

# Martin Parniske

## List of Publications by Year in Descending Order

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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.

120  
papers

12,782  
citations

59  
h-index

112  
g-index

183  
ext. papers

14,819  
ext. citations

10.3  
avg, IF

6.61  
L-index

#	Paper	IF	Citations
120	A CCaMK/Cyclops response element in the promoter of Lotus japonicus Calcium-Binding Protein 1 (CBP1) mediates transcriptional activation in root symbioses.. <i>New Phytologist</i> , <b>2022</b> ,	9.8	1
119	A strawberry accession with elevated methyl anthranilate fruit concentration is naturally resistant to the pest fly <i>Drosophila suzukii</i> . <i>PLoS ONE</i> , <b>2020</b> , 15, e0234040	3.7	4
118	Maintenance and Quantitative Phenotyping of the Oomycete-plant Model Pathosystem. <i>Bio-protocol</i> , <b>2020</b> , 10, e3661	0.9	
117	as a Model for Studying the Root Symbioses of the Rosaceae. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 661	6.2	7
116	A set of Arabidopsis genes involved in the accommodation of the downy mildew pathogen <i>Hyaloperonospora arabidopsidis</i> . <i>PLoS Pathogens</i> , <b>2019</b> , 15, e1007747	7.6	7
115	A unified multi-kingdom Golden Gate cloning platform. <i>Scientific Reports</i> , <b>2019</b> , 9, 10131	4.9	21
114	LCO Receptors Involved in Arbuscular Mycorrhiza Are Functional for Rhizobia Perception in Legumes. <i>Current Biology</i> , <b>2019</b> , 29, 4249-4259.e5	6.3	18
113	Advances and current challenges in calcium signaling. <i>New Phytologist</i> , <b>2018</b> , 218, 414-431	9.8	263
112	Uptake of bacteria into living plant cells, the unifying and distinct feature of the nitrogen-fixing root nodule symbiosis. <i>Current Opinion in Plant Biology</i> , <b>2018</b> , 44, 164-174	9.9	25
111	The Nuclear Pore Complex in Symbiosis and Pathogen Defence <b>2018</b> , 229-254		0
110	Phylogenomics reveals multiple losses of nitrogen-fixing root nodule symbiosis. <i>Science</i> , <b>2018</b> , 361,	33.3	167
109	The ERN1 transcription factor gene is a target of the CCaMK/CYCLOPS complex and controls rhizobial infection in Lotus japonicus. <i>New Phytologist</i> , <b>2017</b> , 215, 323-337	9.8	52
108	Cell Biology: Control of Partner Lifetime in a Plant-Fungus Relationship. <i>Current Biology</i> , <b>2017</b> , 27, R420-R423	8.4	15
107	Lipid transfer from plants to arbuscular mycorrhiza fungi. <i>ELife</i> , <b>2017</b> , 6,	8.9	206
106	A quantitative hypermorphic allele confers ectopic calcium flux and impairs cellular development. <i>ELife</i> , <b>2017</b> , 6,	8.9	23
105	Author response: Lipid transfer from plants to arbuscular mycorrhiza fungi <b>2017</b> ,		3
104	A CCaMK-CYCLOPS-DELLA Complex Activates Transcription of RAM1 to Regulate Arbuscule Branching. <i>Current Biology</i> , <b>2016</b> , 26, 987-98	6.3	114

