Kyoungwhan Back

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124 papers 5,256 citations

44 h-index 68 g-index

128 ext. papers

6,356 ext. citations

6.5 avg, IF

6.5 L-index

#	Paper	IF	Citations
124	Melatonin biosynthesis in plants: multiple pathways catalyze tryptophan to melatonin in the cytoplasm or chloroplasts. <i>Journal of Pineal Research</i> , 2016 , 61, 426-437	10.4	187
123	Melatonin-rich transgenic rice plants exhibit resistance to herbicide-induced oxidative stress. Journal of Pineal Research, 2013 , 54, 258-63	10.4	165
122	Melatonin as a signal molecule triggering defense responses against pathogen attack in Arabidopsis and tobacco. <i>Journal of Pineal Research</i> , 2014 , 57, 262-8	10.4	158
121	On the significance of an alternate pathway of melatonin synthesis via 5-methoxytryptamine: comparisons across species. <i>Journal of Pineal Research</i> , 2016 , 61, 27-40	10.4	150
120	Characterization of rice tryptophan decarboxylases and their direct involvement in serotonin biosynthesis in transgenic rice. <i>Planta</i> , 2007 , 227, 263-72	4.7	146
119	Enhanced production of melatonin by ectopic overexpression of human serotonin N-acetyltransferase plays a role in cold resistance in transgenic rice seedlings. <i>Journal of Pineal Research</i> , 2010 , 49, 176-82	10.4	139
118	Melatonin promotes seminal root elongation and root growth in transgenic rice after germination. <i>Journal of Pineal Research</i> , 2012 , 53, 385-9	10.4	129
117	Molecular cloning of rice serotonin N-acetyltransferase, the penultimate gene in plant melatonin biosynthesis. <i>Journal of Pineal Research</i> , 2013 , 55, 7-13	10.4	129
116	Senescence-induced serotonin biosynthesis and its role in delaying senescence in rice leaves. <i>Plant Physiology</i> , 2009 , 150, 1380-93	6.6	125
115	Arabidopsis serotonin N-acetyltransferase knockout mutant plants exhibit decreased melatonin and salicylic acid levels resulting in susceptibility to an avirulent pathogen. <i>Journal of Pineal Research</i> , 2015 , 58, 291-9	10.4	124
114	Melatonin synthesis in rice seedlings in vivo is enhanced at high temperatures and under dark conditions due to increased serotonin N-acetyltransferase and N-acetylserotonin methyltransferase activities. <i>Journal of Pineal Research</i> , 2014 , 56, 189-95	10.4	12 0
113	Molecular cloning of a plant N-acetylserotonin methyltransferase and its expression characteristics in rice. <i>Journal of Pineal Research</i> , 2011 , 50, 304-9	10.4	116
112	An increase in melatonin in transgenic rice causes pleiotropic phenotypes, including enhanced seedling growth, delayed flowering, and low grain yield. <i>Journal of Pineal Research</i> , 2014 , 56, 408-14	10.4	108
111	Cellular localization and kinetics of the rice melatonin biosynthetic enzymes SNAT and ASMT. <i>Journal of Pineal Research</i> , 2014 , 56, 107-14	10.4	105
110	Caffeic acid O-methyltransferase is involved in the synthesis of melatonin by methylating N-acetylserotonin in Arabidopsis. <i>Journal of Pineal Research</i> , 2014 , 57, 219-27	10.4	97
109	Coordinated regulation of melatonin synthesis and degradation genes in rice leaves in response to cadmium treatment. <i>Journal of Pineal Research</i> , 2015 , 58, 470-8	10.4	94
108	Overexpression of rice serotonin N-acetyltransferase 1 in transgenic rice plants confers resistance to cadmium and senescence and increases grain yield. <i>Journal of Pineal Research</i> , 2017 , 62, e12392	10.4	90

(2001-2012)

