

Toshiya Muranaka

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

137 papers	4,396 citations	36 h-index	62 g-index
145 ext. papers	5,229 ext. citations	4.4 avg, IF	5.24 L-index

#	Paper	IF	Citations
137	Licorice beta-amyrin 11-oxidase, a cytochrome P450 with a key role in the biosynthesis of the triterpene sweetener glycyrrhizin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 14204-9	11.5	280
136	Triterpene functional genomics in licorice for identification of CYP72A154 involved in the biosynthesis of glycyrrhizin. <i>Plant Cell</i> , 2011 , 23, 4112-23	11.6	211
135	CYP716A subfamily members are multifunctional oxidases in triterpenoid biosynthesis. <i>Plant and Cell Physiology</i> , 2011 , 52, 2050-61	4.9	190
134	Regulatory interaction of PRL1 WD protein with Arabidopsis SNF1-like protein kinases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 5322-7	11.5	165
133	Sterol side chain reductase 2 is a key enzyme in the biosynthesis of cholesterol, the common precursor of toxic steroidal glycoalkaloids in potato. <i>Plant Cell</i> , 2014 , 26, 3763-74	11.6	155
132	Dual biosynthetic pathways to phytosterol via cycloartenol and lanosterol in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 725-30	11.5	148
131	Loss of function of 3-hydroxy-3-methylglutaryl coenzyme A reductase 1 (HMG1) in Arabidopsis leads to dwarfing, early senescence and male sterility, and reduced sterol levels. <i>Plant Journal</i> , 2004 , 37, 750-61	6.9	148
130	P450s and UGTs: Key Players in the Structural Diversity of Triterpenoid Saponins. <i>Plant and Cell Physiology</i> , 2015 , 56, 1463-71	4.9	130
129	Combinatorial biosynthesis of legume natural and rare triterpenoids in engineered yeast. <i>Plant and Cell Physiology</i> , 2013 , 54, 740-9	4.9	97
128	Draft genome assembly and annotation of Glycyrrhiza uralensis, a medicinal legume. <i>Plant Journal</i> , 2017 , 89, 181-194	6.9	94
127	Plants utilize isoprene emission as a thermotolerance mechanism. <i>Plant and Cell Physiology</i> , 2007 , 48, 1254-62	4.9	94
126	Lanosterol synthase in dicotyledonous plants. <i>Plant and Cell Physiology</i> , 2006 , 47, 565-71	4.9	87
125	Generation of Isolanine-free hairy roots of potato by CRISPR/Cas9 mediated genome editing of the St16DOX gene. <i>Plant Physiology and Biochemistry</i> , 2018 , 131, 70-77	5.4	86
124	Upregulation of phytosterol and triterpene biosynthesis in Centella asiatica hairy roots overexpressed ginseng farnesyl diphosphate synthase. <i>Plant Cell Reports</i> , 2010 , 29, 403-11	5.1	86
123	Mevalonic acid partially restores chloroplast and etioplast development in Arabidopsis lacking the non-mevalonate pathway. <i>Planta</i> , 2002 , 216, 345-50	4.7	84
122	Allelic mutant series reveal distinct functions for Arabidopsis cycloartenol synthase 1 in cell viability and plastid biogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 3163-8	11.5	80
121	Dolichol biosynthesis and its effects on the unfolded protein response and abiotic stress resistance in Arabidopsis. <i>Plant Cell</i> , 2008 , 20, 1879-98	11.6	77

120	DNA polymorphisms in the tetrahydrocannabinolic acid (THCA) synthase gene in "drug-type" and "fiber-type" <i>Cannabis sativa</i> L. <i>Forensic Science International</i> , 2006 , 159, 132-40	2.6	74
