Hisashi Ashida

List of Publications by Year
in descending order

87 papers	7,422 citations	94433 37 h-index	56724 83 g-index
88 all docs	88 docs citations	88 times ranked	13205 citing authors

#	Article	IF	Citations
1	Mechanism of Cooperative Degradation of Gum Arabic Arabinogalactan Protein by Bifidobacterium longum Surface Enzymes. Applied and Environmental Microbiology, 2022, 88, aem0218721.	3.1	8
2	Two Î±-l-arabinofuranosidases from Bifidobacterium longum subsp. longum are involved in arabinoxylan utilization. Applied Microbiology and Biotechnology, 2022, 106, 1957-1965.	3.6	9
3	Putrescine Production by Latilactobacillus curvatus KP 3-4 Isolated from Fermented Foods. Microorganisms, 2022, 10, 697.	3.6	6
4	[Review] Symbiotic Mechanism between Intestinal Microorganisms and Host through Mucin Glycans. Bulletin of Applied Glycoscience, 2021, 11, 14-21.	0.0	0
5	Shifting the focus of d-glucosamine from a dietary supplement for knee osteoarthritis to a potential anti-aging drug. Human Nutrition and Metabolism, 2021, 26, 200134.	1.7	4
6	Enzymatic Adaptation of Bifidobacterium bifidum to Host Glycans, Viewed from Glycoside Hydrolyases and Carbohydrate-Binding Modules. Microorganisms, 2020, 8, 481.	3.6	41
7	1,6-Î±-L-Fucosidases from <i>Bifidobacterium</i> <i>longum</i> subsp. <i>infantis</i> ATCC 15697 Involved in the Degradation of Core-fucosylated <i>N</i>-Glycan. Journal of Applied Glycoscience (1999), 2020, 67, 23-29.	0.7	11
8	Two Novel Î±- <scp>l</scp> -Arabinofuranosidases from Bifidobacterium longum subsp. longum Belonging to Glycoside Hydrolase Family 43 Cooperatively Degrade Arabinan. Applied and Environmental Microbiology, 2019, 85, .	3.1	37
9	[Review] Hexoses with Anti-aging Effect and Strategies for Achieving Healthy Longevity. Bulletin of Applied Glycoscience, 2019, 9, 98-102.	0.0	0
10	Chemo-enzymatic synthesis of the glucagon containing N-linked oligosaccharide and its characterization. Carbohydrate Research, 2018, 455, 92-96.	2.3	8
11	Calorie Restriction Mimetics: Upstream-Type Compounds for Modulating Glucose Metabolism. Nutrients, 2018, 10, 1821.	4.1	50
12	Glucosamine Extends the Lifespan of <i>Caenorhabditis elegans</i> via Autophagy Induction. Journal of Applied Glycoscience (1999), 2018, 65, 37-43.	0.7	21
13	Bifunctional properties and characterization of a novel sialidase with esterase activity from Bifidobacterium bifidum. Bioscience, Biotechnology and Biochemistry, 2018, 82, 2030-2039.	1.3	15
14	The first crystal structure of a family 129 glycoside hydrolase from a probiotic bacterium reveals critical residues and metal cofactors. Journal of Biological Chemistry, 2017, 292, 12126-12138.	3.4	20
15	Identification and characterization of a sulfoglycosidase from Bifidobacterium bifidum implicated in mucin glycan utilization. Bioscience, Biotechnology and Biochemistry, 2017, 81, 2018-2027.	1.3	30
16	Application study of 1,2-Î±-<scp>l</scp>-fucosynthase: introduction of FucÎ±1-2Gal disaccharide structures on N-glycan, ganglioside, and xyloglucan oligosaccharide. Bioscience, Biotechnology and Biochemistry, 2017, 81, 283-291.	1.3	13
17	Glycan region of GPI anchored-protein is required for cytocidal oligomerization of an anticancer parasporin-2, Cry46Aa1 protein, from Bacillus thuringiensis strain A1547. Journal of Invertebrate Pathology, 2017, 142, 71-81.	3.2	8
