

Makoto Hayashi

List of Publications by Year in descending order

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papers

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citations

136740

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66
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72
all docs

72
docs citations

72
times ranked

3895
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of root nodule symbiosis: Focusing on the transcriptional regulation from the genomic point of view. <i>Plant Biotechnology</i> , 2022, 39, 79-83.	0.5	2
2	Leguminous nodule symbiosis involves recruitment of factors contributing to lateral root development. <i>Current Opinion in Plant Biology</i> , 2021, 59, 102000.	3.5	24
3	The rhizobial autotransporter determines the symbiotic nitrogen fixation activity of <i>Lotus japonicus</i> in a host-specific manner. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1806-1815.	3.3	19
4	Common Mechanisms of Developmental Reprogramming in Plants—Lessons From Regeneration, Symbiosis, and Parasitism. <i>Frontiers in Plant Science</i> , 2020, 11, 1084.	1.7	12
5	Multi-omics analysis on an agroecosystem reveals the significant role of organic nitrogen to increase agricultural crop yield. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 14552-14560.	3.3	77
6	ERN1 and CYCLOPS coordinately activate NIN signaling to promote infection thread formation in <i>Lotus japonicus</i> . <i>Journal of Plant Research</i> , 2019, 132, 641-653.	1.2	19
7	Kinase activity-dependent stability of calcium/calmodulin-dependent protein kinase of <i>Lotus japonicus</i> . <i>Planta</i> , 2019, 250, 1773-1779.	1.6	2
8	A shared gene drives lateral root development and root nodule symbiosis pathways in <i>Lotus</i> . <i>Science</i> , 2019, 366, 1021-1023.	6.0	135
9	Multifaceted Cellular Reprogramming at the Crossroads Between Plant Development and Biotic Interactions. <i>Plant and Cell Physiology</i> , 2018, 59, 651-655.	1.5	9
10	Loss of function of <i>ASPARTIC PEPTIDASE NODULE-INDUCED 1</i> (<i>APN1</i>) in <i>Lotus japonicus</i> restricts efficient nitrogen-fixing symbiosis with specific <i>Mesorhizobium loti</i> strains. <i>Plant Journal</i> , 2018, 93, 5-16.	2.8	46
11	SNARE Proteins <i>LjVAMP72a</i> and <i>LjVAMP72b</i> Are Required for Root Symbiosis and Root Hair Formation in <i>Lotus japonicus</i> . <i>Frontiers in Plant Science</i> , 2018, 9, 1992.	1.7	17
12	Blue light does not inhibit nodulation in <i>Sesbania rostrata</i> . <i>Plant Signaling and Behavior</i> , 2017, 12, e1268313.	1.2	1
13	Whole-Genome Sequence of the Nitrogen-Fixing Symbiotic Rhizobium <i>Mesorhizobium loti</i> Strain TONO. <i>Genome Announcements</i> , 2016, 4, .	0.8	7
14	The <i>LORE1</i> insertion mutant resource. <i>Plant Journal</i> , 2016, 88, 306-317.	2.8	123
15	Blue Light Perception by Both Roots and Rhizobia Inhibits Nodule Formation in <i>Lotus japonicus</i> . <i>Molecular Plant-Microbe Interactions</i> , 2016, 29, 786-796.	1.4	25
16	Building the interaction interfaces: host responses upon infection with microorganisms. <i>Current Opinion in Plant Biology</i> , 2015, 23, 132-139.	3.5	16
17	Peribacteroid solution of soybean root nodules partly induces genomic loci for differentiation into bacteroids of free-living <i>Bradyrhizobium japonicum</i> cells. <i>Soil Science and Plant Nutrition</i> , 2015, 61, 461-470.	0.8	4
18	NODULE INCEPTION Antagonistically Regulates Gene Expression with Nitrate in <i>Lotus japonicus</i> . <i>Plant and Cell Physiology</i> , 2015, 56, 368-376.	1.5	64