103	Strawberry Accessions with Reduced Emergence From Fruits. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 1880	6.2	13
102	The relationship between thiamine and two symbioses: Root nodule symbiosis and arbuscular mycorrhiza. <i>Plant Signaling and Behavior</i> , <b>2016</b> , 11, e1265723	2.5	7
101	The Thiamine Biosynthesis Gene THI1 Promotes Nodule Growth and Seed Maturation. <i>Plant Physiology</i> , <b>2016</b> , 172, 2033-2043	6.6	11
100	SCARN a Novel Class of SCAR Protein That Is Required for Root-Hair Infection during Legume Nodulation. <i>PLoS Genetics</i> , <b>2015</b> , 11, e1005623	6	47
99	Colonization of root cells and plant growth promotion by Piriformospora indica occurs independently of plant common symbiosis genes. <i>Frontiers in Plant Science</i> , <b>2015</b> , 6, 667	6.2	27
98	CYCLOPS, a DNA-binding transcriptional activator, orchestrates symbiotic root nodule development. <i>Cell Host and Microbe</i> , <b>2014</b> , 15, 139-52	23.4	222
97	Knowing your friends and foes--plant receptor-like kinases as initiators of symbiosis or defence. <i>New Phytologist</i> , <b>2014</b> , 204, 791-802	9.8	75
96	Cleavage of the SYMBIOSIS RECEPTOR-LIKE KINASE ectodomain promotes complex formation with Nod factor receptor 5. <i>Current Biology</i> , <b>2014</b> , 24, 422-7	6.3	83
95	A modular plasmid assembly kit for multigene expression, gene silencing and silencing rescue in plants. <i>PLoS ONE</i> , <b>2014</b> , 9, e88218	3.7	71
94	Spontaneous symbiotic reprogramming of plant roots triggered by receptor-like kinases. <i>ELife</i> , <b>2014</b> , 3,	8.9	51
93	Cell and developmental biology of arbuscular mycorrhiza symbiosis. <i>Annual Review of Cell and Developmental Biology</i> , <b>2013</b> , 29, 593-617	12.6	355
92	CERBERUS and NSP1 of Lotus japonicus are common symbiosis genes that modulate arbuscular mycorrhiza development. <i>Plant and Cell Physiology</i> , <b>2013</b> , 54, 1711-23	4.9	53
91	Host-related metabolic cues affect colonization strategies of a root endophyte. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 13965-70	11.5	118
90	Analysis of the Lotus japonicus nuclear pore NUP107-160 subcomplex reveals pronounced structural plasticity and functional redundancy. <i>Frontiers in Plant Science</i> , <b>2013</b> , 4, 552	6.2	11
89	The Nuclear Pore Complex in Symbiosis and Pathogen Defence <b>2013</b> , 229-254		5
88	Molecular Mechanisms Governing Arbuscular Mycorrhiza Development and Function <b>2013</b> , 457-465		1
87	The K <sup>+</sup> -dependent asparaginase, NSE1, is crucial for plant growth and seed production in Lotus japonicus. <i>Plant and Cell Physiology</i> , <b>2013</b> , 54, 107-18	4.9	30
86	Two Lotus japonicus symbiosis mutants impaired at distinct steps of arbuscule development. <i>Plant Journal</i> , <b>2013</b> , 75, 117-129	6.9	13

