

# Birte Svensson

## List of Publications by Year in descending order

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288  
papers

12,621  
citations

22099

59  
h-index

39575

94  
g-index

297  
all docs

297  
docs citations

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times ranked

8416  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure, function and enzymatic synthesis of glucosaccharides assembled mainly by $\alpha$ linkages – A review. <i>Carbohydrate Polymers</i> , 2022, 275, 118705.	5.1	9
2	Maltogenic $\alpha$ -amylase hydrolysis of wheat starch granules: Mechanism and relation to starch retrogradation. <i>Food Hydrocolloids</i> , 2022, 124, 107256.	5.6	30
3	A healthy <i>Bifidobacterium dentium</i> caramel cocktail. <i>Journal of Biological Chemistry</i> , 2022, 298, 101452.	1.6	4
4	Characterization of five marine family 29 glycoside hydrolases reveals an $\alpha$ -L-fucosidase targeting specifically Fuc(1,4)GlcNAc. <i>Glycobiology</i> , 2022, 32, 529-539.	1.3	7
5	Improved production of gamma-cyclodextrin from high-concentrated starch using enzyme pretreatment under swelling condition. <i>Carbohydrate Polymers</i> , 2022, 284, 119124.	5.1	9
6	How many $\alpha$ -amylase GH families are there in the CAZy database?. <i>Amylase</i> , 2022, 6, 1-10.	0.7	18
7	Distinct effects of different $\alpha$ -amylases on cross-linked tapioca starch and gel-improving mechanism. <i>Food Hydrocolloids</i> , 2022, 128, 107580.	5.6	10
8	Mechanistic Basis for Understanding the Dual Activities of the Bifunctional <i>Azotobacter vinelandii</i> Mannuronan C-5-Epimerase and Alginate Lyase AlgE7. <i>Applied and Environmental Microbiology</i> , 2022, 88, AEM0183621.	1.4	6
9	Metabolic Profiling of Interspecies Interactions During Sessile Bacterial Cultivation Reveals Growth and Sporulation Induction in <i>Paenibacillus amylolyticus</i> in Response to <i>Xanthomonas retroflexus</i> . <i>Frontiers in Cellular and Infection Microbiology</i> , 2022, 12, 805473.	1.8	1
10	Structure, Function and Protein Engineering of Cereal-Type Inhibitors Acting on Amylolytic Enzymes. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 868568.	1.6	4
11	Enhancing gel strength of <i>Thermoproteus uzoniensis</i> $\alpha$ -glucanotransferase modified starch by amylosucrase treatment. <i>International Journal of Biological Macromolecules</i> , 2022, 209, 1-8.	3.6	4
12	Effect of Starch Primers on the Fine Structure of Enzymatically Synthesized Glycogen-like Glucan. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 6202-6212.	2.4	4
13	Tunable mixed micellization of $\beta$ -casein in the presence of $\alpha$ -casein. <i>Food Hydrocolloids</i> , 2021, 113, 106459.	5.6	7
14	Enzymes in grain processing. <i>Current Opinion in Food Science</i> , 2021, 37, 153-159.	4.1	4
15	O/N-Specificity in Glycosyltransferase Catalysis: From Mechanistic Understanding to Engineering. <i>ACS Catalysis</i> , 2021, 11, 1810-1815.	5.5	42
16	Impact of Alginate Mannuronic-Guluronic Acid Contents and pH on Protein Binding Capacity and Complex Size. <i>Biomacromolecules</i> , 2021, 22, 649-660.	2.6	19
17	Functional diversity of three tandem C-terminal carbohydrate-binding modules of a $\beta$ -mannanase. <i>Journal of Biological Chemistry</i> , 2021, 296, 100638.	1.6	10
18	Binding Sites for Oligosaccharide Repeats from Lactic Acid Bacteria Exopolysaccharides on Bovine $\beta$ -Lactoglobulin Identified by NMR Spectroscopy. <i>ACS Omega</i> , 2021, 6, 9039-9052.	1.6	7

