

Masaharu Mizutani

List of Publications by Citations

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118
papers

6,925
citations

42
h-index

82
g-index

123
ext. papers

8,474
ext. citations

5.7
avg, IF

5.66
L-index

#	Paper	IF	Citations
118	Insights into Land Plant Evolution Garnered from the <i>Marchantia polymorpha</i> Genome. <i>Cell</i> , 2017 , 171, 287-304.e15	56.2	538
117	Erect leaves caused by brassinosteroid deficiency increase biomass production and grain yield in rice. <i>Nature Biotechnology</i> , 2006 , 24, 105-9	44.5	460
116	<i>Arabidopsis</i> CYP707As encode (+)-abscisic acid 8 α -hydroxylase, a key enzyme in the oxidative catabolism of abscisic acid. <i>Plant Physiology</i> , 2004 , 134, 1439-49	6.6	414
115	Highly sensitive and high-throughput analysis of plant hormones using MS-probe modification and liquid chromatography-tandem mass spectrometry: an application for hormone profiling in <i>Oryza sativa</i> . <i>Plant and Cell Physiology</i> , 2009 , 50, 1201-14	4.9	336
114	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
113	Diversification of P450 genes during land plant evolution. <i>Annual Review of Plant Biology</i> , 2010 , 61, 291-315	30.7	255
112	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
111	CYP716A subfamily members are multifunctional oxidases in triterpenoid biosynthesis. <i>Plant and Cell Physiology</i> , 2011 , 52, 2050-61	4.9	190
110	Evolution and diversity of the 2-oxoglutarate-dependent dioxygenase superfamily in plants. <i>Plant Journal</i> , 2014 , 78, 328-43	6.9	180
109	C-23 hydroxylation by <i>Arabidopsis</i> CYP90C1 and CYP90D1 reveals a novel shortcut in brassinosteroid biosynthesis. <i>Plant Cell</i> , 2006 , 18, 3275-88	11.6	150
108	Scopoletin is biosynthesized via ortho-hydroxylation of feruloyl CoA by a 2-oxoglutarate-dependent dioxygenase in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2008 , 55, 989-99	6.9	143
107	Sekiguchi lesion gene encodes a cytochrome P450 monooxygenase that catalyzes conversion of tryptamine to serotonin in rice. <i>Journal of Biological Chemistry</i> , 2010 , 285, 11308-13	5.4	139
106	Selective interaction of triazole derivatives with DWF4, a cytochrome P450 monooxygenase of the brassinosteroid biosynthetic pathway, correlates with brassinosteroid deficiency in planta. <i>Journal of Biological Chemistry</i> , 2001 , 276, 25687-91	5.4	132
105	Unusual P450 reactions in plant secondary metabolism. <i>Archives of Biochemistry and Biophysics</i> , 2011 , 507, 194-203	4.1	128
104	<i>Arabidopsis</i> CYP90B1 catalyses the early C-22 hydroxylation of C27, C28 and C29 sterols. <i>Plant Journal</i> , 2006 , 45, 765-74	6.9	126
103	NADPH-dependent reductases involved in the detoxification of reactive carbonyls in plants. <i>Journal of Biological Chemistry</i> , 2011 , 286, 6999-7009	5.4	125
102	Two isoforms of NADPH:cytochrome P450 reductase in <i>Arabidopsis thaliana</i> . Gene structure, heterologous expression in insect cells, and differential regulation. <i>Plant Physiology</i> , 1998 , 116, 357-67	6.6	124