85	Negative regulation of CCaMK is essential for symbiotic infection. <i>Plant Journal</i> , <b>2012</b> , 72, 572-84	6.9	39
84	Polymorphic infection and organogenesis patterns induced by a <i>Rhizobium leguminosarum</i> isolate from <i>Lotus</i> root nodules are determined by the host genotype. <i>New Phytologist</i> , <b>2012</b> , 196, 561-573	9.8	27
83	Activation of calcium- and calmodulin-dependent protein kinase (CCaMK), the central regulator of plant root endosymbiosis. <i>Current Opinion in Plant Biology</i> , <b>2012</b> , 15, 444-53	9.9	116
82	Receptor kinase signaling pathways in plant-microbe interactions. <i>Annual Review of Phytopathology</i> , <b>2012</b> , 50, 451-73	10.8	157
81	The recent evolution of a symbiotic ion channel in the legume family altered ion conductance and improved functionality in calcium signaling. <i>Plant Cell</i> , <b>2012</b> , 24, 2528-45	11.6	51
80	Two microRNAs linked to nodule infection and nitrogen-fixing ability in the legume <i>Lotus japonicus</i> . <i>Plant Physiology</i> , <b>2012</b> , 160, 2137-54	6.6	90
79	<i>Lotus japonicus</i> E3 ligase SEVEN IN ABSENTIA4 destabilizes the symbiosis receptor-like kinase SYMRK and negatively regulates rhizobial infection. <i>Plant Cell</i> , <b>2012</b> , 24, 1691-707	11.6	60
78	FRET-based genetically encoded sensors allow high-resolution live cell imaging of Ca <sup>2+</sup> dynamics. <i>Plant Journal</i> , <b>2012</b> , 69, 181-92	6.9	175
77	RNA-seq pinpoints a <i>Xanthomonas</i> TAL-effector activated resistance gene in a large-crop genome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 19480-5	11.5	80
76	A set of <i>Lotus japonicus</i> Gifu x <i>Lotus burttii</i> recombinant inbred lines facilitates map-based cloning and QTL mapping. <i>DNA Research</i> , <b>2012</b> , 19, 317-23	4.5	22
75	Functional domain analysis of the Remorin protein LjSYMREM1 in <i>Lotus japonicus</i> . <i>PLoS ONE</i> , <b>2012</b> , 7, e30817	3.7	69
74	Phosphoproteome analysis of <i>Lotus japonicus</i> roots reveals shared and distinct components of symbiosis and defense. <i>Molecular Plant-Microbe Interactions</i> , <b>2011</b> , 24, 932-7	3.6	27
73	Activation of a <i>Lotus japonicus</i> subtilase gene during arbuscular mycorrhiza is dependent on the common symbiosis genes and two cis-active promoter regions. <i>Molecular Plant-Microbe Interactions</i> , <b>2011</b> , 24, 662-70	3.6	19
72	Autophosphorylation is essential for the in vivo function of the <i>Lotus japonicus</i> Nod factor receptor 1 and receptor-mediated signalling in cooperation with Nod factor receptor 5. <i>Plant Journal</i> , <b>2011</b> , 65, 404-17	6.9	135
71	The <i>Clavata2</i> genes of pea and <i>Lotus japonicus</i> affect autoregulation of nodulation. <i>Plant Journal</i> , <b>2011</b> , 65, 861-71	6.9	89
70	<i>Lotus japonicus</i> symRK-14 uncouples the cortical and epidermal symbiotic program. <i>Plant Journal</i> , <b>2011</b> , 67, 929-40	6.9	57
69	NENA, a <i>Lotus japonicus</i> homolog of Sec13, is required for rhizodermal infection by arbuscular mycorrhiza fungi and rhizobia but dispensable for cortical endosymbiotic development. <i>Plant Cell</i> , <b>2010</b> , 22, 2509-26	11.6	174
68	A suite of <i>Lotus japonicus</i> starch mutants reveals both conserved and novel features of starch metabolism. <i>Plant Physiology</i> , <b>2010</b> , 154, 643-55	6.6	49

