

# The Past, Present, and Future of Maize Improvement: D Functional Genomic Routes toward Crop Enhancement

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Differential Expression of Maize and Teosinte microRNAs under Submergence, Drought, and Alternated Stress. <i>Plants</i> , 2020, 9, 1367.	1.6	12
2	Synergistic Regulation of Nitrogen and Sulfur on Redox Balance of Maize Leaves and Amino Acids Balance of Grains. <i>Frontiers in Plant Science</i> , 2020, 11, 576718.	1.7	9
3	Genome-wide association study of resistance to Mal de R�o Cuarto disease in maize. <i>Agronomy Journal</i> , 2020, 112, 4624-4633.	0.9	3
4	Crop breeding â€œ From experience-based selection to precision design. <i>Journal of Plant Physiology</i> , 2021, 256, 153313.	1.6	19
5	Harnessing Knowledge from Maize and Rice Domestication for New Crop Breeding. <i>Molecular Plant</i> , 2021, 14, 9-26.	3.9	58
6	Identification of Polymorphic Markers by High-Resolution Melting (HRM) Assay for High-Throughput SNP Genotyping in Maize. <i>Phyton</i> , 2021, 90, 1711-1725.	0.4	0
7	sgRNACNN: identifying sgRNA on-target activity in four crops using ensembles of convolutional neural networks. <i>Plant Molecular Biology</i> , 2021, 105, 483-495.	2.0	89
8	Genetic characterization of popcorn hybrids based on SNP genotyping and development of rapid ARMS based primers. <i>Journal of Crop Science and Biotechnology</i> , 2021, 24, 319-325.	0.7	0
9	Single-cell RNA sequencing of developing maize ears facilitates functional analysis and trait candidate gene discovery. <i>Developmental Cell</i> , 2021, 56, 557-568.e6.	3.1	129
10	CRISPR-Cas technology in corn: a new key to unlock genetic knowledge and create novel products. <i>Molecular Breeding</i> , 2021, 41, 1.	1.0	13
11	Genetic Variation of the Serine Acetyltransferase Gene Family for Sulfur Assimilation in Maize. <i>Genes</i> , 2021, 12, 437.	1.0	0
12	Molecular breeding and the impacts of some important genes families on agronomic traits, a review. <i>Genetic Resources and Crop Evolution</i> , 2021, 68, 1709-1730.	0.8	16
13	New genomic approaches for enhancing maize genetic improvement. <i>Current Opinion in Plant Biology</i> , 2021, 60, 101977.	3.5	9
14	The genetic mechanism of heterosis utilization in maize improvement. <i>Genome Biology</i> , 2021, 22, 148.	3.8	69
15	Applications and Major Achievements of Genome Editing in Vegetable Crops: A Review. <i>Frontiers in Plant Science</i> , 2021, 12, 688980.	1.7	18
16	The utility of metabolomics as a tool to inform maize biology. <i>Plant Communications</i> , 2021, 2, 100187.	3.6	17
17	Restructuring plant types for developing tailor-made crops. <i>Plant Biotechnology Journal</i> , 2023, 21, 1106-1122.	4.1	10
18	qTeller: a tool for comparative multi-genomic gene expression analysis. <i>Bioinformatics</i> , 2021, 38, 236-242.	1.8	15