119	The role of Arabidopsis ABCG9 and ABCG31 ATP binding cassette transporters in pollen fitness and the deposition of steryl glycosides on the pollen coat. <i>Plant Cell</i> , 2014 , 26, 310-24	11.6	73
118	Lovastatin insensitive 1, a Novel pentatricopeptide repeat protein, is a potential regulatory factor of isoprenoid biosynthesis in Arabidopsis. <i>Plant and Cell Physiology</i> , 2007 , 48, 322-31	4.9	71
117	Fungal and bacterial disease resistance in transgenic plants expressing human lysozyme. <i>Plant Cell Reports</i> , 1997 , 16, 674-679	5.1	63
116	Glycyrrhiza uralensis transcriptome landscape and study of phytochemicals. <i>Plant and Cell Physiology</i> , 2013 , 54, 697-710	4.9	62
115	The mitochondrial PPR protein LOVASTATIN INSENSITIVE 1 plays regulatory roles in cytosolic and plastidial isoprenoid biosynthesis through RNA editing. <i>Plant Journal</i> , 2010 , 61, 456-66	6.9	60
114	Identification and genome organization of saponin pathway genes from a wild crucifer, and their use for transient production of saponins in <i>Nicotiana benthamiana</i> . <i>Plant Journal</i> , 2015 , 84, 478-90	6.9	58
113	Complete blockage of the mevalonate pathway results in male gametophyte lethality. <i>Journal of Experimental Botany</i> , 2009 , 60, 2055-64	7	56
112	Molecular genetics of plant sterol backbone synthesis. <i>Lipids</i> , 2007 , 42, 47-54	1.6	55
111	A novel glucosyltransferase involved in steroid saponin biosynthesis in <i>Solanum aculeatissimum</i> . <i>Plant Molecular Biology</i> , 2005 , 57, 225-39	4.6	55
110	Chemical phenotypes of the hmg1 and hmg2 mutants of Arabidopsis demonstrate the in-plant role of HMG-CoA reductase in triterpene biosynthesis. <i>Chemical and Pharmaceutical Bulletin</i> , 2007 , 55, 1518-21	1.9	53
109	Two Cytochrome P450 Monooxygenases Catalyze Early Hydroxylation Steps in the Potato Steroid Glycoalkaloid Biosynthetic Pathway. <i>Plant Physiology</i> , 2016 , 171, 2458-67	6.6	49
108	Cloning and characterization of a squalene synthase gene from a petroleum plant, <i>Euphorbia tirucalli</i> L. <i>Planta</i> , 2009 , 229, 1243-52	4.7	47
107	Development of Capsicum EST-SSR markers for species identification and in silico mapping onto the tomato genome sequence. <i>Molecular Breeding</i> , 2013 , 31, 101-110	3.4	45
106	Structure and hemolytic activity relationships of triterpenoid saponins and sapogenins. <i>Journal of Natural Medicines</i> , 2017 , 71, 50-58	3.3	43
105	A Dioxygenase Catalyzes Steroid 16 β -Hydroxylation in Steroidal Glycoalkaloid Biosynthesis. <i>Plant Physiology</i> , 2017 , 175, 120-133	6.6	37
104	Organization and characterization of the virCD genes from <i>Agrobacterium rhizogenes</i> . <i>Molecular Genetics and Genomics</i> , 1988 , 213, 229-37		37
103	Establishment of a modified CRISPR/Cas9 system with increased mutagenesis frequency using the translational enhancer dMac3 and multiple guide RNAs in potato. <i>Scientific Reports</i> , 2018 , 8, 13753	4.9	37

102	The molecular cloning of dihydroartemisinic aldehyde reductase and its implication in artemisinin biosynthesis in <i>Artemisia annua</i> . <i>Planta Medica</i> , 2010 , 76, 1778-83	3.1	36
101	The AMI1 gene family: indole-3-acetamide hydrolase functions in auxin biosynthesis in plants. <i>Journal of Experimental Botany</i> , 2010 , 61, 25-32	7	35
100	Hairy root-activation tagging: a high-throughput system for activation tagging in transformed hairy roots. <i>Plant Molecular Biology</i> , 2005 , 59, 793-807	4.6	35
