Lubbert Dijkhuizen

List of Publications by Year
in descending order

376 papers	21,557 citations	8749 75 h-index	15716 125 g-index
386 all docs	386 docs citations	386 times ranked	13616 citing authors

#	Article	IF	Citations
1	Enzymatic glucosylation of polyphenols using glucansucrases and branching sucrases of glycoside hydrolase family 70. Critical Reviews in Food Science and Nutrition, 2023, 63, 5247-5267.	5.4	4
2	Mutations in Amino Acid Residues of <i>Limosilactobacillus reuteri</i> 121 GtfB 4,6-Î±-Glucanotransferase that Affect Reaction and Product Specificity. Journal of Agricultural and Food Chemistry, 2022, 70, 1952-1961.	2.4	3
3	Potential Dental Biofilm Inhibitors: Dynamic Combinatorial Chemistry Affords Sugarâ€Based Molecules that Target Bacterial Glucosyltransferase. ChemMedChem, 2021, 16, 113-123.	1.6	6
4	Variations in N-linked glycosylation of glycosylation-dependent cell adhesion molecule 1 (GlyCAM-1) whey protein: Intercow differences and dietary effects. Journal of Dairy Science, 2021, 104, 5056-5068.	1.4	3
5	Extraction and Quantitative Analysis of Goat Milk Oligosaccharides: Composition, Variation, Associations, and 2â€²-FL Variability. Journal of Agricultural and Food Chemistry, 2021, 69, 7851-7862.	2.4	11
6	GtfC Enzyme of <i>Geobacillus</i> sp. 12AMOR1 Represents a Novel Thermostable Type of GH70 4,6-Î±-Glucanotransferase That Synthesizes a Linear Alternating (Î±1 â†' 6)/(Î±1 â†' 4) Î±-Glucan and Delays Bread Staling. Journal of Agricultural and Food Chemistry, 2021, 69, 9859-9868.	2.4	7
7	2â€²-Fucosyllactose impacts the expression of mucus-related genes in goblet cells and maintains barrier function of gut epithelial cells. Journal of Functional Foods, 2021, 85, 104630.	1.6	8
8	Insights into Broad-Specificity Starch Modification from the Crystal Structure of <i>Limosilactobacillus Reuteri</i> NCC 2613 4,6-Î±-Glucanotransferase GtfB. Journal of Agricultural and Food Chemistry, 2021, 69, 13235-13245.	2.4	14
9	Synthesis of novel Î±-glucans with potential health benefits through controlled glucose release in the human gastrointestinal tract. Critical Reviews in Food Science and Nutrition, 2020, 60, 123-146.	5.4	40
10	Dynamic Temporal Variations in Bovine Lactoferrin Glycan Structures. Journal of Agricultural and Food Chemistry, 2020, 68, 549-560.	2.4	21
11	Quantitative analysis of bovine whey glycoproteins using the overall N-linked whey glycoprofile. International Dairy Journal, 2020, 110, 104814.	1.5	6
12	Structures, physico-chemical properties, production and (potential) applications of sucrose-derived Î±-d-glucans synthesized by glucansucrases. Carbohydrate Polymers, 2020, 249, 116818.	5.1	24
13	Goat Milk Oligosaccharides: Their Diversity, Quantity, and Functional Properties in Comparison to Human Milk Oligosaccharides. Journal of Agricultural and Food Chemistry, 2020, 68, 13469-13485.	2.4	52
14	Inhibitory Effects of Dietary N-Glycans From Bovine Lactoferrin on Toll-Like Receptor 8; Comparing Efficacy With Chloroquine. Frontiers in Immunology, 2020, 11, 790.	2.2	12
15	In Depth Analysis of the Contribution of Specific Glycoproteins to the Overall Bovine Whey N-Linked Glycoprofile. Journal of Agricultural and Food Chemistry, 2020, 68, 6544-6553.	2.4	11
