

Lubbert Dijkhuizen

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#	Paper	IF	Citations
373	Genome sequencing and analysis of the versatile cell factory <i>Aspergillus niger</i> CBS 513.88. <i>Nature Biotechnology</i> , 2007 , 25, 221-31	44.5	889
372	Properties and applications of starch-converting enzymes of the alpha-amylase family. <i>Journal of Biotechnology</i> , 2002 , 94, 137-55	3.7	883
371	A gene cluster encoding cholesterol catabolism in a soil actinomycete provides insight into <i>Mycobacterium tuberculosis</i> survival in macrophages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 1947-52	11.5	409
370	Structure-function relationships of glucansucrase and fructansucrase enzymes from lactic acid bacteria. <i>Microbiology and Molecular Biology Reviews</i> , 2006 , 70, 157-76	13.2	313
369	X-ray structures along the reaction pathway of cyclodextrin glycosyltransferase elucidate catalysis in the alpha-amylase family. <i>Nature Structural Biology</i> , 1999 , 6, 432-6		311
368	Martini Coarse-Grained Force Field: Extension to Carbohydrates. <i>Journal of Chemical Theory and Computation</i> , 2009 , 5, 3195-210	6.4	302
367	Physiological responses to nutrient limitation. <i>Annual Review of Microbiology</i> , 1983 , 37, 1-23	17.5	296
366	A novel class of secreted hydrophobic proteins is involved in aerial hyphae formation in <i>Streptomyces coelicolor</i> by forming amyloid-like fibrils. <i>Genes and Development</i> , 2003 , 17, 1714-26	12.6	268
365	Degradation of halogenated aliphatic compounds by <i>Xanthobacter autotrophicus</i> GJ10. <i>Applied and Environmental Microbiology</i> , 1985 , 49, 673-7	4.8	266
364	Amyloids--a functional coat for microorganisms. <i>Nature Reviews Microbiology</i> , 2005 , 3, 333-41	22.2	234
363	Strategies of mixed substrate utilization in microorganisms. <i>Philosophical Transactions of the Royal Society of London Series B, Biological Sciences</i> , 1982 , 297, 459-80		213
362	Nucleotide sequence and X-ray structure of cyclodextrin glycosyltransferase from <i>Bacillus circulans</i> strain 251 in a maltose-dependent crystal form. <i>Journal of Molecular Biology</i> , 1994 , 236, 590-600	6.5	208
361	Glucansucrases: three-dimensional structures, reactions, mechanism, α -glucan analysis and their implications in biotechnology and food applications. <i>Journal of Biotechnology</i> , 2013 , 163, 250-72	3.7	207
360	Harnessing the catabolic diversity of rhodococci for environmental and biotechnological applications. <i>Current Opinion in Microbiology</i> , 2004 , 7, 255-61	7.9	205
359	Production of actinorhodin-related "blue pigments" by <i>Streptomyces coelicolor</i> A3(2). <i>Journal of Bacteriology</i> , 1996 , 178, 2238-44	3.5	181
358	Glucan synthesis in the genus <i>Lactobacillus</i> : isolation and characterization of glucansucrase genes, enzymes and glucan products from six different strains. <i>Microbiology (United Kingdom)</i> , 2004 , 150, 3681-3690	3.9	162
357	Enzymatic glycosylation of small molecules: challenging substrates require tailored catalysts. <i>Chemistry - A European Journal</i> , 2012 , 18, 10786-801	4.8	154

356	The raw starch binding domain of cyclodextrin glycosyltransferase from <i>Bacillus circulans</i> strain 251. <i>Journal of Biological Chemistry</i> , 1996 , 271, 32777-84	5.4	150
355	The actinobacterial mce4 locus encodes a steroid transporter. <i>Journal of Biological Chemistry</i> , 2008 , 283, 35368-74	5.4	146
354	Engineering of cyclodextrin glucanotransferases and the impact for biotechnological applications. <i>Applied Microbiology and Biotechnology</i> , 2010 , 85, 823-35	5.7	141
