Martin Parniske

List of Publications by Citations

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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	Arbuscular mycorrhiza: the mother of plant root endosymbioses. *Nature Reviews Microbiology*, **2008** , 6, 763-75	22.2	1316
119	A plant receptor-like kinase required for both bacterial and fungal symbiosis. *Nature*, **2002**, 417, 959-62	50.4	737
118	Novel disease resistance specificities result from sequence exchange between tandemly repeated genes at the Cf-4/9 locus of tomato. *Cell*, **1997**, 91, 821-32	56.2	507
117	Deregulation of a Ca2+/calmodulin-dependent kinase leads to spontaneous nodule development. *Nature*, **2006**, 441, 1153-6	50.4	359
116	Cell and developmental biology of arbuscular mycorrhiza symbiosis. *Annual Review of Cell and Developmental Biology*, **2013**, 29, 593-617	12.6	355
115	Plastid proteins crucial for symbiotic fungal and bacterial entry into plant roots. *Nature*, **2005**, 433, 527-31	50.4	346
114	CYCLOPS, a mediator of symbiotic intracellular accommodation. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 20540-5	11.5	321
113	A TILLING reverse genetics tool and a web-accessible collection of mutants of the legume Lotus japonicus. *Plant Physiology*, **2003**, 131, 866-71	6.6	291
112	Evolution of signal transduction in intracellular symbiosis. *Trends in Plant Science*, **2002**, 7, 511-8	13.1	286
111	Pronounced Intraspecific Haplotype Divergence at the RPP5 Complex Disease Resistance Locus of Arabidopsis. *Plant Cell*, **1999**, 11, 2099-2111	11.6	286
110	NUCLEOPORIN85 is required for calcium spiking, fungal and bacterial symbioses, and seed production in Lotus japonicus. *Plant Cell*, **2007**, 19, 610-24	11.6	274
109	Advances and current challenges in calcium signaling. *New Phytologist*, **2018**, 218, 414-431	9.8	263
108	Intracellular accommodation of microbes by plants: a common developmental program for symbiosis and disease?. *Current Opinion in Plant Biology*, **2000**, 3, 320-8	9.9	260
107	Seven Lotus japonicus genes required for transcriptional reprogramming of the root during fungal and bacterial symbiosis. *Plant Cell*, **2005**, 17, 2217-29	11.6	252
106	Transcriptome analysis of Arabidopsis clubroots indicate a key role for cytokinins in disease development. *Molecular Plant-Microbe Interactions*, **2006**, 19, 480-94	3.6	245
105	SymRK defines a common genetic basis for plant root endosymbioses with arbuscular mycorrhiza fungi, rhizobia, and Frankiabacteria. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 4928-32	11.5	227
104	CYCLOPS, a DNA-binding transcriptional activator, orchestrates symbiotic root nodule development. *Cell Host and Microbe*, **2014**, 15, 139-52	23.4	222

