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A simple and general method for transferring genes into plants

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1911	Perturbation of the ubiquitin system causes leaf curling, vascular tissue alterations and necrotic lesions in a higher plant 1990 , 9, 4543-4549	70
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1638	Modulation of cellular polyamines in tobacco by transfer and expression of mouse ornithine decarboxylase cDNA. 1993 , 22, 113-27	88
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64	Ectopic expression of Xenorhabdus nematophila chitinase in tobacco confers resistance against Helicoverpa´armigera.	O
63	Reconstitution of monoterpene indole alkaloid biosynthesis in genome engineered Nicotiana benthamiana. 2022 , 5,	1
62	The coiled-coil protein gene WPRb confers recessive resistance to Cucumber green mottle mosaic virus.	0
61	Tobacco mosaic virus hijacks its coat protein-interacting protein IP-L to inhibit NbCML30, a calmodulin-like protein, to enhance its infection.	1
60	Transcription factors ABF4 and ABR1 synergistically regulate amylase-mediated starch catabolism in drought tolerance.	0
59	Heterologous biosynthesis of isobavachalcone in tobacco based on in planta screening of prenyltransferases. 13,	o
58	The C-terminal stretch of glycine-rich proline-rich protein (SbGPRP1) from Sorghum bicolor serves as an antimicrobial peptide by targeting the bacterial outer membrane protein.	0
57	The distribution of bioactive gibberellins along peach annual shoots is closely associated with PpGA20ox and PpGA2ox expression profiles. 2022 , 23,	1
56	The protein kinase FvRIPK1 regulates plant morphogenesis by ABA signaling using seed genetic transformation in strawberry. 13,	0
55	Subcellular localization and interactions among TGB proteins of cowpea mild mottle virus.	O

54	Integrated Omic Approaches Reveal Molecular Mechanisms of Tolerance during Soybean and Meloidogyne incognita Interactions. 2022 , 11, 2744	O
53	Establishment of highly efficient and reproducible Agrobacterium-mediated transformation system for tomato (Solanum lycopersicum L.).	O
52	Rieske FeS overexpression in tobacco provides increased abundance and activity of Cytochrome b 6 f.	O
51	The R2R3MYB transcription factors MaMYBF and MaMYB1 regulate flavonoid biosynthesis in grape hyacinth. 2023 , 194, 85-95	Ο
50	Saussurea involucrata PIP2;4 improves growth and drought tolerance in Nicotiana tabacum by increasing stomatal density and sensitivity. 2023 , 326, 111526	0
49	A naturally-occurring phenomenon of flower color change during flower development in Xanthoceras sorbifolium. 13,	0
48	Comprehensive analysis of glycerolipid dynamics during tobacco pollen germination and pollen tube growth. 13,	0
47	Glandular trichome specificity of menthol biosynthesis pathway gene promoters from Mentha [piperita. 2022 , 256,	1
46	Transcription Factor IAA27 Positively Regulates P Uptake through Promoted Adventitious Root Development in Apple Plants. 2022 , 23, 14029	0
45	HaASR2 from Haloxylon ammodendron confers drought and salt tolerance in plants. 2023 , 328, 111572	0
44	Increased energy sequestration in Nicotiana tabacum overexpressing UGPase and SPP genes in mesophyll	0
43	Agrobacterium-mediated transformation of <i>Nicotiana glauca</i> and <i>Nicotiana sylvestris</i>. 2022 , 26, 697-703	O
42	dsRNA-induced immunity targets plasmodesmata and is suppressed by viral movement proteins.	0
41	Comprehensive analysis of the carboxylesterase gene reveals that NtCXE22 regulates axillary bud growth through strigolactone metabolism in tobacco. 13,	Ο
40	Engineering Resistance against Sclerotinia sclerotiorum Using a Truncated NLR (TNx) and a Defense-Priming Gene. 2022 , 11, 3483	0
39	Single gene mutation in a plant MYB transcription factor causes a major shift in pollinator preference. 2022 , 32, 5295-5308.e5	0
38	Emission of floral volatiles is facilitated by cell-wall non-specific lipid transfer proteins.	О
37	Overexpression of CiMYC2 Transcription Factor from Chrysanthemum indicum var. aromaticum Resulted in Modified Trichome Formation and Terpenoid Biosynthesis in Transgenic Tobacco.	0