107	Tryptamine 5-hydroxylase-deficient Sekiguchi rice induces synthesis of 5-hydroxytryptophan and N-acetyltryptamine but decreases melatonin biosynthesis during senescence process of detached leaves. <i>Journal of Pineal Research</i> , 2012 , 52, 211-6	10.4	88
106	Cloning of Arabidopsis serotonin N-acetyltransferase and its role with caffeic acid O-methyltransferase in the biosynthesis of melatonin in vitro despite their different subcellular localizations. <i>Journal of Pineal Research</i> , 2014 , 57, 418-26	10.4	87
105	Melatonin is required for H O - and NO-mediated defense signaling through MAPKKK3 and OXI1 in Arabidopsis thaliana. <i>Journal of Pineal Research</i> , 2017 , 62, e12379	10.4	86
104	Light-regulated melatonin biosynthesis in rice during the senescence process in detached leaves. <i>Journal of Pineal Research</i> , 2012 , 53, 107-11	10.4	85
103	Mitogen-activated protein kinase pathways are required for melatonin-mediated defense responses in plants. <i>Journal of Pineal Research</i> , 2016 , 60, 327-35	10.4	85
102	Elevated production of melatonin in transgenic rice seeds expressing rice tryptophan decarboxylase. <i>Journal of Pineal Research</i> , 2014 , 56, 275-82	10.4	78
101	Functional analyses of three ASMT gene family members in rice plants. <i>Journal of Pineal Research</i> , 2013 , 55, 409-15	10.4	78
100	Melatonin biosynthesis requires N-acetylserotonin methyltransferase activity of caffeic acid O-methyltransferase in rice. <i>Journal of Experimental Botany</i> , 2015 , 66, 6917-25	7	76
99	HPLC analysis of serotonin, tryptamine, tyramine, and the hydroxycinnamic acid amides of serotonin and tyramine in food vegetables. <i>Journal of Medicinal Food</i> , 2008 , 11, 385-9	2.8	76
98	Porphyrin biosynthesis control under water stress: sustained porphyrin status correlates with drought tolerance in transgenic rice. <i>Plant Physiology</i> , 2011 , 157, 1746-64	6.6	75
97	Cloning and functional characterization of the Arabidopsis N-acetylserotonin O-methyltransferase responsible for melatonin synthesis. <i>Journal of Pineal Research</i> , 2016 , 60, 65-73	10.4	71
96	Pre-steady-state study of recombinant sesquiterpene cyclases. <i>Biochemistry</i> , 1997 , 36, 8340-8	3.2	67
95	Low melatonin production by suppression of either serotonin N-acetyltransferase or N-acetylserotonin methyltransferase in rice causes seedling growth retardation with yield penalty, abiotic stress susceptibility, and enhanced coleoptile growth under anoxic conditions. <i>Journal of</i>	10.4	66
94	Pineal Research, 2016, 60, 348-59 Molecular cloning and functional analysis of serotonin N-acetyltransferase from the cyanobacterium Synechocystis sp. PCC 6803. <i>Journal of Pineal Research</i> , 2013, 55, 371-6	10.4	65
93	Biosynthesis and biotechnological production of serotonin derivatives. <i>Applied Microbiology and Biotechnology</i> , 2009 , 83, 27-34	5.7	56
92	Production of coumaroylserotonin and feruloylserotonin in transgenic rice expressing pepper hydroxycinnamoyl-coenzyme A:serotonin N-(hydroxycinnamoyl)transferase. <i>Plant Physiology</i> , 2004 , 135, 346-56	6.6	56
91	Microarray analysis of genes differentially expressed in melatonin-rich transgenic rice expressing a sheep serotonin N-acetyltransferase. <i>Journal of Pineal Research</i> , 2013 , 55, 357-63	10.4	54
90	Cloning and characterization of a hydroxycinnamoyl-CoA:tyramine N-(hydroxycinnamoyl)transferase induced in response to UV-C and wounding from Capsicum annuum. <i>Plant and Cell Physiology</i> , 2001 , 42, 475-81	4.9	53