99	The NtAMI1 gene functions in cell division of tobacco BY-2 cells in the presence of indole-3-acetamide. <i>FEBS Letters</i> , 2009 , 583, 487-92	3.8	34
98	Amyloplast formation in cultured tobacco BY-2 cells requires a high cytokinin content. <i>Plant and Cell Physiology</i> , 2002 , 43, 1534-41	4.9	32
97	Novel triterpene oxidizing activity of <i>Arabidopsis thaliana</i> CYP716A subfamily enzymes. <i>FEBS Letters</i> , 2016 , 590, 533-40	3.8	32
96	Green leaf volatiles enhance methyl jasmonate response in <i>Arabidopsis</i> . <i>Journal of Bioscience and Bioengineering</i> , 2012 , 114, 540-5	3.3	31
95	Artemisinin-based antimalarial research: application of biotechnology to the production of artemisinin, its mode of action, and the mechanism of resistance of <i>Plasmodium</i> parasites. <i>Journal of Natural Medicines</i> , 2016 , 70, 318-34	3.3	30
94	Functional specialization of UDP-glycosyltransferase 73P12 in licorice to produce a sweet triterpenoid saponin, glycyrrhizin. <i>Plant Journal</i> , 2019 , 99, 1127-1143	6.9	29
93	Growth and steroidal saponin production in hairy root cultures of <i>Solanum aculeatissimum</i> . <i>Plant Cell Reports</i> , 1995 , 14, 413-7	5.1	29
92	A novel orfB-related gene of carrot mitochondrial genomes that is associated with homeotic cytoplasmic male sterility (CMS). <i>Plant Molecular Biology</i> , 2001 , 46, 99-107	4.6	28
91	CYP716A179 functions as a triterpene C-28 oxidase in tissue-cultured stolons of <i>Glycyrrhiza uralensis</i> . <i>Plant Cell Reports</i> , 2017 , 36, 437-445	5.1	27
90	The Basic Helix-Loop-Helix Transcription Factor GubHLH3 Positively Regulates Soyasaponin Biosynthetic Genes in <i>Glycyrrhiza uralensis</i> . <i>Plant and Cell Physiology</i> , 2018 , 59, 778-791	4.9	27
89	AKIN10, a representative <i>Arabidopsis</i> SNF1-related protein kinase 1 (SnRK1), phosphorylates and downregulates plant HMG-CoA reductase. <i>FEBS Letters</i> , 2017 , 591, 1159-1166	3.8	24
88	Identification of marneral synthase, which is critical for growth and development in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2012 , 72, 791-804	6.9	24
87	ΔAmyrin oxidation by oat CYP51H10 expressed heterologously in yeast cells: the first example of CYP51-dependent metabolism other than the 14-demethylation of sterol precursors. <i>Biological and Pharmaceutical Bulletin</i> , 2012 , 35, 801-4	2.3	23
86	Characterization and engineering of glycosyltransferases responsible for steroid saponin biosynthesis in Solanaceous plants. <i>Phytochemistry</i> , 2007 , 68, 478-86	4	23
85	Continuous production of scopolamine by a culture of <i>Duboisia leichhardtii</i> hairy root clone in a bioreactor system. <i>Applied Microbiology and Biotechnology</i> , 1993 , 40, 219	5.7	23

84	Efficient genome engineering using Platinum TALEN in potato. <i>Plant Biotechnology</i> , 2019 , 36, 167-173	1.3	22
83	Scopolamine release into media by <i>Duboisia leichhardtii</i> hairy root clones. <i>Applied Microbiology and Biotechnology</i> , 1992 , 37, 554	5.7	22
82	Cytochrome P450 Monooxygenase CYP716A141 is a Unique Δ Amyrin C-16 Δ Oxidase Involved in Triterpenoid Saponin Biosynthesis in <i>Platycodon grandiflorus</i> . <i>Plant and Cell Physiology</i> , 2017 , 58, 874-884	4.9	21
