

Akira Togayachi

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76
papers

3,307
citations

36
h-index

57
g-index

79
ext. papers

3,595
ext. citations

4.6
avg, IF

4.13
L-index

#	Paper	IF	Citations
76	Elevated serum levels of Wisteria floribunda agglutinin-positive human Mac-2 binding protein predict the development of hepatocellular carcinoma in hepatitis C patients. <i>Hepatology</i> , 2014 , 60, 1563-70	11.2	167
75	Mice lacking alpha1,3-fucosyltransferase IX demonstrate disappearance of Lewis x structure in brain and increased anxiety-like behaviors. <i>Glycobiology</i> , 2007 , 17, 1-9	5.8	148
74	A novel strategy for mammalian cell surface glycome profiling using lectin microarray. <i>Glycobiology</i> , 2007 , 17, 1138-46	5.8	143
73	Molecular cloning and characterization of a novel UDP-GlcNAc:GalNAc-peptide beta1,3-N-acetylglucosaminyltransferase (beta 3Gn-T6), an enzyme synthesizing the core 3 structure of O-glycans. <i>Journal of Biological Chemistry</i> , 2002 , 277, 12802-9	5.4	133
72	A novel serum marker, glycosylated Wisteria floribunda agglutinin-positive Mac-2 binding protein (WFA(+)-M2BP), for assessing liver fibrosis. <i>Journal of Gastroenterology</i> , 2015 , 50, 76-84	6.9	128
71	Core 3 synthase is down-regulated in colon carcinoma and profoundly suppresses the metastatic potential of carcinoma cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 4572-7	11.5	117
70	Identification and characterization of three novel beta 1,3-N-acetylglucosaminyltransferases structurally related to the beta 1,3-galactosyltransferase family. <i>Journal of Biological Chemistry</i> , 2001 , 276, 3498-507	5.4	111
69	Cloning, expression, and characterization of a novel UDP-galactose:beta-N-acetylglucosamine beta1,3-galactosyltransferase (beta3Gal-T5) responsible for synthesis of type 1 chain in colorectal and pancreatic epithelia and tumor cells derived therefrom. <i>Journal of Biological Chemistry</i> , 1999 , 274, 12499-507	5.4	109
68	Cloning and characterization of a new human UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase, designated pp-GalNAc-T13, that is specifically expressed in neurons and synthesizes GalNAc alpha-serine/threonine antigen. <i>Journal of Biological Chemistry</i> , 2000 , 275, 575-84	5.4	104
67	Molecular cloning and characterization of UDP-GlcNAc:lactosylceramide beta 1,3-N-acetylglucosaminyltransferase (beta 3Gn-T5), an essential enzyme for the expression of HNK-1 and Lewis X epitopes on glycolipids. <i>Journal of Biological Chemistry</i> , 2001 , 276, 22032-40	5.4	100
66	Polyactosamine on glycoproteins influences basal levels of lymphocyte and macrophage activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 15829-34	11.5	95
65	Differential roles of two N-acetylgalactosaminyltransferases, CSGalNAcT-1, and a novel enzyme, CSGalNAcT-2. Initiation and elongation in synthesis of chondroitin sulfate. <i>Journal of Biological Chemistry</i> , 2003 , 278, 3063-71	5.4	86
64	Expression cloning and characterization of a novel murine alpha1, 3-fucosyltransferase, mFuc-TIX, that synthesizes the Lewis x (CD15) epitope in brain and kidney. <i>Journal of Biological Chemistry</i> , 1998 , 273, 26729-38	5.4	86
63	A novel beta1,3-N-acetylglucosaminyltransferase (beta3Gn-T8), which synthesizes poly-N-acetyllactosamine, is dramatically upregulated in colon cancer. <i>FEBS Letters</i> , 2005 , 579, 71-8	3.8	81
62	Initiation of O-glycan synthesis in IgA1 hinge region is determined by a single enzyme, UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 2. <i>Journal of Biological Chemistry</i> , 2003 , 278, 5613-21	5.4	79
61	Cloning and characterization of a novel UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase, pp-GalNAc-T14. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 300, 738-44	3.4	76
60	Molecular cloning and characterization of a novel human beta 1,4-N-acetylgalactosaminyltransferase, beta 4GalNAc-T3, responsible for the synthesis of N,NSdiacetyllactosediimine, galNAc beta 1-4GlcNAc. <i>Journal of Biological Chemistry</i> , 2003 , 278, 47534-44	5.4	74

