	1.3	15
30	Chondroitinase from baculovirus Bombyx mori nucleopolyhedrovirus and chondroitin sulfate from silkworm Bombyx mori. <i>Glycobiology</i> , 2013, 23, 1520-1530.	1.3	21
31	Sulfation of the Bikunin Chondroitin Sulfate Chain Determines Heavy Chain-Hyaluronan Complex Formation. <i>Journal of Biological Chemistry</i> , 2013, 288, 22930-22941.	1.6	36
32	Construction of a Chondroitin Sulfate Library with Defined Structures and Analysis of Molecular Interactions. <i>Journal of Biological Chemistry</i> , 2012, 287, 43390-43400.	1.6	50
33	YAG laser treatment causes rapid degeneration and regeneration of collagen fibres in pig skin and facilitates fibroblast growth. <i>Journal of Plastic Surgery and Hand Surgery</i> , 2012, 46, 308-312.	0.4	4
34	Versican/PG-M is essential for ventricular septal formation subsequent to cardiac atrioventricular cushion development. <i>Glycobiology</i> , 2012, 22, 1268-1277.	1.3	72
35	Chondroitin Sulfate Synthase-2 Is Necessary for Chain Extension of Chondroitin Sulfate but Not Critical for Skeletal Development. <i>PLoS ONE</i> , 2012, 7, e43806.	1.1	31
36	Cell Surface Heparan Sulfate Chains Regulate Local Reception of FGF Signaling in the Mouse Embryo. <i>Developmental Cell</i> , 2011, 21, 257-272.	3.1	99

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37	Keratan Sulfate Restricts Neural Plasticity after Spinal Cord Injury. <i>Journal of Neuroscience</i> , 2011, 31, 17091-17102.	1.7	85
38	Chondroitin Sulfate N-Acetylgalactosaminyltransferase 1 Is Necessary for Normal Endochondral Ossification and Aggrecan Metabolism. <i>Journal of Biological Chemistry</i> , 2011, 286, 5803-5812.	1.6	60
39	Baculovirus Envelope Protein ODV-E66 Is a Novel Chondroitinase with Distinct Substrate Specificity. <i>Journal of Biological Chemistry</i> , 2011, 286, 29026-29034.	1.6	36
40	Crucial role of vinexin for keratinocyte migration in vitro and epidermal wound healing in vivo. <i>Experimental Cell Research</i> , 2010, 316, 1728-1738.	1.2	29
41	Chondroitin Sulfate Synthase-2/Chondroitin Polymerizing Factor Has Two Variants with Distinct Function*. <i>Journal of Biological Chemistry</i> , 2010, 285, 34155-34167.	1.6	20
42	Glucuronyltransferase Activity of KfiC from <i>Escherichia coli</i> Strain K5 Requires Association of KfiA. <i>Journal of Biological Chemistry</i> , 2010, 285, 1597-1606.	1.6	32
43	Deficiency in the Serum-Derived Hyaluronan-Associated Protein-Hyaluronan Complex Enhances Airway Hyperresponsiveness in a Murine Model of Asthma. <i>International Archives of Allergy and Immunology</i> , 2010, 153, 223-233.	0.9	20
44	Versican Facilitates Chondrocyte Differentiation and Regulates Joint Morphogenesis. <i>Journal of Biological Chemistry</i> , 2010, 285, 21114-21125.	1.6	100
45	Versican/PG-M Assembles Hyaluronan into Extracellular Matrix and Inhibits CD44-mediated Signaling toward Premature Senescence in Embryonic Fibroblasts. <i>Journal of Biological Chemistry</i> , 2009, 284, 8596-8604.	1.6	44
46	Alteration of chondroitin sulfate composition on proteoglycan produced by knock-in mouse embryonic fibroblasts whose versican lacks the A subdomain. <i>Upsala Journal of Medical Sciences</i> , 2009, 114, 73-81.	0.4	2
47	Ultrastructural immunolocalization of a cartilage-specific proteoglycan, aggrecan, in salivary pleomorphic adenomas. <i>Medical Molecular Morphology</i> , 2009, 42, 47-54.	0.4	6
48	Sequential synthesis of chondroitin oligosaccharides by immobilized chondroitin polymerase mutants. <i>Glycoconjugate Journal</i> , 2008, 25, 521-530.	1.4	27
49	Cartilaginous features in matrix-producing carcinoma of the breast: four cases report with histochemical and immunohistochemical analysis of matrix molecules. <i>Modern Pathology</i> , 2008, 21, 1282-1292.	2.9	35
50	Equivalent Involvement of Inter- $\alpha$ -trypsin Inhibitor Heavy Chain Isoforms in Forming Covalent Complexes with Hyaluronan. <i>Connective Tissue Research</i> , 2008, 49, 48-55.	1.1	15
51	Chondroitin Sulfate Biosynthesis and Related Genes. , 2008, , 64-66.		1
52	Chondroitin Sulfate N-Acetylgalactosaminyltransferase-1 Plays a Critical Role in Chondroitin Sulfate Synthesis in Cartilage. <i>Journal of Biological Chemistry</i> , 2007, 282, 4152-4161.	1.6	42
53	Splicing Factor 3b Subunit 4 Binds BMPR-IA and Inhibits Osteochondral Cell Differentiation. <i>Journal of Biological Chemistry</i> , 2007, 282, 20728-20738.	1.6	44
54	MS analysis of chondroitin polymerization: Effects of Mn <sup>2+</sup> ions on the stability of UDP-sugars and chondroitin synthesis. <i>Analytical Biochemistry</i> , 2007, 365, 62-73.	1.1	16