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19	Quantitative Label-Free Comparison of the Metabolic Protein Fraction in Old and Modern Italian Wheat Genotypes by a Shotgun Approach. <i>Molecules</i> , 2021, 26, 2596.	1.7	9
20	A putative novel starch-binding domain revealed by in silico analysis of the N-terminal domain in bacterial amyloamylases from the family GH77. <i>3 Biotech</i> , 2021, 11, 229.	1.1	7
21	Wheat ATIs: Characteristics and Role in Human Disease. <i>Frontiers in Nutrition</i> , 2021, 8, 667370.	1.6	42
22	Rational Enzyme Design without Structural Knowledge: A Sequence-Based Approach for Efficient Generation of Transglycosylases. <i>Chemistry - A European Journal</i> , 2021, 27, 10323-10334.	1.7	29
23	Deamidation and glycation of a <i>Bacillus licheniformis</i> $\alpha$ -amylase during industrial fermentation can improve detergent wash performance. <i>Amylase</i> , 2021, 5, 38-49.	0.7	1
24	Exceptionally rich keratinolytic enzyme profile found in the rare actinomycetes <i>Amycolatopsis keratiniphila</i> D2T. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 8129-8138.	1.7	8
25	Controlling the Fine Structure of Glycogen-like Glucan by Rational Enzymatic Synthesis. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 14951-14960.	2.4	4
26	Roles of the N-terminal domain and remote substrate binding subsites in activity of the debranching barley limit dextrinase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020, 1868, 140294.	1.1	6
27	Qualitative proteomic comparison of metabolic and CM-like protein fractions in old and modern wheat Italian genotypes by a shotgun approach. <i>Journal of Proteomics</i> , 2020, 211, 103530.	1.2	16
28	A Single Point Mutation Converts GH84 $\alpha$ -GlcNAc Hydrolases into Phosphorylases: Experimental and Theoretical Evidence. <i>Journal of the American Chemical Society</i> , 2020, 142, 2120-2124.	6.6	25
29	Azo dyeing of keratin material improves microbial keratinase screening and standardization. <i>Microbial Biotechnology</i> , 2020, 13, 984-996.	2.0	11
30	Two novel S1 peptidases from <i>Amycolatopsis keratiniphila</i> subsp. <i>keratiniphila</i> D2T degrading keratinous slaughterhouse by-products. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 2513-2522.	1.7	5
31	Identification and Characterization of a $\beta$ -N-Acetylhexosaminidase with a Biosynthetic Activity from the Marine Bacterium <i>Paraglaciecola hydrolytica</i> S66T. <i>International Journal of Molecular Sciences</i> , 2020, 21, 417.	1.8	12
32	Thermophilic $\alpha$ -Glucanotransferase from <i>Thermoproteus Uzoniensis</i> Retards the Long-Term Retrogradation but Maintains the Short-Term Gelation Strength of Tapioca Starch. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 5658-5667.	2.4	13
33	An $\alpha$ -Glucosyltransferase Defines a New Maltodextrin Catabolism Scheme in <i>Lactobacillus acidophilus</i> . <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	8
34	Community-intrinsic properties enhance keratin degradation from bacterial consortia. <i>PLoS ONE</i> , 2020, 15, e0228108.	1.1	16
35	Community-intrinsic properties enhance keratin degradation from bacterial consortia. , 2020, 15, e0228108.		0
36	Community-intrinsic properties enhance keratin degradation from bacterial consortia. , 2020, 15, e0228108.		0