101	Cytochrome P450 CYP710A encodes the sterol C-22 desaturase in Arabidopsis and tomato. <i>Plant Cell</i> , 2006 , 18, 1008-22	11.6	115
100	Cloning of beta-primeverosidase from tea leaves, a key enzyme in tea aroma formation. <i>Plant Physiology</i> , 2002 , 130, 2164-76	6.6	113
99	Accumulation of coumarins in Arabidopsis thaliana. <i>Phytochemistry</i> , 2006 , 67, 379-86	4	110
98	CYP90A1/CPD, a brassinosteroid biosynthetic cytochrome P450 of Arabidopsis, catalyzes C-3 oxidation. <i>Journal of Biological Chemistry</i> , 2012 , 287, 31551-60	5.4	96
97	Characterization of Arabidopsis thaliana pinorensinol reductase, a new type of enzyme involved in lignan biosynthesis. <i>Journal of Biological Chemistry</i> , 2008 , 283, 15550-7	5.4	92
96	Heliolactone, a non-sesquiterpene lactone germination stimulant for root parasitic weeds from sunflower. <i>Phytochemistry</i> , 2014 , 108, 122-8	4	89
95	A plant growth retardant, uniconazole, is a potent inhibitor of ABA catabolism in Arabidopsis. <i>Bioscience, Biotechnology and Biochemistry</i> , 2006 , 70, 1731-9	2.1	88
94	Volatile Glycosylation in Tea Plants: Sequential Glycosylations for the Biosynthesis of Aroma Primeverosides Are Catalyzed by Two Camellia sinensis Glycosyltransferases. <i>Plant Physiology</i> , 2015 , 168, 464-77	6.6	86
93	Generation of Bolanine-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
92	Impacts of diversification of cytochrome P450 on plant metabolism. <i>Biological and Pharmaceutical Bulletin</i> , 2012 , 35, 824-32	2.3	81
91	Chemical profiling and gene expression profiling during the manufacturing process of Taiwan oolong tea "Oriental Beauty". <i>Bioscience, Biotechnology and Biochemistry</i> , 2007 , 71, 1476-86	2.1	77
90	Chemical regulation of abscisic acid catabolism in plants by cytochrome P450 inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2005 , 13, 4491-8	3.4	75
89	Ent-2 α -epi-Orobanchol and its acetate, as germination stimulants for <i>Striga gesnerioides</i> seeds isolated from cowpea and red clover. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 10485-90	5.7	73
88	Reactive short-chain leaf volatiles act as powerful inducers of abiotic stress-related gene expression. <i>Scientific Reports</i> , 2015 , 5, 8030	4.9	71
87	Substrate specificity of beta-primeverosidase, a key enzyme in aroma formation during oolong tea and black tea manufacturing. <i>Bioscience, Biotechnology and Biochemistry</i> , 2001 , 65, 2719-29	2.1	65
86	Insights into the function and evolution of P450s in plant steroid metabolism. <i>Phytochemistry</i> , 2009 , 70, 1918-29	4	64
85	A 2-oxoglutarate-dependent dioxygenase from <i>Ruta graveolens</i> L. exhibits p-coumaroyl CoA 2 α -hydroxylase activity (C2 α H): a missing step in the synthesis of umbelliferone in plants. <i>Plant Journal</i> , 2012 , 70, 460-70	6.9	62
84	Tomato cytochrome P450 CYP734A7 functions in brassinosteroid catabolism. <i>Phytochemistry</i> , 2006 , 67, 1895-906	4	58

83	CYP724B2 and CYP90B3 function in the early C-22 hydroxylation steps of brassinosteroid biosynthetic pathway in tomato. <i>Bioscience, Biotechnology and Biochemistry</i> , 2006 , 70, 2071-80	2.1	55
82	Microsomal electron transfer in higher plants: cloning and heterologous expression of NADH-cytochrome b5 reductase from <i>Arabidopsis</i> . <i>Plant Physiology</i> , 1999 , 119, 353-62	6.6	55
81	Direct conversion of carlactonic acid to orobanchol by cytochrome P450 CYP722C in strigolactone biosynthesis. <i>Science Advances</i> , 2019 , 5, eaax9067	14.3	52
80	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
79	Structural requirements of strigolactones for germination induction and inhibition of <i>Striga gesnerioides</i> seeds. <i>Plant Cell Reports</i> , 2013 , 32, 829-38	5.1	46
78	Rice CYP734As function as multisubstrate and multifunctional enzymes in brassinosteroid catabolism. <i>Plant Journal</i> , 2011 , 67, 1-12	6.9	44
77	JRE4 is a master transcriptional regulator of defense-related steroidal glycoalkaloids in tomato. <i>Plant Journal</i> , 2018 , 94, 975-990	6.9	42
76	Damage to photosystem II due to heat stress without light-driven electron flow: involvement of enhanced introduction of reducing power into thylakoid membranes. <i>Planta</i> , 2012 , 236, 753-61	4.7	42
75	Chloroplastic NADPH-dependent alkenal/one oxidoreductase contributes to the detoxification of reactive carbonyls produced under oxidative stress. <i>FEBS Letters</i> , 2012 , 586, 1208-13	3.8	42
74	Dehydration tolerance in apple seedlings is affected by an inhibitor of ABA 8 α -hydroxylase CYP707A. <i>Journal of Plant Physiology</i> , 2012 , 169, 234-41	3.6	39
73	A Dioxygenase Catalyzes Steroid 16 β -Hydroxylation in Steroidal Glycoalkaloid Biosynthesis. <i>Plant Physiology</i> , 2017 , 175, 120-133	6.6	37
72	Triadimefon, a fungicidal triazole-type P450 inhibitor, induces brassinosteroid deficiency-like phenotypes in plants and binds to DWF4 protein in the brassinosteroid biosynthesis pathway. <i>Biochemical Journal</i> , 2003 , 369, 71-6	3.8	36
71	At5g54160 gene encodes <i>Arabidopsis thaliana</i> 5-hydroxyconiferaldehyde O-methyltransferase. <i>Journal of Wood Science</i> , 2008 , 54, 312-317	2.4	35
70	Identification of (Z)-3:(E)-2-Hexenal Isomerases Essential to the Production of the Leaf Aldehyde in Plants. <i>Journal of Biological Chemistry</i> , 2016 , 291, 14023-14033	5.4	35
69	Structural requirements of strigolactones for germination induction of <i>Striga gesnerioides</i> seeds. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 9226-31	5.7	32
68	Evidence for species-dependent biosynthetic pathways for converting carlactone to strigolactones in plants. <i>Journal of Experimental Botany</i> , 2018 , 69, 2305-2318	7	31
67	Differences between the structural requirements for ABA 8 α -hydroxylase inhibition and for ABA activity. <i>Bioorganic and Medicinal Chemistry</i> , 2005 , 13, 3359-70	3.4	30
66	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