18	Introduction of H-antigens into oligosaccharides and sugar chains of glycoproteins using highly efficient 1,2-Î±-l-fucosynthase. Glycobiology, 2016, 26, 1235-1247.	2.5	31

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19	Novel substrate specificities of two lacto-N-biosidases towards Î²-linked galacto-N-biose-containing oligosaccharides of globo H, Gb5,Âand GA1. Carbohydrate Research, 2015, 408, 18-24.	2.3	15
20	Î±-N-Acetylglucosaminidase from Bifidobacterium bifidum specifically hydrolyzes Î±-linked N-acetylglucosamine at nonreducing terminus of O-glycan on gastric mucin. Applied Microbiology and Biotechnology, 2015, 99, 3941-3948.	3.6	25
21	Structural analysis of cerebrosides from Aspergillus fungi: the existence of galactosylceramide in A. oryzae. Biotechnology Letters, 2014, 36, 2507-2513.	2.2	14
22	Î²-Glucuronidase from Lactobacillus brevis useful for baicalin hydrolysis belongs to glycoside hydrolase family 30. Applied Microbiology and Biotechnology, 2014, 98, 4021-4032.	3.6	42
23	Glycosidases: Inborn Errors of Glycosphingolipid Catabolism. Advances in Neurobiology, 2014, 9, 463-484.	1.8	5
24	Lacto-N-biosidase Encoded by a Novel Gene of Bifidobacterium longum Subspecies longum Shows Unique Substrate Specificity and Requires a Designated Chaperone for Its Active Expression. Journal of Biological Chemistry, 2013, 288, 25194-25206.	3.4	83
25	Bifidobacterial Î±-galactosidase with unique carbohydrate-binding module specifically acts on blood group B antigen. Glycobiology, 2013, 23, 232-240.	2.5	28
26	Identification and characterization of endo-Â-N-acetylglucosaminidase from methylotrophic yeast Ogataea minuta. Glycobiology, 2013, 23, 736-744.	2.5	37
27	Deficiency of Î±-glucosidase I alters glycoprotein glycosylation and lifespan in Caenorhabditis elegans. Glycobiology, 2013, 23, 1142-1151.	2.5	9
28	Crystal Structures of a Glycoside Hydrolase Family 20 Lacto-N-biosidase from Bifidobacterium bifidum. Journal of Biological Chemistry, 2013, 288, 11795-11806.	3.4	53
29	[Review: Symposium on Applied Glycoscience] A Novel Glycosynthase-like Mutant of Endoglycosidase from Mucor hiemalis Enables Efficient Syntheses of Glycoconjugates. Bulletin of Applied Glycoscience, 2013, 3, 143-150.	0.0	0
30	Î±-N-Acetylgalactosaminidase from Infant-associated Bifidobacteria Belonging to Novel Glycoside Hydrolase Family 129 Is Implicated in Alternative Mucin Degradation Pathway. Journal of Biological Chemistry, 2012, 287, 693-700.	3.4	79
31	Bifidobacterium longum subsp. infantis uses two different Î²-galactosidases for selectively degrading type-1 and type-2 human milk oligosaccharides. Glycobiology, 2012, 22, 361-368.	2.5	120
32	1,3-1,4-Î±-l-Fucosynthase That Specifically Introduces Lewis a/x Antigens into Type-1/2 Chains. Journal of Biological Chemistry, 2012, 287, 16709-16719.	3.4	74
33	Differences in the Substrate Specificities and Active-Site Structures of Two Î±-<scp>L</scp>-Fucosidases (Glycoside Hydrolase Family 29) fromBacteroides thetaiotaomicron. Bioscience, Biotechnology and Biochemistry, 2012, 76, 1022-1024.	1.3	75
34	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	9.1	3,122
35	A selected probiotic strain of Lactobacillus fermentum CM33 isolated from breast-fed infants as a potential source of Î²-galactosidase for prebiotic oligosaccharide synthesis. Journal of Microbiology, 2012, 50, 119-126.	2.8	19