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19	Transcriptome and Resequencing Analyses Provide Insight into Differences in Organic Acid Accumulation in Two Pear Varieties. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9622.	1.8	5
20	Introduction to the Special Issue: The ecology and genetics of population differentiation in plants. <i>AoB PLANTS</i> , 2021, 13, plab057.	1.2	4
21	Variation in non-target traits in genetically modified hybrid aspens does not exceed natural variation. <i>New Biotechnology</i> , 2021, 64, 27-36.	2.4	0
22	Plasticity of root anatomy during domestication of a maize-teosinte derived population. <i>Journal of Experimental Botany</i> , 2022, 73, 139-153.	2.4	11
23	Comparative analyses of responses to exogenous and endogenous antiherbivore elicitors enable a forward genetics approach to identify maize gene candidates mediating sensitivity to herbivore-associated molecular patterns. <i>Plant Journal</i> , 2021, 108, 1295-1316.	2.8	9
24	Maize diversity for fall armyworm resistance in a warming world. <i>Crop Science</i> , 2022, 62, 1-19.	0.8	7
25	Wild Progenitor and Landraces Led Genetic Gain in the Modern-Day Maize ( <i>Zea mays</i> L.). , 0, , .		3
26	Grain properties of new inbred lines in comparison with maize hybrids. <i>Journal on Processing and Energy in Agriculture</i> , 2020, 24, 95-99.	0.3	1
27	Grain properties of yellow and red kernel maize hybrids from Serbia. <i>Selekcija I Semearstvo</i> , 2020, 26, 7-14.	0.6	5
28	Assessment of <i>Acacia dealbata</i> as green manure and weed control for maize crop. <i>Renewable Agriculture and Food Systems</i> , 0, , 1-15.	0.8	2
29	Back to the wild: mining maize ( <i>Zea mays</i> L.) disease resistance using advanced breeding tools. <i>Molecular Biology Reports</i> , 2022, 49, 5787-5803.	1.0	8
31	Source material from the VIR collection for hybrid breeding of multiple-ear maize. <i>Proceedings on Applied Botany, Genetics and Breeding</i> , 2021, 182, 27-35.	0.1	1
32	Maize Breeding. , 2022, , 221-258.		4
33	Mutant <i>lpa1</i> Analysis of <i>ZmLPA1</i> Gene Regulates Maize Leaf-Angle Development through the Auxin Pathway. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4886.	1.8	7
34	Exploring and exploiting genetics and genomics for sweetpotato improvement: Status and perspectives. <i>Plant Communications</i> , 2022, 3, 100332.	3.6	33
36	Prospects of Feral Crop De Novo Redomestication. <i>Plant and Cell Physiology</i> , 2022, 63, 1641-1653.	1.5	8
37	Maize ( <i>Zea mays</i> L.) as a Model System for Plant Genetic, Genomic, and Applied Research. , 0, , .		0
38	De Novo Domestication in the Multi-Omics Era. <i>Plant and Cell Physiology</i> , 0, , .	1.5	4

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39	Cloning of a new allele of ZmAMP1 and evaluation of its breeding value in hybrid maize. <i>Crop Journal</i> , 2023, 11, 157-165.	2.3	2
40	Advances in research and utilization of maize wild relatives. <i>Chinese Science Bulletin</i> , 2022, 67, 4370-4387.	0.4	1
41	Local nitrogen application increases maize post-silking nitrogen uptake of responsive genotypes via enhanced deep root growth. <i>Journal of Integrative Agriculture</i> , 2022, , .	1.7	1
42	Genomic Selection for Enhanced Stress Tolerance in Maize. , 2022, , 121-160.		0
43	Teosinte confers specific alleles and yield potential to maize improvement. <i>Theoretical and Applied Genetics</i> , 2022, 135, 3545-3562.	1.8	7
44	Variation of vitamin B contents in maize inbred lines: Potential genetic resources for biofortification. <i>Frontiers in Nutrition</i> , 0, 9, .	1.6	2
45	OMICS in Fodder Crops: Applications, Challenges, and Prospects. <i>Current Issues in Molecular Biology</i> , 2022, 44, 5440-5473.	1.0	4
46	Genomic Variation Underlying the Breeding Selection of Quinoa Varieties Longli-4 and CA3-1 in China. <i>International Journal of Molecular Sciences</i> , 2022, 23, 14030.	1.8	4
48	Application of Spent Sun Mushroom Substrate in Substitution of Synthetic Fertilizers at Maize Topdressing. <i>Agronomy</i> , 2022, 12, 2884.	1.3	3
49	Novel Combination of the Biophysical, Nutritional, and Nutraceutical Properties in Subtropical Pigmented Maize Hybrids. <i>Plants</i> , 2022, 11, 3221.	1.6	4
50	A dynamic phosphoproteomic analysis provides insight into the <sc>C4</sc> plant maize (<i>Zea mays</i> L.) BT/Overlock 10 Tff	2.8	4
51	The effects of a few important gene families on sorghum agronomic traits. <i>Agronomy Science and Biotechnology</i> , 0, 9, 1-11.	0.3	0
52	Regulatory roles of noncoding RNAs in callus induction and plant cell dedifferentiation. <i>Plant Cell Reports</i> , 2023, 42, 689-705.	2.8	1
53	QTL Mapping and a Transcriptome Integrative Analysis Uncover the Candidate Genes That Control the Cold Tolerance of Maize Introgression Lines at the Seedling Stage. <i>International Journal of Molecular Sciences</i> , 2023, 24, 2629.	1.8	2
54	Integrated single-molecule real-time sequencing and RNA sequencing reveal the molecular mechanisms of salt tolerance in a novel synthesized polyploid genetic bridge between maize and its wild relatives. <i>BMC Genomics</i> , 2023, 24, .	1.2	1
55	The Use of DArTseq Technology to Identify Markers Related to the Heterosis Effects in Selected Traits in Maize. <i>Current Issues in Molecular Biology</i> , 2023, 45, 2644-2660.	1.0	3
64	Population Genomics of Maize. <i>Population Genomics</i> , 2022, , .	0.2	1