59	A novel I-branching beta-1,6-N-acetylglucosaminyltransferase involved in human blood group I antigen expression. <i>Blood</i> , 2003 , 101, 2870-6	2.2	69
58	Chondroitin sulfate synthase-2. Molecular cloning and characterization of a novel human glycosyltransferase homologous to chondroitin sulfate glucuronyltransferase, which has dual enzymatic activities. <i>Journal of Biological Chemistry</i> , 2003 , 278, 30235-47	5.4	66
57	Molecular cloning and characterization of a novel human beta1,3-glycosyltransferase, which is localized at the endoplasmic reticulum and glucosylates O-linked fucosylglycan on thrombospondin type 1 repeat domain. <i>Glycobiology</i> , 2006 , 16, 1194-206	5.8	64
56	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, 38179-88	5.4	64
55	Normal embryonic and germ cell development in mice lacking alpha 1,3-fucosyltransferase IX (Fut9) which show disappearance of stage-specific embryonic antigen 1. <i>Molecular and Cellular Biology</i> , 2004 , 24, 4221-8	4.8	62
54	Chondroitin sulfate synthase-3. Molecular cloning and characterization. <i>Journal of Biological Chemistry</i> , 2003 , 278, 39711-25	5.4	62
53	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, 38189-96	5.4	62
52	Alpha1,3-fucosyltransferase IX (Fut9) determines Lewis X expression in brain. <i>Glycobiology</i> , 2003 , 13, 445-55	5.8	61
51	Molecular cloning and characterization of a novel UDP-Gal:GalNAc(alpha) peptide beta 1,3-galactosyltransferase (C1Gal-T2), an enzyme synthesizing a core 1 structure of O-glycan. <i>Journal of Biological Chemistry</i> , 2002 , 277, 47724-31	5.4	57
50	Chondroitin sulfate N-acetylgalactosaminyltransferase 1 is necessary for normal endochondral ossification and aggrecan metabolism. <i>Journal of Biological Chemistry</i> , 2011 , 286, 5803-12	5.4	56
49	Serum Wisteria Floribunda Agglutinin-Positive Mac-2 Binding Protein Values Predict the Development of Hepatocellular Carcinoma among Patients with Chronic Hepatitis C after Sustained Virological Response. <i>PLoS ONE</i> , 2015 , 10, e0129053	3.7	55
48	Characterization of a novel human UDP-GalNAc transferase, pp-GalNAc-T10. <i>FEBS Letters</i> , 2002 , 531, 115-21	3.8	52
47	Wisteria floribunda agglutinin positive human Mac-2-binding protein as a predictor of hepatocellular carcinoma development in chronic hepatitis C patients. <i>Hepatology Research</i> , 2015 , 45, E82-8	5.1	48
46	Glycoproteomic discovery of serological biomarker candidates for HCV/HBV infection-associated liver fibrosis and hepatocellular carcinoma. <i>Journal of Proteome Research</i> , 2013 , 12, 2630-40	5.6	45
45	A novel human beta1,3-N-acetylgalactosaminyltransferase that synthesizes a unique carbohydrate structure, GalNAcbeta1-3GlcNAc. <i>Journal of Biological Chemistry</i> , 2004 , 279, 14087-95	5.4	44
44	Beta3GnT2 (B3GNT2), a major poly lactosamine synthase: analysis of B3GNT2-deficient mice. <i>Methods in Enzymology</i> , 2010 , 479, 185-204	1.7	41
43	Current Technologies for Complex Glycoproteomics and Their Applications to Biology/Disease-Driven Glycoproteomics. <i>Journal of Proteome Research</i> , 2018 , 17, 4097-4112	5.6	40
42	Comprehensive enzymatic characterization of glycosyltransferases with a beta3GT or beta4GT motif. <i>Methods in Enzymology</i> , 2006 , 416, 91-102	1.7	39