36	Identification of a second catalytically active trans-sialidase in Trypanosoma brucei. Biochemical and Biophysical Research Communications, 2011, 415, 421-425.	2.1	7

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37	Longevity in Mice Is Promoted by Probiotic-Induced Suppression of Colonic Senescence Dependent on Upregulation of Gut Bacterial Polyamine Production. PLoS ONE, 2011, 6, e23652.	2.5	207
38	Physiology of Consumption of Human Milk Oligosaccharides by Infant Gut-associated Bifidobacteria. Journal of Biological Chemistry, 2011, 286, 34583-34592.	3.4	366
39	Glycoside Hydrolase Family 89 Î±-N-acetylglucosaminidase from Clostridium perfringens Specifically Acts on GlcNAcÎ±1,4GalÎ²1R at the Non-reducing Terminus of O-Glycans in Gastric Mucin. Journal of Biological Chemistry, 2011, 286, 6479-6489.	3.4	29
40	An exo-Î±-sialidase from bifidobacteria involved in the degradation of sialyloligosaccharides in human milk and intestinal glycoconjugates. Glycobiology, 2011, 21, 437-447.	2.5	121
41	Syntheses of mucin-type O-glycopeptides and oligosaccharides using transglycosylation and reverse-hydrolysis activities of Bifidobacterium endo-Î±-N-acetylgalactosaminidase. Glycoconjugate Journal, 2010, 27, 125-132.	2.7	11
42	One-step synthesis of efficient binding-inhibitor for influenza virus through multiple addition of sialyloligosaccharides on chitosan. Carbohydrate Polymers, 2010, 81, 330-334.	10.2	18
43	Overexpression, crystallization and preliminary X-ray analysis of xylulose-5-phosphate/fructose-6-phosphate phosphoketolase fromBifidobacterium breve. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 941-943.	0.7	11
44	Novel neogala-series glycosphingolipids with terminal mannose and glucose residues from Hirsutella rhossiliensis, an aureobasidin A-resistant ascomycete fungus. Glycobiology, 2010, 20, 433-441.	2.5	5
45	Efficient Glycosynthase Mutant Derived from Mucor hiemalis Endo-Î²-N-acetylglucosaminidase Capable of Transferring Oligosaccharide from Both Sugar Oxazoline and Natural N-Glycan. Journal of Biological Chemistry, 2010, 285, 511-521.	3.4	140
46	Crystal Structures of Phosphoketolase. Journal of Biological Chemistry, 2010, 285, 34279-34287.	3.4	52
47	Cooperation of Î²-galactosidase and Î²-N-acetylhexosaminidase from bifidobacteria in assimilation of human milk oligosaccharides with type 2 structure. Glycobiology, 2010, 20, 1402-1409.	2.5	111
48	Efficient transfer of sialo-oligosaccharide onto proteins by combined use of a glycosynthase-like mutant of Mucor hiemalis endoglycosidase and synthetic sialo-complex-type sugar oxazoline. Biochimica Et Biophysica Acta - General Subjects, 2010, 1800, 1203-1209.	2.4	87
49	Glucosamine induces autophagy via an mTOR-independent pathway. Biochemical and Biophysical Research Communications, 2010, 391, 1775-1779.	2.1	60
50	Bifidobacterium bifidum Lacto- N -Biosidase, a Critical Enzyme for the Degradation of Human Milk Oligosaccharides with a Type 1 Structure. Applied and Environmental Microbiology, 2009, 75, 6414-6414.	3.1	0
51	Two distinct Â-L-fucosidases from Bifidobacterium bifidum are essential for the utilization of fucosylated milk oligosaccharides and glycoconjugates. Glycobiology, 2009, 19, 1010-1017.	2.5	208