81	Differences in plant growth and leaf sesamin content of the lignan-rich sesame variety Δ Gomazou Δ ; under continuous light of different wavelengths. <i>Plant Biotechnology</i> , 2013 , 30, 1-8	1.3	21
80	In vitro proliferation and triterpenoid characteristics of licorice (<i>Glycyrrhiza uralensis</i> Fischer, Leguminosae) stolons. <i>Plant Biotechnology</i> , 2010 , 27, 59-66	1.3	21
79	Function of the aux and rol genes of the Ri plasmid in plant cell division in vitro. <i>Plant Signaling and Behavior</i> , 2009 , 4, 1145-7	2.5	21
78	Expressed sequence tags from rhizomes of <i>Glycyrrhiza uralensis</i> . <i>Plant Biotechnology</i> , 2009 , 26, 105-107	1.3	21
77	Comparative functional analysis of CYP71AV1 natural variants reveals an important residue for the successive oxidation of amorpha-4,11-diene. <i>FEBS Letters</i> , 2013 , 587, 278-84	3.8	19
76	Functional Characterization of CYP716 Family P450 Enzymes in Triterpenoid Biosynthesis in Tomato. <i>Frontiers in Plant Science</i> , 2017 , 8, 21	6.2	19
75	A cellulose synthase-derived enzyme catalyses 3-O-glucuronosylation in saponin biosynthesis. <i>Nature Communications</i> , 2020 , 11, 5664	17.4	18
74	Planteose as a storage carbohydrate required for early stage of germination of <i>Orobancha minor</i> and its metabolism as a possible target for selective control. <i>Journal of Experimental Botany</i> , 2015 , 66, 3085-97	7	17
73	Determination of aculeatisides based on immunoassay using a polyclonal antibody against aculeatiside A. <i>Analyst</i> , 2002 , 127, 1328-32	5	17
72	Identification of a Δ 3-Hydroxysteroid Dehydrogenase/ 3-Ketosteroid Reductase Involved in Δ Tomatine Biosynthesis in Tomato. <i>Plant and Cell Physiology</i> , 2019 , 60, 1304-1315	4.9	16
71	Isolation and Characterization of the Soybean Sg-3 Gene that is Involved in Genetic Variation in Sugar Chain Composition at the C-3 Position in Soyasaponins. <i>Plant and Cell Physiology</i> , 2018 , 59, 792-805	4.9	16
70	Functional characterization of CYP71D443, a cytochrome P450 catalyzing C-22 hydroxylation in the 20-hydroxyecdysone biosynthesis of <i>Ajuga hairy roots</i> . <i>Phytochemistry</i> , 2016 , 127, 23-8	4	15
69	Genetic variation of petaloid male-sterile cytoplasm of carrots revealed by sequence-tagged sites (STs). <i>Theoretical and Applied Genetics</i> , 1999 , 99, 837-843	6	14
68	<i>Ajuga</i> Δ 4-Sterol Reductase Catalyzes the Direct Reductive Conversion of 24-Methylenecholesterol to Campesterol. <i>Journal of Biological Chemistry</i> , 2016 , 291, 8189-98	5.4	13
67	Growth and Cell Wall Properties in Hypocotyls of <i>Arabidopsis tua6</i> Mutant under Microgravity Conditions in Space. <i>Uchu Seibutsu Kagaku</i> , 2009 , 23, 71-76	1	13

66	Functional Analysis of Amorpha-4,11-Diene Synthase (ADS) Homologs from Non-Artemisinin-Producing Artemisia Species: The Discovery of Novel Koidzumiol and (+)-Bisabolol Synthases. <i>Plant and Cell Physiology</i> , 2016 , 57, 1678-88	4.9	12
65	Lotus japonicus Triterpenoid Profile and Characterization of the CYP716A51 and LjCYP93E1 Genes Involved in Their Biosynthesis In Planta. <i>Plant and Cell Physiology</i> , 2019 , 60, 2496-2509	4.9	12
64	The aux1 gene of the Ri plasmid is sufficient to confer auxin autotrophy in tobacco BY-2 cells. <i>Journal of Plant Physiology</i> , 2009 , 166, 729-38	3.6	12
