

CITATION REPORT

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CRISPR/Cas9 directed editing of lycopene epsilon-cyclase modulates metabolic flux for β -carotene biosynthesis in banana fruit

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#	Paper	IF	Citations
93	The present and potential future methods for delivering CRISPR/Cas9 components in plants. <i>Journal of Genetic Engineering and Biotechnology</i> , 2020 , 18, 25	3.1	44
92	Biofortification of Crops Using Biotechnology to Alleviate Malnutrition. 2020 ,		0
91	The era of editing plant genomes using CRISPR/Cas: A critical appraisal. <i>Journal of Biotechnology</i> , 2020 , 324, 34-60	3.7	8
90	Environmental impacts on carotenoid metabolism in leaves. <i>Plant Growth Regulation</i> , 2020 , 92, 455-477	3.2	12
89	Effects of metabolic pathway gene copy numbers on the biosynthesis of (2S)-naringenin in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biotechnology</i> , 2021 , 325, 119-127	3.7	11
88	CRISPR/Cas genome editing to optimize pharmacologically active plant natural products. <i>Pharmacological Research</i> , 2021 , 164, 105359	10.2	8
87	Emerging tools and paradigm shift of gene editing in cereals, fruits, and horticultural crops for enhancing nutritional value and food security. <i>Food and Energy Security</i> , 2021 , 10, e258	4.1	3
86	CRISPR-Mediated Engineering across the Central Dogma in Plant Biology for Basic Research and Crop Improvement. <i>Molecular Plant</i> , 2021 , 14, 127-150	14.4	28
85	Role of CRISPR/Cas system in altering phenolic and carotenoid biosynthesis in plants defense activation. 2021 , 319-331		
84	CRISPR/Cas systems as antimicrobial agents for agri-food pathogens. 2021 , 361-386		
83	Genetic Variation and Unintended Risk in the Context of Old and New Breeding Techniques. <i>Critical Reviews in Plant Sciences</i> , 2021 , 40, 68-108	5.6	5
82	Improved nutritional quality in fruit tree species through traditional and biotechnological approaches. <i>Trends in Food Science and Technology</i> , 2021 , 117, 125-125	15.3	8
81	CRISPR/Cas9-Mediated Gene Editing Revolutionizes the Improvement of Horticulture Food Crops. <i>Journal of Agricultural and Food Chemistry</i> , 2021 , 69, 13260-13269	5.7	5
80	Multinutrient Biofortification of Maize (L.) in Africa: Current Status, Opportunities and Limitations. <i>Nutrients</i> , 2021 , 13,	6.7	12
79	Genome Editing: Revolutionizing the Crop Improvement. <i>Plant Molecular Biology Reporter</i> , 1	1.7	4
78	Establishment of CRISPR/Cas9 mediated targeted mutagenesis in hop (<i>Humulus lupulus</i>). <i>Plant Physiology and Biochemistry</i> , 2021 , 160, 1-7	5.4	7
77	Advanced genome editing strategies for manipulation of plant specialized metabolites pertaining to biofortification. <i>Phytochemistry Reviews</i> , 1	7.7	4

76	Application of CRISPR/Cas9 in Crop Quality Improvement. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	16
75	Genome editing in fruit, ornamental, and industrial crops. <i>Transgenic Research</i> , 2021 , 30, 499-528	3.3	5
74	Genome editing of polyploid crops: prospects, achievements and bottlenecks. <i>Transgenic Research</i> , 2021 , 30, 337-351	3.3	12
73	CRISPR/Cas: a Nobel Prize award-winning precise genome editing technology for gene therapy and crop improvement. <i>Journal of Zhejiang University: Science B</i> , 2021 , 22, 253-284	4.5	34
72	Genome editing for crop improvement: A perspective from India. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2021 , 57, 1-9	2.3	5
71	Future-Proofing EU Legislation for Genome-Edited Plants: Dutch Stakeholders' Views on Possible Ways Forward. <i>Agronomy</i> , 2021 , 11, 1331	3.6	2
70	Comparative transcriptome analysis of unripe and ripe banana (cv. Nendran) unraveling genes involved in ripening and other related processes. <i>PLoS ONE</i> , 2021 , 16, e0254709	3.7	3
69	Rational design of geranylgeranyl diphosphate synthase enhances carotenoid production and improves photosynthetic efficiency in <i>Nicotiana tabacum</i> . <i>Science Bulletin</i> , 2021 ,	10.6	2
68	Induced Genetic Variations in Fruit Trees Using New Breeding Tools: Food Security and Climate Resilience. <i>Plants</i> , 2021 , 10,	4.5	3
67	Gene editing in tree and clonal crops: progress and challenges. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 1	2.3	0
66	Transgenic and genome-edited fruits: background, constraints, benefits, and commercial opportunities. <i>Horticulture Research</i> , 2021 , 8, 166	7.7	8
65	Random mutagenesis in vegetatively propagated crops: opportunities, challenges and genome editing prospects. <i>Molecular Biology Reports</i> , 2021 , 1	2.8	1
64	Carotenoid Biofortification of Crops in the CRISPR Era. <i>Trends in Biotechnology</i> , 2021 , 39, 857-860	15.1	3
63	Application of Gene Editing for Climate Change in Agriculture. <i>Frontiers in Sustainable Food Systems</i> , 2021 , 5,	4.8	11
62	Compendium of Plant-Specific CRISPR Vectors and Their Technical Advantages. <i>Life</i> , 2021 , 11,	3	2
61	Potential applications of the CRISPR/Cas technology for genetic improvement of yam (<i>Dioscorea</i> spp.). <i>Food and Energy Security</i> , e330	4.1	1
60	Current Advancements and Limitations of Gene Editing in Orphan Crops. <i>Frontiers in Plant Science</i> , 2021 , 12, 742932	6.2	4
59	CRISPR/dCas9-Based Systems: Mechanisms and Applications in Plant Sciences. <i>Plants</i> , 2021 , 10,	4.5	7