16	Structural Comparison of Different Galacto-oligosaccharide Mixtures Formed by Î²-Galactosidases from Lactic Acid Bacteria and Bifidobacteria. Journal of Agricultural and Food Chemistry, 2020, 68, 4437-4446.	2.4	14
17	The impact of oligosaccharide content, glycosidic linkages and lactose content of galacto-oligosaccharides (GOS) on the expression of mucus-related genes in goblet cells. Food and Function, 2020, 11, 3506-3515.	2.1	21
18	Development of Slowly Digestible Starch Derived Î±-Glucans with 4,6-Î±-Glucanotransferase and Branching Sucrase Enzymes. Journal of Agricultural and Food Chemistry, 2020, 68, 6664-6671.	2.4	18

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19	Trans-Î±-glucosylation of stevioside by the mutant glucansucrase enzyme Gtf180-Î”N-Q1140E improves its taste profile. Food Chemistry, 2019, 272, 653-662.	4.2	30
20	Large-scale quantitative isolation of pure protein N-linked glycans. Carbohydrate Research, 2019, 479, 13-22.	1.1	16
21	Synthesis and Characterization of Sialylated Lactose- and Lactulose-Derived Oligosaccharides by <i>Trypanosoma cruzi</i> Trans-sialidase. Journal of Agricultural and Food Chemistry, 2019, 67, 3469-3479.	2.4	10
22	Structural Identity of Galactooligosaccharide Molecules Selectively Utilized by Single Cultures of Probiotic Bacterial Strains. Journal of Agricultural and Food Chemistry, 2019, 67, 13969-13977.	2.4	29
23	Structural and functional characterization of a family GH53 Î²-1,4-galactanase from Bacteroides thetaiotaomicron that facilitates degradation of prebiotic galactooligosaccharides. Journal of Structural Biology, 2019, 205, 1-10.	1.3	31
24	Stimulatory effects of novel glucosylated lactose derivatives GL34 on growth of selected gut bacteria. Applied Microbiology and Biotechnology, 2019, 103, 707-718.	1.7	5
25	Biochemical characterization of two GH70 family 4,6-Î±-glucanotransferases with distinct product specificity from Lactobacillus aviarius subsp. aviarius DSM 20655. Food Chemistry, 2018, 253, 236-246.	4.2	26
26	Glucansucrase (mutant) enzymes from Lactobacillus reuteri 180 efficiently transglucosylate Stevia component rebaudioside A, resulting in a superior taste. Scientific Reports, 2018, 8, 1516.	1.6	27
27	Biotechnological potential of novel glycoside hydrolase family 70 enzymes synthesizing Î±-glucans from starch and sucrose. Biotechnology Advances, 2018, 36, 196-207.	6.0	68
28	Regional variations in human milk oligosaccharides in Vietnam suggest FucTx activity besides FucT2 and FucT3. Scientific Reports, 2018, 8, 16790.	1.6	28
29	Mutational Analysis of the Role of the Glucansucrase Gtf180-Î”N Active Site Residues in Product and Linkage Specificity with Lactose as Acceptor Substrate. Journal of Agricultural and Food Chemistry, 2018, 66, 12544-12554.	2.4	6
30	Structural characterization of glucosylated GOS derivatives synthesized by the Lactobacillus reuteri GtfA and Gtf180 glucansucrase enzymes. Carbohydrate Research, 2018, 470, 57-63.	1.1	5
31	Cross-Feeding among Probiotic Bacterial Strains on Prebiotic Inulin Involves the Extracellular <i>exo</i> -Inulinase of Lactobacillus paracasei Strain W20. Applied and Environmental Microbiology, 2018, 84, .	1.4	45
32	Biochemical characterization of a GH70 protein from Lactobacillus kunkeei DSM 12361 with two catalytic domains involving branching sucrase activity. Applied Microbiology and Biotechnology, 2018, 102, 7935-7950.	1.7	22