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37	Community-intrinsic properties enhance keratin degradation from bacterial consortia. , 2020, 15, e0228108.		0
38	Community-intrinsic properties enhance keratin degradation from bacterial consortia. , 2020, 15, e0228108.		0
39	Expanding the citrullinome of synovial fibrinogen from rheumatoid arthritis patients. Journal of Proteomics, 2019, 208, 103484.	1.2	16
40	Structural and functional aspects of mannuronic acidâ€‘specific PL6 alginate lyase from the human gut microbe Bacteroides cellulosilyticus. Journal of Biological Chemistry, 2019, 294, 17915-17930.	1.6	40
41	A carbohydrate-binding family 48 module enables feruloyl esterase action on polymeric arabinoxylan. Journal of Biological Chemistry, 2019, 294, 17339-17353.	1.6	21
42	Starch-binding domains as CBM familiesâ€‘history, occurrence, structure, function and evolution. Biotechnology Advances, 2019, 37, 107451.	6.0	83
43	Substrate preference of an ABC importer corresponds to selective growth on Î²-(1,6)-galactosides in Bifidobacterium animalis subsp. lactis. Journal of Biological Chemistry, 2019, 294, 11701-11711.	1.6	21
44	Quantitative Proteomics Analysis of Barley-Based Liquid Feed and the Effect of Protease Inhibitors and NADPH-Dependent Thioredoxin Reductase/Thioredoxin (NTR/Trx) System. Journal of Agricultural and Food Chemistry, 2019, 67, 6432-6444.	2.4	1
45	An integrated strategy for the effective production of bristle protein hydrolysate by the keratinolytic filamentous bacterium Amycolatopsis keratiniphila D2. Waste Management, 2019, 89, 94-102.	3.7	18
46	Alginate Trisaccharide Binding Sites on the Surface of Î²-Lactoglobulin Identified by NMR Spectroscopy: Implications for Molecular Network Formation. ACS Omega, 2019, 4, 6165-6174.	1.6	11
47	Dataset of the metabolic and CM-like protein fractions in old and modern wheat Italian genotypes. Data in Brief, 2019, 27, 104730.	0.5	2
48	The exopolysaccharide properties and structures database: EPS-DB. Application to bacterial exopolysaccharides. Carbohydrate Polymers, 2019, 205, 565-570.	5.1	34
49	Asp271 is critical for substrate interaction with the surface binding site in Î²-agarase a from <i>Zobellia galactanivorans</i>. Proteins: Structure, Function and Bioinformatics, 2019, 87, 34-40.	1.5	0
50	Mass-Spectrometry-Based Identification of Cross-Links in Proteins Exposed to Photo-Oxidation and Peroxyl Radicals Using 18O Labeling and Optimized Tandem Mass Spectrometry Fragmentation. Journal of Proteome Research, 2018, 17, 2017-2027.	1.8	30
51	Interaction between structurally different heteroexopolysaccharides and Î²-lactoglobulin studied by solution scattering and analytical ultracentrifugation. International Journal of Biological Macromolecules, 2018, 111, 746-754.	3.6	4
52	Isoenergetic modification of whey protein structure by denaturation and crosslinking using transglutaminase. Food and Function, 2018, 9, 797-805.	2.1	24
53	Effect of alginate size, mannuronic/guluronic acid content and pH on particle size, thermodynamics and composition of complexes with Î²-lactoglobulin. Food Hydrocolloids, 2018, 75, 157-163.	5.6	24
54	Plant Polyphenols Stimulate Adhesion to Intestinal Mucosa and Induce Proteome Changes in the Probiotic <i>Lactobacillus acidophilus</i> NCFM. Molecular Nutrition and Food Research, 2018, 62, 1700638.	1.5	31