58	Correlation of carotenoid accumulation and expression pattern of carotenoid biosynthetic pathway genes in Indian wheat varieties. <i>Journal of Cereal Science</i> , 2021 , 102, 103303	3.8	0
57	Overexpression of native ORANGE (OR) and OR mutant protein in <i>Chlamydomonas reinhardtii</i> enhances carotenoid and ABA accumulation and increases resistance to abiotic stress. <i>Metabolic Engineering</i> , 2021 , 68, 94-105	9.7	3
56	Contribution of Crop Biofortification in Mitigating Vitamin Deficiency Globally. 2021 , 112-130		1
55	Resistant starch: biosynthesis, regulatory pathways, and engineering via CRISPR system. 2021 , 303-317		
54	CRISPR/Cas 9-Based Editing in the Production of Bioactive Molecules. <i>Molecular Biotechnology</i> , 2021 , 1	3	0
53	Overexpression of Orange (OR) and OR mutant protein in <i>Chlamydomonas reinhardtii</i> enhances carotenoid and ABA accumulation and increases resistance to abiotic stress.		1
52	Microbe-Mediated Genetic Engineering for Enhancement of Nutritional Value in Food Crops. <i>Environmental and Microbial Biotechnology</i> , 2020 , 19-53	1.4	
51	Current technological interventions and applications of CRISPR/Cas for crop improvement. <i>Molecular Biology Reports</i> , 2021 , 1	2.8	0
50	Genomic Approaches for Improvement of Tropical Fruits: Fruit Quality, Shelf Life and Nutrient Content.. <i>Genes</i> , 2021 , 12,	4.2	2
49	An Efficient Clustered Regularly Interspaced Short Palindromic Repeat (CRISPR)/CRISPR-Associated Protein 9 Mutagenesis System for Oil Palm (). <i>Frontiers in Plant Science</i> , 2021 , 12, 773656	6.2	4
48	Utilizing CRISPR-Cas in Tropical Crop Improvement: A Decision Process for Fitting Genome Engineering to Your Species. <i>Frontiers in Genetics</i> , 2021 , 12, 786140	4.5	
47	The Genetic Components of a Natural Color Palette: A Comprehensive List of Carotenoid Pathway Mutations in Plants.. <i>Frontiers in Plant Science</i> , 2021 , 12, 806184	6.2	2
46	Shifting Paradigm Towards the Crops: From Model Plants to Crops and Employing the Genome Engineering to Target Traits. 2021 , 511-535		0
45	Advances and application of CRISPR-Cas systems. 2022 , 331-348		
44	CRISPR-Cas9: Role in Processing of Modular Metabolic Engineered Bio-Based Products.		
43	Genome Editing for Improving Crop Nutrition.. <i>Frontiers in Genome Editing</i> , 2022 , 4, 850104	2.5	0
42	Control of Bacterial Diseases of Banana Using CRISPR/Cas-Based Gene Editing.. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	2
41	Role of CRISPR/Cas9 in Soybean (<i>Glycine max</i> L.) Quality Improvement.		0