67	A cytosolic invertase is required for normal growth and cell development in the model legume, <i>Lotus japonicus</i> . <i>Journal of Experimental Botany</i> , <b>2009</b> , 60, 3353-65	7	76
66	TILLING in <i>Lotus japonicus</i> identified large allelic series for symbiosis genes and revealed a bias in functionally defective ethyl methanesulfonate alleles toward glycine replacements. <i>Plant Physiology</i> , <b>2009</b> , 151, 1281-91	6.6	68
65	The temperature-sensitive brush mutant of the legume <i>Lotus japonicus</i> reveals a link between root development and nodule infection by rhizobia. <i>Plant Physiology</i> , <b>2009</b> , 149, 1785-96	6.6	19
64	The unbearable naivety of legumes in symbiosis. <i>Current Opinion in Plant Biology</i> , <b>2009</b> , 12, 491-9	9.9	55
63	Apoplastic plant subtilases support arbuscular mycorrhiza development in <i>Lotus japonicus</i> . <i>Plant Journal</i> , <b>2009</b> , 58, 766-77	6.9	95
62	Evolution of root endosymbiosis with bacteria: How novel are nodules?. <i>Trends in Plant Science</i> , <b>2009</b> , 14, 77-86	13.1	159
61	Identification of candidate genome regions controlling disease resistance in <i>Arachis</i> . <i>BMC Plant Biology</i> , <b>2009</b> , 9, 112	5.3	98
60	<i>Lotus japonicus</i> CASTOR and POLLUX are ion channels essential for perinuclear calcium spiking in legume root endosymbiosis. <i>Plant Cell</i> , <b>2008</b> , 20, 3467-79	11.6	167
59	Arbuscular mycorrhiza: the mother of plant root endosymbioses. <i>Nature Reviews Microbiology</i> , <b>2008</b> , 6, 763-75	22.2	1316
58	SymRK defines a common genetic basis for plant root endosymbioses with arbuscular mycorrhiza fungi, rhizobia, and Frankiabacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 4928-32	11.5	227
57	CYCLOPS, a mediator of symbiotic intracellular accommodation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 20540-5	11.5	321
56	Functional adaptation of a plant receptor-kinase paved the way for the evolution of intracellular root symbioses with bacteria. <i>PLoS Biology</i> , <b>2008</b> , 6, e68	9.7	179
55	Proteases in plant root symbiosis. <i>Phytochemistry</i> , <b>2007</b> , 68, 111-21	4	35
54	NUCLEOPORIN85 is required for calcium spiking, fungal and bacterial symbioses, and seed production in <i>Lotus japonicus</i> . <i>Plant Cell</i> , <b>2007</b> , 19, 610-24	11.6	274
53	TILLING mutants of <i>Lotus japonicus</i> reveal that nitrogen assimilation and fixation can occur in the absence of nodule-enhanced sucrose synthase. <i>Plant Physiology</i> , <b>2007</b> , 144, 806-20	6.6	83
52	<i>Lotus japonicus</i> nodulation requires two GRAS domain regulators, one of which is functionally conserved in a non-legume. <i>Plant Physiology</i> , <b>2006</b> , 142, 1739-50	6.6	201
51	Transcriptome analysis of <i>Arabidopsis</i> clubroots indicate a key role for cytokinins in disease development. <i>Molecular Plant-Microbe Interactions</i> , <b>2006</b> , 19, 480-94	3.6	245
50	The most widespread symbiosis on Earth. <i>PLoS Biology</i> , <b>2006</b> , 4, e239	9.7	59

49	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> , <b>2006</b> , 19, 80-91	3.6	87
48	Genetic suppressors of the <i>Lotus japonicus</i> har1-1 hypernodulation phenotype. <i>Molecular Plant-Microbe Interactions</i> , <b>2006</b> , 19, 1082-91	3.6	41
47	Identification of symbiotically defective mutants of <i>Lotus japonicus</i> affected in infection thread growth. <i>Molecular Plant-Microbe Interactions</i> , <b>2006</b> , 19, 1444-50	3.6	28
46	Deregulation of a Ca <sup>2+</sup> /calmodulin-dependent kinase leads to spontaneous nodule development. <i>Nature</i> , <b>2006</b> , 441, 1153-6	50.4	359
45	Common symbiosis genes of <i>Lotus japonicus</i> are not required for intracellular accommodation of the rust fungus <i>Uromyces loti</i> . <i>New Phytologist</i> , <b>2006</b> , 170, 641-4	9.8	13
44	<i>Lotus japonicus</i> : legume research in the fast lane. <i>Trends in Plant Science</i> , <b>2005</b> , 10, 222-8	13.1	110
43	Arbuscular mycorrhiza <b>2005</b> , 87-95		7
42	Plastid proteins crucial for symbiotic fungal and bacterial entry into plant roots. <i>Nature</i> , <b>2005</b> , 433, 527-31	31.4	346
41	Regulation of plant symbiosis receptor kinase through serine and threonine phosphorylation. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 9203-9	5.4	75
40	Seven <i>Lotus japonicus</i> genes required for transcriptional reprogramming of the root during fungal and bacterial symbiosis. <i>Plant Cell</i> , <b>2005</b> , 17, 2217-29	11.6	252
39	Regulatory Mechanisms of Symrk Kinase Activity <b>2005</b> , 183-185		1
38	96-Well DNA isolation method <b>2005</b> , 129-131		1
37	Mutagenesis <b>2005</b> , 177-186		2
36	Tilling <b>2005</b> , 197-210		5
35	Genetic variation at the tomato Cf-4/Cf-9 locus induced by EMS mutagenesis and intralocus recombination. <i>Genetics</i> , <b>2004</b> , 167, 459-70	4	30
34	Distinct roles of <i>Lotus japonicus</i> SYMRK and SYM15 in root colonization and arbuscule formation. <i>New Phytologist</i> , <b>2004</b> , 163, 381-392	9.8	86
33	Molecular genetics of the arbuscular mycorrhizal symbiosis. <i>Current Opinion in Plant Biology</i> , <b>2004</b> , 7, 414-21	9.9	149
32	Exploitation of colinear relationships between the genomes of <i>Lotus japonicus</i> , <i>Pisum sativum</i> and <i>Arabidopsis thaliana</i> , for positional cloning of a legume symbiosis gene. <i>Theoretical and Applied Genetics</i> , <b>2004</b> , 108, 442-9	6	39