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55	New Insights into the Potential of Endogenous Redox Systems in Wheat Bread Dough. <i>Antioxidants</i> , 2018, 7, 190.	2.2	5
56	Functional Roles of Starch Binding Domains and Surface Binding Sites in Enzymes Involved in Starch Biosynthesis. <i>Frontiers in Plant Science</i> , 2018, 9, 1652.	1.7	38
57	High-Throughput In Vitro Screening for Inhibitors of Cereal $\alpha$ -Glucosidase. <i>Methods in Molecular Biology</i> , 2018, 1795, 101-115.	0.4	1
58	Revealing the Dimeric Crystal and Solution Structure of $\beta$ -Lactoglobulin at pH 4 and Its pH and Salt Dependent Monomer-Dimer Equilibrium. <i>Biomacromolecules</i> , 2018, 19, 2905-2912.	2.6	20
59	Barley Proteomics. <i>Compendium of Plant Genomes</i> , 2018, , 345-361.	0.3	3
60	Dietary Nutrients, Proteomes, and Adhesion of Probiotic Lactobacilli to Mucin and Host Epithelial Cells. <i>Microorganisms</i> , 2018, 6, 90.	1.6	35
61	An NAD <sup>+</sup> -Dependent Sirtuin Depropionylase and Deacetylase (Sir2La) from the Probiotic Bacterium <i>Lactobacillus acidophilus</i> NCFM. <i>Biochemistry</i> , 2018, 57, 3903-3915.	1.2	12
62	Exo- and surface proteomes of the probiotic bacterium <i>Lactobacillus acidophilus</i> NCFM. <i>Proteomics</i> , 2017, 17, 1700019.	1.3	12
63	The starch-binding domain family CBM41: An <i>in silico</i> analysis of evolutionary relationships. <i>Proteins: Structure, Function and Bioinformatics</i> , 2017, 85, 1480-1492.	1.5	18
64	Affinity Electrophoresis for Analysis of Catalytic Module-Carbohydrate Interactions. <i>Methods in Molecular Biology</i> , 2017, 1588, 119-127.	0.4	6
65	An Extracellular Cell-Attached Pullulanase Confers Branched $\alpha$ -Glucan Utilization in Human Gut <i>Lactobacillus acidophilus</i> . <i>Applied and Environmental Microbiology</i> , 2017, 83, .	1.4	25
66	The structure of <i>Lactococcus lactis</i> thioredoxin reductase reveals molecular features of photo-oxidative damage. <i>Scientific Reports</i> , 2017, 7, 46282.	1.6	10
67	Mucin- and carbohydrate-stimulated adhesion and subproteome changes of the probiotic bacterium <i>Lactobacillus acidophilus</i> NCFM. <i>Journal of Proteomics</i> , 2017, 163, 102-110.	1.2	66
68	Investigation of the indigenous fungal community populating barley grains: Secretomes and xylanolytic potential. <i>Journal of Proteomics</i> , 2017, 169, 153-164.	1.2	9
69	Revealing the Compact Structure of Lactic Acid Bacterial Heteropolysaccharides by SAXS and DLS. <i>Biomacromolecules</i> , 2017, 18, 747-756.	2.6	11
70	Comparative proteomics of oxidative stress response of <i>Lactobacillus acidophilus</i> NCFM reveals effects on DNA repair and cysteine <i>de novo</i> synthesis. <i>Proteomics</i> , 2017, 17, 1600178.	1.3	35
71	Discovery of $\alpha$ -L-arabinopyranosidases from human gut microbiome expands the diversity within glycoside hydrolase family 42. <i>Journal of Biological Chemistry</i> , 2017, 292, 21092-21101.	1.6	8
72	The Reducing Capacity of Thioredoxin on Oxidized Thiols in Boiled Wort. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 10101-10106.	2.4	2

