

# Kiyotaka Fujita

## List of Publications by Year in descending order

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60  
papers

1,577  
citations

279798

23  
h-index

315739

38  
g-index

63  
all docs

63  
docs citations

63  
times ranked

1164  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mutants of <i>Mucor hiemalis</i> Endo- $\beta$ -N-acetylglucosaminidase Show Enhanced Transglycosylation and Glycosynthase-like Activities. <i>Journal of Biological Chemistry</i> , 2008, 283, 4469-4479.	3.4	213
2	Identification and Molecular Cloning of a Novel Glycoside Hydrolase Family of Core 1 Type O-Glycan-specific Endo- $\beta$ -N-acetylgalactosaminidase from <i>Bifidobacterium longum</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 37415-37422.	3.4	152
3	Novel bifidobacterial glycosidases acting on sugar chains of mucin glycoproteins. <i>Journal of Bioscience and Bioengineering</i> , 2005, 99, 457-465.	2.2	73
4	Identification of an endo- $\beta$ -N-acetylglucosaminidase gene in <i>Caenorhabditis elegans</i> and its expression in <i>Escherichia coli</i> . <i>Glycobiology</i> , 2002, 12, 581-587.	2.5	66
5	Cloning, Sequencing, and Expression of <i>Arthrobacter protophormiae</i> Endo- $\beta$ -N-acetylglucosaminidase in <i>Escherichia coli</i> . <i>Archives of Biochemistry and Biophysics</i> , 1997, 338, 22-28.	3.0	63
6	Some Distinguishable Properties between Acid-Stable and Neutral Types of $\beta$ -Amylases from Acid-Producing Koji. <i>Journal of Bioscience and Bioengineering</i> , 2007, 104, 353-362.	2.2	58
7	Molecular Cloning and Characterization of a $\beta$ -L-Arabinobiosidase in <i>Bifidobacterium longum</i> That Belongs to a Novel Glycoside Hydrolase Family. <i>Journal of Biological Chemistry</i> , 2011, 286, 5143-5150.	3.4	56
8	Molecular cloning of <i>Mucor hiemalis</i> endo- $\beta$ -N-acetylglucosaminidase and some properties of the recombinant enzyme. <i>Archives of Biochemistry and Biophysics</i> , 2004, 432, 41-49.	3.0	54
9	Characterization of a Novel $\beta$ -L-Arabinofuranosidase in <i>Bifidobacterium longum</i> . <i>Journal of Biological Chemistry</i> , 2014, 289, 5240-5249.	3.4	54
10	Synthesis of Neoglycoenzymes with Homogeneous N-Linked Oligosaccharides Using Immobilized Endo- $\beta$ -N-acetylglucosaminidase A. <i>Biochemical and Biophysical Research Communications</i> , 2000, 267, 134-138.	2.1	49
11	Physicochemical properties of amylose-free and high-amylose starches from transgenic sweetpotatoes modified by RNA interference. <i>Carbohydrate Polymers</i> , 2007, 69, 233-240.	10.2	48
12	High efficiency of transferring a native sugar chain from a glycopeptide by a microbial endoglycosidase in organic solvents. <i>Carbohydrate Research</i> , 2004, 339, 719-722.	2.3	38
13	Synthesis of mono-glucose-branched cyclodextrins with a high inclusion ability for doxorubicin and their efficient glycosylation using <i>Mucor hiemalis</i> endo- $\beta$ -N-acetylglucosaminidase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 1009-1013.	2.2	38
14	Two Novel $\beta$ -L-Arabinofuranosidases from <i>Bifidobacterium longum</i> subsp. <i>longum</i> Belonging to Glycoside Hydrolase Family 43 Cooperatively Degrade Arabinan. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	37
15	<i>Bifidobacterium longum</i> subsp. <i>longum</i> Exo- $\beta$ -1,3-Galactanase, an Enzyme for the Degradation of Type II Arabinogalactan. <i>Applied and Environmental Microbiology</i> , 2014, 80, 4577-4584.	3.1	35
16	Crystal structure of glycoside hydrolase family 127 $\beta$ -L-arabinofuranosidase from <i>Bifidobacterium longum</i> . <i>Biochemical and Biophysical Research Communications</i> , 2014, 447, 32-37.	2.1	35
17	Enzymatic Synthesis of a Neoglycoconjugate by Transglycosylation with <i>Arthrobacter</i> Endo- $\beta$ -N-acetylglucosaminidase: A Substrate for Colorimetric Detection of Endo- $\beta$ -N-acetylglucosaminidase Activity. <i>Analytical Biochemistry</i> , 1998, 257, 218-223.	2.4	34
18	Cell Surface Galactosylation Is Essential for Nonsexual Flocculation in <i>Schizosaccharomyces pombe</i> . <i>Journal of Bacteriology</i> , 1999, 181, 1356-1359.	2.2	33