103	Modes of expression and common structural features of the complete phenylalanine ammonia-lyase gene family in parsley. *Proceedings of the National Academy of Sciences of the United States of America*, **1995**, 92, 5905-9	11.5	212
102	Lipid transfer from plants to arbuscular mycorrhiza fungi. *ELife*, **2017**, 6,	8.9	206
101	Lotus japonicus nodulation requires two GRAS domain regulators, one of which is functionally conserved in a non-legume. *Plant Physiology*, **2006**, 142, 1739-50	6.6	201
100	Oligopeptide elicitor-mediated defense gene activation in cultured parsley cells. *Proceedings of the National Academy of Sciences of the United States of America*, **1995**, 92, 4150-7	11.5	190
99	Functional adaptation of a plant receptor-kinase paved the way for the evolution of intracellular root symbioses with bacteria. *PLoS Biology*, **2008**, 6, e68	9.7	179
98	FRET-based genetically encoded sensors allow high-resolution live cell imaging of Ca^{2+} dynamics. *Plant Journal*, **2012**, 69, 181-92	6.9	175
97	NENA, a Lotus japonicus homolog of Sec13, is required for rhizodermal infection by arbuscular mycorrhiza fungi and rhizobia but dispensable for cortical endosymbiotic development. *Plant Cell*, **2010**, 22, 2509-26	11.6	174
96	Lotus japonicus CASTOR and POLLUX are ion channels essential for perinuclear calcium spiking in legume root endosymbiosis. *Plant Cell*, **2008**, 20, 3467-79	11.6	167
95	Phylogenomics reveals multiple losses of nitrogen-fixing root nodule symbiosis. *Science*, **2018**, 361,	33.3	167
94	Evolution of root endosymbiosis with bacteria: How novel are nodules?. *Trends in Plant Science*, **2009**, 14, 77-86	13.1	159
93	Receptor kinase signaling pathways in plant-microbe interactions. *Annual Review of Phytopathology* , **2012**, 50, 451-73	10.8	157
92	Molecular genetics of the arbuscular mycorrhizal symbiosis. *Current Opinion in Plant Biology*, **2004**, 7, 414-21	9.9	149
91	Autophosphorylation is essential for the in vivo function of the Lotus japonicus Nod factor receptor 1 and receptor-mediated signalling in cooperation with Nod factor receptor 5. *Plant Journal*, **2011**, 65, 404-17	6.9	135
90	The Lotus japonicus LjSym4 gene is required for the successful symbiotic infection of root epidermal cells. *Molecular Plant-Microbe Interactions*, **2000**, 13, 1109-20	3.6	120
89	Host-related metabolic cues affect colonization strategies of a root endophyte. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 13965-70	11.5	118
88	Activation of calcium- and calmodulin-dependent protein kinase (CCaMK), the central regulator of plant root endosymbiosis. *Current Opinion in Plant Biology*, **2012**, 15, 444-53	9.9	116
87	A CCaMK-CYCLOPS-DELLA Complex Activates Transcription of RAM1 to Regulate Arbuscule Branching. *Current Biology*, **2016**, 26, 987-98	6.3	114
86	Lotus japonicus: legume research in the fast lane. *Trends in Plant Science*, **2005**, 10, 222-8	13.1	110

85	Mycorrhiza Mutants of Lotus japonicus Define Genetically Independent Steps During Symbiotic Infection. *Molecular Plant-Microbe Interactions*, **1998**, 11, 933-936	3.6	106
84	Recombination between diverged clusters of the tomato Cf-9 plant disease resistance gene family. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 5850-5	11.5	102
83	Identification of candidate genome regions controlling disease resistance in Arachis. *BMC Plant Biology*, **2009**, 9, 112	5.3	98
82	Apoplastic plant subtilases support arbuscular mycorrhiza development in Lotus japonicus. *Plant Journal*, **2009**, 58, 766-77	6.9	95
81	Two microRNAs linked to nodule infection and nitrogen-fixing ability in the legume Lotus japonicus. *Plant Physiology*, **2012**, 160, 2137-54	6.6	90
80	The Clavata2 genes of pea and Lotus japonicus affect autoregulation of nodulation. *Plant Journal*, **2011**, 65, 861-71	6.9	89
79	Genetics of symbiosis in Lotus japonicus: recombinant inbred lines, comparative genetic maps, and map position of 35 symbiotic loci. *Molecular Plant-Microbe Interactions*, **2006**, 19, 80-91	3.6	87
78	Distinct roles of Lotus japonicus SYMRK and SYM15 in root colonization and arbuscule formation. *New Phytologist*, **2004**, 163, 381-392	9.8	86
77	Cleavage of the SYMBIOSIS RECEPTOR-LIKE KINASE ectodomain promotes complex formation with Nod factor receptor 5. *Current Biology*, **2014**, 24, 422-7	6.3	83
76	TILLING mutants of Lotus japonicus reveal that nitrogen assimilation and fixation can occur in the absence of nodule-enhanced sucrose synthase. *Plant Physiology*, **2007**, 144, 806-20	6.6	83
75	RNA-seq pinpoints a Xanthomonas TAL-effector activated resistance gene in a large-crop genome. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 19480-5	11.5	80
74	A cytosolic invertase is required for normal growth and cell development in the model legume, Lotus japonicus. *Journal of Experimental Botany*, **2009**, 60, 3353-65	7	76
73	Knowing your friends and foes--plant receptor-like kinases as initiators of symbiosis or defence. *New Phytologist*, **2014**, 204, 791-802	9.8	75
72	Regulation of plant symbiosis receptor kinase through serine and threonine phosphorylation. *Journal of Biological Chemistry*, **2005**, 280, 9203-9	5.4	75
71	Dual requirement of the LjSym4 gene for mycorrhizal development in epidermal and cortical cells of Lotus japonicus roots. *New Phytologist*, **2002**, 154, 741-749	9.8	74
70	Chemotaxis and nod Gene Activity of Bradyrhizobium japonicum in Response to Hydroxycinnamic Acids and Isoflavonoids. *Applied and Environmental Microbiology*, **1991**, 57, 316-9	4.8	74
69	A modular plasmid assembly kit for multigene expression, gene silencing and silencing rescue in plants. *PLoS ONE*, **2014**, 9, e88218	3.7	71
68	Functional domain analysis of the Remorin protein LjSYMREM1 in Lotus japonicus. *PLoS ONE*, **2012**, 7, e30817	3.7	69