63	Albinism and cell viability in cycloartenol synthase deficient Arabidopsis. <i>Plant Signaling and Behavior</i> , 2008 , 3, 978-80	2.5	11
62	Exogenous plant H6H but not bacterial HCHL gene is expressed in Duboisia leichhardtii hairy roots and affects tropane alkaloid production. <i>Enzyme and Microbial Technology</i> , 2006 , 39, 1183-1189	3.8	11
61	Comparative analysis of CYP716A subfamily enzymes for the heterologous production of C-28 oxidized triterpenoids in transgenic yeast. <i>Plant Biotechnology</i> , 2018 , 35, 131-139	1.3	11
60	Phosphoproteome exploration reveals a reformatting of cellular processes in response to low sterol biosynthetic capacity in Arabidopsis. <i>Journal of Proteome Research</i> , 2012 , 11, 1228-39	5.6	10
59	The "all-in-one" rol-type binary vectors as a tool for functional genomic studies using hairy roots. <i>Plant Biotechnology</i> , 2008 , 25, 347-355	1.3	10
58	Identification of ̢-Tomatine 23-Hydroxylase Involved in the Detoxification of a Bitter Glycoalkaloid. <i>Plant and Cell Physiology</i> , 2020 , 61, 21-28	4.9	10
57	Isolation of membrane-bound di-prenyltransferase for phenylpropanoids and redesign of artepillin C in yeast. <i>Communications Biology</i> , 2019 , 2, 384	6.7	10
56	The biosynthetic pathway of potato solanidanes diverged from that of spirosolanes due to evolution of a dioxygenase. <i>Nature Communications</i> , 2021 , 12, 1300	17.4	10
55	Plant-derived isoprenoid sweeteners: recent progress in biosynthetic gene discovery and perspectives on microbial production. <i>Bioscience, Biotechnology and Biochemistry</i> , 2018 , 82, 927-934	2.1	10
54	Functional analysis of orthologous artemisinic aldehyde ̢(13)-reductase reveals potential artemisinin-producing activity in non-artemisinin-producing Artemisia absinthium. <i>Plant Biotechnology</i> , 2014 , 31, 483-491	1.3	9
53	Characteristics of Scopolamine-releasing Hairy Root Clones of Duboisia leichhardtii. <i>Bioscience, Biotechnology and Biochemistry</i> , 1993 , 57, 1398-1399	2.1	9
52	Targeted genome editing in tetraploid potato through transient TALEN expression by infection. <i>Plant Biotechnology</i> , 2020 , 37, 205-211	1.3	9
51	Characterization of steroid 5̢-reductase involved in ̢-tomatine biosynthesis in tomatoes. <i>Plant Biotechnology</i> , 2019 , 36, 253-263	1.3	9
50	Genetic and functional characterization of Sg-4 glycosyltransferase involved in the formation of sugar chain structure at the C-3 position of soybean saponins. <i>Phytochemistry</i> , 2018 , 156, 96-105	4	9
49	Identification and characterization of (+)-Bisabolol and 7-epi-silphiperfol-5-ene synthases from Artemisia abrotanum. <i>Phytochemistry</i> , 2019 , 164, 144-153	4	8

48	Successful expression of a novel bacterial gene for pinoresinol reductase and its effect on lignan biosynthesis in transgenic <i>Arabidopsis thaliana</i> . <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 8165-8177	5.7	8
47	Identification of furostanol glycoside 26-O- β -glucosidase involved in steroidal saponin biosynthesis from <i>Dioscorea esculenta</i> . <i>Plant Biotechnology</i> , 2015 , 32, 299-308	1.3	8
46	Triterpenoid levels are reduced during <i>Euphorbia tirucalli</i> L. callus formation. <i>Plant Biotechnology</i> , 2010 , 27, 105-109	1.3	8
45	A new insight into application for barley chromosome addition lines of common wheat: achievement of stigmasterol accumulation. <i>Plant Physiology</i> , 2011 , 157, 1555-67	6.6	8