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19	Rhizobial infection does not require cortical expression of upstream common symbiosis genes responsible for the induction of $CCaMK$ spiking. <i>Plant Journal</i> , 2014, 77, 146-159.	2.8	50
20	Transcriptional networks leading to symbiotic nodule organogenesis. <i>Current Opinion in Plant Biology</i> , 2014, 20, 146-154.	3.5	50
21	Symbiosis and pathogenesis: What determines the difference?. <i>Current Opinion in Plant Biology</i> , 2014, 20, v-vi.	3.5	10
22	NODULE INCEPTION creates a long-distance negative feedback loop involved in homeostatic regulation of nodule organ production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14607-14612.	3.3	175
23	Forward and Reverse Genetics: The LORE1 Retrotransposon Insertion Mutants. <i>Compendium of Plant Genomes</i> , 2014, , 221-227.	0.3	1
24	Plant Genes Involved in Symbiotic Signal Perception/Signal Transduction. <i>Compendium of Plant Genomes</i> , 2014, , 59-71.	0.3	1
25	NODULE INCEPTION Directly Targets NF-Y Subunit Genes to Regulate Essential Processes of Root Nodule Development in <i>Lotus japonicus</i> . <i>PLoS Genetics</i> , 2013, 9, e1003352.	1.5	283
26	Activation of an Endogenous Retrotransposon Associated with Epigenetic Changes in <i>Lotus japonicus</i> : A Tool for Functional Genomics in Legumes. <i>Plant Genome</i> , 2013, 6, plantgenome2013.04.0009.	1.6	6
27	Rhizobial and Fungal Symbioses Show Different Requirements for Calmodulin Binding to Calcium Calmodulin-Dependent Protein Kinase in <i>Lotus japonicus</i> . <i>Plant Cell</i> , 2012, 24, 304-321.	3.1	78
28	Nuclear-Localized and Deregulated Calcium- and Calmodulin-Dependent Protein Kinase Activates Rhizobial and Mycorrhizal Responses in <i>Lotus japonicus</i> . <i>Plant Cell</i> , 2012, 24, 810-822.	3.1	84
29	Establishment of a <i>Lotus japonicus</i> gene tagging population using the exon-targeting endogenous retrotransposon <i>LORE1</i> . <i>Plant Journal</i> , 2012, 69, 720-730.	2.8	109
30	Function and evolution of nodulation genes in legumes. <i>Cellular and Molecular Life Sciences</i> , 2011, 68, 1341-1351.	2.4	24
31	A dominant function of CCaMK in intracellular accommodation of bacterial and fungal endosymbionts. <i>Plant Journal</i> , 2010, 63, no-no.	2.8	102
32	Function of GRAS Proteins in Root Nodule Symbiosis is Retained in Homologs of a Non-Legume, Rice. <i>Plant and Cell Physiology</i> , 2010, 51, 1436-1442.	1.5	37
33	Function of GRAS Proteins in Root Nodule Symbiosis is Retained in Homologs of a Non-Legume, Rice. <i>Plant and Cell Physiology</i> , 2010, 51, 2152-2152.	1.5	1
34	How Many Peas in a Pod? Legume Genes Responsible for Mutualistic Symbioses Underground. <i>Plant and Cell Physiology</i> , 2010, 51, 1381-1397.	1.5	227
35	Derepression of the Plant Chromovirus LORE1 Induces Germline Transposition in Regenerated Plants. <i>PLoS Genetics</i> , 2010, 6, e1000868.	1.5	48
36	Gibberellin controls the nodulation signaling pathway in <i>Lotus japonicus</i> . <i>Plant Journal</i> , 2009, 58, 183-194.	2.8	162