89	2-Hydroxymelatonin promotes the resistance of rice plant to multiple simultaneous abiotic stresses (combined cold and drought). <i>Journal of Pineal Research</i> , 2016 , 61, 303-16	10.4	53
88	Molecular cloning of melatonin 2-hydroxylase responsible for 2-hydroxymelatonin production in rice (Oryza sativa). <i>Journal of Pineal Research</i> , 2015 , 58, 343-51	10.4	52
87	Predominance of 2-hydroxymelatonin over melatonin in plants. <i>Journal of Pineal Research</i> , 2015 , 59, 448-54	10.4	50
86	Chloroplast overexpression of rice caffeic acid O-methyltransferase increases melatonin production in chloroplasts via the 5-methoxytryptamine pathway in transgenic rice plants. <i>Journal of Pineal Research</i> , 2017 , 63, e12412	10.4	49
85	Toxic tetrapyrrole accumulation in protoporphyrinogen IX oxidase-overexpressing transgenic rice plants. <i>Plant Molecular Biology</i> , 2008 , 67, 535-46	4.6	48
84	Kinetic analysis of purified recombinant rice N-acetylserotonin methyltransferase and peak melatonin production in etiolated rice shoots. <i>Journal of Pineal Research</i> , 2013 , 54, 139-44	10.4	46
83	Cadmium-induced melatonin synthesis in rice requires light, hydrogen peroxide, and nitric oxide: Key regulatory roles for tryptophan decarboxylase and caffeic acid O-methyltransferase. <i>Journal of Pineal Research</i> , 2017 , 63, e12441	10.4	45
82	Chloroplast-encoded serotonin N-acetyltransferase in the red alga Pyropia yezoensis: gene transition to the nucleus from chloroplasts. <i>Journal of Experimental Botany</i> , 2015 , 66, 709-17	7	44
81	Cloning and characterization of the serotonin N-acetyltransferase-2 gene (SNAT2) in rice (Oryza sativa). <i>Journal of Pineal Research</i> , 2016 , 61, 198-207	10.4	44
80	Melatonin is involved in skotomorphogenesis by regulating brassinosteroid biosynthesis in rice plants. <i>Journal of Pineal Research</i> , 2018 , 65, e12495	10.4	43
79	Transcriptional suppression of tryptamine 5-hydroxylase, a terminal serotonin biosynthetic gene, induces melatonin biosynthesis in rice (Oryza sativa L.). <i>Journal of Pineal Research</i> , 2013 , 55, 131-7	10.4	43
78	Transient induction of melatonin biosynthesis in rice (Oryza sativa L.) during the reproductive stage. <i>Journal of Pineal Research</i> , 2013 , 55, 40-5	10.4	38
77	Production of serotonin by dual expression of tryptophan decarboxylase and tryptamine 5-hydroxylase in Escherichia coli. <i>Applied Microbiology and Biotechnology</i> , 2011 , 89, 1387-94	5.7	37
76	Induction of serotonin biosynthesis is uncoupled from the coordinated induction of tryptophan biosynthesis in pepper fruits (Capsicum annuum) upon pathogen infection. <i>Planta</i> , 2009 , 230, 1197-206	4.7	37
75	Overexpression of a defensin enhances resistance to a fruit-specific anthracnose fungus in pepper. <i>PLoS ONE</i> , 2014 , 9, e97936	3.7	36
74	Enzymatic features of serotonin biosynthetic enzymes and serotonin biosynthesis in plants. <i>Plant Signaling and Behavior</i> , 2008 , 3, 389-90	2.5	36
73	Melatonin metabolism, signaling and possible roles in plants. <i>Plant Journal</i> , 2021 , 105, 376-391	6.9	36
72	Conversion of 5-hydroxytryptophan into serotonin by tryptophan decarboxylase in plants, Escherichia coli, and yeast. <i>Bioscience, Biotechnology and Biochemistry</i> , 2008 , 72, 2456-8	2.1	35