44	Organ-specific and auxin-inducible expression of two tobacco par A-related genes in transgenic plants. <i>DNA Research</i> , 1994 , 1, 213-21	4.5	8
43	Structure-Activity Relationships of Pentacyclic Triterpenoids as Inhibitors of Cyclooxygenase and Lipoxygenase Enzymes. <i>Journal of Natural Products</i> , 2019 , 82, 3311-3320	4.9	8
42	Identification of oxidosqualene cyclases from the medicinal legume tree <i>Bauhinia forficata</i> : a step toward discovering preponderant β -myr-in-producing activity. <i>New Phytologist</i> , 2019 , 224, 352-366	9.8	7
41	Molecular Basis of C-30 Product Regioselectivity of Legume Oxidases Involved in High-Value Triterpenoid Biosynthesis. <i>Frontiers in Plant Science</i> , 2019 , 10, 1520	6.2	7
40	Glucosyltransferase activity of <i>Arabidopsis</i> UGT71C1 towards pinoresinol and lariciresinol. <i>Plant Biotechnology</i> , 2014 , 31, 561-566	1.3	7
39	Photobiocatalyzed asymmetric reduction of ketones using <i>Chlorella</i> sp. MK201. <i>Biotechnology Letters</i> , 2012 , 34, 2083-6	3	6
38	Production of Pharmaceuticals by Plant Tissue Cultures 2010 , 615-628		6
37	Enhanced secretory activity of <i>Atropa belladonna</i> hairy root culture over-expressing ADP-ribosylation factor gene. <i>Biological and Pharmaceutical Bulletin</i> , 2008 , 31, 1465-8	2.3	6
36	Isolation and identification of a novel chlorophenol from a cell suspension culture of <i>Helichrysum aureonitens</i> . <i>Chemical and Pharmaceutical Bulletin</i> , 2009 , 57, 1282-3	1.9	5
35	Novel root culture system using a recessive mutant with a rooty phenotype. <i>Plant Biotechnology</i> , 2008 , 25, 197-200	1.3	5
34	The mevalonate pathway but not the methylerythritol phosphate pathway is critical for elaioplast and pollen coat development in. <i>Plant Biotechnology</i> , 2018 , 35, 381-385	1.3	5
33	Atrazine exposed phytoplankton causes the production of non-viable offspring on <i>Daphnia magna</i> . <i>Marine Environmental Research</i> , 2019 , 145, 177-183	3.3	4
32	Dark conditions enhance aluminum tolerance in several rice cultivars via multiple modulations of membrane sterols. <i>Journal of Experimental Botany</i> , 2018 , 69, 567-577	7	4
31	A model for a bioconversion system with the promoter of the parAt gene, which confers a high level of expression of a transgene in hairy roots. <i>Applied Microbiology and Biotechnology</i> , 1994 , 40, 841-845	5.7	4

29	Production of the bioactive plant-derived triterpenoid morolic acid in engineered <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2020 , 117, 2198-2208	4.9	3
28	Platform for "Chemical Metabolic Switching" to Increase Sesquiterpene Content in Plants. <i>Plant Biotechnology</i> , 2017 , 34, 65-69	1.3	3
27	Tomato E8 Encodes a C-27 Hydroxylase in Metabolic Detoxification of β -Tomatine during Fruit Ripening. <i>Plant and Cell Physiology</i> , 2021 , 62, 775-783	4.9	3
26	Evidence that the 3-hydroxy-3-methylglutaryl-CoA reductase 1 is phosphorylated at Ser577. <i>Plant Biotechnology</i> , 2018 , 35, 1-7	1.3	3
25	Identification and characterization of a novel sesquiterpene synthase, 4-amorphen-11-ol synthase, from. <i>Plant Biotechnology</i> , 2018 , 35, 113-121	1.3	3
24	Application of Continuous Light in a Plant Factory System 3. Moderation of Injuries Induced by Continuous Light and Relative Tolerance to Continuous Light. <i>Shokubutsu Kankyo Kagaku</i> , 2011 , 23, 137-143	9.1	2
