

Katsuro Yaoi

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59
papers

1,611
citations

24
h-index

39
g-index

62
ext. papers

1,800
ext. citations

4.1
avg, IF

4.64
L-index

#	Paper	IF	Citations
59	The lipopolysaccharide-binding protein participating in hemocyte nodule formation in the silkworm <i>Bombyx mori</i> is a novel member of the C-type lectin superfamily with two different tandem carbohydrate-recognition domains. <i>FEBS Letters</i> , 1999 , 443, 139-43	3.8	147
58	Characterization of a novel β -glucosidase from a compost microbial metagenome with strong transglycosylation activity. <i>Journal of Biological Chemistry</i> , 2013 , 288, 18325-34	5.4	95
57	Generation and structural validation of a library of diverse xyloglucan-derived oligosaccharides, including an update on xyloglucan nomenclature. <i>Carbohydrate Research</i> , 2015 , 402, 56-66	2.9	88
56	Aminopeptidase N from <i>Bombyx mori</i> as a candidate for the receptor of <i>Bacillus thuringiensis</i> Cry1Aa toxin. <i>FEBS Journal</i> , 1997 , 246, 652-7		88
55	Aminopeptidase N isoforms from the midgut of <i>Bombyx mori</i> and <i>Plutella xylostella</i> -- their classification and the factors that determine their binding specificity to <i>Bacillus thuringiensis</i> Cry1A toxin. <i>FEBS Letters</i> , 2002 , 519, 215-20	3.8	83
54	Engineering the <i>Oryza sativa</i> cell wall with rice NAC transcription factors regulating secondary wall formation. <i>Frontiers in Plant Science</i> , 2013 , 4, 383	6.2	67
53	Lipopolysaccharide-binding protein of <i>Bombyx mori</i> participates in a hemocyte-mediated defense reaction against gram-negative bacteria. <i>Journal of Insect Physiology</i> , 1999 , 45, 853-859	2.4	64
52	Cloning and characterization of two xyloglucanases from <i>Paenibacillus</i> sp. strain KM21. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 7670-8	4.8	63
51	Purification, characterization, cloning, and expression of a novel xyloglucan-specific glycosidase, oligoxyloglucan reducing end-specific cellobiohydrolase. <i>Journal of Biological Chemistry</i> , 2002 , 277, 48276-81	5.4	63
50	Purification, characterization, cDNA cloning, and expression of a xyloglucan endoglucanase from <i>Geotrichum</i> sp. M128. <i>FEBS Letters</i> , 2004 , 560, 45-50	3.8	56
49	A cadherin-like protein functions as a receptor for <i>Bacillus thuringiensis</i> Cry1Aa and Cry1Ac toxins on midgut epithelial cells of <i>Bombyx mori</i> larvae. <i>FEBS Letters</i> , 2003 , 538, 29-34	3.8	53
48	The structural basis for the exo-mode of action in GH74 oligoxyloglucan reducing end-specific cellobiohydrolase. <i>Journal of Molecular Biology</i> , 2007 , 370, 53-62	6.5	46
47	Tandem repeat of a seven-bladed beta-propeller domain in oligoxyloglucan reducing-end-specific cellobiohydrolase. <i>Structure</i> , 2004 , 12, 1209-17	5.2	43
46	Substrate recognition by glycoside hydrolase family 74 xyloglucanase from the basidiomycete <i>Phanerochaete chrysosporium</i> . <i>FEBS Journal</i> , 2007 , 274, 5727-36	5.7	40
45	Crystal structure and identification of a key amino acid for glucose tolerance, substrate specificity, and transglycosylation activity of metagenomic β -glucosidase Td2F2. <i>FEBS Journal</i> , 2016 , 283, 2340-53	5.7	39
44	cDNA cloning and expression of <i>Bacillus thuringiensis</i> Cry1Aa toxin binding 120 kDa aminopeptidase N from <i>Bombyx mori</i> . <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1999 , 1444, 131-7		38
43	Screening, identification, and characterization of a GH43 family β -xylosidase/ β -arabinofuranosidase from a compost microbial metagenome. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 8943-54	5.7	37