71	Increased expression of Fe-chelatase leads to increased metabolic flux into heme and confers protection against photodynamically induced oxidative stress. <i>Plant Molecular Biology</i> , 2014 , 86, 271-87	4.6	33
70	Functional analysis of the amine substrate specificity domain of pepper tyramine and serotonin N-hydroxycinnamoyltransferases. <i>Plant Physiology</i> , 2006 , 140, 704-15	6.6	33
69	Rice histone deacetylase 10 and Arabidopsis histone deacetylase 14 genes encode N-acetylserotonin deacetylase, which catalyzes conversion of N-acetylserotonin into serotonin, a reverse reaction for melatonin biosynthesis in plants. <i>Journal of Pineal Research</i> , 2018 , 64, e12460	10.4	32
68	Cloning and characterization of a serotonin N-acetyltransferase from a gymnosperm, loblolly pine (Pinus taeda). <i>Journal of Pineal Research</i> , 2014 , 57, 348-55	10.4	32
67	Melatonin induction and its role in high light stress tolerance in Arabidopsis thaliana. <i>Journal of Pineal Research</i> , 2018 , 65, e12504	10.4	32
66	Molecular cloning of melatonin 3-hydroxylase and its production of cyclic 3-hydroxymelatonin in rice (Oryza sativa). <i>Journal of Pineal Research</i> , 2016 , 61, 470-478	10.4	31
65	Methanol is an endogenous elicitor molecule for the synthesis of tryptophan and tryptophan-derived secondary metabolites upon senescence of detached rice leaves. <i>Plant Journal</i> , 2011 , 66, 247-57	6.9	31
64	Novel major quantitative trait loci regulating the content of isoflavone in soybean seeds. <i>Genes and Genomics</i> , 2011 , 33, 685-692	2.1	31
63	Knockout of Serotonin -Acetyltransferase-2 Reduces Melatonin Levels and Delays Flowering. <i>Biomolecules</i> , 2019 , 9,	5.9	27
62	Enriched production of N-hydroxycinnamic acid amides and biogenic amines in pepper (Capsicum annuum) flowers. <i>Scientia Horticulturae</i> , 2006 , 108, 337-341	4.1	27
61	Chloroplastic and cytoplasmic overexpression of sheep serotonin N-acetyltransferase in transgenic rice plants is associated with low melatonin production despite high enzyme activity. <i>Journal of Pineal Research</i> , 2015 , 58, 461-9	10.4	26
60	Melatonin-deficient rice plants show a common semidwarf phenotype either dependent or independent of brassinosteroid biosynthesis. <i>Journal of Pineal Research</i> , 2019 , 66, e12537	10.4	26
59	Herbicidal and antioxidant responses of transgenic rice overexpressing Myxococcus xanthus protoporphyrinogen oxidase. <i>Plant Physiology and Biochemistry</i> , 2005 , 43, 423-30	5.4	25
58	Melatonin production in Escherichia coli by dual expression of serotonin N-acetyltransferase and caffeic acid O-methyltransferase. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 6683-6691	5.7	23
57	Resistance pattern and antioxidant enzyme profiles of protoporphyrinogen oxidase (PROTOX) inhibitor-resistant transgenic rice. <i>Pesticide Biochemistry and Physiology</i> , 2008 , 91, 53-65	4.9	23
56	Cadmium Disrupts Subcellular Organelles, Including Chloroplasts, Resulting in Melatonin Induction in Plants. <i>Molecules</i> , 2017 , 22,	4.8	22
55	Melatonin plays a pivotal role in conferring tolerance against endoplasmic reticulum stress via mitogen-activated protein kinases and bZIP60 in Arabidopsis thaliana. <i>Melatonin Research</i> , 2018 , 1, 94-10	98 ¹	22
54	2-Hydroxymelatonin confers tolerance against combined cold and drought stress in tobacco, tomato, and cucumber as a potent anti-stress compound in the evolution of land plants. <i>Melatonin Research</i> , 2019 , 2, 35-46	5.1	21