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55	Elevation of IL-12 p40 and its antibody in myasthenia gravis with thymoma. <i>Journal of Neuroimmunology</i> , 2006, 175, 169-175.	1.1	16
56	Identification and Characterization of Versican/PG-M Aggregates in Cartilage. <i>Journal of Biological Chemistry</i> , 2006, 281, 18257-18263.	1.6	55
57	Versican/PG-M Regulates Chondrogenesis as an Extracellular Matrix Molecule Crucial for Mesenchymal Condensation. <i>Journal of Biological Chemistry</i> , 2006, 281, 2390-2400.	1.6	64
58	Heparan Sulfate of Perlecan Is Involved in Glomerular Filtration. <i>Journal of the American Society of Nephrology: JASN</i> , 2005, 16, 1703-1710.	3.0	89
59	Ultrasound Enhances Transforming Growth Factor $\beta$ -Mediated Chondrocyte Differentiation of Human Mesenchymal Stem Cells. <i>Tissue Engineering</i> , 2004, 10, 921-929.	4.9	119
60	Biological Function of SHAP-Hyaluronan Covalent Complex. , 2004, , 205-222.		3
61	Molecular Heterogeneity of the SHAP-Hyaluronan Complex. <i>Journal of Biological Chemistry</i> , 2003, 278, 32710-32718.	1.6	97
62	Chondroitin Sulfate Synthase-3. <i>Journal of Biological Chemistry</i> , 2003, 278, 39711-39725.	1.6	76
63	Purification, Characterization, and Molecular Cloning of a Novel Keratan Sulfate Hydrolase, Endo- $\beta$ -N-acetylglucosaminidase, from <i>Bacillus circulans</i> . <i>Journal of Biological Chemistry</i> , 2003, 278, 25766-25772.	1.6	26
64	Differential Roles of Two N-Acetylgalactosaminyltransferases, CSGalNAcT-1, and a Novel Enzyme, CSGalNAcT-2. <i>Journal of Biological Chemistry</i> , 2003, 278, 3063-3071.	1.6	99
65	Genetic Rescue of Chondrodysplasia and the Perinatal Lethal Effect of Cartilage Link Protein Deficiency. <i>Journal of Biological Chemistry</i> , 2003, 278, 39214-39223.	1.6	42
66	Distinct Interaction of Versican/PG-M with Hyaluronan and Link Protein. <i>Journal of Biological Chemistry</i> , 2003, 278, 41205-41212.	1.6	123
67	Chondroitin Sulfate Synthase-2. <i>Journal of Biological Chemistry</i> , 2003, 278, 30235-30247.	1.6	77
68	Molecular Cloning and Characterization of Chondroitin Polymerase from <i>Escherichia coli</i> Strain K4. <i>Journal of Biological Chemistry</i> , 2002, 277, 21567-21575.	1.6	92
69	Enzymatic Synthesis of Chondroitin with a Novel Chondroitin Sulfate N-Acetylgalactosaminyltransferase That Transfers N-Acetylgalactosamine to Glucuronic Acid in Initiation and Elongation of Chondroitin Sulfate Synthesis. <i>Journal of Biological Chemistry</i> , 2002, 277, 38189-38196.	1.6	71
70	Molecular Cloning and Characterization of a Novel Chondroitin Sulfate Glucuronyltransferase That Transfers Glucuronic Acid to N-Acetylgalactosamine. <i>Journal of Biological Chemistry</i> , 2002, 277, 38179-38188.	1.6	70
71	Characterization of an Anti-Decorin Monoclonal Antibody, and Its Utility. <i>Journal of Biochemistry</i> , 2002, 132, 997-1002.	0.9	13
72	Establishment of a Novel Chondrocytic Cell Line N1511 Derived From p53-Null Mice. <i>Journal of Bone and Mineral Research</i> , 2002, 17, 1832-1842.	3.1	37

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73	Chondrodysplasia of gene knockout mice for aggrecan and link protein. Glycoconjugate Journal, 2002, 19, 269-273.	1.4	55
74	Transcriptional Cross-talk between Smad, ERK1/2, and p38 Mitogen-activated Protein Kinase Pathways Regulates Transforming Growth Factor- $\beta$ -induced Aggrecan Gene Expression in Chondrogenic ATDC5 Cells. Journal of Biological Chemistry, 2001, 276, 14466-14473.	1.6	254
75	Perlecan is essential for cartilage and cephalic development. Nature Genetics, 1999, 23, 354-358.	9.4	494
76	Mice lacking link protein develop dwarfism and craniofacial abnormalities. Nature Genetics, 1999, 21, 225-229.	9.4	186
77	Disrupted expression of matrix genes in the growth plate of the mouse cartilage matrix deficiency (cmd) mutant. , 1998, 22, 349-358.		42
78	Identification of Hyaluronan-binding Domains of Aggrecan. Journal of Biological Chemistry, 1997, 272, 28057-28065.	1.6	120
79	Mouse cartilage matrix deficiency (cmd) caused by a 7 bp deletion in the aggrecan gene. Nature Genetics, 1994, 7, 154-157.	9.4	242
80	Collagen synthesis of human arterial smooth muscle cells: Effects of platelet-derived growth factor, transforming growth factor- $\beta$ 1 and interleukin-1. Pathology International, 1993, 43, 160-167.	0.6	10
81	Collagen Synthesis by Cultured Arterial Smooth Muscle Cells during Spontaneous Phenotypic Modulation. Pathology International, 1990, 40, 157-164.	0.6	15
82	PLEOMORPHIC ADENOMA WITH A PREDOMINANTLY MYOEPITHELIAL PROLIFERATION OF THE VAGINA. Pathology International, 1987, 37, 685-692.	0.6	1
83	Correlation of the Electrophysiological and Mechanical Changes in the Dog Heart during Digitalis Administration, and the Effect of Potassium on It. International Heart Journal, 1975, 16, 731-740.	0.6	0