

Byung-Hoo Lee

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Slowly digestible property of highly branched α -limit dextrins produced by 4,6- α -glucanotransferase from <i>Streptococcus thermophilus</i> evaluated in vitro and in vivo. <i>Carbohydrate Polymers</i> , 2022, 275, 118685.	10.2	7
2	Effect of highly branched α -glucans synthesized by dual glycosyltransferases on the glucose release rate. <i>Carbohydrate Polymers</i> , 2022, 278, 119016.	10.2	8
3	Cryoprotective effect of turanose on lyophilized <i>Lactobacillus paracasei</i> subsp. <i>paracasei</i> , L. casei 431. <i>Food Science and Biotechnology</i> , 2022, 31, 343-347.	2.6	3
4	New glucogenesis inhibition model based on complete α -glucosidases from rat intestinal tissues validated with various types of natural and pharmaceutical inhibitors. <i>Journal of the Science of Food and Agriculture</i> , 2022, 102, 4419-4424.	3.5	3
5	<i>Bifidobacterium bifidum</i> BGN4 Paraprobiotic Supplementation Alleviates Experimental Colitis by Maintaining Gut Barrier and Suppressing Nuclear Factor Kappa B Activation Signaling Molecules. <i>Journal of Medicinal Food</i> , 2022, 25, 146-157.	1.5	12
6	New insights suggest isomaltooligosaccharides are slowly digestible carbohydrates, rather than dietary fibers, at constitutive mammalian α -glucosidase levels. <i>Food Chemistry</i> , 2022, 383, 132456.	8.2	11
7	<i>Lactobacillus acidophilus</i> PIN7 paraprobiotic supplementation ameliorates DSS-induced colitis through anti-inflammatory and immune regulatory effects. <i>Journal of Applied Microbiology</i> , 2022, 132, 3189-3200.	3.1	8
8	Physicochemical properties of turanose and its potential applications as a sucrose substitute. <i>Food Science and Biotechnology</i> , 2021, 30, 433-441.	2.6	9
9	Improved rheological properties and shelf-life of wheat starch-lipid complex produced by the homogenization process. <i>Food Science and Biotechnology</i> , 2021, 30, 541-544.	2.6	3
10	Potato starch modified by <i>Streptococcus thermophilus</i> GtfB enzyme has low viscoelastic and slowly digestible properties. <i>International Journal of Biological Macromolecules</i> , 2021, 183, 1248-1256.	7.5	15
11	Lysed and disrupted <i>Bifidobacterium bifidum</i> BGN4 cells promote anti-inflammatory activities in lipopolysaccharide-stimulated RAW 264.7 cells. <i>Saudi Journal of Biological Sciences</i> , 2021, 28, 5115-5118.	3.8	7
12	Effects of enzymatically modified chestnut starch on the gut microbiome, microbial metabolome, and transcriptome of diet-induced obese mice. <i>International Journal of Biological Macromolecules</i> , 2020, 145, 235-243.	7.5	20
13	Increasing the dietary fiber contents in isomaltooligosaccharides by dextranucrase reaction with sucrose as a glucosyl donor. <i>Carbohydrate Polymers</i> , 2020, 230, 115607.	10.2	14
14	Starch nanoparticles prepared by enzymatic hydrolysis and self-assembly of short-chain glucans. <i>Food Science and Biotechnology</i> , 2020, 29, 585-598.	2.6	18
15	Highly branched α -limit dextrins attenuate the glycemic response and stimulate the secretion of satiety hormone peptide YY. <i>Food Hydrocolloids</i> , 2020, 108, 106057.	10.7	10
16	Impact of static and dynamic modes of semi-dry heat reaction on the characteristics of starch citrates. <i>Carbohydrate Polymers</i> , 2020, 233, 115853.	10.2	8
17	Enzymatically elongated rice starches by amylosucrase from <i>Deinococcus geothermalis</i> lead to slow down the glucose generation rate at the mammalian α -glucosidase level. <i>International Journal of Biological Macromolecules</i> , 2020, 149, 767-772.	7.5	4
18	Determination of glucose generation rate from various types of glycemic carbohydrates by mammalian glucosidases anchored in the small intestinal tissue. <i>International Journal of Biological Macromolecules</i> , 2020, 154, 751-757.	7.5	12