42	Characterization of an endo-processive-type xyloglucanase having a E1,4-glucan-binding module and an endo-type xyloglucanase from <i>Streptomyces avermitilis</i> . <i>Applied and Environmental Microbiology</i> , 2012 , 78, 7939-45	4.8	29
41	Key amino acid residues for the endo-processive activity of GH74 xyloglucanase. <i>FEBS Letters</i> , 2014 , 588, 1731-8	3.8	28
40	Screening, identification, and characterization of a novel saccharide-stimulated Eglycosidase from a soil metagenomic library. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 633-646	5.7	28
39	The impact of a single-nucleotide mutation of bgl2 on cellulase induction in a <i>Trichoderma reesei</i> mutant. <i>Biotechnology for Biofuels</i> , 2015 , 8, 230	7.8	27
38	<i>Bacillus thuringiensis</i> Cry1Aa toxin-binding region of <i>Bombyx mori</i> aminopeptidase N. <i>FEBS Letters</i> , 1999 , 463, 221-4	3.8	26
37	Acaloleptins A: inducible antibacterial peptides from larvae of the beetle, <i>Acalolepta luxuriosa</i> . <i>Archives of Insect Biochemistry and Physiology</i> , 1999 , 40, 88-98	2.3	25
36	GH30 Glucuronoxylan-Specific Xylanase from <i>Streptomyces turgidiscabies</i> C56. <i>Applied and Environmental Microbiology</i> , 2018 , 84,	4.8	24
35	A system for the directed evolution of the insecticidal protein from <i>Bacillus thuringiensis</i> . <i>Molecular Biotechnology</i> , 2007 , 36, 90-101	3	23
34	Screening, identification, and characterization of Ekylosidase from a soil metagenome. <i>Journal of Bioscience and Bioengineering</i> , 2016 , 122, 393-9	3.3	22
33	Lipid metabolism of the oleaginous yeast <i>Lipomyces starkeyi</i> . <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 6141-6148	5.7	21
32	The crystal structure of a xyloglucan-specific endo-beta-1,4-glucanase from <i>Geotrichum</i> sp. M128 xyloglucanase reveals a key amino acid residue for substrate specificity. <i>FEBS Journal</i> , 2009 , 276, 5094-100	5.7	21
31	<i>Bacillus thuringiensis</i> insecticidal Cry1Aa toxin binds to a highly conserved region of aminopeptidase N in the host insect leading to its evolutionary success. <i>BBA - Proteins and Proteomics</i> , 1999 , 1432, 57-63		21
30	Identification of the Gene Encoding Isoprimeverose-producing Oligoxyloglucan Hydrolase in <i>Aspergillus oryzae</i> . <i>Journal of Biological Chemistry</i> , 2016 , 291, 5080-7	5.4	18
29	Screening, Purification and Characterization of a Prokaryotic Isoprimeverose-producing Oligoxyloglucan Hydrolase from <i>Oerskovia</i> sp. Y1. <i>Journal of Applied Glycoscience (1999)</i> , 2007 , 54, 91-94 ¹		17
28	Binding of phylogenetically distant <i>Bacillus thuringiensis</i> cry toxins to a <i>Bombyx mori</i> aminopeptidase N suggests importance of Cry toxin's conserved structure in receptor binding. <i>Current Microbiology</i> , 1999 , 39, 14-20	2.4	16
27	Crystal structure of metagenomic Ekylosidase/ E1-arabinofuranosidase activated by calcium. <i>Journal of Biochemistry</i> , 2017 , 162, 173-181	3.1	15
26	Improvement of thermostability and activity of <i>Trichoderma reesei</i> endo-xylanase Xyn III on insoluble substrates. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 8043-51	5.7	12
25	Diversity of extradiol dioxygenases in aromatic-degrading microbial community explored using both culture-dependent and culture-independent approaches. <i>FEMS Microbiology Ecology</i> , 2014 , 90, 367-379	4.3	11

