The present and potential future methods for deliverin

Journal of Genetic Engineering and Biotechnology
18, 25
DOI: 10.1186/s43141-020-00036-8

Citation Report

#	Article	IF	Citations
1	Efficient isolation of protoplasts from rice calli with pause points and its application in transient gene expression and genome editing assays. Plant Methods, 2020, 16, 151.	1.9	14
2	Revisiting CRISPR/Cas-mediated crop improvement: Special focus on nutrition. Journal of Biosciences, 2020, 45, 1.	0.5	18
3	The era of editing plant genomes using CRISPR/Cas: A critical appraisal. Journal of Biotechnology, 2020, 324, 34-60.	1.9	12
4	PEG-Delivered CRISPR-Cas9 Ribonucleoproteins System for Gene-Editing Screening of Maize Protoplasts. Genes, 2020, 11, 1029.	1.0	36
5	DNA-free gene editing in plants: a brief overview. Biotechnology and Biotechnological Equipment, 2021, 35, 131-138.	0.5	29
6	Plant Viruses: From Targets to Tools for CRISPR. Viruses, 2021, 13, 141.	1.5	36
7	CRISPR mediated genome editing, a tool to dissect RNA modification processes. Methods in Enzymology, 2021, 658, 435-452.	0.4	0
8	Genetic Variation and Unintended Risk in the Context of Old and New Breeding Techniques. Critical Reviews in Plant Sciences, 2021, 40, 68-108.	2.7	20
9	Induced Mutagenesis in Date Palm (Phoenix dactylifera L.) Breeding. Compendium of Plant Genomes, 2021, , 121-154.	0.3	1
10	Genetic transformation methods and advancement of CRISPR/Cas9 technology in wheat. , 2021, , 253-275.		0
11	CRISPR/Cas for Crop Improvement. Resonance, 2021, 26, 227-240.	0.2	2
12	Genome editing reagent delivery in plants. Transgenic Research, 2021, 30, 321-335.	1.3	35
13	Can genetic engineering-based methods for gene function identification be eclipsed by genome editing in plants? A comparison of methodologies. Molecular Genetics and Genomics, 2021, 296, 485-500.	1.0	3
14	Plastid transformation: Advances and challenges for its implementation in agricultural crops. Electronic Journal of Biotechnology, 2021, 51, 95-109.	1.2	15
15	Metabolic engineering in woody plants: challenges, advances, and opportunities. ABIOTECH, 2021, 2, 299-313.	1.8	0
16	TSA Promotes CRISPR/Cas9 Editing Efficiency and Expression of Cell Division-Related Genes from Plant Protoplasts. International Journal of Molecular Sciences, 2021, 22, 7817.	1.8	10
17	Induced Genetic Variations in Fruit Trees Using New Breeding Tools: Food Security and Climate Resilience. Plants, 2021, 10, 1347.	1.6	13
18	Biotechnological Methods for Buckwheat Breeding. Plants, 2021, 10, 1547.	1.6	11

#	Article	IF	Citations
19	Seed Mucilage: Biological Functions and Potential Applications in Biotechnology. Plant and Cell Physiology, 2021, 62, 1847-1857.	1.5	24
20	Exosome/Liposome-like Nanoparticles: New Carriers for CRISPR Genome Editing in Plants. International Journal of Molecular Sciences, 2021, 22, 7456.	1.8	37
21	CRISPR-Cas Based Precision Breeding in Date Palm: Future Applications. Compendium of Plant Genomes, 2021, , 169-199.	0.3	2
22	Applicability of the EFSA Opinion on siteâ€directed nucleases type 3 for the safety assessment of plants developed using siteâ€directed nucleases type 1 and 2 and oligonucleotideâ€directed mutagenesis. EFSA Journal, 2020, 18, e06299.	0.9	31
23	Agroinfiltration Mediated Scalable Transient Gene Expression in Genome Edited Crop Plants. International Journal of Molecular Sciences, 2021, 22, 10882.	1.8	21
24	Multiplex Site-Directed Gene Editing Using Polyethylene Glycol-Mediated Delivery of CRISPR gRNA:Cas9 Ribonucleoprotein (RNP) Complexes to Carrot Protoplasts. International Journal of Molecular Sciences, 2021, 22, 10740.	1.8	6
25	An Outlook on Global Regulatory Landscape for Genome-Edited Crops. International Journal of Molecular Sciences, 2021, 22, 11753.	1.8	43
26	Pollens in therapeutic/diagnostic systems and immune system targeting. Journal of Controlled Release, 2021, 340, 308-317.	4.8	8
27	Utilizing CRISPR-Cas in Tropical Crop Improvement: A Decision Process for Fitting Genome Engineering to Your Species. Frontiers in Genetics, 2021, 12, 786140.	1.1	0
28	CRISPR-Cas genome editing system: A versatile tool for developing disease resistant crops. Plant Stress, 2022, 3, 100056.	2.7	11
29	Applications of CRISPR/Cas9 technology for modification of the plant genome. Genetica, 2022, 150, 1-12.	0.5	8
30	Advances in Delivery Mechanisms of CRISPR Gene-Editing Reagents in Plants. Frontiers in Genome Editing, 2022, 4, 830178.	2.7	29
31	CRISPRâ€“Cas-mediated transcriptional control and epi-mutagenesis. Plant Physiology, 2022, 188, 1811-1824.	2.3	21
32	CRISPR/Cas Genome Editing in Potato: Current Status and Future Perspectives. Frontiers in Genetics, 2022, 13, 827808.	1.1	13
33	Protoplast Isolation and Transformation in Oil. Methods in Molecular Biology, 2022, 2464, 187-202.	0.4	4
34	Principles of Nanoparticle Design for Genome Editing in Plants. Frontiers in Genome Editing, 2022, 4, 846624.	2.7	7
35	Biotechnological Perspectives to Combat the COVID-19 Pandemic: Precise Diagnostics and Inevitable Vaccine Paradigms. Cells, 2022, 11, 1182.	1.8	10
36	CRISPR/Cas9-Mediated Mutagenesis of the Granule-Bound Starch Synthase Gene in the Potato Variety Yukon Gold to Obtain Amylose-Free Starch in Tubers. International Journal of Molecular Sciences, 2022, 23, 4640.	1.8	23