353	Structure of cyclodextrin glycosyltransferase complexed with a maltononaose inhibitor at 2.6 angstrom resolution. Implications for product specificity. <i>Biochemistry</i> , 1996 , 35, 4241-9	3.2	139
352	The dynamic architecture of the metabolic switch in <i>Streptomyces coelicolor</i> . <i>BMC Genomics</i> , 2010 , 11, 10	4.5	137
351	X-ray structure of cyclodextrin glycosyltransferase complexed with acarbose. Implications for the catalytic mechanism of glycosidases. <i>Biochemistry</i> , 1995 , 34, 2234-40	3.2	135
350	Site-directed mutations in tyrosine 195 of cyclodextrin glycosyltransferase from <i>Bacillus circulans</i> strain 251 affect activity and product specificity. <i>Biochemistry</i> , 1995 , 34, 3368-76	3.2	132
349	Engineering of cyclodextrin glycosyltransferase reaction and product specificity. <i>BBA - Proteins and Proteomics</i> , 2000 , 1543, 336-360		131
348	Characterization of a novel fructosyltransferase from <i>Lactobacillus reuteri</i> that synthesizes high-molecular-weight inulin and inulin oligosaccharides. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 4390-8	4.8	129
347	Biochemical and molecular characterization of <i>Lactobacillus reuteri</i> 121 reuteransucrase. <i>Microbiology (United Kingdom)</i> , 2004 , 150, 2099-2112	2.9	128
346	Screening and characterization of <i>Lactobacillus</i> strains producing large amounts of exopolysaccharides. <i>Applied Microbiology and Biotechnology</i> , 1998 , 50, 697-703	5.7	127
345	The three transglycosylation reactions catalyzed by cyclodextrin glycosyltransferase from <i>Bacillus circulans</i> (strain 251) proceed via different kinetic mechanisms. <i>FEBS Journal</i> , 2000 , 267, 658-65		127
344	Biochemical and structural characterization of the glucan and fructan exopolysaccharides synthesized by the <i>Lactobacillus reuteri</i> wild-type strain and by mutant strains. <i>Applied and Environmental Microbiology</i> , 1999 , 65, 3008-14	4.8	125
343	Crystal structure of a 117 kDa glucansucrase fragment provides insight into evolution and product specificity of GH70 enzymes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 21406-11	11.5	124
342	Regulation of <i>Streptomyces</i> development: reach for the sky!. <i>Trends in Microbiology</i> , 2006 , 14, 313-9	12.4	119
341	Crystallographic studies of the interaction of cyclodextrin glycosyltransferase from <i>Bacillus circulans</i> strain 251 with natural substrates and products. <i>Journal of Biological Chemistry</i> , 1995 , 270, 29256-64	5.4	119
340	Organization of the teicoplanin gene cluster in <i>Actinoplanes teichomyceticus</i> . <i>Microbiology (United Kingdom)</i> , 2004 , 150, 95-102	2.9	116
339	Antibiotic overproduction in <i>Streptomyces coelicolor</i> A3 2 mediated by phosphofructokinase deletion. <i>Journal of Biological Chemistry</i> , 2008 , 283, 25186-25199	5.4	115

338	Unmarked gene deletion mutagenesis of <i>kstD</i> , encoding 3-ketosteroid Delta1-dehydrogenase, in <i>Rhodococcus erythropolis</i> SQ1 using <i>sacB</i> as counter-selectable marker. <i>FEMS Microbiology Letters</i> , 2001 , 205, 197-202	2.9	111
337	The levansucrase and inulosucrase enzymes of <i>Lactobacillus reuteri</i> 121 catalyse processive and non-processive transglycosylation reactions. <i>Microbiology (United Kingdom)</i> , 2006 , 152, 1187-1196	2.9	110
336	The formation of the rodlet layer of streptomycetes is the result of the interplay between rodlines and chaplins. <i>Molecular Microbiology</i> , 2004 , 53, 433-43	4.1	110
