

# 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	Perlecan is essential for cartilage and cephalic development. <i>Nature Genetics</i> , 1999, 23, 354-358.	9.4	494
2	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. <i>Journal of Biological Chemistry</i> , 2001, 276, 14466-14473.	1.6	254
3	Proteoglycan Chemical Diversity Drives Multifunctional Cell Regulation and Therapeutics. <i>Chemical Reviews</i> , 2018, 118, 9152-9232.	23.0	253
4	Mouse cartilage matrix deficiency (cmd) caused by a 7 bp deletion in the aggrecan gene. <i>Nature Genetics</i> , 1994, 7, 154-157.	9.4	242
5	Mice lacking link protein develop dwarfism and craniofacial abnormalities. <i>Nature Genetics</i> , 1999, 21, 225-229.	9.4	186
6	Distinct Interaction of Versican/Pg-M with Hyaluronan and Link Protein. <i>Journal of Biological Chemistry</i> , 2003, 278, 41205-41212.	1.6	123
7	Identification of Hyaluronan-binding Domains of Aggrecan. <i>Journal of Biological Chemistry</i> , 1997, 272, 28057-28065.	1.6	120
8	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
9	Versican Facilitates Chondrocyte Differentiation and Regulates Joint Morphogenesis. <i>Journal of Biological Chemistry</i> , 2010, 285, 21114-21125.	1.6	100
10	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
11	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
12	Molecular Heterogeneity of the SHAP-Hyaluronan Complex. <i>Journal of Biological Chemistry</i> , 2003, 278, 32710-32718.	1.6	97
13	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
14	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
15	Keratan Sulfate Restricts Neural Plasticity after Spinal Cord Injury. <i>Journal of Neuroscience</i> , 2011, 31, 17091-17102.	1.7	85
16	Chondroitin Sulfate Synthase-2. <i>Journal of Biological Chemistry</i> , 2003, 278, 30235-30247.	1.6	77
17	Chondroitin Sulfate Synthase-3. <i>Journal of Biological Chemistry</i> , 2003, 278, 39711-39725.	1.6	76
18	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

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19	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
20	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
21	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
22	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
23	Chondrodysplasia of gene knockout mice for aggrecan and link protein. <i>Glycoconjugate Journal</i> , 2002, 19, 269-273.	1.4	55
24	Identification and Characterization of Versican/PG-M Aggregates in Cartilage. <i>Journal of Biological Chemistry</i> , 2006, 281, 18257-18263.	1.6	55
25	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
26	Splicing Factor 3b Subunit 4 Binds BMPRII and Inhibits Osteochondral Cell Differentiation. <i>Journal of Biological Chemistry</i> , 2007, 282, 20728-20738.	1.6	44
27	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
28	Disrupted expression of matrix genes in the growth plate of the mouse cartilage matrix deficiency (cmd) mutant. , 1998, 22, 349-358.		42
29	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
30	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
31	Accumulation of versican facilitates wound healing: Implication of its initial ADAMTS-cleavage site. <i>Matrix Biology</i> , 2020, 87, 77-93.	1.5	41
32	Versican: A Dynamic Regulator of the Extracellular Matrix. <i>Journal of Histochemistry and Cytochemistry</i> , 2020, 68, 763-775.	1.3	38
33	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
34	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
35	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
36	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

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37	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
38	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
39	Regulation of Macrophage and Dendritic Cell Function by Chondroitin Sulfate in Innate to Antigen-Specific Adaptive Immunity. <i>Frontiers in Immunology</i> , 2020, 11, 232.	2.2	33
40	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
41	Bone marrow endothelial dysfunction promotes myeloid cell expansion in cardiovascular disease. , 2022, 1, 28-44.		32
42	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
43	Cerebral cavernous malformations are driven by ADAMTS5 proteolysis of versican. <i>Journal of Experimental Medicine</i> , 2020, 217, .	4.2	30
44	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
45	Sequential synthesis of chondroitin oligosaccharides by immobilized chondroitin polymerase mutants. <i>Glycoconjugate Journal</i> , 2008, 25, 521-530.	1.4	27
46	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
47	Chondroitinase from baculovirus <i>Bombyx mori</i> nucleopolyhedrovirus and chondroitin sulfate from silkworm <i>Bombyx mori</i> . <i>Glycobiology</i> , 2013, 23, 1520-1530.	1.3	21
48	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
49	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
50	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
51	Characterization of stable hypoxia-preconditioned dental pulp stem cells compared with mobilized dental pulp stem cells for application for pulp regenerative therapy. <i>Stem Cell Research and Therapy</i> , 2021, 12, 302.	2.4	20
52	Versican is crucial for the initiation of cardiovascular lumen development in medaka ( <i>Oryzias latipes</i> ). <i>Scientific Reports</i> , 2019, 9, 9475.	1.6	18
53	Treatment of Pulpectomized Teeth With Trypsin Prior to Transplantation of Mobilized Dental Pulp Stem Cells Enhances Pulp Regeneration in Aged Dogs. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 983.	2.0	17
54	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