52	Crystallographic and Mutational Analyses of Substrate Recognition of Endo-Î±-N-acetylgalactosaminidase from Bifidobacterium longum. Journal of Biochemistry, 2009, 146, 389-398.	1.7	48
53	Deficiency of Dol-P-Man Synthase Subunit DPM3 Bridges the Congenital Disorders of Glycosylation with the Dystroglycanopathies. American Journal of Human Genetics, 2009, 85, 76-86.	6.2	178
54	Prebiotic Effect of Lacto-N-biose I on Bifidobacterial Growth. Bioscience, Biotechnology and Biochemistry, 2009, 73, 1175-1179.	1.3	56

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55	Generation and Metabolism of Cytosolic Free Oligosaccharides in Caenorhabditis elegans. Trends in Glycoscience and Glycotechnology, 2009, 21, 163-177.	0.1	5
56	Design of a Sialylglycopolymer with a Chitosan Backbone Having Efficient Inhibitory Activity against Influenza Virus Infection. Journal of Medicinal Chemistry, 2008, 51, 4496-4503.	6.4	54
57	Bifidobacterium bifidumLacto-N-Biosidase, a Critical Enzyme for the Degradation of Human Milk Oligosaccharides with a Type 1 Structure. Applied and Environmental Microbiology, 2008, 74, 3996-4004.	3.1	201
58	Mutants of Mucor hiemalis Endo-Î²-N-acetylglucosaminidase Show Enhanced Transglycosylation and Glycosynthase-like Activities. Journal of Biological Chemistry, 2008, 283, 4469-4479.	3.4	213
59	Structural and Thermodynamic Analyses of Solute-binding Protein from Bifidobacterium longum Specific for Core 1 Disaccharide and Lacto-N-biose I. Journal of Biological Chemistry, 2008, 283, 13165-13173.	3.4	111
60	Characterization of two different endo-Â-N-acetylgalactosaminidases from probiotic and pathogenic enterobacteria, Bifidobacterium longum and Clostridium perfringens. Glycobiology, 2008, 18, 727-734.	2.5	59
61	Functions of Novel Glycosidases Isolated from Bifidobacteria. Journal of Applied Glycoscience (1999), 2008, 55, 101-109.	0.7	11
62	Unique Peptide:N-glycanase of Caenorhabditis elegans has Activity of Protein Disulphide Reductase as well as of Deglycosylation. Journal of Biochemistry, 2007, 142, 175-181.	1.7	26
63	Free Oligosaccharides in the Cytosol of Caenorhabditis elegans Are Generated through Endoplasmic Reticulum-Golgi Trafficking. Journal of Biological Chemistry, 2007, 282, 22080-22088.	3.4	35
64	Both Mammalian PIG-M and PIG-X are Required for Growth of GPI14-Disrupted Yeast. Journal of Biochemistry, 2007, 142, 123-129.	1.7	13
65	Purification, crystallization and preliminary X-ray analysis of the galacto-N-biose-/lacto-N-biose I-binding protein (GL-BP) of the ABC transporter fromBifidobacterium longumJCM1217. Acta Crystallographica Section F: Structural Biology Communications, 2007, 63, 751-753.	0.7	36
66	TbGPI16 is an essential component of GPI transamidase inTrypanosoma brucei. FEBS Letters, 2006, 580, 603-606.	2.8	19
67	CHO Glycosylation Mutants: GPI Anchor. Methods in Enzymology, 2006, 416, 182-205.	1.0	42
68	PGAP2 Is Essential for Correct Processing and Stable Expression of GPI-anchored Proteins. Molecular Biology of the Cell, 2006, 17, 1410-1420.	2.1	108
69	DPM1, the Catalytic Subunit of Dolichol-phosphate Mannose Synthase, Is Tethered to and Stabilized on the Endoplasmic Reticulum Membrane by DPM3. Journal of Biological Chemistry, 2006, 281, 896-904.	3.4	47
