

A genetic strategy generating wheat with very high amy

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Mutations in Durum Wheat <i>SBEII</i> Genes affect Grain Yield Components, Quality, and Fermentation Responses in Rats. <i>Crop Science</i> , 2015, 55, 2813-2825.	1.8	35
2	Genes involved in the accumulation of starch and lipids in wheat and rice: characterization using molecular and cytogenetic techniques. <i>Nucleus (India)</i> , 2015, 58, 185-190.	2.2	0
3	The impact of the <i>SSIIa</i> mutations on grain traits and composition in durum wheat. <i>Breeding Science</i> , 2016, 66, 572-579.	1.9	28
4	Role of food processing in food and nutrition security. <i>Trends in Food Science and Technology</i> , 2016, 56, 115-125.	15.1	180
5	Development of EMS-induced mutation population for amylose and resistant starch variation in bread wheat (<i>Triticum aestivum</i>) and identification of candidate genes responsible for amylose variation. <i>BMC Plant Biology</i> , 2016, 16, 217.	3.6	54
6	Critical roles of soluble starch synthase <i>SSIIIa</i> and granule-bound starch synthase <i>Waxy</i> in synthesizing resistant starch in rice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12844-12849.	7.1	154
7	Combined mutations in five wheat <i>STARCH BRANCHING ENZYME II</i> genes improve resistant starch but affect grain yield and bread-making quality. <i>Journal of Cereal Science</i> , 2017, 75, 165-174.	3.7	36
8	Cultivated Ancient Wheats (<i>Triticum</i> spp.): A Potential Source of Health-Beneficial Food Products. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2017, 16, 477-488.	11.7	211
9	Transposon insertion resulted in the silencing of <i>Wx-B1n</i> in Chinese wheat landraces. <i>Theoretical and Applied Genetics</i> , 2017, 130, 1321-1330.	3.6	14
10	Novel <i>ssIIa</i> Alleles Produce Specific Seed Amylose Levels in Hexaploid Wheat. <i>Cereal Chemistry</i> , 2017, 94, 1008-1015.	2.2	10
11	Progress in High-Amylose Cereal Crops through Inactivation of Starch Branching Enzymes. <i>Frontiers in Plant Science</i> , 2017, 8, 469.	3.6	48
12	Combining mutations at genes encoding key enzymes involved in starch synthesis affects the amylose content, carbohydrate allocation and hardness in the wheat grain. <i>Plant Biotechnology Journal</i> , 2018, 16, 1723-1734.	8.3	57
13	Alternative splicing results in a lack of starch synthase <i>Ila-D</i> in Chinese wheat landrace. <i>Genome</i> , 2018, 61, 201-208.	2.0	5
14	Rice starch biotechnology: Rice endosperm as a model of cereal endosperms. <i>Starch/Staerke</i> , 2018, 70, 1600375.	2.1	44
15	Contributions of Three Starch Branching Enzyme Isozymes to the Fine Structure of Amylopectin in Rice Endosperm. <i>Frontiers in Plant Science</i> , 2018, 9, 1536.	3.6	42
16	Crop resistant starch and genetic improvement: a review of recent advances. <i>Theoretical and Applied Genetics</i> , 2018, 131, 2495-2511.	3.6	31
17	High amylose wheat: A platform for delivering human health benefits. <i>Journal of Cereal Science</i> , 2018, 82, 99-105.	3.7	40
18	Regulating Safety of Novel Food and Genetically Modified Crops. <i>Advances in Botanical Research</i> , 2018, 86, 89-110.	1.1	2

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19	An introductory review of resistant starch type 2 from high-amylose cereal grains and its effect on glucose and insulin homeostasis. <i>Nutrition Reviews</i> , 2019, 77, 748-764.	5.8	29
20	Single Nucleotide Polymorphisms in Starch Biosynthetic Genes Associated With Increased Resistant Starch Concentration in Rice Mutant. <i>Frontiers in Genetics</i> , 2019, 10, 946.	2.3	23
21	Starch branching enzymes contributing to amylose and amylopectin fine structure in wheat. <i>Carbohydrate Polymers</i> , 2019, 224, 115185.	10.2	31
22	Altering starch branching enzymes in wheat generates high-amylose starch with novel molecular structure and functional properties. <i>Food Hydrocolloids</i> , 2019, 92, 51-59.	10.7	75
23	High-Amylose Starches to Bridge the "Fiber Gap" Development, Structure, and Nutritional Functionality. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2019, 18, 362-379.	11.7	172
24	High-Amylose Wheat Lowers the Postprandial Glycemic Response to Bread in Healthy Adults: A Randomized Controlled Crossover Trial. <i>Journal of Nutrition</i> , 2019, 149, 1335-1345.	2.9	47
25	Cas9-mediated mutagenesis of potato starch branching enzymes generates a range of tuber starch phenotypes. <i>Plant Biotechnology Journal</i> , 2019, 17, 2259-2271.	8.3	105
26	A single-base change at a splice site in <i>Wx-A1</i> caused incorrect RNA splicing and gene inactivation in a wheat EMS mutant line. <i>Theoretical and Applied Genetics</i> , 2019, 132, 2097-2109.	3.6	17
27	Emmer (<i>Triticum turgidum</i> ssp. <i>dicoccum</i>) Flour and Bread. , 2019, , 89-98.		9
28	Milling and baking quality of hexaploid spring wheat starch synthase IIa (<i>ssIIa</i>) mutants with elevated amylose content. <i>Cereal Chemistry</i> , 2019, 96, 532-544.	2.2	3
29	A critical review on structural properties and formation mechanism of heterogeneous starch granules in cereal endosperm lacking starch branching enzyme. <i>Food Hydrocolloids</i> , 2020, 100, 105434.	10.7	19
30	Sexually Dimorphic Response of Increasing Dietary Intake of High Amylose Wheat on Metabolic and Reproductive Outcomes in Male and Female Mice. <i>Nutrients</i> , 2020, 12, 61.	4.1	1
31	Effects of <i>BE1b</i> -Deficiency on the Cluster Structure of Amylopectin and the Internal Structure of Starch Granules in Endosperm and Culm of Japonica-Type Rice. <i>Frontiers in Plant Science</i> , 2020, 11, 571346.	3.6	12
32	Extraction and Characterization of Tunisian <i>Quercus ilex</i> Starch and Its Effect on Fermented Dairy Product Quality. <i>International Journal of Analytical Chemistry</i> , 2020, 2020, 1-9.	1.0	9
33	Strategies to improve wheat for human health. <i>Nature Food</i> , 2020, 1, 475-480.	14.0	54
34	High-amylose wheat starch: Structural basis for water absorption and pasting properties. <i>Carbohydrate Polymers</i> , 2020, 245, 116557.	10.2	61
35	Modification of starch composition, structure and properties through editing of <i>TaSBEL1a</i> in both winter and spring wheat varieties by CRISPR/Cas9. <i>Plant Biotechnology Journal</i> , 2021, 19, 937-951.	8.3	90
37	Genome-wide transcriptome profiling indicates the putative mechanism underlying enhanced grain size in a wheat mutant. <i>3 Biotech</i> , 2021, 11, 54.	2.2	3