31	A TILLING reverse genetics tool and a web-accessible collection of mutants of the legume <i>Lotus japonicus</i> . <i>Plant Physiology</i> , <b>2003</b> , 131, 866-71	6.6	291
30	Dual requirement of the <i>LjSym4</i> gene for mycorrhizal development in epidermal and cortical cells of <i>Lotus japonicus</i> roots. <i>New Phytologist</i> , <b>2002</b> , 154, 741-749	9.8	74
29	A plant receptor-like kinase required for both bacterial and fungal symbiosis. <i>Nature</i> , <b>2002</b> , 417, 959-62	50.4	737
28	Phase State of a Steel Plate Caused by the Action of Distributed Heat Sources. <i>Materials Science</i> , <b>2002</b> , 38, 214-219	0.7	
27	Evolution of signal transduction in intracellular symbiosis. <i>Trends in Plant Science</i> , <b>2002</b> , 7, 511-8	13.1	286
26	A genetic linkage map of the model legume <i>Lotus japonicus</i> and strategies for fast mapping of new loci. <i>Genetics</i> , <b>2002</b> , 161, 1673-83	4	66
25	The <i>Lotus japonicus</i> <i>LjSym4</i> gene is required for the successful symbiotic infection of root epidermal cells. <i>Molecular Plant-Microbe Interactions</i> , <b>2000</b> , 13, 1109-20	3.6	120
24	Intracellular accommodation of microbes by plants: a common developmental program for symbiosis and disease?. <i>Current Opinion in Plant Biology</i> , <b>2000</b> , 3, 320-8	9.9	260
23	Pronounced Intraspecific Haplotype Divergence at the RPP5 Complex Disease Resistance Locus of <i>Arabidopsis</i> . <i>Plant Cell</i> , <b>1999</b> , 11, 2099-2111	11.6	286
22	Recombination between diverged clusters of the tomato Cf-9 plant disease resistance gene family. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1999</b> , 96, 5850-5	11.5	102
21	Homologues of the Cf-9 disease resistance gene ( <i>Hcr9s</i> ) are present at multiple loci on the short arm of tomato chromosome 1. <i>Molecular Plant-Microbe Interactions</i> , <b>1999</b> , 12, 93-102	3.6	45
20	Genetic nomenclature guidelines for the model legume <i>Lotus japonicus</i> . <i>Trends in Plant Science</i> , <b>1999</b> , 4, 300-301	13.1	11
19	Pronounced Intraspecific Haplotype Divergence at the RPP5 Complex Disease Resistance Locus of <i>Arabidopsis</i> . <i>Plant Cell</i> , <b>1999</b> , 11, 2099	11.6	5
18	Exopolysaccharide (EPS) synthesis in <i>Bradyrhizobium japonicum</i> : sequence, operon structure and mutational analysis of an <i>exo</i> gene cluster. <i>Molecular Genetics and Genomics</i> , <b>1998</b> , 259, 161-71		27
17	Genetic and molecular analysis of tomato Cf genes for resistance to <i>Cladosporium fulvum</i> . <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>1998</b> , 353, 1413-24	5.8	62
16	Mycorrhiza Mutants of <i>Lotus japonicus</i> Define Genetically Independent Steps During Symbiotic Infection. <i>Molecular Plant-Microbe Interactions</i> , <b>1998</b> , 11, 933-936	3.6	106
15	Characterization of the Tomato Cf-4 Gene for Resistance to <i>Cladosporium fulvum</i> Identifies Sequences That Determine Recognition Specificity in Cf-4 and Cf-9. <i>Plant Cell</i> , <b>1997</b> , 9, 2209	11.6	39
14	Novel disease resistance specificities result from sequence exchange between tandemly repeated genes at the Cf-4/9 locus of tomato. <i>Cell</i> , <b>1997</b> , 91, 821-32	56.2	507