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73	Effect of repeat unit structure and molecular mass of lactic acid bacteria hetero-exopolysaccharides on binding to milk proteins. <i>Carbohydrate Polymers</i> , 2017, 177, 406-414.	5.1	14
74	Unrestricted Mass Spectrometric Data Analysis for Identification, Localization, and Quantification of Oxidative Protein Modifications. <i>Journal of Proteome Research</i> , 2017, 16, 3978-3988.	1.8	20
75	Data regarding the growth of <i>Lactobacillus acidophilus</i> NCFM on different carbohydrates and recombinant production of elongation factor G and pyruvate kinase. <i>Data in Brief</i> , 2017, 14, 118-122.	0.5	2
76	A meta-proteomics approach to study the interspecies interactions affecting microbial biofilm development in a model community. <i>Scientific Reports</i> , 2017, 7, 16483.	1.6	51
77	GH62 arabinofuranosidases: Structure, function and applications. <i>Biotechnology Advances</i> , 2017, 35, 792-804.	6.0	64
78	Functional and structural characterization of plastidic starch phosphorylase during barley endosperm development. <i>PLoS ONE</i> , 2017, 12, e0175488.	1.1	33
79	Development of novel monoclonal antibodies against starch and ulvan - implications for antibody production against polysaccharides with limited immunogenicity. <i>Scientific Reports</i> , 2017, 7, 9326.	1.6	18
80	Lytic polysaccharide monooxygenases and other oxidative enzymes are abundantly secreted by <i>Aspergillus nidulans</i> grown on different starches. <i>Biotechnology for Biofuels</i> , 2016, 9, 187.	6.2	42
81	Using Carbohydrate Interaction Assays to Reveal Novel Binding Sites in Carbohydrate Active Enzymes. <i>PLoS ONE</i> , 2016, 11, e0160112.	1.1	22
82	Differential proteome and cellular adhesion analyses of the probiotic bacterium <i>Lactobacillus acidophilus</i> NCFM grown on raffinose – an emerging prebiotic. <i>Proteomics</i> , 2016, 16, 1361-1375.	1.3	29
83	Plant $\alpha$ -glucan phosphatases SEX4 and LSF2 display different affinity for amylopectin and amylose. <i>FEBS Letters</i> , 2016, 590, 118-128.	1.3	18
84	Exploring the Plant-Microbe Interface by Profiling the Surface-Associated Proteins of Barley Grains. <i>Journal of Proteome Research</i> , 2016, 15, 1151-1167.	1.8	14
85	Barley germination: Spatio-temporal considerations for designing and interpreting omics experiments. <i>Journal of Cereal Science</i> , 2016, 70, 29-37.	1.8	21
86	Structure and function of $\alpha$ -glucan debranching enzymes. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 2619-2641.	2.4	68
87	Iminosugar inhibitors of carbohydrate-active enzymes that underpin cereal grain germination and endosperm metabolism. <i>Biochemical Society Transactions</i> , 2016, 44, 159-165.	1.6	8
88	Structural biology of starch-degrading enzymes and their regulation. <i>Current Opinion in Structural Biology</i> , 2016, 40, 33-42.	2.6	35
89	An ATP Binding Cassette Transporter Mediates the Uptake of $\alpha$ -(1,6)-Linked Dietary Oligosaccharides in <i>Bifidobacterium</i> and Correlates with Competitive Growth on These Substrates. <i>Journal of Biological Chemistry</i> , 2016, 291, 20220-20231.	1.6	54
90	Structural and Mechanical Properties of Thin Films of Bovine Submaxillary Mucin versus Porcine Gastric Mucin on a Hydrophobic Surface in Aqueous Solutions. <i>Langmuir</i> , 2016, 32, 9687-9696.	1.6	37

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91	Amylolytic glycoside hydrolases. Cellular and Molecular Life Sciences, 2016, 73, 2601-2602.	2.4	6
92	An efficient arabinoxylan-debranching $\alpha$ -L-arabinofuranosidase of family GH62 from <i>Aspergillus nidulans</i> contains a secondary carbohydrate binding site. Applied Microbiology and Biotechnology, 2016, 100, 6265-6277.	1.7	23
93	Seed thioredoxin h. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2016, 1864, 974-982.	1.1	20
94	Proteolytic Degradation of Bovine Submaxillary Mucin (BSM) and Its Impact on Adsorption and Lubrication at a Hydrophobic Surface. Langmuir, 2015, 31, 8303-8309.	1.6	20
95	The GH5 1,4- $\beta$ -mannanase from <i>Bifidobacterium animalis</i> subsp. <i>lactis</i> BI-04 possesses a low-affinity mannan-binding module and highlights the diversity of mannanolytic enzymes. BMC Biochemistry, 2015, 16, 26.	4.4	35
96	The Differential Proteome of the Probiotic <i>Lactobacillus acidophilus</i> NCFM Grown on the Potential Prebiotic Cellobiose Shows Upregulation of Two $\alpha$ -Glycoside Hydrolases. BioMed Research International, 2015, 2015, 1-9.	0.9	11
97	Analysis of Surface Binding Sites (SBS) within GH62, GH13, and GH77. Journal of Applied Glycoscience (1999), 2015, 62, 87-93.	0.3	8
98	Serological assessment of neutrophil elastase activity on elastin during lung ECM remodeling. BMC Pulmonary Medicine, 2015, 15, 53.	0.8	40
99	A Simplified Chromatographic Approach to Purify Commercially Available Bovine Submaxillary Mucins (BSM). Preparative Biochemistry and Biotechnology, 2015, 45, 84-99.	1.0	16
100	<i>Lactococcus lactis</i> Thioredoxin Reductase Is Sensitive to Light Inactivation. Biochemistry, 2015, 54, 1628-1637.	1.2	6
101	Surface binding sites in amylase have distinct roles in recognition of starch structure motifs and degradation. International Journal of Biological Macromolecules, 2015, 75, 338-345.	3.6	59
102	Oligosaccharide and Substrate Binding in the Starch Debranching Enzyme Barley Limit Dextrinase. Journal of Molecular Biology, 2015, 427, 1263-1277.	2.0	33
103	A redox-dependent dimerization switch regulates activity and tolerance for reactive oxygen species of barley seed glutathione peroxidase. Plant Physiology and Biochemistry, 2015, 90, 58-63.	2.8	3
104	Complementing DIGE proteomics and DNA subarray analyses to shed light on <i>Oenococcus oeni</i> adaptation to ethanol in wine-simulated conditions. Journal of Proteomics, 2015, 123, 114-127.	1.2	36
105	Two <i>Lactococcus lactis</i> thioredoxin paralogues play different roles in responses to arsenate and oxidative stress. Microbiology (United Kingdom), 2015, 161, 528-538.	0.7	6
106	Crystal Structure of Barley Limit Dextrinase-Limit Dextrinase Inhibitor (LD-LDI) Complex Reveals Insights into Mechanism and Diversity of Cereal Type Inhibitors. Journal of Biological Chemistry, 2015, 290, 12614-12629.	1.6	21
107	Barley Grain Proteins. , 2014, , 123-168.		4
108	The Role of Extracellular Matrix Quality in Pulmonary Fibrosis. Respiration, 2014, 88, 487-499.	1.2	36