33	Synthesis of galacto-oligosaccharides derived from lactulose by wild-type and mutant Î²-galactosidase enzymes from Bacillus circulans ATCC 31382. Carbohydrate Research, 2018, 465, 58-65.	1.1	12
34	Dietary Nâ€Glycans from Bovine Lactoferrin and TLR Modulation. Molecular Nutrition and Food Research, 2018, 62, 1700389.	1.5	31
35	4,3-Î±-Glucanotransferase, a novel reaction specificity in glycoside hydrolase family 70 and clan GH-H. Scientific Reports, 2017, 7, 39761.	1.6	42
36	Prebiotic galactooligosaccharides activate mucin and pectic galactan utilization pathways in the human gut symbiont Bacteroides thetaiotaomicron. Scientific Reports, 2017, 7, 40478.	1.6	41

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37	Crystal Structure of 4,6-Î±-Glucanotransferase Supports Diet-Driven Evolution of GH70 Enzymes from Î±-Amylases in Oral Bacteria. Structure, 2017, 25, 231-242.	1.6	45
38	Reaction kinetics and galactooligosaccharide product profiles of the Î²-galactosidases from Bacillus circulans, Kluyveromyces lactis and Aspergillus oryzae. Food Chemistry, 2017, 225, 230-238.	4.2	67
39	Engineering of the <i>Bacillus circulans</i> Î²-Galactosidase Product Specificity. Biochemistry, 2017, 56, 704-711.	1.2	30
40	Structural analysis of rebaudioside A derivatives obtained by Lactobacillus reuteri 180 glucansucrase-catalyzed trans-Î±-glucosylation. Carbohydrate Research, 2017, 440-441, 51-62.	1.1	19
41	Draft Genome Sequence of Lactobacillus reuteri 121, a Source of Î±-Glucan and Î²-Fructan Exopolysaccharides. Genome Announcements, 2017, 5, .	0.8	3
42	Catechol glucosides act as donor/acceptor substrates of glucansucrase enzymes of Lactobacillus reuteri. Applied Microbiology and Biotechnology, 2017, 101, 4495-4505.	1.7	6
43	A new group of glycoside hydrolase family 13 Î±-amylases with an aberrant catalytic triad. Scientific Reports, 2017, 7, 44230.	1.6	32
44	Mining novel starch-converting Glycoside Hydrolase 70 enzymes from the NestlÃ© Culture Collection genome database: The Lactobacillus reuteri NCC 2613 GtfB. Scientific Reports, 2017, 7, 9947.	1.6	27
45	Structural characterization of glucosylated lactose derivatives synthesized by the Lactobacillus reuteri GtfA and Gtf180 glucansucrase enzymes. Carbohydrate Research, 2017, 449, 59-64.	1.1	13
46	Characterization of the glucansucrase GTF180 W1065 mutant enzymes producing polysaccharides and oligosaccharides with altered linkage composition. Food Chemistry, 2017, 217, 81-90.	4.2	33
47	Molecular characterization of a Rhodococcus jostii RHA1 Î³-butyrolactone(-like) signalling molecule and its main biosynthesis gene gblA. Scientific Reports, 2017, 7, 17743.	1.6	10
48	The evolutionary origin and possible functional roles of FNIII domains in two Microbacterium aurum B8.A granular starch degrading enzymes, and in other carbohydrate acting enzymes. Amylase, 2017, 1, 1-11.	0.7	19
49	Genome-based exploration of the specialized metabolic capacities of the genus Rhodococcus. BMC Genomics, 2017, 18, 593.	1.2	58
50	3-Hydroxybenzoate 6-Hydroxylase from Rhodococcus jostii RHA1 Contains a Phosphatidylinositol Cofactor. Frontiers in Microbiology, 2017, 8, 1110.	1.5	11