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19	Degradative enzymes for type II arabinogalactan side chains in <i>Bifidobacterium longum</i> subsp. <i>longum</i> . <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 1299-1310.	3.6	30
20	A remodeling system for the oligosaccharide chains on glycoproteins with microbial endo- $\beta$ -N-acetylglucosaminidases. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2006, 1760, 1631-1635.	2.4	28
21	Preparation of p-nitrophenyl $\beta$ -L-arabinofuranoside as a substrate of $\beta$ -L-arabinofuranosidase. <i>Carbohydrate Research</i> , 2013, 382, 95-100.	2.3	28
22	Tryptophan-216 Is Essential for the Transglycosylation Activity of Endo- $\beta$ -N-acetylglucosaminidase A. <i>Biochemical and Biophysical Research Communications</i> , 2001, 283, 680-686.	2.1	25
23	Characterization of Endo- $\beta$ -N-acetylglucosaminidase from <i>Alkaliphilic Bacillus halodurans</i> C-125. <i>Bioscience, Biotechnology and Biochemistry</i> , 2004, 68, 1059-1066.	1.3	25
24	Characterization of a Novel $\beta$ -L-Arabinofuranosidase in <i>Bifidobacterium longum</i> . <i>Journal of Biological Chemistry</i> , 2011, 286, 38079-38085.	3.4	21
25	Transglycosylation reaction of <i>Mucor hiemalis</i> endo- $\beta$ -N-acetylglucosaminidase using sugar derivatives modified at C-1 or C-2 as oligosaccharide acceptors. <i>Carbohydrate Research</i> , 2004, 339, 1403-1406.	2.3	17
26	Degradation of plant arabinogalactan proteins by intestinal bacteria: characteristics and functions of the enzymes involved. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 7451-7457.	3.6	17
27	Chemoenzymatic Synthesis of Neoglycoproteins Using Transglycosylation with Endo- $\beta$ -N-acetylglucosaminidase A. <i>Biochemical and Biophysical Research Communications</i> , 2001, 282, 678-682.	2.1	16
28	Nystatin Effects on Vacuolar Function in <i>Saccharomyces cerevisiae</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 1999, 63, 1075-1082.	1.3	15
29	<i>Mucor hiemalis</i> endo- $\beta$ -N-acetylglucosaminidase can transglycosylate a bisecting hybrid-type oligosaccharide from an ovalbumin glycopeptide. <i>Carbohydrate Research</i> , 2004, 339, 2633-2635.	2.3	14
30	Identification of the Catalytic Acid Base Residue of <i>Arthrobacter</i> Endo- $\beta$ -N-Acetylglucosaminidase by Chemical Rescue of an Inactive Mutant. <i>Journal of Biochemistry</i> , 2007, 142, 301-306.	1.7	14
31	Identification of difructose dianhydride I synthase/hydrolase from an oral bacterium establishes a novel glycoside hydrolase family. <i>Journal of Biological Chemistry</i> , 2021, 297, 101324.	3.4	13
32	Structural and Functional Characterization of Ovotransferrin Produced by <i>Pichia pastoris</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2004, 68, 376-383.	1.3	11
33	Functions of Novel Glycosidases Isolated from <i>Bifidobacteria</i> . <i>Journal of Applied Glycoscience</i> (1999), 2008, 55, 101-109.	0.7	11
34	Syntheses of mucin-type O-glycopeptides and oligosaccharides using transglycosylation and reverse-hydrolysis activities of <i>Bifidobacterium</i> endo- $\beta$ -N-acetylglucosaminidase. <i>Glycoconjugate Journal</i> , 2010, 27, 125-132.	2.7	11
35	Functional Analysis of Degradative Enzymes for Hydroxyproline-linked $\beta$ -L-Arabinofuranosides in <i>Bifidobacterium longum</i> . <i>Trends in Glycoscience and Glycotechnology</i> , 2012, 24, 215-224.	0.1	11
36	Starch Properties of Transgenic Sweetpotato Plants Modified by RNA Interference of the Starch Synthase II Gene. <i>Journal of Applied Glycoscience</i> (1999), 2011, 58, 85-90.	0.7	11