335	Unmarked gene deletion mutagenesis of <i>kstD</i> , encoding 3-ketosteroid Δ 1-dehydrogenase, in <i>Rhodococcus erythropolis</i> SQ1 using <i>sacB</i> as counter-selectable marker. <i>FEMS Microbiology Letters</i> , 2001 , 205, 197-202	2.9	107
334	Targeted disruption of the <i>kstD</i> gene encoding a 3-ketosteroid delta(1)-dehydrogenase isoenzyme of <i>Rhodococcus erythropolis</i> strain SQ1. <i>Applied and Environmental Microbiology</i> , 2000 , 66, 2029-36	4.8	101
333	The cyclization mechanism of cyclodextrin glycosyltransferase (CGTase) as revealed by a gamma-cyclodextrin-CGTase complex at 1.8-Å resolution. <i>Journal of Biological Chemistry</i> , 1999 , 274, 34868-76	5.4	101
332	Cytochrome P450 125 (CYP125) catalyses C26-hydroxylation to initiate sterol side-chain degradation in <i>Rhodococcus jostii</i> RHA1. <i>Molecular Microbiology</i> , 2009 , 74, 1031-43	4.1	100
331	Molecular characterization of a novel glucosyltransferase from <i>Lactobacillus reuteri</i> strain 121 synthesizing a unique, highly branched glucan with alpha-(1 \rightarrow 4) and alpha-(1 \rightarrow 6) glucosidic bonds. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 4283-91	4.8	96
330	Molecular and functional characterization of <i>kshA</i> and <i>kshB</i> , encoding two components of 3-ketosteroid 9alpha-hydroxylase, a class IA monooxygenase, in <i>Rhodococcus erythropolis</i> strain SQ1. <i>Molecular Microbiology</i> , 2002 , 45, 1007-18	4.1	95
329	Biochemical and molecular characterization of a levansucrase from <i>Lactobacillus reuteri</i> . <i>Microbiology (United Kingdom)</i> , 2004 , 150, 621-630	2.9	90
328	<i>Aspergillus niger</i> genome-wide analysis reveals a large number of novel alpha-glucan acting enzymes with unexpected expression profiles. <i>Molecular Genetics and Genomics</i> , 2008 , 279, 545-61	3.1	86
327	Characteristics of DMSP-lyase in <i>Phaeocystis</i> sp. (Prymnesiophyceae). <i>Marine Ecology - Progress Series</i> , 1996 , 131, 307-313	2.6	86
326	Attachment of <i>Streptomyces coelicolor</i> is mediated by amyloid fimbriae that are anchored to the cell surface via cellulose. <i>Molecular Microbiology</i> , 2009 , 73, 1128-40	4.1	85
325	Directed evolution of enzymes: Library screening strategies. <i>IUBMB Life</i> , 2009 , 61, 222-8	4.7	84
324	Engineering of cyclodextrin product specificity and pH optima of the thermostable cyclodextrin glycosyltransferase from <i>Thermoanaerobacterium thermosulfurigenes</i> EM1. <i>Journal of Biological Chemistry</i> , 1998 , 273, 5771-9	5.4	84
323	Two novel homologous proteins of <i>Streptomyces coelicolor</i> and <i>Streptomyces lividans</i> are involved in the formation of the rodlet layer and mediate attachment to a hydrophobic surface. <i>Molecular Microbiology</i> , 2002 , 44, 1483-92	4.1	83
322	3-Keto-5alpha-steroid Delta(1)-dehydrogenase from <i>Rhodococcus erythropolis</i> SQ1 and its orthologue in <i>Mycobacterium tuberculosis</i> H37Rv are highly specific enzymes that function in cholesterol catabolism. <i>Biochemical Journal</i> , 2008 , 410, 339-46	3.8	81
321	Hydrophobic amino acid residues in the acceptor binding site are main determinants for reaction mechanism and specificity of cyclodextrin-glycosyltransferase. <i>Journal of Biological Chemistry</i> , 2001 , 276, 44557-62	5.4	81

320	Cloning, expression, and sequence analysis of the <i>Bacillus methanolicus</i> C1 methanol dehydrogenase gene. <i>Journal of Bacteriology</i> , 1992 , 174, 5346-53	3.5	81
319	Inulin and levan synthesis by probiotic <i>Lactobacillus gasseri</i> strains: characterization of three novel fructansucrase enzymes and their fructan products. <i>Microbiology (United Kingdom)</i> , 2010 , 156, 1264-1274	2.9	78