51	Biochemical Characterization of the Functional Roles of Residues in the Active Site of the Î²-Galactosidase from <i>Bacillus circulans</i> ATCC 31382. Biochemistry, 2017, 56, 3109-3118.	1.2	12
52	Molecular and biochemical characteristics of the inulosucrase HugO from Streptomyces viridochromogenes DSM40736 (TÃ¼4494). Microbiology (United Kingdom), 2017, 163, 1030-1041.	0.7	14
53	Characterization of the Paenibacillus beijingensis DSM 24997 GtfD and its glucan polymer products representing a new glycoside hydrolase 70 subfamily of 4,6-Î±-glucanotransferase enzymes. PLoS ONE, 2017, 12, e0172622.	1.1	26
54	Carbohydrateâ€binding module 74 is a novel starchâ€binding domain associated with large and multidomain Î±â€amylase enzymes. FEBS Journal, 2016, 283, 2354-2368.	2.2	28

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55	Structural determinants of alternating (Î±1â€‰â†’â€‰4) and (Î±1â€‰â†’â€‰6) linkage specificity in reuteransucrase of Lactobacillus reuteri. Scientific Reports, 2016, 6, 35261.	1.6	17
56	Characterization of the starch-acting MaAmyB enzyme from Microbacterium aurum B8.A representing the novel subfamily GH13_42 with an unusual, multi-domain organization. Scientific Reports, 2016, 6, 36100.	1.6	11
57	Structureâ€“function relationships of family GH70 glucansucrase and 4,6-Î±-glucanotransferase enzymes, and their evolutionary relationships with family GH13 enzymes. Cellular and Molecular Life Sciences, 2016, 73, 2681-2706.	2.4	64
58	Structural basis for the roles of starch and sucrose in homo-exopolysaccharide formation by Lactobacillus reuteri 35-5. Carbohydrate Polymers, 2016, 151, 29-39.	5.1	10
59	Modification of linear (Î²1â†’3)-linked gluco-oligosaccharides with a novel recombinant Î²-glucosyltransferase (<i>trans</i>-Î²-glucosidase) enzyme from<i>Bradyrhizobium diazoefficiens</i>. Glycobiology, 2016, 26, 1157-1170.	1.3	8
60	Stevia Glycosides. Advances in Carbohydrate Chemistry and Biochemistry, 2016, 73, 1-72.	0.4	65
61	Glucansucrase Gtf180-Î”N of Lactobacillus reuteri 180: enzyme and reaction engineering for improved glycosylation of non-carbohydrate molecules. Applied Microbiology and Biotechnology, 2016, 100, 7529-7539.	1.7	17
62	The Exiguobacteriumsibiricum 255-15 GtfC Enzyme Represents a Novel Glycoside Hydrolase 70 Subfamily of 4,6-Î±-Glucanotransferase Enzymes. Applied and Environmental Microbiology, 2016, 82, 756-766.	1.4	38
63	Comparative structural characterization of 7 commercial galacto-oligosaccharide (GOS) products. Carbohydrate Research, 2016, 425, 48-58.	1.1	75
64	<i>Lactobacillus reuteri</i> Strains Convert Starch and Maltodextrins into Homoexopolysaccharides Using an Extracellular and Cell-Associated 4,6-Î±-Glucanotransferase. Journal of Agricultural and Food Chemistry, 2016, 64, 2941-2952.	2.4	27
65	The Gram-negative bacterium Azotobacter chroococcum NCIMB 8003 employs a new glycoside hydrolase family 70 4,6-Î±-glucanotransferase enzyme (GtfD) to synthesize a reuteran like polymer from maltodextrins and starch. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 1224-1236.	1.1	39
66	Glucosylation of Catechol with the GTFA Glucansucrase Enzyme from <i>Lactobacillus reuteri</i> and Sucrose as Donor Substrate. Bioconjugate Chemistry, 2016, 27, 937-946.	1.8	16
67	Synthesis of New Hyperbranched Î±-Glucans from Sucrose by <i>Lactobacillus reuteri</i> 180 Glucansucrase Mutants. Journal of Agricultural and Food Chemistry, 2016, 64, 433-442.	2.4	25