65	CYP722C from <i>Gossypium arboreum</i> catalyzes the conversion of carlactonoic acid to 5-deoxystrigol. <i>Planta</i> , 2020 , 251, 97	4.7	29
64	Molecular cloning and functional analysis of the ortho-hydroxylases of p-coumaroyl coenzyme A/feruloyl coenzyme A involved in formation of umbelliferone and scopoletin in sweet potato, <i>Ipomoea batatas</i> (L.) Lam. <i>Phytochemistry</i> , 2012 , 74, 49-57	4	28
63	Rice CYP90D2 and CYP90D3 catalyze C-23 hydroxylation of brassinosteroids in vitro. <i>Plant Physiology and Biochemistry</i> , 2012 , 58, 220-6	5.4	27
62	Vicianin hydrolase is a novel cyanogenic beta-glycosidase specific to beta-vicianoside (6-O-alpha-L-arabinopyranosyl-beta-D-glucopyranoside) in seeds of <i>Vicia angustifolia</i> . <i>Plant and Cell Physiology</i> , 2007 , 48, 938-47	4.9	26
61	Brz220 interacts with DWF4, a cytochrome P450 monooxygenase in brassinosteroid biosynthesis, and exerts biological activity. <i>Bioscience, Biotechnology and Biochemistry</i> , 2008 , 72, 7-12	2.1	25
60	Identification and molecular characterization of mitochondrial ferredoxins and ferredoxin reductase from <i>Arabidopsis</i> . <i>Plant Molecular Biology</i> , 2003 , 52, 817-30	4.6	25
59	Jasmonate-induced biosynthesis of steroidal glycoalkaloids depends on CO11 proteins in tomato. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 489, 206-210	3.4	24
58	Phosphonate-based irreversible inhibitors of human γ -glutamyl transpeptidase (GGT). GGsTop is a non-toxic and highly selective inhibitor with critical electrostatic interaction with an active-site residue Lys562 for enhanced inhibitory activity. <i>Bioorganic and Medicinal Chemistry</i> , 2016 , 24, 5340-5352	3.4	24
57	The bioconversion of 5-deoxystrigol to sorgomol by the sorghum, <i>Sorghum bicolor</i> (L.) Moench. <i>Phytochemistry</i> , 2013 , 93, 41-8	4	24
56	Structural insights into a key step of brassinosteroid biosynthesis and its inhibition. <i>Nature Plants</i> , 2019 , 5, 589-594	11.5	23
55	Efficient genome engineering using Platinum TALEN in potato. <i>Plant Biotechnology</i> , 2019 , 36, 167-173	1.3	22
54	Oxidative rearrangement of (+)-sesamin by CYP92B14 co-generates twin dietary lignans in sesame. <i>Nature Communications</i> , 2017 , 8, 2155	17.4	22
53	Abscinazole-F1, a conformationally restricted analogue of the plant growth retardant uniconazole and an inhibitor of ABA 8-O-hydroxylase CYP707A with no growth-retardant effect. <i>Bioorganic and Medicinal Chemistry</i> , 2009 , 17, 6620-30	3.4	22
52	Furcatin hydrolase from <i>Viburnum furcatum</i> Blume is a novel disaccharide-specific acuminosidase in glycosyl hydrolase family 1. <i>Journal of Biological Chemistry</i> , 2004 , 279, 23405-14	5.4	21
51	Abscinazole-E2B, a practical and selective inhibitor of ABA 8-O-hydroxylase CYP707A. <i>Bioorganic and Medicinal Chemistry</i> , 2012 , 20, 3162-72	3.4	20
50	Aberrant protein phosphatase 2C leads to abscisic acid insensitivity and high transpiration in parasitic <i>Striga</i> . <i>Nature Plants</i> , 2019 , 5, 258-262	11.5	19
49	Structure-activity relationship of uniconazole, a potent inhibitor of ABA 8-O-hydroxylase, with a focus on hydrophilic functional groups and conformation. <i>Bioorganic and Medicinal Chemistry</i> , 2008 , 16, 3141-52	3.4	18
48	Analysis of tyrosine phosphorylation-dependent protein-protein interactions in TrkB-mediated intracellular signaling using modified yeast two-hybrid system. <i>Journal of Biochemistry</i> , 2001 , 130, 157-65	3.1	18