36	Ectopic expression of a grapevine alkaline legalactosidase seed imbibition protein VvSIP enhanced salinity tolerance in transgenic tobacco plants. 2023 , 23,	0
35	The mechanisms underpinning lateral gene transfer between grasses.	O
34	Anthocyanin accumulation in grape berry flesh is associated with an alternative splicing variant of VvMYBA1. 2022 ,	1
33	Facilitating viral vector movement enhances heterologous protein production in an established plant system.	O
32	In-planta transient transformation of avocado (Persea americana) by vacuum agroinfiltration of aerial plant parts.	O
31	Overexpression of Tomato ACL5 Gene in Tobacco Leads to Increased Plant Growth and Delayed the Onset of Leaf Senescence.	O
30	Guard cell activity of PIF4 and HY5 control transpiration. 2023, 328, 111583	O
29	Engineering the production of crocins and picrocrocin in heterologous plant systems. 2023 , 194, 116283	O
28	Identification of Chalcone Isomerase Family Genes and Roles of CnCHI4 in Flavonoid Metabolism in Camellia nitidissima. 2023 , 13, 41	2
27	ERF transcription factor PpRAP2.12 activates PpVIN2 expression in peach fruit and reduces tolerance to cold stress. 2023 , 199, 112276	O
26	Tunable control of insect pheromone biosynthesis in Nicotiana benthamiana.	O
25	Title: Role of EIN2-mediated ethylene signaling in regulating petal senescence, abscission, reproductive development, and hormonal crosstalk in tobacco. 2023 , 111699	O
24	Phytomelatonin interferes with flavonols biosynthesis to regulate ROS production and stomatal closure in tobacco. 2023 , 284, 153977	O
23	Genome-wide identification of CBL family genes in Nicotiana tabacum and the functional analysis of NtCBL4A-1 under salt stress. 2023 , 209, 105311	O
22	VviKFB07 F-box E3 ubiquitin ligase promotes stilbene accumulation by ubiquitinating and degrading VviCHSs protein in grape. 2023 , 331, 111687	0
21	Emission of floral volatiles is facilitated by cell-wall non-specific lipid transfer proteins. 2023 , 14,	O
20	Functional analysis of soybean miR156 and miR172 in tobacco highlights their role in plant morphology and floral transition. 2023 , 196, 393-401	O
19	Leaf transformation for efficient random integration and targeted genome modification in maize and sorghum. 2023 , 9, 255-270	1

18	Overexpression of SQUALENE SYNTHASE Reduces Nicotiana benthamiana Resistance against Phytophthora infestans. 2023 , 13, 261	О
17	Induction of aphid resistance in tobacco by the cucumber mosaic virus CMVIb mutant is jasmonate-dependent. 2023 , 24, 391-395	O
16	Genome editing by introduction of Cas9/sgRNA into plant cells using temperature-controlled atmospheric pressure plasma. 2023 , 18, e0281767	0
15	Plant-made pharmaceuticals: exploring studies for the production of recombinant protein in plants and assessing challenges ahead.	O
14	CRISPR/Cas genome editing in plants: Dawn of Agrobacterium transformation for recalcitrant and transgene-free plants for future crop breeding. 2023 , 196, 724-730	О
13	Genome-wide analysis of MYB family in Nicotiana benthamiana and the functional role of the key members in resistance to Bemisia tabaci. 2023 , 235, 123759	O
12	Complex petal spot formation in the Beetle Daisy (Gorteria diffusa) relies on spot-specific accumulation of malonylated anthocyanin regulated by paralogous GdMYBSG6 transcription factors.	0
11	Effect of a suitable treatment period on the genetic transformation efficiency of the plant leaf disc method. 2023 , 19,	Ο
10	Genetic modification of crop plants with ribosome-inactivating protein genes for enhanced resistance to pathogens and pests.	О
9	ZjFAS2 is involved in the fruit coloration in Ziziphus jujuba Mill. by regulating anthocyanin accumulation. 14,	O
8	Manipulation of CBTS1 Expression Alters Tobacco Resistance to Spodoptera frugiperda and Phytophthora nicotianae. 2023 , 13, 845	0
7	Efficient in planta production of amidated antimicrobial peptides that are active against drug-resistant ESKAPE pathogens. 2023 , 14,	O
6	Novel function of a putative TaCOBL ortholog associated with cold response.	0
5	Promoter Variation of the Key Apple Fruit Texture Related Gene MdPG1 and the Upstream Regulation Analysis. 2023 , 12, 1452	O
4	Enigma of recalcitrance to tissue culture in the oilseed crop Sesamum indicum L. review.	О
3	Polyphenol oxidases regulate pollen development through modulating flavonoids homeostasis in tobacco. 2023 , 107702	O
2	Genome-wide analysis of UDP-glycosyltransferases family and identification of UGT genes involved in abiotic stress and flavonol biosynthesis in Nicotiana tabacum. 2023 , 23,	0
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