68	Systems Approaches to Predict the Functions of Glycoside Hydrolases during the Life Cycle of Aspergillus niger Using Developmental Mutants âˆ†brlA and âˆ†flbA. PLoS ONE, 2015, 10, e0116269.	1.1	22
69	Kinetic characterization of Aspergillus niger chitinase CfcI using a HPAEC-PAD method for native chitin oligosaccharides. Carbohydrate Research, 2015, 407, 73-78.	1.1	16
70	Truncation of domain V of the multidomain glucansucrase GTF180 of Lactobacillus reuteri 180 heavily impairs its polysaccharide-synthesizing ability. Applied Microbiology and Biotechnology, 2015, 99, 5885-5894.	1.7	26
71	Characterization of the starvation-induced chitinase CfcA and Î±-1,3-glucanase AgnB of Aspergillus niger. Applied Microbiology and Biotechnology, 2015, 99, 2209-2223.	1.7	14
72	A GH57 4-Î±-glucanotransferase of hyperthermophilic origin with potential for alkyl glycoside production. Applied Microbiology and Biotechnology, 2015, 99, 7101-7113.	1.7	8

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73	Synthesis of oligo- and polysaccharides by Lactobacillus reuteri 121 reuteransucrase at high concentrations of sucrose. Carbohydrate Research, 2015, 414, 85-92.	1.1	18
74	Enzymatic Decoration of Prebiotic Galacto-oligosaccharides (Vivinal GOS) with Sialic Acid UsingTrypanosoma cruzitrans-Sialidase and Two Bovine Sialoglycoconjugates as Donor Substrates. Journal of Agricultural and Food Chemistry, 2015, 63, 5976-5984.	2.4	15
75	Structural and Functional Characterization of a Novel Family GH115 4-O-Methyl-Î±-Glucuronidase with Specificity for Decorated Arabinogalactans. Journal of Molecular Biology, 2015, 427, 3935-3946.	2.0	18
76	Differential Metabolism of Exopolysaccharides from Probiotic Lactobacilli by the Human Gut Symbiont Bacteroides thetaiotaomicron. Applied and Environmental Microbiology, 2015, 81, 3973-3983.	1.4	49
77	Biochemical Characterization of the Lactobacillus reuteri Glycoside Hydrolase Family 70 GTFB Type of 4,6-Î±-Glucanotransferase Enzymes That Synthesize Soluble Dietary Starch Fibers. Applied and Environmental Microbiology, 2015, 81, 7223-7232.	1.4	54
78	Characterization of the 4,6-Î±-glucanotransferase GTFB enzyme of Lactobacillus reuteri 121 isolated from inclusion bodies. BMC Biotechnology, 2015, 15, 49.	1.7	15
79	Characterization of the Functional Roles of Amino Acid Residues in Acceptor-binding Subsite +1 in the Active Site of the Glucansucrase GTF180 from Lactobacillus reuteri 180. Journal of Biological Chemistry, 2015, 290, 30131-30141.	1.6	31
80	Degradation of Granular Starch by the Bacterium Microbacterium aurum Strain B8.A Involves a Modular Î±-Amylase Enzyme System with FNIII and CBM25 Domains. Applied and Environmental Microbiology, 2015, 81, 6610-6620.	1.4	29
81	Biosynthesis of a steroid metabolite by an engineered Rhodococcus erythropolis strain expressing a mutant cytochrome P450 BM3 enzyme. Applied Microbiology and Biotechnology, 2015, 99, 4713-4721.	1.7	25
82	Residue Leu940 Has a Crucial Role in the Linkage and Reaction Specificity of the Glucansucrase GTF180 of the Probiotic Bacterium Lactobacillus reuteri 180. Journal of Biological Chemistry, 2014, 289, 32773-32782.	1.6	33