24	Cloning and Expression of Isoprimeverose-producing Oligoxyloglucan Hydrolase from Actinomycetes Species, <i>Oerskovia</i> sp. Y1. <i>Journal of Applied Glycoscience</i> (1999), 2012 , 59, 83-88	1	11
23	A novel electroporation procedure for highly efficient transformation of <i>Lipomyces starkeyi</i> . <i>Journal of Microbiological Methods</i> , 2020 , 169, 105816	2.8	11
22	GH74 Xyloglucanases: Structures and Modes of Activity. <i>Trends in Glycoscience and Glycotechnology</i> , 2016 , 28, E63-E70	0.1	10
21	Rational protein design for thermostabilization of glycoside hydrolases based on structural analysis. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 8677-8684	5.7	10
20	Improved thermostability of a metagenomic glucose-tolerant β -glycosidase based on its X-ray crystal structure. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 8353-8363	5.7	9
19	Identification and characterization of β -xylosidase involved in xyloglucan degradation in <i>Aspergillus oryzae</i> . <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 201-210	5.7	8
18	Identification and characterization of $\Delta 2$ and $\Delta 2/\Delta 5$ bifunctional fatty acid desaturases in the oleaginous yeast <i>Lipomyces starkeyi</i> . <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 8817-8826	5.7	7
17	Cooperation between β -galactosidase and an isoprimeverose-producing oligoxyloglucan hydrolase is key for xyloglucan degradation in <i>Aspergillus bryzae</i> . <i>FEBS Journal</i> , 2019 , 286, 3182-3193	5.7	6
16	Aglycone specificity of <i>Escherichia coli</i> alpha-xylosidase investigated by transxylosylation. <i>FEBS Journal</i> , 2007 , 274, 6074-84	5.7	6
15	Isolation and characterization of <i>Lipomyces starkeyi</i> mutants with greatly increased lipid productivity following UV irradiation. <i>Journal of Bioscience and Bioengineering</i> , 2021 , 131, 613-621	3.3	6
14	Whole-Genome Sequence of GB-01, an Industrial Strain for Food Colorant Production. <i>Microbiology Resource Announcements</i> , 2019 , 8,	1.3	5
13	Crystallization and preliminary X-ray crystallographic study on a xyloglucan-specific exo-beta-glycosidase, oligoxyloglucan reducing-end specific cellobiohydrolase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003 , 59, 1838-9		5
12	Crystal structure and substrate recognition mechanism of <i>Aspergillus oryzae</i> isoprimeverose-producing enzyme. <i>Journal of Structural Biology</i> , 2019 , 205, 84-90	3.4	5
11	Identification and characterization of two xyloglucan-specific endo-1,4-glucanases in <i>Aspergillus oryzae</i> . <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 8761-8773	5.7	4
10	A novel isoprimeverose-producing enzyme from is active with low concentrations of xyloglucan oligosaccharides. <i>FEBS Open Bio</i> , 2019 , 9, 92-100	2.7	3
9	Identification and characterization of two fatty acid elongases in <i>Lipomyces starkeyi</i> . <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 2537-2544	5.7	2
8	Characterization of xylan in the early stages of secondary cell wall formation in tobacco bright yellow-2 cells. <i>Carbohydrate Polymers</i> , 2017 , 176, 381-391	10.3	2
7	Functions and Structures of Xyloglucan Hydrolases Belonging to Glycoside Hydrolase Family 74. <i>Journal of Applied Glycoscience</i> (1999), 2005 , 52, 169-176	1	2

6	Enzymatic degradation of xyloglucans by <i>Aspergillus</i> species: a comparative view of this genus. <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 2701-2711	5-7	2
5	Substrate Recognition of <i>Escherichia coli</i> Y1c1 (α -Xylosidase). <i>Journal of Applied Glycoscience</i> (1999), 2008 , 55, 111-118	1	1
4	Further Structural Study of the Xyloglucanase-derived Eggplant Xyloglucan Oligo-saccharides. <i>Journal of Applied Glycoscience</i> (1999), 2010 , 57, 265-268	1	1
3	Identification and characterization of <i>Pseudozyma antarctica</i> Δ 2 fatty acid desaturase and its utilization for the production of polyunsaturated fatty acids. <i>Journal of Bioscience and Bioengineering</i> , 2020 , 130, 604-609	3-3	1
2	GH74 Xyloglucanases: Structures and Modes of Activity. <i>Trends in Glycoscience and Glycotechnology</i> , 2016 , 28, J63-J70	0.1	0
1	Characterization of an extracellular Xylosidase involved in xyloglucan degradation in <i>Aspergillus oryzae</i> . <i>Applied Microbiology and Biotechnology</i> , 2021 , 106, 675	5-7	0