23	????????????????????? ??????????????????. <i>Kagaku To Seibutsu</i> , 2009 , 47, 84-86	0	2
22	Expression of Two Key Enzymes of Artemisinin Biosynthesis FPS and ADS genes in <i>Saccharomyces cerevisiae</i> . <i>Advanced Pharmaceutical Bulletin</i> , 2021 , 11, 181-187	4.5	2
21	Heterologous expression of triterpene biosynthetic genes in yeast and subsequent metabolite identification through GC-MS. <i>Methods in Molecular Biology</i> , 2014 , 1153, 235-43	1.4	2
20	Plant Cytochrome P450s in Triterpenoid Biosynthesis: Diversity and Application to Combinatorial Biosynthesis 2014 , 125-133		2
19	Plant gateway vectors for RNAi as a tool for functional genomic studies. <i>Methods in Molecular Biology</i> , 2011 , 744, 27-35	1.4	1
18	Current status and future of genome editing technologies for breeding of agricultural products. <i>Ikushugaku Kenkyu</i> , 2017 , 19, 14-20	0.1	1
17	The effect of nojirimycin on the transcriptome of germinating seeds. <i>Journal of Pesticide Sciences</i> , 2020 , 45, 230-237	2.7	1
16	Preface to the special issue "Technology in tissue culture toward horizon of plant biotechnology". <i>Plant Biotechnology</i> , 2020 , 37, 117-120	1.3	1
15	Application of Continuous Light in a Plant Factory System 1. Growth Habit and Occurrence of Injury in Solanaceae and Cucurbitaceae Crops Grown Under Continuous Light. <i>Shokubutsu Kankyo Kagaku</i> , 2011 , 23, 93-100	0.1	1
14	Application of Continuous Light in a Plant Factory System2. Growth Habit and Occurrence of Injury in Asteraceae and Other Crops Grown Under Continuous Light. <i>Shokubutsu Kankyo Kagaku</i> , 2011 , 23, 127-136	0.1	1
13	Allylic Hydroxylation Activity Is a Source of Saponin Chemodiversity in the Genus <i>Glycyrrhiza</i> . <i>Plant and Cell Physiology</i> , 2021 , 62, 262-271	4.9	1

12	Agrobacterium-mediated transformation of Euphorbia tirucalli callus. <i>Bioscience, Biotechnology and Biochemistry</i> , 2010 , 74, 851-3	2.1	o
11	Characterization of UDP-glucose dehydrogenase isoforms in the medicinal legume. <i>Plant Biotechnology</i> , 2021 , 38, 205-218	1.3	o
10	Insights into the diversification of subclade IVa bHLH transcription factors in Fabaceae. <i>BMC Plant Biology</i> , 2021 , 21, 109	5.3	o
9	Characterization of C-26 aminotransferase, indispensable for steroidal glycoalkaloid biosynthesis. <i>Plant Journal</i> , 2021 , 108, 81-92	6.9	o
8	Comparative Analysis of NADPH-Cytochrome P450 Reductases From Legumes for Heterologous Production of Triterpenoids in Transgenic .. <i>Frontiers in Plant Science</i> , 2021 , 12, 762546	6.2	o
7	Functional Analysis of HMG-CoA Reductase and Oxidosqualene Cyclases in Arabidopsis 2012 , 465-474		
6	Multi-Gene Transformation for Pathway Engineering of Secondary Metabolites 2013 , 227-244		
5	Medicinal Plants 2008 , 141-156		
4	Expression of Two Key Enzymes of Artemisinin Biosynthesis FPS and ADS genes in. <i>Advanced Pharmaceutical Bulletin</i> , 2021 , 11, 181-187	4.5	
3	Glycyrrhizin production in hairy root cultures of Glycyrrhiza uralensis induced triterpenoid biosynthetic gene. <i>Planta Medica</i> , 2016 , 81, S1-S381	3.1	
2	??????IPP?????????????????????. <i>Plant Morphology</i> , 2009 , 21, 47-53	o	
1	????,?????????????. <i>Kagaku To Seibutsu</i> , 2018 , 56, 566-572	o	