83	Biochemical characterization of mutants in the active site residues of the Î²â€galactosidase enzyme of <i>Bacillus circulans</i> ATCC 31382. FEBS Open Bio, 2014, 4, 1015-1020.	1.0	21
84	Rapid milk group classification by 1H NMR analysis of Le and H epitopes in human milk oligosaccharide donor samples. Glycobiology, 2014, 24, 728-739.	1.3	39
85	Flexibility of truncated and fullâ€length glucansucrase <scp>GTF</scp>180 enzymes from <i>LactobacillusÂreuteri</i> 180. FEBS Journal, 2014, 281, 2159-2171.	2.2	21
86	Isomalto/Malto-Polysaccharide, A Novel Soluble Dietary Fiber Made Via Enzymatic Conversion of Starch. Journal of Agricultural and Food Chemistry, 2014, 62, 12034-12044.	2.4	73
87	1 H NMR analysis of the lactose/Î²-galactosidase-derived galacto-oligosaccharide components of VivinalÂ® GOS up to DP5. Carbohydrate Research, 2014, 400, 59-73.	1.1	54
88	Development of a 1 H NMR structural-reporter-group concept for the analysis of prebiotic galacto-oligosaccharides of the [Î²- d -Gal p -(1â†’ x)] n - d -Glc p type. Carbohydrate Research, 2014, 400, 54-58.	1.1	27
89	Habitat-specific type I polyketide synthases in soils and street sediments. Journal of Industrial Microbiology and Biotechnology, 2014, 41, 75-85.	1.4	21
90	Galactosyl-Lactose Sialylation Using Trypanosoma cruzi trans-Sialidase as the Biocatalyst and Bovine Îº-Casein-Derived Glycomacropeptide as the Donor Substrate. Applied and Environmental Microbiology, 2014, 80, 5984-5991.	1.4	20

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91	3-Ketosteroid 9Î±-hydroxylase enzymes: Rieske non-heme monooxygenases essential for bacterial steroid degradation. Antonie Van Leeuwenhoek, 2014, 106, 157-172.	0.7	49
92	Chitinases CtcB and CfcI modify the cell wall in sporulating aerial mycelium of Aspergillus niger. Microbiology (United Kingdom), 2013, 159, 1853-1867.	0.7	17
93	4,6-Î±-Glucanotransferase activity occurs more widespread in Lactobacillus strains and constitutes a separate GH70 subfamily. Applied Microbiology and Biotechnology, 2013, 97, 181-193.	1.7	52
94	Structural investigation of water-soluble polysaccharides extracted from the fruit bodies of Coprinus comatus. Carbohydrate Polymers, 2013, 91, 314-321.	5.1	71
95	Gluco-oligomers initially formed by the reuteransucrase enzyme of Lactobacillus reuteri 121 incubated with sucrose and malto-oligosaccharides. Glycobiology, 2013, 23, 1084-1096.	1.3	33
96	Glucansucrases: Three-dimensional structures, reactions, mechanism, Î±-glucan analysis and their implications in biotechnology and food applications. Journal of Biotechnology, 2013, 163, 250-272.	1.9	250
97	Chaplins of Streptomyces coelicolor self-assemble into two distinct functional amyloids. Journal of Structural Biology, 2013, 184, 301-309.	1.3	24
98	Raw starch-degrading Î±-amylase from<i>Bacillus aquimaris</i>MKSC 6.2: isolation and expression of the gene, bioinformatics and biochemical characterization of the recombinant enzyme. Journal of Applied Microbiology, 2013, 114, 108-120.	1.4	56
99	An Unconventional Glycosyl Transfer Reaction: Glucansucrase GTFA Functions as an Allosyltransferase Enzyme. ChemBioChem, 2013, 14, 2423-2426.	1.3	9
100	Structural characterization of linear isomalto-/malto-oligomer products synthesized by the novel GTFB 4,6-Î±-glucanotransferase enzyme from Lactobacillus reuteri 121. Glycobiology, 2012, 22, 517-528.	1.3	60