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37	CERBERUS, a novel U α -box protein containing WD ϵ 40 repeats, is required for formation of the infection thread and nodule development in the legume ϵ “<i>Rhizobium</i> symbiosis. <i>Plant Journal</i> , 2009, 60, 168-180.	2.8	114
38	CYCLOPS, a mediator of symbiotic intracellular accommodation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 20540-20545.	3.3	398
39	Polyubiquitin Promoter-Based Binary Vectors for Overexpression and Gene Silencing in <i>Lotus japonicus</i>. <i>Molecular Plant-Microbe Interactions</i> , 2008, 21, 375-382.	1.4	109
40	Genome Structure of the Legume, <i>Lotus japonicus</i> . <i>DNA Research</i> , 2008, 15, 227-239.	1.5	691
41	NUCLEOPORIN85 Is Required for Calcium Spiking, Fungal and Bacterial Symbioses, and Seed Production in <i>Lotus japonicus</i> . <i>Plant Cell</i> , 2007, 19, 610-624.	3.1	309
42	New Nodulation Mutants Responsible for Infection Thread Development in <i>Lotus japonicus</i> . <i>Molecular Plant-Microbe Interactions</i> , 2006, 19, 801-810.	1.4	32
43	Genetics of Symbiosis in <i>Lotus japonicus</i> : Recombinant Inbred Lines, Comparative Genetic Maps, and Map Position of 35 Symbiotic Loci. <i>Molecular Plant-Microbe Interactions</i> , 2006, 19, 80-91.	1.4	94
44	Identification of Symbiotically Defective Mutants of <i>Lotus japonicus</i> Affected in Infection Thread Growth. <i>Molecular Plant-Microbe Interactions</i> , 2006, 19, 1444-1450.	1.4	33
45	Plastid proteins crucial for symbiotic fungal and bacterial entry into plant roots. <i>Nature</i> , 2005, 433, 527-531.	13.7	391
46	EspB from enterohaemorrhagic <i>Escherichiaϵ“<i>coli</i> is a natively partially folded protein. <i>FEBS Journal</i>, 2005, 272, 756-768.</i>	2.2	18
47	A pH-dependent conformational change in EspA, a component of the <i>Escherichia coli</i> O157:H7 type III secretion system. <i>FEBS Journal</i> , 2005, 272, 2773-2783.	2.2	8
48	Expression of a major house dust mite allergen gene from <i>Dermatophagoides farinae</i> in <i>Lotus japonicus</i> accession miyakojima MG-20. <i>Journal of Bioscience and Bioengineering</i> , 2005, 99, 165-168.	1.1	14
49	Characterization of the <i>Lotus japonicus</i> Symbiotic Mutant lot1 That Shows a Reduced Nodule Number and Distorted Trichomes. <i>Plant Physiology</i> , 2005, 137, 1261-1271.	2.3	31
50	Expression of LjENOD40 Genes in Response to Symbiotic and Non-symbiotic Signals: LjENOD40 ϵ “1 and LjENOD40 ϵ “2 are Differentially Regulated in <i>Lotus japonicus</i> . <i>Plant and Cell Physiology</i> , 2005, 46, 1291-1298.	1.5	25
51	<i>Lotus burtii</i> Takes a Position of the Third Corner in the <i>Lotus</i> Molecular Genetics Triangle. <i>DNA Research</i> , 2005, 12, 69-77.	1.5	38
52	Root hair abundant genes LjRH101 and LjRH102 encode peroxidase and xyloglucan endotransglycosylase in <i>Lotus japonicus</i> . <i>Journal of Bioscience and Bioengineering</i> , 2005, 99, 84-86.	1.1	2
53	Large-Scale Analysis of Gene Expression Profiles during Early Stages of Root Nodule Formation in a Model Legume, <i>Lotus japonicus</i> . <i>DNA Research</i> , 2004, 11, 263-274.	1.5	207
54	Pollen Development and Tube Growth are Affected in the Symbiotic Mutant of <i>Lotus japonicus</i> , crinkle. <i>Plant and Cell Physiology</i> , 2004, 45, 511-520.	1.5	29

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55	Expression Islands Clustered on the Symbiosis Island of the Mesorhizobium loti Genome. Journal of Bacteriology, 2004, 186, 2439-2448.	1.0	205
56	crinkle, a Novel Symbiotic Mutant That Affects the Infection Thread Growth and Alters the Root Hair, Trichome, and Seed Development in Lotus japonicus A. Plant Physiology, 2003, 131, 1054-1063.	2.3	77
57	Enhanced Accumulation of Cd ²⁺ by a Mesorhizobium sp. Transformed with a Gene from Arabidopsis thaliana Coding for Phytochelatin Synthase. Applied and Environmental Microbiology, 2003, 69, 1791-1796.	1.4	152
58	Genetic Linkage Map of the Model Legume Lotus japonicus. Biotechnology in Agriculture and Forestry, 2003, , 167-182.	0.2	1
59	A novel bioremediation system for heavy metals using the symbiosis between leguminous plant and genetically engineered rhizobia. Journal of Biotechnology, 2002, 99, 279-293.	1.9	110
60	Variation of the amino acid content of Arabidopsis seeds by expressing soybean aspartate aminotransferase gene. Journal of Bioscience and Bioengineering, 2002, 94, 225-30.	1.1	8
61	Construction of a Genetic Linkage Map of the Model Legume Lotus japonicus Using an Intraspecific F2 Population. DNA Research, 2001, 8, 301-310.	1.5	141
62	DNA Synthesis and Fragmentation in Bacteroids during Astragalus sinicus Root Nodule Development. Bioscience, Biotechnology and Biochemistry, 2001, 65, 510-515.	0.6	14
63	Efficient transformation of Mesorhizobium huakuii subsp. rengei and Rhizobium species. Journal of Bioscience and Bioengineering, 2000, 89, 550-553.	1.1	18
64	Nodule Organogenesis in Lotus japonicus. Journal of Plant Research, 2000, 113, 489-495.	1.2	19
65	Improved Sensitivity for High Resolution in Situ Hybridization Using Resin Extraction of Methyl Methacrylate Embedded Material. Biotechnic and Histochemistry, 1999, 74, 40-48.	0.7	11
66	Evidence for commitment of flowers on the mother plant to floral regeneration in Nicotiana plumbaginifolia VIV. Journal of Plant Research, 1995, 108, 107-110.	1.2	0
67	Rapid Flower Initiation of a Desert Ephemeral Pectis papposa Gray.. Cytologia, 1994, 59, 369-375.	0.2	2
68	Histological Morphology and Development of the Shoot Apical Meristem of a Rapid-flowering Desert Annual Pectis papposa Gray.. Cytologia, 1994, 59, 471-477.	0.2	0