47	Identification of a 3 β -Hydroxysteroid Dehydrogenase/ 3-Ketosteroid Reductase Involved in β -Tomatine Biosynthesis in Tomato. <i>Plant and Cell Physiology</i> , 2019 , 60, 1304-1315	4.9	16
46	ABA 8 β -hydroxylase and its chemical inhibitors. <i>Phytochemistry Reviews</i> , 2006 , 5, 385-404	7.7	16
45	A new non-azole inhibitor of ABA 8 β -hydroxylase: effect of the hydroxyl group substituted for geminal methyl groups in the six-membered ring. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006 , 16, 3302-5	2.9	15
44	Beta-glycosylamidine as a ligand for affinity chromatography tailored to the glycon substrate specificity of beta-glycosidases. <i>Carbohydrate Research</i> , 2003 , 338, 1477-90	2.9	15
43	Enlarged analogues of uniconazole, new azole containing inhibitors of ABA 8 β -hydroxylase CYP707A. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009 , 19, 5782-6	2.9	14
42	Bioconversion of 5-deoxystrigol stereoisomers to monohydroxylated strigolactones by plants. <i>Journal of Pesticide Sciences</i> , 2018 , 43, 198-206	2.7	13
41	Crystal structures of β -primeverosidase in complex with disaccharide amidine inhibitors. <i>Journal of Biological Chemistry</i> , 2014 , 289, 16826-34	5.4	12
40	Regulation of photochemical energy transfer accompanied by structural changes in thylakoid membranes of heat-stressed wheat. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 23042-58	6.3	12
39	Redundancy or flexibility: molecular diversity of the electron transfer components for P450 monooxygenases in higher plants. <i>Frontiers in Bioscience - Landmark</i> , 2004 , 9, 1587-97	2.8	11
38	Abscinazole-E1, a novel chemical tool for exploring the role of ABA 8 β -hydroxylase CYP707A. <i>Bioorganic and Medicinal Chemistry</i> , 2011 , 19, 406-13	3.4	10
37	A lead compound for the development of ABA 8 β -hydroxylase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 5226-9	2.9	10
36	Identification of β -Tomatine 23-Hydroxylase Involved in the Detoxification of a Bitter Glycoalkaloid. <i>Plant and Cell Physiology</i> , 2020 , 61, 21-28	4.9	10
35	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
34	Synthesis and biological activity of amino acid conjugates of abscisic acid. <i>Bioorganic and Medicinal Chemistry</i> , 2011 , 19, 1743-50	3.4	9
33	Asymmetrical ligand binding by abscisic acid 8 β -hydroxylase. <i>Bioorganic and Medicinal Chemistry</i> , 2007 , 15, 6311-22	3.4	9
32	Brain-derived neurotrophic factor promotes interaction of the Nck2 adaptor protein with the TrkB tyrosine kinase receptor. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 294, 1087-92	3.4	9
31	Targeted genome editing in tetraploid potato through transient TALEN expression by infection. <i>Plant Biotechnology</i> , 2020 , 37, 205-211	1.3	9
30	Characterization of steroid 5 β -reductase involved in β -tomatine biosynthesis in tomatoes. <i>Plant Biotechnology</i> , 2019 , 36, 253-263	1.3	9