318	Molecular and functional characterization of the <i>kstD2</i> gene of <i>Rhodococcus erythropolis</i> SQ1 encoding a second 3-ketosteroid Delta(1)-dehydrogenase isoenzyme. <i>Microbiology (United Kingdom)</i> , 2002 , 148, 3285-3292	2.9	78
317	Methanol metabolism in thermotolerant methylotrophic <i>Bacillus</i> strains involving a novel catabolic NAD-dependent methanol dehydrogenase as a key enzyme. <i>Archives of Microbiology</i> , 1989 , 152, 280-8	3	78
316	Structural analysis of the alpha-D-glucan (EPS180) produced by the <i>Lactobacillus reuteri</i> strain 180 glucansucrase GTF180 enzyme. <i>Carbohydrate Research</i> , 2008 , 343, 1237-50	2.9	77
315	Rational design of cyclodextrin glycosyltransferase from <i>Bacillus circulans</i> strain 251 to increase alpha-cyclodextrin production. <i>Journal of Molecular Biology</i> , 2000 , 296, 1027-38	6.5	77
314	Coating with genetic engineered hydrophobin promotes growth of fibroblasts on a hydrophobic solid. <i>Biomaterials</i> , 2002 , 23, 4847-54	15.6	76
313	Crystal structure at 2.3 Å resolution and revised nucleotide sequence of the thermostable cyclodextrin glycosyltransferase from <i>Thermonaerobacterium thermosulfurigenes</i> EM1. <i>Journal of Molecular Biology</i> , 1996 , 256, 611-22	6.5	76
312	Amylomaltase of <i>Pyrobaculum aerophilum</i> IM2 produces thermoreversible starch gels. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 5098-106	4.8	75
311	Structures of maltohexaose and maltoheptaose bound at the donor sites of cyclodextrin glycosyltransferase give insight into the mechanisms of transglycosylation activity and cyclodextrin size specificity. <i>Biochemistry</i> , 2000 , 39, 7772-80	3.2	74
310	Purification of a novel fructosyltransferase from <i>Lactobacillus reuteri</i> strain 121 and characterization of the levan produced. <i>FEMS Microbiology Letters</i> , 2001 , 205, 323-8	2.9	74
309	<i>Bacillus methanolicus</i> sp. nov., a new species of thermotolerant, methanol-utilizing, endospore-forming bacteria. <i>International Journal of Systematic Bacteriology</i> , 1992 , 42, 439-45		73
308	Cyclodextrin formation by the thermostable alpha-amylase of <i>Thermoanaerobacterium thermosulfurigenes</i> EM1 and reclassification of the enzyme as a cyclodextrin glycosyltransferase. <i>Applied and Environmental Microbiology</i> , 1995 , 61, 1257-65	4.8	73
307	<i>Thermus thermophilus</i> glycoside hydrolase family 57 branching enzyme: crystal structure, mechanism of action, and products formed. <i>Journal of Biological Chemistry</i> , 2011 , 286, 3520-30	5.4	71
306	Highly hydrolytic reuteransucrase from probiotic <i>Lactobacillus reuteri</i> strain ATCC 55730. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 3942-50	4.8	71
305	Rational transformation of <i>Lactobacillus reuteri</i> 121 reuteransucrase into a dextransucrase. <i>Biochemistry</i> , 2005 , 44, 9206-16	3.2	68
304	Diffusion of oxygen in alginate gels related to the kinetics of methanol oxidation by immobilized <i>Hansenula polymorpha</i> cells. <i>European Journal of Applied Microbiology and Biotechnology</i> , 1983 , 18, 189-196		67
303	4,6-β-glucanotransferase, a novel enzyme that structurally and functionally provides an evolutionary link between glycoside hydrolase enzyme families 13 and 70. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 8154-63	4.8	66

302	Promotion of fibroblast activity by coating with hydrophobins in the beta-sheet end state. <i>Biomaterials</i> , 2004 , 25, 2731-9	15.6	66