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19	Optimization of in vitro carbohydrate digestion by mammalian mucosal α -glucosidases and its applications to hydrolyze the various sources of starches. <i>Food Hydrocolloids</i> , 2019, 87, 470-476.	10.7	25
20	Different inhibition properties of catechins on the individual subunits of mucosal α -glucosidases as measured by partially-purified rat intestinal extract. <i>Food and Function</i> , 2019, 10, 4407-4413.	4.6	23
21	Structural Analysis of Gluco-Oligosaccharides Produced by <i>Leuconostoc lactis</i> and Their Prebiotic Effect. <i>Molecules</i> , 2019, 24, 3998.	3.8	14
22	Citric-acid treatment during rice processing increases the level of slowly digestible starch with a potential to regulate the post-prandial blood glucose level. <i>Journal of Cereal Science</i> , 2019, 89, 102821.	3.7	7
23	Biocatalytic Fabrication of α -Glucan-Coated Porous Starch Granules by Amylolytic and Glucan-Synthesizing Enzymes as a Target-Specific Delivery Carrier. <i>Biomacromolecules</i> , 2019, 20, 4143-4149.	5.4	10
24	Physicochemical properties of partially α -glucan-coated normal corn starch formed by amylosucrase from <i>Neisseria polysaccharia</i> . <i>International Journal of Biological Macromolecules</i> , 2019, 133, 1102-1106.	7.5	6
25	Characterization of rice starch gels reinforced with enzymatically-produced resistant starch. <i>Food Hydrocolloids</i> , 2019, 91, 76-82.	10.7	24
26	Biogenic amine production of makgeolli with controlled alcohol concentrations. <i>Food Science and Biotechnology</i> , 2019, 28, 923-930.	2.6	2
27	Green process development for apple-peel pectin production by organic acid extraction. <i>Carbohydrate Polymers</i> , 2019, 204, 97-103.	10.2	92
28	Potato phenolics impact starch digestion and glucose transport in model systems but translation to phenolic rich potato chips results in only modest modification of glycemic response in humans. <i>Nutrition Research</i> , 2018, 52, 57-70.	2.9	31
29	Effects of raw potato starch on body weight with controlled glucose delivery. <i>Food Chemistry</i> , 2018, 256, 367-372.	8.2	16
30	Amelioration of obesity in high-fat diet-fed mice by chestnut starch modified by amylosucrase from <i>Deinococcus geothermalis</i> . <i>Food Hydrocolloids</i> , 2018, 75, 22-32.	10.7	17
31	Maltase Has Most Versatile α -Hydrolytic Activity Among the Mucosal α -Glucosidases of the Small Intestine. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2018, 66, S7-S10.	1.8	11
32	Enzymatic synthesis of α -flavone glucoside via regioselective transglucosylation by amylosucrase from <i>Deinococcus geothermalis</i> . <i>PLoS ONE</i> , 2018, 13, e0207466.	2.5	24
33	Biochemical properties of L-arabinose isomerase from <i>Clostridium hylemonae</i> to produce D-tagatose as a functional sweetener. <i>PLoS ONE</i> , 2018, 13, e0196099.	2.5	22
34	Pregelatinized starches enriched in slowly digestible and resistant fractions. <i>LWT - Food Science and Technology</i> , 2018, 97, 187-192.	5.2	7
35	Physicochemical and structural properties of different colored sweet potato starches. <i>Starch/Staerke</i> , 2017, 69, 1600001.	2.1	40
36	Wheat dough syruing in cold storage is related to structural changes of starch and non-starch polysaccharides. <i>Food Research International</i> , 2017, 99, 596-602.	6.2	1