29	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
28	Computational and experimental analyses of furcatin hydrolase for substrate specificity studies of disaccharide-specific glycosidases. <i>Journal of Biochemistry</i> , 2008 , 144, 467-75	3.1	8
27	Identification and characterization of sorgomol synthase in sorghum strigolactone biosynthesis. <i>Plant Physiology</i> , 2021 , 185, 902-913	6.6	8
26	Transcriptome analysis of treated with green leaf volatiles: possible role of green leaf volatiles as self-made damage-associated molecular patterns. <i>Journal of Pesticide Sciences</i> , 2018 , 43, 207-213	2.7	8
25	Mode-of-action and evolution of methylenedioxy bridge forming P450s in plant specialized metabolism. <i>Plant Biotechnology</i> , 2014 , 31, 493-503	1.3	7
24	Regioselective and stereospecific hydroxylation of GR24 by <i>Sorghum bicolor</i> and evaluation of germination inducing activities of hydroxylated GR24 stereoisomers toward seeds of <i>Striga</i> species. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 6100-10	3.4	6
23	Columnar growth phenotype in apple results from gibberellin deficiency by ectopic expression of a dioxygenase gene. <i>Tree Physiology</i> , 2020 , 40, 1205-1216	4.2	6
22	Synthesis and inhibitory activity of mechanism-based 4-coumaroyl-CoA ligase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2018 , 26, 2466-2474	3.4	6
21	Formation of a Methylenedioxy Bridge in (+)-Epipinoresinol by CYP81Q3 Corroborates with Diastereomeric Specialization in Sesame Lignans. <i>Plant and Cell Physiology</i> , 2018 , 59, 2278-2287	4.9	6
20	A conformationally restricted uniconazole analogue as a specific inhibitor of rice ent-kaurene oxidase, CYP701A6. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 3240-3	2.9	6
19	Selectivity improvement of an azole inhibitor of CYP707A by replacing the monosubstituted azole with a disubstituted azole. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 5506-9	2.9	6
18	Effect of the minor ABA metabolite 7β-hydroxy-ABA on Arabidopsis ABA 8β-hydroxylase CYP707A3. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 4977-81	2.9	6
17	Hatching stimulation activity of steroidal glycoalkaloids toward the potato cyst nematode. <i>Plant Biotechnology</i> , 2020 , 37, 319-325	1.3	6
16	Novel steroidal saponins from <i>Dioscorea esculenta</i> (Togedokoro). <i>Bioscience, Biotechnology and Biochemistry</i> , 2017 , 81, 2253-2260	2.1	5
15	Conversion of methyl carlactonoate to heliolactone in sunflower. <i>Natural Product Research</i> , 2020 , 1-8	2.3	5
14	The apple gene responsible for columnar tree shape reduces the abundance of biologically active gibberellin. <i>Plant Journal</i> , 2021 , 105, 1026-1034	6.9	5
13	Stereospecific reduction of the butenolide in strigolactones in plants. <i>Bioorganic and Medicinal Chemistry</i> , 2018 , 26, 4225-4233	3.4	4
12	Essential role of the PSI-LHCII supercomplex in photosystem acclimation to light and/or heat conditions by state transitions. <i>Photosynthesis Research</i> , 2017 , 131, 41-50	3.7	4

11	Expansion of specialized metabolism-related superfamily genes via whole genome duplications during angiosperm evolution. <i>Plant Biotechnology</i> , 2014 , 31, 579-584	1.3	4
10	Diglycoside-specific glycosidases. <i>Methods in Enzymology</i> , 2003 , 363, 444-59	1.7	4
9	Specific methylation of (11R)-carlactonoic acid by an Arabidopsis SABATH methyltransferase. <i>Planta</i> , 2021 , 254, 88	4.7	4
8	Expression and biochemical characterization of beta-primeverosidase and application of beta-primeverosylamidine to affinity purification. <i>Bioscience, Biotechnology and Biochemistry</i> , 2008 , 72, 376-83	2.1	3
7	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
6	How does Bewitch its hosts?. <i>Plant Signaling and Behavior</i> , 2019 , 14, 1605810	2.5	2
5	Biosynthetic origin of the 1-oxygen of umbelliferone in the root tissue of sweet potato. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2008 , 63, 687-90	1.7	2
4	Parallel evolution of UbiA superfamily proteins into aromatic -prenyltransferases in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	2
3	Sterol C22-Desaturase and Its Biological Roles 2012 , 381-391		1
2	Characterization of C-26 aminotransferase, indispensable for steroidal glycoalkaloid biosynthesis. <i>Plant Journal</i> , 2021 , 108, 81-92	6.9	0
1	?????????????. <i>Kagaku To Seibutsu</i> , 2020 , 58, 628-634	0	