70	Removal or Maintenance of Inositol-linked Acyl Chain in Glycosylphosphatidylinositol Is Critical in Trypanosome Life Cycle. Journal of Biological Chemistry, 2006, 281, 11595-11602.	3.4	17
71	Three-dimesional structure of GlcNAcÎ±1-4Gal releasing Endo-Î²-Galactosidase from Clostridium perfringens. Proteins: Structure, Function and Bioinformatics, 2005, 59, 141-144.	2.6	12
72	PIG-V Involved in Transferring the Second Mannose in Glycosylphosphatidylinositol. Journal of Biological Chemistry, 2005, 280, 9489-9497.	3.4	74

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73	GPI7 Is the Second Partner of PIG-F and Involved in Modification of Glycosylphosphatidylinositol. Journal of Biological Chemistry, 2005, 280, 9728-9734.	3.4	47
74	A Clostridial Endo-Î²-galactosidase That Cleaves Both Blood Group A and B Glycotopes. Journal of Biological Chemistry, 2005, 280, 7720-7728.	3.4	45
75	Mammalian PIG-X and Yeast Pbn1p Are the Essential Components of Glycosylphosphatidylinositol-Mannosyltransferase I. Molecular Biology of the Cell, 2005, 16, 1439-1448.	2.1	68
76	Crystallization and preliminary X-ray analysis of GlcNAcÎ±1,4Gal-releasing endo-Î²-galactosidase fromClostridium perfringens. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 537-538.	2.5	2
77	GPI transamidase of Trypanosoma brucei has two previously uncharacterized (trypanosomatid) Tj ETQq1 1 0.784314 rgBT /Overlock 10 the United States of America, 2003, 100, 10682-10687.	7.1	53
78	Chemoenzymatic synthesis and application of glycopolymers containing multivalent sialyloligosaccharides with a poly(L-glutamic acid) backbone for inhibition of infection by influenza viruses. Glycobiology, 2003, 13, 315-326.	2.5	112
79	Characterization of a Novel Endo-Î²-galactosidase Specific for Releasing the Disaccharide GlcNAcÎ±1â†'4Gal from Glycoconjugatesâ€,â€¡. Biochemistry, 2002, 41, 2388-2395.	2.5	14
80	Enzymatic syntheses of T antigen-containing glycolipid mimicry using the transglycosylation activity of endo-Î±-N-acetylgalactosaminidase. Carbohydrate Research, 2001, 330, 487-493.	2.3	19
81	A Novel Endo-Î²-galactosidase from Clostridium perfringens That Liberates the Disaccharide GlcNAcÎ±1â†'4Gal from Glycans Specifically Expressed in the Gastric Gland Mucous Cell-type Mucin. Journal of Biological Chemistry, 2001, 276, 28226-28232.	3.4	21
82	Trypsin Inhibitory Activity of Bovine Fetuin De-O-glycosylated by Endo-Î±-N-acetylgalactosaminidase. Bioscience, Biotechnology and Biochemistry, 2000, 64, 2266-2268.	1.3	7
83	Characterization of Endo-Î±-N-acetylgalactosaminidase from Bacillus sp. and Syntheses of Neo-oligosaccharides Using Its Transglycosylation Activity. Archives of Biochemistry and Biophysics, 2000, 373, 394-400.	3.0	38
84	Molecular Cloning of cDNA Encoding Î±-N-Acetylgalactosaminidase from Acremonium sp. and Its Expression in Yeast. Archives of Biochemistry and Biophysics, 2000, 384, 305-310.	3.0	18
85	Formation of Lyso-glycosphingolipids byStreptomycessp. Bioscience, Biotechnology and Biochemistry, 1995, 59, 2028-2032.	1.3	10
86	Transglycosylation Activity of Endoglycoceramidase from Corynebacterium sp. Archives of Biochemistry and Biophysics, 1993, 305, 559-562.	3.0	24
87	Purification and characterization of membrane-bound endoglycoceramidase from Corynebacterium sp.. FEBS Journal, 1992, 205, 729-735.	0.2	34