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37	Functional characterization of unique enzymes in <i>Xanthomonas euvesicatoria</i> related to degradation of arabinofurano-oligosaccharides on hydroxyproline-rich glycoproteins. <i>PLoS ONE</i> , 2018, 13, e0201982.	2.5	10
38	Novel 3-O- $\beta$ -Galactosyl- $\beta$ -Arabinofuranosidase for the Assimilation of Gum Arabic Arabinogalactan Protein in <i>Bifidobacterium longum</i> subsp. <i>longum</i> . <i>Applied and Environmental Microbiology</i> , 2021, 87, .	3.1	10
39	Transfer of high-mannose-type oligosaccharides to disaccharides by endo- $\beta$ -N-acetylglucosaminidase from <i>Arthrobacter protophormiae</i> . <i>Journal of Bioscience and Bioengineering</i> , 2002, 93, 614-617.	2.2	9
40	Physicochemical Properties of Starches from Recently Bred Sweetpotatoes in Japan. <i>Journal of Applied Glycoscience</i> (1999), 2014, 61, 81-88.	0.7	9
41	Two $\beta$ -L-arabinofuranosidases from <i>Bifidobacterium longum</i> subsp. <i>longum</i> are involved in arabinoxylan utilization. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 1957-1965.	3.6	9
42	Crystal structure of $\beta$ -L-arabinobiosidase belonging to glycoside hydrolase family 121. <i>PLoS ONE</i> , 2020, 15, e0231513.	2.5	8
43	Mechanism of Cooperative Degradation of Gum Arabic Arabinogalactan Protein by <i>Bifidobacterium longum</i> Surface Enzymes. <i>Applied and Environmental Microbiology</i> , 2022, 88, aem0218721.	3.1	8
44	Synthesis of naturally occurring $\beta$ -L-arabinofuranosyl-L-arabinofuranoside structures towards the substrate specificity evaluation of $\beta$ -L-arabinofuranosidase. <i>Bioorganic and Medicinal Chemistry</i> , 2022, 68, 116849.	3.0	8
45	Structural analysis of $\beta$ -L-arabinobiose-binding protein in the metabolic pathway of hydroxyproline-rich glycoproteins in <i>Bifidobacterium longum</i> . <i>FEBS Journal</i> , 2020, 287, 5114-5129.	4.7	7
46	Characterization of a GH36 $\beta$ -D-Galactosidase Associated with Assimilation of Gum Arabic in <i>Bifidobacterium longum</i> subsp. <i>longum</i> JCM7052. <i>Journal of Applied Glycoscience</i> (1999), 2021, 68, 47-52.	0.7	7
47	Characterization of a $\beta$ -L-Arabinopyranosidase from <i>Bifidobacterium longum</i> subsp. <i>longum</i> . <i>Journal of Applied Glycoscience</i> (1999), 2015, 62, 1-6.	0.7	6
48	Substrate complex structure, active site labeling and catalytic role of the zinc ion in cysteine glycosidase. <i>Glycobiology</i> , 2022, 32, 171-180.	2.5	6
49	Plate assay for endo- $\beta$ -N-acetylglucosaminidase activity using a chromogenic substrate synthesized by transglycosylation with <i>Arthrobacter</i> Endo- $\beta$ -N-acetylglucosaminidase. <i>Journal of Bioscience and Bioengineering</i> , 2000, 90, 462-464.	2.2	5
50	Identification of Amino Acid Residues Essential for the Substrate Specificity of <i>Flavobacterium</i> sp. Endo- $\beta$ -N-acetylglucosaminidase. <i>Bioscience, Biotechnology and Biochemistry</i> , 2001, 65, 1542-1548.	1.3	5
51	Characterization of a GH36 $\beta$ -L-Arabinopyranosidase in <i>Bifidobacterium adolescentis</i> . <i>Journal of Applied Glycoscience</i> (1999), 2018, 65, 23-30.	0.7	5
52	Physicochemical Properties and Food Uses of Starch from the New Sweetpotato Cultivar Konamizuki. <i>Journal of Applied Glycoscience</i> (1999), 2017, 64, 1-8.	0.7	4
53	Transfer of high-mannose-type oligosaccharides to disaccharides by endo-beta-N-acetylglucosaminidase from <i>Arthrobacter protophormiae</i> . <i>Journal of Bioscience and Bioengineering</i> , 2002, 93, 614-7.	2.2	3
54	Complete Genome Sequence of <i>Bifidobacterium longum</i> subsp. <i>longum</i> JCM7052. <i>Microbiology Resource Announcements</i> , 2021, 10, .	0.6	1

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55	Plate Assay for Endo-.BETA.-N-Acetylglucosaminidase Activity Using a Chromogenic Substrate Synthesized by Transglycosylation with Arthrobacter Endo-.BETA.-N-Acetylglucosaminidase.. Journal of Bioscience and Bioengineering, 2000, 90, 462-464.	2.2	1
56	ç³,çŠŕèĒã@ç³-éŽ-â·¥âĴãf»ç³-éŽ-ç”Ÿç%©âĴ. Nippon Nogeikagaku Kaishi, 2003, 77, 998-1000.	0.0	0
57	New Sweetpotato Lines have High Amylose and Resistant Starch Contents. Starch/Staerke, 2019, 71, 1800180.	2.1	0
58	Transfer of High-Mannose-Type Oligosaccharides to Disaccharides by Endo-.BETA.-N-Acetylglucosaminidase from Arthrobacter protophormiae.. Journal of Bioscience and Bioengineering, 2002, 93, 614-617.	2.2	0
59	[Review: Symposium on Amylases and Related Enzymes] Characterization of a Î²-L-Arabinobiosidase from <i>Bifidobacterium longum</i>. Bulletin of Applied Glycoscience, 2011, 1, 153-158.	0.0	0
60	[Review: Prize-awarded article] The Study of the Glycoside Hydrolases Acting on Sugar Chains of Glycoproteins. Bulletin of Applied Glycoscience, 2016, 6, 30-36.	0.0	0