13	Pleiotropic effect of fluoranthene on anthocyanin synthesis and nodulation of <i>Medicago sativa</i> is reversed by the plant flavone luteolin. <i>Bulletin of Environmental Contamination and Toxicology</i> , <b>1995</b> , 54, 633-9	2.7	5
12	Modes of expression and common structural features of the complete phenylalanine ammonia-lyase gene family in parsley. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1995</b> , 92, 5905-9	11.5	212
11	Oligopeptide elicitor-mediated defense gene activation in cultured parsley cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1995</b> , 92, 4150-7	11.5	190
10	The Impairment of the Nodulation Process, Induced by a <i>Bradyrhizobium japonicum</i> Exopolysaccharide Mutant is Determined by the Genotype of the Host Plant. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , <b>1994</b> , 49, 727-736	1.7	7
9	Competitiveness and communication for effective inoculation by <i>Rhizobium</i> , <i>Bradyrhizobium</i> and vesicular-arbuscular mycorrhiza fungi. <i>Experientia</i> , <b>1994</b> , 50, 884-889		9
8	Plant Defense Responses of Host Plants with Determinate Nodules Induced by EPS-Defective <i>exoB</i> Mutants of <i>Bradyrhizobium japonicum</i> . <i>Molecular Plant-Microbe Interactions</i> , <b>1994</b> , 7, 631	3.6	68
7	Legume root metabolites and VA-mycorrhiza development. <i>Journal of Plant Physiology</i> , <b>1993</b> , 141, 54-60	3.6	38
6	<i>ExoB</i> Mutants of <i>Bradyrhizobium japonicum</i> with Reduced Competitiveness for Nodulation of <i>Glycine max.</i> <i>Molecular Plant-Microbe Interactions</i> , <b>1993</b> , 6, 99	3.6	35
5	Production of the Phytoalexin Glyceollin I by Soybean Roots in Response to Symbiotic and Pathogenic Infection. <i>Botanica Acta</i> , <b>1992</b> , 105, 18-25		48
4	Accumulation of the Phytoalexin Glyceollin I in Soybean Nodules Infected by a <i>Bradyrhizobium japonicum nifA</i> Mutant. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , <b>1991</b> , 46, 318-320	1.7	26
3	Chemotaxis and nod Gene Activity of <i>Bradyrhizobium japonicum</i> in Response to Hydroxycinnamic Acids and Isoflavonoids. <i>Applied and Environmental Microbiology</i> , <b>1991</b> , 57, 316-9	4.8	74
2	Hypersensitive Reaction of Nodule Cells in the <i>Glycine sp./Bradyrhizobium japonicum</i> -Symbiosis Occurs at the Genotype-Specific Level*. <i>Botanica Acta</i> , <b>1990</b> , 103, 143-148		39
1	Symbiosis-related genes sustain the development of a downy mildew pathogen on <i>Arabidopsis thaliana</i>		3