301	Identification and organization of carbon dioxide fixation genes in <i>Xanthobacter flavus</i> H4-14. <i>Molecular Genetics and Genomics</i> , 1991 , 225, 320-30		65
300	Multiplicity of 3-Ketosteroid-9 α -Hydroxylase enzymes in <i>Rhodococcus rhodochrous</i> DSM43269 for specific degradation of different classes of steroids. <i>Journal of Bacteriology</i> , 2011 , 193, 3931-40	3.5	64
299	<i>Rhodococcus rhodochrous</i> DSM 43269 3-ketosteroid 9 α -hydroxylase, a two-component iron-sulfur-containing monooxygenase with subtle steroid substrate specificity. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 5300-7	4.8	64
298	The unique branching patterns of <i>Deinococcus</i> glycogen branching enzymes are determined by their N-terminal domains. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 1355-62	4.8	64
297	Purification of a novel fructosyltransferase from <i>Lactobacillus reuteri</i> strain 121 and characterization of the levan produced. <i>FEMS Microbiology Letters</i> , 2001 , 205, 323-328	2.9	64
296	Metabolomic characterization of the salt stress response in <i>Streptomyces coelicolor</i> . <i>Applied and Environmental Microbiology</i> , 2010 , 76, 2574-81	4.8	62
295	The probiotic <i>Lactobacillus johnsonii</i> NCC 533 produces high-molecular-mass inulin from sucrose by using an inulosucrase enzyme. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 3426-33	4.8	62
294	Comparative structural characterization of 7 commercial galacto-oligosaccharide (GOS) products. <i>Carbohydrate Research</i> , 2016 , 425, 48-58	2.9	60
293	Structural investigation of water-soluble polysaccharides extracted from the fruit bodies of <i>Coprinus comatus</i> . <i>Carbohydrate Polymers</i> , 2013 , 91, 314-21	10.3	60
292	The steroid catabolic pathway of the intracellular pathogen <i>Rhodococcus equi</i> is important for pathogenesis and a target for vaccine development. <i>PLoS Pathogens</i> , 2011 , 7, e1002181	7.6	59
291	Three-way stabilization of the covalent intermediate in amyloamylase, an alpha-amylase-like transglycosylase. <i>Journal of Biological Chemistry</i> , 2007 , 282, 17242-9	5.4	59
290	Exploring and exploiting starch-modifying amyloamylases from thermophiles. <i>Biochemical Society Transactions</i> , 2004 , 32, 279-82	5.1	59
289	<i>Amycolatopsis methanolica</i> sp. nov., a facultatively methylotrophic actinomycete. <i>International Journal of Systematic Bacteriology</i> , 1990 , 40, 194-204		58
288	Isolation and initial characterization of thermotolerant methylotrophic <i>Bacillus</i> strains. <i>FEMS Microbiology Letters</i> , 1988 , 52, 209-214	2.9	58
287	Structural analysis of the alpha-D-glucan (EPS35-5) produced by the <i>Lactobacillus reuteri</i> strain 35-5 glucansucrase GTFA enzyme. <i>Carbohydrate Research</i> , 2008 , 343, 1251-65	2.9	57
286	Database mining and transcriptional analysis of genes encoding inulin-modifying enzymes of <i>Aspergillus niger</i> . <i>Microbiology (United Kingdom)</i> , 2006 , 152, 3061-3073	2.9	57
285	Synthesis of Branched Polyglucans by the Tandem Action of Potato Phosphorylase and <i>Deinococcus geothermalis</i> Glycogen Branching Enzyme. <i>Macromolecular Rapid Communications</i> , 2008 , 29, 1293-1297	4.8	55

284	FadD19 of <i>Rhodococcus rhodochrous</i> DSM43269, a steroid-coenzyme A ligase essential for degradation of C-24 branched sterol side chains. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 4455-4464	4.8	54
283	The evolution of cyclodextrin glucanotransferase product specificity. <i>Applied Microbiology and Biotechnology</i> , 2009 , 84, 119-33	5.7	54