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37	Number of branch points in α -limit dextrins impact glucose generation rates by mammalian mucosal α -glucosidases. <i>Carbohydrate Polymers</i> , 2017, 157, 207-213.	10.2	31
38	Optimization of leucrose production by dextransucrase from <i>Streptococcus mutans</i> and its application as an adipogenesis regulator. <i>Journal of Functional Foods</i> , 2017, 39, 238-244.	3.4	11
39	Physical structure and absorption properties of tailor-made porous starch granules produced by selected amylolytic enzymes. <i>PLoS ONE</i> , 2017, 12, e0181372.	2.5	34
40	Efficient Biocatalytic Production of Cyclodextrins by Combined Action of Amylosucrase and Cyclodextrin Glucanotransferase. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 4371-4375.	5.2	22
41	Contribution of the Individual Small Intestinal α -Glucosidases to Digestion of Unusual α -Linked Glycemic Disaccharides. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 6487-6494.	5.2	94
42	Structure of branching enzyme- and amyloamylase modified starch produced from well-defined amylose to amylopectin substrates. <i>Carbohydrate Polymers</i> , 2016, 152, 51-61.	10.2	34
43	Enzymatic Process for High-Yield Turanose Production and Its Potential Property as an Adipogenesis Regulator. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 4758-4764.	5.2	39
44	Altering the Structure of Carbohydrate Storage Granules in the Cyanobacterium <i>Synechocystis</i> sp. Strain PCC 6803 through Branching-Enzyme Truncations. <i>Journal of Bacteriology</i> , 2016, 198, 701-710.	2.2	12
45	Effect of pH on Cleavage of Glycogen by Vaginal Enzymes. <i>PLoS ONE</i> , 2015, 10, e0132646.	2.5	31
46	Enzymatic synthesis of 2-deoxyglucose-containing maltooligosaccharides for tracing the location of glucose absorption from starch digestion. <i>Carbohydrate Polymers</i> , 2015, 132, 41-49.	10.2	8
47	Gut feedback mechanisms and food intake: a physiological approach to slow carbohydrate bioavailability. <i>Food and Function</i> , 2015, 6, 1072-1089.	4.6	42
48	Biocatalytic role of potato starch synthase III for α -glucan biosynthesis in <i>Synechocystis</i> sp. PCC6803 mutants. <i>International Journal of Biological Macromolecules</i> , 2015, 81, 710-717.	7.5	5
49	Potato Phenolics Modulate Rate of Glucose Transport in a Caco-2 Human Intestinal Cell Model. <i>FASEB Journal</i> , 2015, 29, 606.6.	0.5	3
50	Human α -amylase Present in Lower-Genital-Tract Mucosal Fluid Processes Glycogen to Support Vaginal Colonization by <i>Lactobacillus</i> . <i>Journal of Infectious Diseases</i> , 2014, 210, 1019-1028.	4.0	171
51	Multifunctional Nutrient-Binding Proteins Adapt Human Symbiotic Bacteria for Glycan Competition in the Gut by Separately Promoting Enhanced Sensing and Catalysis. <i>MBio</i> , 2014, 5, e01441-14.	4.1	58
52	Mucosal C-terminal maltase- α -glucoamylase hydrolyzes large size starch digestion products that may contribute to rapid postprandial glucose generation. <i>Molecular Nutrition and Food Research</i> , 2014, 58, 1111-1121.	3.3	37
53	Slow glucose release property of enzyme-synthesized highly branched maltodextrins differs among starch sources. <i>Carbohydrate Polymers</i> , 2014, 107, 182-191.	10.2	70
54	Glycogen Synthase Isoforms in <i>Synechocystis</i> sp. PCC6803: Identification of Different Roles to Produce Glycogen by Targeted Mutagenesis. <i>PLoS ONE</i> , 2014, 9, e91524.	2.5	29

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55	Importance of Location of Digestion and Colonic Fermentation of Starch Related to Its Quality. <i>Cereal Chemistry</i> , 2013, 90, 335-343.	2.2	69
56	Enzyme-Synthesized Highly Branched Maltodextrins Have Slow Glucose Generation at the Mucosal α -Glucosidase Level and Are Slowly Digestible In Vivo. <i>PLoS ONE</i> , 2013, 8, e59745.	2.5	83
57	Enzyme-synthesized highly branched maltodextrins have slow glucogenesis at the mucosal α -glucosidase level and are slowly digestible in vivo. <i>FASEB Journal</i> , 2013, 27, 1074.13.	0.5	0
58	Starch Source Influences Dietary Glucose Generation at the Mucosal α -Glucosidase Level. <i>Journal of Biological Chemistry</i> , 2012, 287, 36917-36921.	3.4	48
59	Inhibition of Maltase-Glucoamylase Activity to Hydrolyze α -1,4 Linkages by the Presence of Undigested Sucrose. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2012, 55, S45-7.	1.8	7
60	Modulation of Starch Digestion for Slow Glucose Release through "Toggling" of Activities of Mucosal α -Glucosidases. <i>Journal of Biological Chemistry</i> , 2012, 287, 31929-31938.	3.4	61
61	Modulation of starch digestion for slow glucose release through "toggling" of mucosal α -glucosidases by acarbose. <i>FASEB Journal</i> , 2012, 26, 638.7.	0.5	0
62	Alpha-glucogenic activity of mammalian mucosal enzymes on different disaccharides. <i>FASEB Journal</i> , 2011, 25, 93.1.	0.5	0
63	Production and characterization of digestion-resistant starch by the reaction of <i>Neisseria polysaccharea</i> amylosucrase. <i>Starch/Staerke</i> , 2010, 62, 221-228.	2.1	52
64	Characterization of 4- α -glucanotransferase from <i>Synechocystis</i> sp. PCC 6803 and its application to various corn starches. <i>New Biotechnology</i> , 2009, 26, 29-36.	4.4	24
65	Heterologous expression and characterization of glycogen branching enzyme from <i>Synechocystis</i> sp. PCC6803. <i>Journal of Microbiology and Biotechnology</i> , 2008, 18, 1386-92.	2.1	4
66	Different physicochemical properties of entirely α -glucan-coated starch from various botanical sources. <i>Food Science and Biotechnology</i> , 0, , .	2.6	0