41	Identification of a novel human UDP-GalNAc transferase with unique catalytic activity and expression profile. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 402, 680-6	3-4	37
40	Lewis type 1 antigen synthase (beta3Gal-T5) is transcriptionally regulated by homeoproteins. <i>Journal of Biological Chemistry</i> , 2003 , 278, 36611-20	5-4	36
39	Expression of cutaneous lymphocyte-associated antigen regulated by a set of glycosyltransferases in human T cells: involvement of alpha1, 3-fucosyltransferase VII and beta1,4-galactosyltransferase I. <i>Journal of Investigative Dermatology</i> , 2000 , 115, 299-306	4-3	33
38	HEG1 is a novel mucin-like membrane protein that serves as a diagnostic and therapeutic target for malignant mesothelioma. <i>Scientific Reports</i> , 2017 , 7, 45768	4-9	32
37	Lack of lacto/neolacto-glycolipids enhances the formation of glycolipid-enriched microdomains, facilitating B cell activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 11900-5	11.5	31
36	Glycoproteomics approach for identifying Glycobiomarker candidate molecules for tissue type classification of non-small cell lung carcinoma. <i>Journal of Proteome Research</i> , 2014 , 13, 4705-16	5.6	29
35	Novel glycobiomarker for ovarian cancer that detects clear cell carcinoma. <i>Journal of Proteome Research</i> , 2014 , 13, 1624-35	5.6	29
34	Large-Scale Identification of N-Glycan Glycoproteins Carrying Lewis x and Site-Specific N-Glycan Alterations in Fut9 Knockout Mice. <i>Journal of Proteome Research</i> , 2015 , 14, 3823-34	5.6	27
33	Up-regulation of Lewis enzyme (Fuc-TIII) and plasma-type alpha1,3fucosyltransferase (Fuc-TVI) expression determines the augmented expression of sialyl Lewis x antigen in non-small cell lung cancer. <i>International Journal of Cancer</i> , 1999 , 83, 70-9	7.5	26
32	Application of a glycoproteomics-based biomarker development method: alteration in glycan structure on colony stimulating factor 1 receptor as a possible glycobiomarker candidate for evaluation of liver cirrhosis. <i>Journal of Proteome Research</i> , 2014 , 13, 1428-37	5.6	25
31	Comparison of analytical methods for profiling N- and O-linked glycans from cultured cell lines : HUPO Human Disease Glycomics/Proteome Initiative multi-institutional study. <i>Glycoconjugate Journal</i> , 2016 , 33, 405-415	3	23
30	The Lewis X-related α 1,3-fucosyltransferase, Fut10, is required for the maintenance of stem cell populations. <i>Journal of Biological Chemistry</i> , 2013 , 288, 28859-68	5-4	17
29	Heterotopic production of ceruloplasmin by lung adenocarcinoma is significantly correlated with prognosis. <i>Lung Cancer</i> , 2018 , 118, 97-104	5.9	14
28	A chemoenzymatic approach toward the identification of fucosylated glycoproteins and mapping of N-glycan sites. <i>Glycobiology</i> , 2012 , 22, 630-7	5.8	14
27	Identification of Poly-N-Acetyllactosamine-Carrying Glycoproteins from HL-60 Human Promyelocytic Leukemia Cells Using a Site-Specific Glycome Analysis Method, Glyco-RIDGE. <i>Journal of the American Society for Mass Spectrometry</i> , 2018 , 29, 1138-1152	3.5	12
26	Glycosphingolipids are not pivotal receptors for Subtilase cytotoxin in vivo: sensitivity analysis with glycosylation-defective mutant mice. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 378, 179-81	3-4	12
25	Formation of fibroblastic reticular network in the brain after infection with neurovirulent murine coronavirus. <i>Neuropathology</i> , 2016 , 36, 513-526	2	12
24	RNAi screening of human glycogene orthologs in the nematode <i>Caenorhabditis elegans</i> and the construction of the <i>C. elegans</i> glycogene database. <i>Glycobiology</i> , 2015 , 25, 8-20	5.8	11