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38	Analysis of the starch properties in tetraploid wheat "Aegilops sharonensis amphidiploid. Cereal Research Communications, 0, , 1.	1.6	1
39	Effects of SGP-B1 protein on the qualities of grain and starch in a recombinant inbred lines population. Cereal Research Communications, 2021, 49, 619-624.	1.6	0
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41	Identification of four functional component content QTLs of brown rice in the Yunnan mini-core collection and its near-isogenic lines using association mapping. Cereal Research Communications, 2022, 50, 357-366.	1.6	2
42	Pasting properties and the baking functionality of whole grain wheat flour with different amylose and dietary fibers content. Journal of Food Processing and Preservation, 0, , e15805.	2.0	1
43	Starch biosynthesis in cereal endosperms: An updated review over the last decade. Plant Communications, 2021, 2, 100237.	7.7	105
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47	Theoretical and experimental approaches to understand the biosynthesis of starch granules in a physiological context. Photosynthesis Research, 2020, 145, 55-70.	2.9	13
48	Evaluation of an Ileorectostomised Rat Model for Resistant Starch Determination. Nutrients, 2021, 13, 91.	4.1	1
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50	Starch and Starch-Associated Proteins: Impacts on Wheat Grain Quality. , 2020, , 21-38.		2
51	Substitution of Refined Conventional Wheat Flour with Wheat High in Resistant Starch Modulates the Intestinal Microbiota and Fecal Metabolites in Healthy Adults: A Randomized, Controlled Trial. Journal of Nutrition, 2022, 152, 1426-1437.	2.9	13
52	Mining of Potential Gene Resources for Breeding Nutritionally Improved Maize. Plants, 2022, 11, 627.	3.5	5
53	Perspective: Utilizing High Amylose Wheat Flour to Increase Dietary Fiber Intake of Children and Adolescents: A Health by Stealth Approach. Frontiers in Public Health, 2022, 10, 817967.	2.7	6
54	Grain Yield Performance and Quality Characteristics of Waxy and Non-Waxy Winter Wheat Cultivars under High and Low-Input Farming Systems. Plants, 2022, 11, 882.	3.5	2
55	High-amylose starch: Structure, functionality and applications. Critical Reviews in Food Science and Nutrition, 2023, 63, 8568-8590.	10.3	12

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58	Resistant starch formation in rice: Genetic regulation and beyond. <i>Plant Communications</i> , 2022, 3, 100329.	7.7	19
66	Health benefits of resistant starch: A review of the literature. <i>Journal of Functional Foods</i> , 2022, 93, 105094.	3.4	78
67	[Review] Understanding of Starch Biosynthesis and Development of New Rice Cultivars from Mutants. <i>Bulletin of Applied Glycoscience</i> , 2022, 12, 4-7.	0.0	0
68	Increasing the level of resistant starch in "Presidio"™ rice through multiplex CRISPR-Cas9 gene editing of starch branching enzyme genes. <i>Plant Genome</i> , 2023, 16, .	2.8	11
69	Loss of starch synthase IIIa changes starch molecular structure and granule morphology in grains of hexaploid bread wheat. <i>Scientific Reports</i> , 2022, 12, .	3.3	11
71	Characterization of Fresh Pasta Made of Common and High-Amylose Wheat Flour Mixtures. <i>Foods</i> , 2022, 11, 2510.	4.3	4
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73	Insights into breeding history, hotspot regions of selection, and untapped allelic diversity for bread wheat breeding. <i>Plant Journal</i> , 2022, 112, 897-918.	5.7	3
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75	Novel quality features to expand durum wheat applications. <i>Journal of the Science of Food and Agriculture</i> , 2023, 103, 4268-4274.	3.5	0
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79	High amylose wheat foods: A new opportunity to improve human health. <i>Trends in Food Science and Technology</i> , 2023, 135, 93-101.	15.1	3
80	TabHLH95-TaNF-YB1 module promotes grain starch synthesis in bread wheat. <i>Journal of Genetics and Genomics</i> , 2023, 50, 883-894.	3.9	1
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83	Structures and digestibility of B-type high-amylose rice starches compared with A-type high-amylose rice starches. Journal of Cereal Science, 2023, 112, 103713.	3.7	3
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87	Genetic improvement of dietary fiber in wheat grains. , 2024, 3, 0-0.		0
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