53	Flavonoids inhibit both rice and sheep serotonin N-acetyltransferases and reduce melatonin levels in plants. <i>Journal of Pineal Research</i> , 2018 , 65, e12512	10.4	21
52	Gene flow from herbicide-tolerant GM rice and the heterosis of GM rice-weed F2 progeny. <i>Planta</i> , 2011 , 233, 807-15	4.7	20
51	Cytoprotective activities of hydroxycinnamic acid amides of serotonin against oxidative stress-induced damage in HepG2 and HaCaT cells. <i>Floterap</i> [1 2010 , 81, 1134-41	3.2	20
50	The phytomelatonin receptor (PMRT1) Arabidopsis Cand2 is not a bona fide G proteinBoupled melatonin receptor. <i>Melatonin Research</i> , 2020 , 3, 177-186	5.1	20
49	Partial characterization of farnesyl and geranylgeranyl diphosphatases induced in rice seedlings by UV-C irradiation. <i>Plant and Cell Physiology</i> , 2001 , 42, 864-7	4.9	19
48	Expression of serotonin derivative synthetic genes on a single self-processing polypeptide and the production of serotonin derivatives in microbes. <i>Applied Microbiology and Biotechnology</i> , 2008 , 81, 43-9	5.7	18
47	Suppression of Melatonin 2-Hydroxylase Increases Melatonin Production Leading to the Enhanced Abiotic Stress Tolerance against Cadmium, Senescence, Salt, and Tunicamycin in Rice Plants. <i>Biomolecules</i> , 2019 , 9,	5.9	17
46	Melatonin Deficiency Confers Tolerance to Multiple Abiotic Stresses in Rice via Decreased Brassinosteroid Levels. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	17
45	Enhanced neutraceutical serotonin derivatives of rice seed by hydroxycinnamoyl-CoA:serotonin N-(hydroxycinnamoyl)transferase. <i>Plant Science</i> , 2005 , 168, 783-788	5.3	17
44	A rice chloroplast transit peptide sequence does not alter the cytoplasmic localization of sheep serotonin N-acetyltransferase expressed in transgenic rice plants. <i>Journal of Pineal Research</i> , 2014 , 57, 147-54	10.4	16
43	2-Hydroxymelatonin, a Predominant Hydroxylated Melatonin Metabolite in Plants, Shows Antitumor Activity against Human Colorectal Cancer Cells. <i>Molecules</i> , 2017 , 22,	4.8	15
42	Pathogen resistance of transgenic rice plants expressing mitogen-activated protein kinase 1, MK1, from Capsicum annuum. <i>Molecules and Cells</i> , 2004 , 17, 81-5	3.5	15
41	Use of Myxococcus xanthus protoporphyrinogen oxidase as a selectable marker for transformation of rice. <i>Pesticide Biochemistry and Physiology</i> , 2007 , 88, 31-35	4.9	14
40	Simultaneous Suppression of Two Distinct Serotonin -Acetyltransferase Isogenes by RNA Interference Leads to Severe Decreases in Melatonin and Accelerated Seed Deterioration in Rice. <i>Biomolecules</i> , 2020 , 10,	5.9	13
39	Production of phenylpropanoid amides in recombinant Escherichia coli. <i>Metabolic Engineering</i> , 2009 , 11, 64-8	9.7	13
38	Responses of MxPPO overexpressing transgenic tall fescue plants to two diphenyl-ether herbicides, oxyfluorfen and acifluorfen. <i>Acta Physiologiae Plantarum</i> , 2008 , 30, 745-754	2.6	13
37	Enhanced synthesis of feruloyltyramine and 4-coumaroyltyramine is associated with tyramine availability in transgenic rice expressing pepper tyramine N-hydroxycinnamoyltransferase. <i>Plant Science</i> , 2007 , 172, 57-63	5.3	13
36	Two-year field study shows little evidence that PPO-transgenic rice affects the structure of soil microbial communities. <i>Biology and Fertility of Soils</i> , 2012 , 48, 453-461	6.1	12