40	Genetic modifications associated with sustainability aspects for sustainable developments.. <i>Bioengineered</i> , 2022 , 13, 9508-9520	5.7	3
39	Is There Still Room to Improve Medicinal Herbs (Functional Herbs) by Gene Editing for Health?.		
38	Genome Editing for Sustainable Agriculture in Africa. <i>Frontiers in Genome Editing</i> , 2022 , 4,	2.5	3
37	Functional characterization and comparison of lycopene epsilon-cyclase genes in <i>Nicotiana tabacum</i> . <i>BMC Plant Biology</i> , 2022 , 22,	5.3	0
36	CRISPR/Cas Genome Editing in Engineering Plant Secondary Metabolites of Therapeutic Benefits. 2022 , 187-208		
35	Genome Editing Crops in Food and Futuristic Crops. 2022 , 401-445		
34	Engineering of triterpene metabolism and overexpression of the lignin biosynthesis gene PAL promotes ginsenoside Rg 3 accumulation in ginseng plant chassis. <i>Journal of Integrative Plant Biology</i> ,	8.3	1
33	Principles and Practices of Genome Editing in Crop Plants. 2022 , 1-21		
32	Improving crops through transgenic breeding—Technological advances and prospects. 2022 , 295-324		0
31	Analysis of TCP Transcription Factors Revealed Potential Roles in Plant Growth and <i>Fusarium oxysporum</i> f.sp. <i>cubense</i> Resistance in Banana (cv. Rasthali). <i>Applied Biochemistry and Biotechnology</i>	3.2	0
30	CRISPR-Cas9 mediated genome tailoring to improve nutritional quality and shelf life in crops: A review. <i>Plant Gene</i> , 2022 , 31, 100369	3.1	0
29	<i>Agrobacterium</i> -mediated genetic transformation and cloning of candidate reference genes in suspension cells of <i>Artemisia pallens</i> Wall. ex DC. 2022 , 12,		
28	CRISPR-Based Genome Editing for Nutrient Enrichment in Crops: A Promising Approach Toward Global Food Security. 13,		1
27	CRISPR Genome Editing Brings Global Food Security into the First Lane: Enhancing Nutrition and Stress Resilience in Crops. 2022 , 285-344		0
26	Genome Editing Is Revolutionizing Crop Improvement. 2022 , 3-41		0
25	Improvement of Genetic Variation for Nutrients and Bioactive Food Components in Cereal Crops. 2022 , 51-80		0
24	Opportunities and challenges with CRISPR-Cas mediated homologous recombination based precise editing in plants and animals.		1
23	Genome editing technologies, mechanisms and improved production of therapeutic phytochemicals: Opportunities and prospects.		1

22	Open avenues for carotenoid biofortification of plant tissues. 2022 , 100466	2
21	Banana MaERF124 negatively modulates carotenoid accumulation during fruit ripening through repression of carotenogenesis genes. 2023 , 195, 112151	0
20	Genome Engineering as a Tool for Enhancing Crop Traits: Lessons from CRISPR/Cas9. 2022 , 3-25	0
19	Intended and unintended consequences of genetically modified crops [myth, fact and/or manageable outcomes?]. 1-101	0
18	Banana somatic embryogenesis and biotechnological application. 2022 , 1, 1-13	0
17	Clustered regularly interspaced short palindromic repeats tools for plant metabolic engineering: achievements and perspectives. 2023 , 79, 102856	0
16	A dual sgRNA-directed CRISPR/Cas9 construct for editing the fruit-specific β -cyclase 2 gene in pigmented citrus fruits. 13,	1
15	Rapid and efficient CRISPR/Cas9-mediated genome editing in potato via hairy root induction.	0
14	The Role of Italy in the Use of Advanced Plant Genomic Techniques on Fruit Trees: State of the Art and Future Perspectives. 2023 , 24, 977	0
13	Carotenoid metabolism: New insights and synthetic approaches. 13,	0
12	Tending genome editing via CRISPR/Cas9-induced mutagenesis: Opportunity and challenges for yield, quality and nutritional improvement of fruit crops. 2023 , 311, 111790	0
11	Genome editing for vegetatively propagated crops improvement: a new horizon of possibilities.	0
10	CRISPR-Cas Genome Editing for Horticultural Crops Improvement: Advantages and Prospects. 2023 , 9, 38	0
9	A Perspective Review on Understanding Drought Stress Tolerance in Wild Banana Genetic Resources of Northeast India. 2023 , 14, 370	0
8	Targeted mutagenesis with sequence-specific nucleases for accelerated improvement of polyploid crops: Progress, challenges, and prospects.	0
7	Genome Editing by CRISPR/Cas9 in Polyploids. 2023 , 459-473	0
6	Applications of CRISPR/Cas genome editing in economically important fruit crops: recent advances and future directions. 2023 , 3,	0
5	Genome editing in cotton: challenges and opportunities. 2023 , 6,	0

- 4 Overexpression of banana GDP-L-galactose phosphorylase (GGP) modulates the biosynthesis of ascorbic acid in *Arabidopsis thaliana*. **2023**, 237, 124124
- 3 Engineering the plant metabolic system by exploiting metabolic regulation.
- 2 Iron transport and homeostasis in plants: current updates and applications for improving human nutrition values and sustainable agriculture.
- 1 Enhancing the quality of staple food crops through CRISPR/Cas-mediated site-directed mutagenesis. **2023**, 257,