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55	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
56	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
57	Collagen Synthesis by Cultured Arterial Smooth Muscle Cells during Spontaneous Phenotypic Modulation. <i>Pathology International</i> , 1990, 40, 157-164.	0.6	15
58	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
59	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
60	Sequence determination of synthesized chondroitin sulfate dodecasaccharides. <i>Glycobiology</i> , 2016, 26, 592-606.	1.3	15
61	Craniofacial abnormality with skeletal dysplasia in mice lacking chondroitin sulfate N-acetylgalactosaminyltransferase-1. <i>Scientific Reports</i> , 2018, 8, 17134.	1.6	15
62	Characterization of an Anti-Decorin Monoclonal Antibody, and Its Utility. <i>Journal of Biochemistry</i> , 2002, 132, 997-1002.	0.9	13
63	Aggrecan and versican: two brothers close or apart. <i>American Journal of Physiology - Cell Physiology</i> , 2022, 322, C967-C976.	2.1	13
64	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
65	Collagen synthesis of human arterial smooth muscle cells: Effects of platelet-derived growth factor, transforming growth factor- $\beta$ 1 and interleukin-1. <i>Pathology International</i> , 1993, 43, 160-167.	0.6	10
66	Versican A-subdomain is required for its adequate function in dermal development. <i>Connective Tissue Research</i> , 2018, 59, 178-190.	1.1	8
67	CCR3 antagonist protects against induced cellular senescence and promotes rejuvenation in periodontal ligament cells for stimulating pulp regeneration in the aged dog. <i>Scientific Reports</i> , 2020, 10, 8631.	1.6	8
68	Accumulation of versican and lack of versikine ameliorate acute colitis. <i>Matrix Biology</i> , 2022, 107, 59-76.	1.5	7
69	Ultrastructural immunolocalization of a cartilage-specific proteoglycan, aggrecan, in salivary pleomorphic adenomas. <i>Medical Molecular Morphology</i> , 2009, 42, 47-54.	0.4	6
70	The plant alkaloid conophylline inhibits matrix formation of fibroblasts. <i>Journal of Biological Chemistry</i> , 2018, 293, 20214-20226.	1.6	6
71	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
72	Biological Function of SHAP-Hyaluronan Covalent Complex. , 2004, , 205-222.		3

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73	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
74	Characterization and functional analysis of novel circulating NK cell sub-populations. <i>International Immunology</i> , 2019, 31, 515-530.	1.8	3
75	Versican contributes to ligament formation of knee joints. <i>PLoS ONE</i> , 2021, 16, e0250366.	1.1	3
76	Effects of Fibroblast Growth Factor 2 on Burn Injury and Repair Process: Analysis Using a Refined Mouse Model. <i>Plastic and Reconstructive Surgery - Global Open</i> , 2020, 8, e2757.	0.3	3
77	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
78	Interaction of receptor type of protein tyrosine phosphatase sigma (RPTP $\sigma$ ) with a glycosaminoglycan library. <i>Journal of Biochemistry</i> , 2018, 164, 41-51.	0.9	2
79	PLEOMORPHIC ADENOMA WITH A PREDOMINANTLY MYOEPITHELIAL PROLIFERATION OF THE VAGINA. <i>Pathology International</i> , 1987, 37, 685-692.	0.6	1
80	Chondroitin Sulfate Biosynthesis and Related Genes. , 2008, , 64-66.		1
81	Chondroitin Sulfate in Cartilage. , 2014, , 1-7.		0
82	Correlation of the Electrophysiological and Mechanical Changes in the Dog Heart during Digitalis Administration, and the Effect of Potassium on It. <i>International Heart Journal</i> , 1975, 16, 731-740.	0.6	0
83	Chondroitin Sulfate in Cartilage. , 2015, , 1331-1337.		0