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109	Selectivity of the surface binding site (SBS) on barley starch synthase I. <i>Biologia (Poland)</i> , 2014, 69, 1118-1121.	0.8	10
110	Î±-Amylase: an enzyme specificity found in various families of glycoside hydrolases. <i>Cellular and Molecular Life Sciences</i> , 2014, 71, 1149-1170.	2.4	272
111	A novel twist on molecular interactions between thioredoxin and nicotinamide adenine dinucleotide phosphate-dependent thioredoxin reductase. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 607-619.	1.5	8
112	A Î²1â€³ galactosidase from <i>Bifidobacterium animalis</i> subsp. <i>lactis</i> B104 gives insight into substrate specificities of Î²-galactoside catabolism within <i>Bifidobacterium</i> . <i>Molecular Microbiology</i> , 2014, 94, 1024-1040.	1.2	35
113	<i>Lactococcus lactis</i> TrxD represents a subgroup of thioredoxins prevalent in Gram-positive bacteria containing WCXDC active site motifs. <i>Archives of Biochemistry and Biophysics</i> , 2014, 564, 164-172.	1.4	7
114	Recent insight in Î±-glucan metabolism in probiotic bacteria. <i>Biologia (Poland)</i> , 2014, 69, 713-721.	0.8	19
115	Analysis of surface binding sites (SBSs) in carbohydrate active enzymes with focus on glycoside hydrolase families 13 and 77 – a mini-review. <i>Biologia (Poland)</i> , 2014, 69, 705-712.	0.8	55
116	Distinct substrate specificities of three glycoside hydrolase family 42 Î±-galactosidases from <i>Bifidobacterium longum</i> subsp. <i>infantis</i> ATCC 15697. <i>Glycobiology</i> , 2014, 24, 208-216.	1.3	40
117	Synbiotic <i>Lactobacillus acidophilus</i> NCFM and cellobiose does not affect human gut bacterial diversity but increases abundance of lactobacilli, bifidobacteria and branched-chain fatty acids: a randomized, double-blinded cross-over trial. <i>FEMS Microbiology Ecology</i> , 2014, 90, 225-236.	1.3	40
118	Transcriptional analysis of oligosaccharide utilization by <i>Bifidobacterium lactis</i> BI-04. <i>BMC Genomics</i> , 2013, 14, 312.	1.2	65
119	Recent insight into oligosaccharide uptake and metabolism in probiotic bacteria. <i>Biocatalysis and Biotransformation</i> , 2013, 31, 226-235.	1.1	23
120	Structural basis for arabinoxylooligosaccharide capture by the probiotic <i>Bifidobacterium animalis</i> subsp. <i>lactis</i> BI04. <i>Molecular Microbiology</i> , 2013, 90, 1100-1112.	1.2	58
121	Biochemical and kinetic characterisation of a novel xylooligosaccharide-upregulated GH43 Î²-d-xylosidase/Î±-l-arabinofuranosidase (BXA43) from the probiotic <i>Bifidobacterium animalis</i> subsp. <i>lactis</i> BB-12. <i>AMB Express</i> , 2013, 3, 56.	1.4	29
122	An exoproteome approach to monitor safety of a cheese-isolated <i>Lactococcus lactis</i> . <i>Food Research International</i> , 2013, 54, 1072-1079.	2.9	21
123	Kinetic analysis of inhibition of glucoamylase and active site mutants via chemoselective oxime immobilization of acarbose on SPR chip surfaces. <i>Carbohydrate Research</i> , 2013, 375, 21-28.	1.1	11
124	<i>Arabidopsis thaliana</i> AMY3 Is a Unique Redox-regulated Chloroplastic Î±-Amylase. <i>Journal of Biological Chemistry</i> , 2013, 288, 33620-33633.	1.6	79
125	Recent development of phosphorylases possessing large potential for oligosaccharide synthesis. <i>Current Opinion in Chemical Biology</i> , 2013, 17, 301-309.	2.8	122
126	The barley grain thioredoxin system – an update. <i>Frontiers in Plant Science</i> , 2013, 4, 151.	1.7	7