#	Article	IF	Citations
37	Highly efficient Agrobacterium-mediated transformation and plant regeneration system for genome engineering in tomato. Saudi Journal of Biological Sciences, 2022, 29, 103292.	1.8	7
38	CRISPR/Cas9 System: A Potential Tool for Genetic Improvement in Floricultural Crops. Molecular Biotechnology, 2022, 64, 1303-1318.	1.3	11
39	Improving crops through transgenic breedingâ€"Technological advances and prospects. , 2022, , 295-324.		2
40	Genome editing (CRISPR-Cas)-mediated virus resistance in potato (Solanum tuberosum L.). Molecular Biology Reports, 0, , .	1.0	5
41	CRISPR/Cas- and Topical RNAi-Based Technologies for Crop Management and Improvement: Reviewing the Risk Assessment and Challenges Towards a More Sustainable Agriculture. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	7
42	<scp>CRISPR</scp>/Casâ€based tools for the targeted control of plant viruses. Molecular Plant Pathology, 2022, 23, 1701-1718.	2.0	20
43	A review on CRISPR/Cas-based epigenetic regulation in plants. International Journal of Biological Macromolecules, 2022, 219, 1261-1271.	3.6	23
44	CRISPR/Cas9 technology as an innovative approach to enhancing the phytoremediation: Concepts and implications. Journal of Environmental Management, 2022, 323, 116296.	3.8	5
45	Targeted Genome-Editing Techniques in Plant Defense Regulation. , 2022, , 1-32.		0
46	Mechanistic Concept of Physiological, Biochemical, and Molecular Responses of the Potato Crop to Heat and Drought Stress. Plants, 2022, 11, 2857.	1.6	22
47	Genome Editing for Sustainable Crop Improvement and Mitigation of Biotic and Abiotic Stresses. Plants, 2022, 11, 2625.	1.6	20
48	New genetic modification techniques: challenges and prospects. , 2023, , 918-937.		2
49	Unintended Genomic Outcomes in Current and Next Generation GM Techniques: A Systematic Review. Plants, 2022, 11, 2997.	1.6	12
51	Exploring the potential of CRISPR/Cas genome editing for vegetable crop improvement: An overview of challenges and approaches. Biotechnology and Bioengineering, 2023, 120, 1215-1228.	1.7	9
52	CRISPR-Cas: A robust technology for enhancing consumer-preferred commercial traits in crops. Frontiers in Plant Science, 0, 14, .	1.7	10
53	Plant Virus-Derived Vectors for Plant Genome Engineering. Viruses, 2023, 15, 531.	1.5	11
54	Genome editing for improving nutritional quality, post-harvest shelf life and stress tolerance of fruits, vegetables, and ornamentals. Frontiers in Genome Editing, 0, 5, .	2.7	3
55	Advances in Genome Editing for Maize Improvement. , 2023, , 181-194.		0

#	Article	IF	Citations
56	Automated, High-Throughput Protoplast Transfection for Gene Editing and Transgene Expression Studies. Methods in Molecular Biology, 2023, , 129-149.	0.4	0
57	CRISPR/Cas9-Mediated Genome Editing via Homologous Recombination in a Centric Diatom Chaetoceros muelleri. ACS Synthetic Biology, 2023, 12, 1287-1296.	1.9	2
60	Plant breeding for harmony between sustainable agriculture, the environment, and global food security: an era of genomicsâ€assisted breeding. Planta, 2023, 258, .	1.6	5
68	Novel Delivery Methods for CRISPR-Based Plant Genome Editing. , 2024, , 41-67.		0
71	Grapevine origin and diversity. Advances in Botanical Research, 2024, , .	0.5	0
72	Advances in Delivery of CRISPRâ€“Cas Reagents for Precise Genome Editing in Plants. , 2024, , 543-569.		0
73	Clustered Regularly Interspaced Short Palindromic Repeats (CRISPR)-Associated Proteins (Cas) [CRISPRâ€“Cas]: An Emerging Technique in Plant Disease Detection and Management. , 2024, , 589-645.		0
74	Regulatory, ethical, and social aspects of CRISPR crops. , 2024, , 439-470.		0
75	Improving Qualities of Horticultural Crops Using Various CRISPR Delivery Methods. , 2024, , 239-260.		0