23	Functional Analysis of β ;1,3-N-Acetylglucosaminyltransferases and Regulation of Immunological Function by Polylactosamine. <i>Trends in Glycoscience and Glycotechnology</i> , 2012 , 24, 95-111	9.1	11
22	A novel glyco biomarker, Wisteria floribunda agglutinin macrophage colony-stimulating factor receptor, for predicting carcinogenesis of liver cirrhosis. <i>International Journal of Cancer</i> , 2016 , 138, 1462-1471	7.5	11
21	Glyco biomarker, Fucosylated Short-Form Secretogranin III Levels Are Increased in Serum of Patients with Small Cell Lung Carcinoma. <i>Journal of Proteome Research</i> , 2017 , 16, 4495-4505	5.6	10
20	Mice lacking β ;3-fucosyltransferase 9 exhibit modulation of in vivo immune responses against pathogens. <i>Pathology International</i> , 2014 , 64, 199-208	1.8	8
19	Contribution of Lewis X Carbohydrate Structure to Neuropathogenic Murine Coronaviral Spread. <i>Japanese Journal of Infectious Diseases</i> , 2016 , 69, 405-13	2.7	4
18	Identification and characterization of sulfated glycoproteins from small cell lung carcinoma cells assisted by management of molecular charges. <i>Glycoconjugate Journal</i> , 2016 , 33, 917-926	3	4
17	Strong antibody reaction against glycosphingolipids injected in liposome-embedded forms in beta3GN-T5 knockout mice. <i>Nagoya Journal of Medical Science</i> , 2011 , 73, 137-46	0.7	4
16	Cloning and Characterization of β ;3-Glycosyltransferase Family with a BGT Motifs. <i>Trends in Glycoscience and Glycotechnology</i> , 2007 , 19, 29-40	0.1	3
15	Glycogene Expression Profiling of Hepatic Cells by RNA-Seq Analysis for Glyco-Biomarker Identification. <i>Frontiers in Oncology</i> , 2020 , 10, 1224	5.3	3
14	Polylactosamine and Immunity 2015 , 691-698		2
13	β ;3-glycosyltransferase Gene Family and IGnT Gene Family 2008 , 24-29		1
12	UDP-Gal: BetaGlcNAc Beta 1,3-Galactosyltransferase, Polypeptide 5 (B3GALT5) 2014 , 89-99		1
11	O-glycosylated HBsAg peptide can induce specific antibody neutralizing HBV infection. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2022 , 1866, 130020	4	0
10	Molecular cloning and characterization of a novel UDP-Gal:GalNAc β peptide β ;3-galactosyltransferase (C1Gal-T2), an enzyme synthesizing a core 1 structure of O-glycan. VOLUME 277 (2002) PAGES 47724-47731. <i>Journal of Biological Chemistry</i> , 2006 , 281, 24999	5.4	
9	Identification of Polylactosamine Carrier Glycoprotein and Its Molecular Function. <i>Trends in Glycoscience and Glycotechnology</i> , 2019 , 31, SJ65-SJ66	0.1	
8	Identification of Polylactosamine Carrier Glycoprotein and Its Molecular Function. <i>Trends in Glycoscience and Glycotechnology</i> , 2019 , 31, SE65-SE66	0.1	
7	Polylactosamine and Immunity 2014 , 1-8		
6	UDP-GlcNAc: BetaGal Beta-1,3-N-Acetylglucosaminyltransferase 4 (B3GNT4) 2014 , 303-310		

- 5 UDP-GlcNAc: Beta-Gal Beta1,3-N-Acetylglucosaminyltransferase 6 (B3GNT6) (Core 3 Synthase, C3GnT) **2014**, 321-330
- 4 UDP-GlcNAc: BetaGal Beta-1,3-N-Acetylglucosaminyltransferase 5 (B3GNT5, Lc3Cer Synthase) **2014**, 311-320
- 3 UDP-GlcNAc: BetaGal Beta-1,3-N-Acetylglucosaminyltransferase 2 (B3GNT2) **2014**, 283-294
- 2 Beta1,3-N-Acetylgalactosaminyltransferase 2 (B3GALNT2) **2014**, 439-445
- 1 UDP-GlcNAc: BetaGal Beta-1,3-N-Acetylglucosaminyltransferase 8 (B3GNT8) **2014**, 337-345