282	Engineering the glucansucrase GTFR enzyme reaction and glycosidic bond specificity: toward tailor-made polymer and oligosaccharide products. <i>Biochemistry</i> , 2008 , 47, 6678-84	3.2	54
281	Conversion of cyclodextrin glycosyltransferase into a starch hydrolase by directed evolution: the role of alanine 230 in acceptor subsite +1. <i>Biochemistry</i> , 2003 , 42, 7518-26	3.2	54
280	Isomalto/malto-polysaccharide, a novel soluble dietary fiber made via enzymatic conversion of starch. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 12034-44	5.7	53
279	Crystal structure of inulosucrase from <i>Lactobacillus</i> : insights into the substrate specificity and product specificity of GH68 fructansucrases. <i>Journal of Molecular Biology</i> , 2011 , 412, 80-93	6.5	53
278	Kinetic properties of an inulosucrase from <i>Lactobacillus reuteri</i> 121. <i>FEBS Letters</i> , 2003 , 534, 207-10	3.8	53
277	Regulation of autotrophic and heterotrophic metabolism in <i>Pseudomonas oxalaticus</i> OX1: Growth on mixtures of acetate and formate in continuous culture. <i>Archives of Microbiology</i> , 1979 , 123, 47-53	3	52
276	Structural characterization of linear isomalto-/malto-oligomer products synthesized by the novel GTFB 4,6- β -glucanotransferase enzyme from <i>Lactobacillus reuteri</i> 121. <i>Glycobiology</i> , 2012 , 22, 517-28	5.8	51
275	The role of arginine 47 in the cyclization and coupling reactions of cyclodextrin glycosyltransferase from <i>Bacillus circulans</i> strain 251 implications for product inhibition and product specificity. <i>FEBS Journal</i> , 2000 , 267, 3432-41		51
274	Reaction kinetics and galactooligosaccharide product profiles of the β -galactosidases from <i>Bacillus circulans</i> , <i>Kluyveromyces lactis</i> and <i>Aspergillus oryzae</i> . <i>Food Chemistry</i> , 2017 , 225, 230-238	8.5	50
273	DMSP-lyase activity in a spring phytoplankton bloom off the Dutch coast, related to <i>Phaeocystis</i> sp. abundance. <i>Marine Ecology - Progress Series</i> , 1995 , 123, 235-243	2.6	50
272	Starch and alpha-glucan acting enzymes, modulating their properties by directed evolution. <i>Journal of Biotechnology</i> , 2009 , 140, 184-93	3.7	49
271	The LysR-type transcriptional regulator CbbR controlling autotrophic CO ₂ fixation by <i>Xanthobacter flavus</i> is an NADPH sensor. <i>Journal of Bacteriology</i> , 1998 , 180, 1411-7	3.5	49
270	CbbR, a LysR-type transcriptional activator, is required for expression of the autotrophic CO ₂ fixation enzymes of <i>Xanthobacter flavus</i> . <i>Journal of Bacteriology</i> , 1993 , 175, 6097-104	3.5	48
269	Structure-function relationships of family GH70 glucansucrase and 4,6- β -glucanotransferase enzymes, and their evolutionary relationships with family GH13 enzymes. <i>Cellular and Molecular Life Sciences</i> , 2016 , 73, 2681-706	10.3	48
268	Biotechnological potential of novel glycoside hydrolase family 70 enzymes synthesizing β -glucans from starch and sucrose. <i>Biotechnology Advances</i> , 2018 , 36, 196-207	17.8	48
267	Raw starch-degrading β -amylase from <i>Bacillus aquimaris</i> MKSC 6.2: isolation and expression of the gene, bioinformatics and biochemical characterization of the recombinant enzyme. <i>Journal of Applied Microbiology</i> , 2013 , 114, 108-20	4.7	47

266	Structure of the α -1,6/ α -1,4-specific glucansucrase GTFA from <i>Lactobacillus reuteri</i> 121. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012 , 68, 1448-54		47
265	Properties of an NAD(H)-containing methanol dehydrogenase and its activator protein from <i>Bacillus methanolicus</i> . <i>FEBS Journal</i> , 1997 , 244, 426-33		47