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127	In vitro growth of four individual human gut bacteria on oligosaccharides produced by chemoenzymatic synthesis. <i>Food and Function</i> , 2013, 4, 784.	2.1	13
128	Application of proteomics for improving crop protection/artificial regulation. <i>Frontiers in Plant Science</i> , 2013, 4, 522.	1.7	24
129	A Bacterial Glucanotransferase Can Replace the Complex Maltose Metabolism Required for Starch to Sucrose Conversion in Leaves at Night. <i>Journal of Biological Chemistry</i> , 2013, 288, 28581-28598.	1.6	34
130	Comparative fermentation of insoluble carbohydrates in an in vitro human feces model spiked with <i>Lactobacillus acidophilus</i> NCFM. <i>Starch/Staerke</i> , 2013, 65, 346-353.	1.1	6
131	A Snapshot into the Metabolism of Isomalto-oligosaccharides in Probiotic Bacteria. <i>Journal of Applied Glycoscience</i> (1999), 2013, 60, 95-100.	0.3	5
132	Surface binding sites in carbohydrate active enzymes: an emerging picture of structural and functional diversity. <i>Carbohydrate Chemistry</i> , 2013, , 204-221.	0.3	29
133	Surface Binding Sites (SBSs), Mechanism and Regulation of Enzymes Degrading Amylopectin and $\alpha$ -Limit Dextrins. <i>Journal of Applied Glycoscience</i> (1999), 2013, 60, 101-109.	0.3	1
134	Enzymology and Structure of the GH13_31 Glucan 1,6- $\alpha$ -Glucosidase That Confers Isomaltooligosaccharide Utilization in the Probiotic <i>Lactobacillus acidophilus</i> NCFM. <i>Journal of Bacteriology</i> , 2012, 194, 4249-4259.	1.0	69
135	Structure of the starch-debranching enzyme barley limit dextrinase reveals homology of the N-terminal domain to CBM21. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 1008-1012.	0.7	22
136	Raffinose family oligosaccharide utilisation by probiotic bacteria: insight into substrate recognition, molecular architecture and diversity of GH36 $\beta$ -galactosidases. <i>Biocatalysis and Biotransformation</i> , 2012, 30, 316-325.	1.1	15
137	Dissecting Molecular Interactions Involved in Recognition of Target Disulfides by the Barley Thioredoxin System. <i>Biochemistry</i> , 2012, 51, 9930-9939.	1.2	10
138	Inactivation of barley limit dextrinase inhibitor by thioredoxin-catalysed disulfide reduction. <i>FEBS Letters</i> , 2012, 586, 2479-2482.	1.3	15
139	Degradation of the starch components amylopectin and amylose by barley $\alpha$ -amylase 1: Role of surface binding site 2. <i>Archives of Biochemistry and Biophysics</i> , 2012, 528, 1-6.	1.4	21
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