101	Biochemical characterization of Aspergillus niger CfcI, a glycoside hydrolase family 18 chitinase that releases monomers during substrate hydrolysis. Microbiology (United Kingdom), 2012, 158, 2168-2179.	0.7	23
102	Glycosidic bond specificity of glucansucrases: on the role of acceptor substrate binding residues. Biocatalysis and Biotransformation, 2012, 30, 366-376.	1.1	53
103	The role of conserved inulosucrase residues in the reaction and product specificity of <i>Lactobacillusâ€ƒreuteri</i> inulosucrase. FEBS Journal, 2012, 279, 3612-3621.	2.2	23
104	Structure and Catalytic Mechanism of 3-Ketosteroid-Î”4-(5Î±)-dehydrogenase from Rhodococcus jostii RHA1 Genome. Journal of Biological Chemistry, 2012, 287, 30975-30983.	1.6	25
105	Molecular characterization of ltp3 and ltp4, essential for C24-branched chain sterol-side-chain degradation in Rhodococcus rhodochrous DSM 43269. Microbiology (United Kingdom), 2012, 158, 3054-3062.	0.7	23
106	<i>N</i>- and <i>O</i>-Glycosylation of a Commercial Bovine Whey Protein Product. Journal of Agricultural and Food Chemistry, 2012, 60, 12553-12564.	2.4	21
107	Use of Wisteria floribunda agglutinin affinity chromatography in the structural analysis of the bovine lactoferrin N-linked glycosylation. Biochimica Et Biophysica Acta - General Subjects, 2012, 1820, 1444-1455.	1.1	36
108	Enzymatic Glycosylation of Small Molecules: Challenging Substrates Require Tailored Catalysts. Chemistry - A European Journal, 2012, 18, 10786-10801.	1.7	183

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109	Structure of the Î±-1,6/Î±-1,4-specific glucansucrase GTFA from<i>Lactobacillus reuteri</i>121. Acta Crystallographica Section F: Structural Biology Communications, 2012, 68, 1448-1454.	0.7	47
110	Binding Interactions Between Î±-glucans from Lactobacillus reuteri and Milk Proteins Characterised by Surface Plasmon Resonance. Food Biophysics, 2012, 7, 220-226.	1.4	15
111	Structural Features in the KshA Terminal Oxygenase Protein That Determine Substrate Preference of 3-Ketosteroid 9Â-Hydroxylase Enzymes. Journal of Bacteriology, 2012, 194, 115-121.	1.0	30
112	SapB and the rodlins are required for development of Streptomyces coelicolor in high osmolarity media. FEMS Microbiology Letters, 2012, 329, 154-159.	0.7	13
113	Enzymatic degradation of granular potato starch by Microbacterium aurum strain B8.A. Applied Microbiology and Biotechnology, 2012, 93, 645-654.	1.7	36
114	FadD19 of Rhodococcus rhodochrous DSM43269, a Steroid-Coenzyme A Ligase Essential for Degradation of C-24 Branched Sterol Side Chains. Applied and Environmental Microbiology, 2011, 77, 4455-4464.	1.4	62
115	Multiplicity of 3-Ketosteroid-9Î±-Hydroxylase Enzymes in Rhodococcus rhodochrous DSM43269 for Specific Degradation of Different Classes of Steroids. Journal of Bacteriology, 2011, 193, 3931-3940.	1.0	76
116	4,6-Î±-Glucanotransferase, a Novel Enzyme That Structurally and Functionally Provides an Evolutionary Link between Glycoside Hydrolase Enzyme Families 13 and 70. Applied and Environmental Microbiology, 2011, 77, 8154-8163.	1.4	81
117	Crystal Structure of Inulosucrase from Lactobacillus: Insights into the Substrate Specificity and Product Specificity of GH68 Fructansucrases. Journal of Molecular Biology, 2011, 412, 80-93.	2.0	63
