

Hiroyuki Nakai

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Discovery of β -1,4-d-Mannosyl-N-acetyl-d-glucosamine Phosphorylase Involved in the Metabolism of N-Glycans. <i>Journal of Biological Chemistry</i> , 2013, 288, 27366-27374.	3.4	75
2	1,2- β -Oligoglucan Phosphorylase from <i>Listeria innocua</i> . <i>PLoS ONE</i> , 2014, 9, e92353.	2.5	42
3	Biochemical and structural analyses of a bacterial endo- β -1,2-glucanase reveal a new glycoside hydrolase family. <i>Journal of Biological Chemistry</i> , 2017, 292, 7487-7506.	3.4	42
4	Mutations in <i>SDR9C7</i> gene encoding an enzyme for vitamin A metabolism underlie autosomal recessive congenital ichthyosis. <i>Human Molecular Genetics</i> , 2016, 25, ddw277.	2.9	40
5	Functional and Structural Analysis of a β -Glucosidase Involved in β -1,2-Glucan Metabolism in <i>Listeria innocua</i> . <i>PLoS ONE</i> , 2016, 11, e0148870.	2.5	36
6	Large-scale Preparation of 1,2- β -Glucan Using 1,2- β -Oligoglucan Phosphorylase. <i>Journal of Applied Glycoscience</i> (1999), 2015, 62, 47-52.	0.7	34
7	Discovery of Two β -1,2-Mannoside Phosphorylases Showing Different Chain-Length Specificities from <i>Thermoanaerobacter</i> sp. X-514. <i>PLoS ONE</i> , 2014, 9, e114882.	2.5	28
8	Function and structure relationships of a β -1,2-glucooligosaccharide-degrading β -glucosidase. <i>FEBS Letters</i> , 2017, 591, 3926-3936.	2.8	26
9	One Pot Enzymatic Production of Nigerose from Common Sugar Resources Employing Nigerose Phosphorylase. <i>Journal of Applied Glycoscience</i> (1999), 2014, 61, 75-80.	0.7	25
10	Crystal Structure and Substrate Recognition of Cellobionic Acid Phosphorylase, Which Plays a Key Role in Oxidative Cellulose Degradation by Microbes. <i>Journal of Biological Chemistry</i> , 2015, 290, 18281-18292.	3.4	22
11	Structural and thermodynamic insights into β -1,2-glucooligosaccharide capture by a solute-binding protein in <i>Listeria innocua</i> . <i>Journal of Biological Chemistry</i> , 2018, 293, 8812-8828.	3.4	19
12	Identification, characterization, and structural analyses of a fungal endo- β -1,2-glucanase reveal a new glycoside hydrolase family. <i>Journal of Biological Chemistry</i> , 2019, 294, 7942-7965.	3.4	18
13	Next-generation prebiotic promotes selective growth of bifidobacteria, suppressing <i>Clostridioides difficile</i> . <i>Gut Microbes</i> , 2021, 13, 1973835.	9.8	18
14	Characterization and crystal structure determination of β -1,2-mannobiose phosphorylase from <i>Listeria innocua</i> . <i>FEBS Letters</i> , 2015, 589, 3816-3821.	2.8	17
15	Structural Basis for Reversible Phosphorolysis and Hydrolysis Reactions of 2-O- β -Glucosylglycerol Phosphorylase. <i>Journal of Biological Chemistry</i> , 2014, 289, 18067-18075.	3.4	14
16	Characterization and Structural Analysis of a Novel <i>exo</i> -Type Enzyme Acting on β -1,2-Glucooligosaccharides from <i>Parabacteroides distasonis</i> . <i>Biochemistry</i> , 2018, 57, 3849-3860.	2.5	14
17	An inverting β -1,2-mannosidase belonging to glycoside hydrolase family 130 from <i>Dyadobacter fermentans</i> . <i>FEBS Letters</i> , 2015, 589, 3604-3610.	2.8	9
18	Large-scale preparation of β -1,2-glucan using quite a small amount of sophorose. <i>Bioscience, Biotechnology and Biochemistry</i> , 2019, 83, 1867-1874.	1.3	9

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19	Colorimetric determination of β -1,2-glucooligosaccharides for an enzymatic assay using 3-methyl-2-benzothiazolinonehydrazone. <i>Analytical Biochemistry</i> , 2018, 560, 1-6.	2.4	7
20	Colorimetric Quantification of β -D-Mannose 1-Phosphate. <i>Journal of Applied Glycoscience</i> (1999), 2013, 60, 137-139.	0.7	7
21	Structure of a bacterial β -1,2-glucosidase defines mechanisms of hydrolysis and substrate specificity in GH65 family hydrolases. <i>Journal of Biological Chemistry</i> , 2021, 297, 101366.	3.4	7
22	Alkoxy carbonyl elimination of 3-O-substituted glucose and fructose by heat treatment under neutral pH. <i>Carbohydrate Research</i> , 2020, 496, 108129.	2.3	6
23	Enzymatic control and evaluation of degrees of polymerization of β -(1 \rightarrow 2)-glucans. <i>Analytical Biochemistry</i> , 2021, 632, 114366.	2.4	6
24	Novel splice site mutation in the fumarate hydratase (<i>FH</i>) gene is associated with multiple cutaneous leiomyomas in a Japanese patient. <i>Journal of Dermatology</i> , 2016, 43, 85-91.	1.2	5
25	Characterization and structural analyses of a novel glycosyltransferase acting on the β -1,2-glycosidic linkages. <i>Journal of Biological Chemistry</i> , 2022, 298, 101606.	3.4	5
26	Synthesis of three deoxy-sophorose derivatives for evaluating the requirement of hydroxy groups at position 3 and/or 3 α of sophorose by 1,2- β -oligoglucan phosphorylases. <i>Carbohydrate Research</i> , 2018, 468, 13-22.	2.3	4
27	Discovery of solabiose phosphorylase and its application for enzymatic synthesis of solabiose from sucrose and lactose. <i>Scientific Reports</i> , 2022, 12, 259.	3.3	2
28	[Review: Symposium on Applied Glycoscience] Discovery of Novel Phosphorylases Involved in Nigera Metabolism from <i>Clostridium phytofermentans</i> . <i>Bulletin of Applied Glycoscience</i> , 2014, 4, 147-153.	0.0	0
29	[Review: Symposium on Applied Glycoscience] Discovery of Novel β -Mannoside Phosphorylases. <i>Bulletin of Applied Glycoscience</i> , 2015, 5, 120-127.	0.0	0
30	[Review] Enzymatic Syntheses of Functional Oligosaccharides. <i>Bulletin of Applied Glycoscience</i> , 2018, 8, 51-55.	0.0	0