264	Conversion of a cyclodextrin glucanotransferase into an alpha-amylase: assessment of directed evolution strategies. <i>Biochemistry</i> , 2007 , 46, 11216-22	3.2	47
263	Electron microscopic analysis and structural characterization of novel NADP(H)-containing methanol: N,N-dimethyl-4-nitrosoaniline oxidoreductases from the gram-positive methylotrophic bacteria <i>Amycolatopsis methanolica</i> and <i>Mycobacterium gastri</i> MB19. <i>Journal of Bacteriology</i> , 1993 , 175, 1814-22	3.5	47
262	Glycosidic bond specificity of glucansucrases: on the role of acceptor substrate binding residues. <i>Biocatalysis and Biotransformation</i> , 2012 , 30, 366-376	2.5	46
261	A novel method to generate unmarked gene deletions in the intracellular pathogen <i>Rhodococcus equi</i> using 5-fluorocytosine conditional lethality. <i>Nucleic Acids Research</i> , 2008 , 36, e151	20.1	46
260	Actinomycete integrative and conjugative elements. <i>Antonie Van Leeuwenhoek</i> , 2008 , 94, 127-43	2.1	46
259	A <i>Bacillus megaterium</i> plasmid system for the production, export, and one-step purification of affinity-tagged heterologous levansucrase from growth medium. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 1677-9	4.8	46
258	Structural characterization of bioengineered alpha-D-glucans produced by mutant glucansucrase GTF180 enzymes of <i>Lactobacillus reuteri</i> strain 180. <i>Biomacromolecules</i> , 2009 , 10, 580-8	6.9	45
257	4,6- α -Glucanotransferase activity occurs more widespread in <i>Lactobacillus</i> strains and constitutes a separate GH70 subfamily. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 181-93	5.7	44
256	Elimination of competing hydrolysis and coupling side reactions of a cyclodextrin glucanotransferase by directed evolution. <i>Biochemical Journal</i> , 2008 , 413, 517-25	3.8	44
255	Methanol, a potential feedstock for biotechnological processes. <i>Trends in Biotechnology</i> , 1985 , 3, 262-267	5.1	44
254	(¹ H) NMR analysis of the lactose/ β -galactosidase-derived galacto-oligosaccharide components of Vivinal [®] GOS up to DP5. <i>Carbohydrate Research</i> , 2014 , 400, 59-73	2.9	43
253	Screening of lactic acid bacteria from Indonesia reveals glucansucrase and fructansucrase genes in two different <i>Weissella confusa</i> strains from soya. <i>FEMS Microbiology Letters</i> , 2009 , 300, 131-8	2.9	43
252	Molecular and biochemical characterization of a novel intracellular invertase from <i>Aspergillus niger</i> with transfructosylating activity. <i>Eukaryotic Cell</i> , 2007 , 6, 674-81		43
251	Gas vesicles in actinomycetes: old buoys in novel habitats?. <i>Trends in Microbiology</i> , 2005 , 13, 350-4	12.4	43
250	Mutations converting cyclodextrin glycosyltransferase from a transglycosylase into a starch hydrolase. <i>FEBS Letters</i> , 2002 , 514, 189-92	3.8	43
249	Characterization of a new <i>Bacillus stearothermophilus</i> isolate: a highly thermostable α -amylase-producing strain. <i>Applied Microbiology and Biotechnology</i> , 1994 , 41, 155-162	5.7	43

248	Phylogenetic and biochemical characterization of a novel cluster of intracellular fungal alpha-amylase enzymes. <i>Microbiology (United Kingdom)</i> , 2007 , 153, 4003-4015	2.9	42
247	Analysis of DNA binding and transcriptional activation by the LysR-type transcriptional regulator CbbR of <i>Xanthobacter flavus</i> . <i>Journal of Bacteriology</i> , 2003 , 185, 1245-52	3.5	42
246	Current views on the regulation of autotrophic carbon dioxide fixation via the Calvin cycle in bacteria. <i>Antonie Van Leeuwenhoek</i> , 1984 , 50, 473-87	2.1	42
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