35	Tyramine accumulation in rice cells caused a dwarf phenotype via reduced cell division. <i>Planta</i> , 2011 , 233, 251-60	4.7	12
34	Induced synthesis of caffeoylserotonin in pepper fruits upon infection by the anthracnose fungus, Colletotrichum gloeosporioides. <i>Scientia Horticulturae</i> , 2010 , 124, 290-293	4.1	12
33	Enhanced octopamine synthesis through the ectopic expression of tyrosine decarboxylase in rice plants. <i>Plant Science</i> , 2009 , 176, 46-50	5.3	12
32	Production of ketocarotenoids in transgenic carrot plants with an enhanced level of Etarotene. <i>Plant Biotechnology Reports</i> , 2012 , 6, 133-140	2.5	11
31	Ectopic expression of serotonin N-hydroxycinnamoyltransferase and differential production of phenylpropanoid amides in transgenic tomato tissues. <i>Scientia Horticulturae</i> , 2009 , 120, 504-510	4.1	11
30	Endosperm-specific expression of tyramine N-hydroxycinnamoyltransferase and tyrosine decarboxylase from a single self-processing polypeptide produces high levels of tyramine derivatives in rice seeds. <i>Biotechnology Letters</i> , 2009 , 31, 911-5	3	10
29	Modifying Myxococcus xanthus protoporphyrinogen oxidase to plant codon usage and high level of oxyfluorfen resistance in transgenic rice. <i>Pesticide Biochemistry and Physiology</i> , 2006 , 86, 186-194	4.9	10
28	Cloning of a sesquiterpene cyclase and its functional expression by domain swapping strategy. <i>Molecules and Cells</i> , 2000 , 10, 220-5	3.5	10
27	Rice P450 reductases differentially affect P450-mediated metabolism in bacterial expression systems. <i>Bioprocess and Biosystems Engineering</i> , 2013 , 36, 325-31	3.7	9
26	Developmentally regulated sesquiterpene production confers resistance to Colletotrichum gloeosporioides in ripe pepper fruits. <i>PLoS ONE</i> , 2014 , 9, e109453	3.7	9
25	Either soluble or plastidic expression of recombinant protoporphyrinogen oxidase modulates tetrapyrrole biosynthesis and photosynthetic efficiency in transgenic rice. <i>Bioscience, Biotechnology and Biochemistry</i> , 2003 , 67, 1472-8	2.1	8
24	Cyclic 3-hydroxymelatonin exhibits diurnal rhythm and cyclic 3-hydroxymelatonin overproduction increases secondary tillers in rice by upregulating MOC1 expression. <i>Melatonin Research</i> , 2019 , 2, 120-1	3§1	8
23	Effects of Light Quality and Phytochrome Form on Melatonin Biosynthesis in Rice. <i>Biomolecules</i> , 2020 , 10,	5.9	7
22	Overexpression of Rice Ferrochelatase I and II Leads to Increased Susceptibility to Oxyfluorfen Herbicide in Transgenic Rice 2010 , 53, 291-296		7
21	Endosperm-specific expression of serotonin N-hydroxycinnamoyltransferase in rice. <i>Plant Foods for Human Nutrition</i> , 2008 , 63, 53-7	3.9	7
20	Melatonin Regulates Chloroplast Protein Quality Control via a Mitogen-Activated Protein Kinase Signaling Pathway. <i>Antioxidants</i> , 2021 , 10,	7.1	7
19	Protoporphyrinogen OxidaseDverexpressing Transgenic Rice is Resistant to Drought Stress. <i>Crop Science</i> , 2013 , 53, 1076-1085	2.4	6
18	Phytomelatonin as a signaling molecule for protein quality control via chaperone, autophagy, and ubiquitin-proteasome systems in plants <i>Journal of Experimental Botany</i> , 2022 ,	7	5