118	Land Use Intensity Controls Actinobacterial Community Structure. Microbial Ecology, 2011, 61, 286-302.	1.4	52
119	Cloning, overexpression, purification, crystallization and preliminary X-ray analysis of 3-ketosteroid Î”⁴-(5Î±)-dehydrogenase from<i>Rhodococcus jostii</i>RHA1. Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 1269-1273.	0.7	4
120	Thermus thermophilus Glycoside Hydrolase Family 57 Branching Enzyme. Journal of Biological Chemistry, 2011, 286, 3520-3530.	1.6	88
121	The Steroid Catabolic Pathway of the Intracellular Pathogen Rhodococcus equi Is Important for Pathogenesis and a Target for Vaccine Development. PLoS Pathogens, 2011, 7, e1002181.	2.1	73
122	Engineering of cyclodextrin glucanotransferases and the impact for biotechnological applications. Applied Microbiology and Biotechnology, 2010, 85, 823-835.	1.7	157
123	The dynamic architecture of the metabolic switch in Streptomyces coelicolor. BMC Genomics, 2010, 11, 10.	1.2	171
124	Crystal structure of a 117 kDa glucansucrase fragment provides insight into evolution and product specificity of GH70 enzymes. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21406-21411.	3.3	140
125	Metabolomic Characterization of the Salt Stress Response in <i>Streptomyces coelicolor</i>. Applied and Environmental Microbiology, 2010, 76, 2574-2581.	1.4	84
126	Inulin and levan synthesis by probiotic Lactobacillus gasseri strains: characterization of three novel fructansucrase enzymes and their fructan products. Microbiology (United Kingdom), 2010, 156, 1264-1274.	0.7	93

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127	<i>Rhodococcus rhodochrous</i> DSM 43269 3-Ketosteroid 9Î±-Hydroxylase, a Two-Component Iron-Sulfur-Containing Monooxygenase with Subtle Steroid Substrate Specificity. Applied and Environmental Microbiology, 2009, 75, 5300-5307.	1.4	77
128	The Unique Branching Patterns of <i>Deinococcus</i> Glycogen Branching Enzymes Are Determined by Their N-Terminal Domains. Applied and Environmental Microbiology, 2009, 75, 1355-1362.	1.4	78
129	Directed evolution of enzymes: Library screening strategies. IUBMB Life, 2009, 61, 222-228.	1.5	99
130	The evolution of cyclodextrin glucanotransferase product specificity. Applied Microbiology and Biotechnology, 2009, 84, 119-133.	1.7	64
131	NepA is a structural cell wall protein involved in maintenance of spore dormancy in <i>Streptomyces coelicolor</i>. Molecular Microbiology, 2009, 71, 1591-1603.	1.2	42
132	Attachment of <i>Streptomyces coelicolor</i> is mediated by amyloidal fimbriae that are anchored to the cell surface via cellulose. Molecular Microbiology, 2009, 73, 1128-1140.	1.2	107
133	Cytochrome P450â€ƒ125 (CYP125) catalyses C26â€hydroxylation to initiate sterol sideâ€chain degradation in <i>Rhodococcus jostii</i> RHA1. Molecular Microbiology, 2009, 74, 1031-1043.	1.2	114
134	Screening of lactic acid bacteria from Indonesia reveals glucansucrase and fructansucrase genes in two different<i>Weissella confusa</i>strains from soya. FEMS Microbiology Letters, 2009, 300, 131-138.	0.7	50
135	Starch and Î±-glucan acting enzymes, modulating their properties by directed evolution. Journal of Biotechnology, 2009, 140, 184-193.	1.9	56
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