17	Induced tyramine overproduction in transgenic rice plants expressing a rice tyrosine decarboxylase under the control of methanol-inducible rice tryptophan decarboxylase promoter. <i>Bioprocess and Biosystems Engineering</i> , 2012 , 35, 205-10	3.7	4
16	Production of plant-specific tyramine derivatives by dual expression of tyramine N-hydroxycinnamoyltransferase and 4-coumarate:coenzyme A ligase in Escherichia coli. <i>Biotechnology Letters</i> , 2009 , 31, 1469-75	3	4
15	Expression of recombinant protoporphyrinogen oxidase influences growth and morphological characteristics in transgenic rice. <i>Plant Growth Regulation</i> , 2004 , 42, 283-288	3.2	4
14	The characterization of transgenic rice plants expressing a pepper 5- aristolochene synthase, the first committed step enzyme for capsidiol synthesis in isoprenoid pathway. <i>Plant Science</i> , 2004 , 166, 881	1 ⁵ 8³87	4
13	Strategies to generate melatonin-enriched transgenic rice to respond to the adverse effects on rice production potentially caused by global warming. <i>Melatonin Research</i> , 2021 , 4, 501-506	5.1	4
12	Rice N-acetylserotonin deacetylase regulates melatonin levels in transgenic rice. <i>Melatonin Research</i> , 2020 , 3, 32-42	5.1	4
11	Tryptophan boost caused by senescence occurred independently of cytoplasmic glutamine synthetase. <i>Bioscience, Biotechnology and Biochemistry</i> , 2010 , 74, 2352-4	2.1	3
10	Methanol elicits the biosynthesis of 4-coumaroylserotonin and feruloylserotonin in rice seedlings. <i>Plant Signaling and Behavior</i> , 2011 , 6, 881-3	2.5	3
9	2-Hydroxymelatonin, Rather Than Melatonin, Is Responsible for RBOH-Dependent Reactive Oxygen Species Production Leading to Premature Senescence in Plants. <i>Antioxidants</i> , 2021 , 10,	7.1	3
8	Suppression of Rice Cryptochrome 1b Decreases Both Melatonin and Expression of Brassinosteroid Biosynthetic Genes Resulting in Salt Tolerance. <i>Molecules</i> , 2021 , 26,	4.8	3
7	Functional Characterization of Serotonin -Acetyltransferase in Archaeon Antioxidants, 2022, 11,	7.1	3
6	Ectopic expression of MAP kinase inhibits germination and seedling growth in transgenic rice. <i>Plant Growth Regulation</i> , 2005 , 45, 251-257	3.2	2
5	Fitness cost and competitive ability of transgenic herbicide-tolerant rice expressing a protoporphyrinogen oxidase gene. <i>Journal of Ecology and Environment</i> , 2013 , 36, 39-47	2	2
4	Exogenous Gibberellin Treatment Enhances Melatonin Synthesis for Melatonin-Enriched Rice Production <i>Biomolecules</i> , 2022 , 12,	5.9	1
3	Arthropod Diversity and Community Structure in Fields of Non-geneticall Modified (GM) and Herbicide-tolerant GM Rice. <i>Korean Journal of Applied Entomology</i> , 2015 , 335-343		1
2	Molecular Regulation of Antioxidant Melatonin Biosynthesis by Brassinosteroid Acting as an Endogenous Elicitor of Melatonin Induction in Rice Seedlings. <i>Antioxidants</i> , 2022 , 11, 918	7.1	1

Phenotype Comparison between Herbicide Tolerant Transgenic Rice and Weedy Rice. *Weed & Turfgrass Science*, **2013**, 2, 15-22