67	TILLING in Lotus japonicus identified large allelic series for symbiosis genes and revealed a bias in functionally defective ethyl methanesulfonate alleles toward glycine replacements. *Plant Physiology*, **2009**, 151, 1281-91	6.6	68
66	Plant Defense Responses of Host Plants with Determinate Nodules Induced by EPS-DefectiveexoBMutants ofBradyrhizobium japonicum. *Molecular Plant-Microbe Interactions*, **1994**, 7, 631	3.6	68
65	A genetic linkage map of the model legume Lotus japonicus and strategies for fast mapping of new loci. *Genetics*, **2002**, 161, 1673-83	4	66
64	Genetic and molecular analysis of tomato Cf genes for resistance to Cladosporium fulvum. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **1998**, 353, 1413-24	5.8	62
63	Lotus japonicus E3 ligase SEVEN IN ABSENTIA4 destabilizes the symbiosis receptor-like kinase SYMRK and negatively regulates rhizobial infection. *Plant Cell*, **2012**, 24, 1691-707	11.6	60
62	The most widespread symbiosis on Earth. *PLoS Biology*, **2006**, 4, e239	9.7	59
61	Lotus japonicus symRK-14 uncouples the cortical and epidermal symbiotic program. *Plant Journal*, **2011**, 67, 929-40	6.9	57
60	The unbearable naivety of legumes in symbiosis. *Current Opinion in Plant Biology*, **2009**, 12, 491-9	9.9	55
59	CERBERUS and NSP1 of Lotus japonicus are common symbiosis genes that modulate arbuscular mycorrhiza development. *Plant and Cell Physiology*, **2013**, 54, 1711-23	4.9	53
58	The ERN1 transcription factor gene is a target of the CCaMK/CYCLOPS complex and controls rhizobial infection inLotus japonicus. *New Phytologist*, **2017**, 215, 323-337	9.8	52
57	The recent evolution of a symbiotic ion channel in the legume family altered ion conductance and improved functionality in calcium signaling. *Plant Cell*, **2012**, 24, 2528-45	11.6	51
56	Spontaneous symbiotic reprogramming of plant roots triggered by receptor-like kinases. *ELife*, **2014**, 3,	8.9	51
55	A suite of Lotus japonicus starch mutants reveals both conserved and novel features of starch metabolism. *Plant Physiology*, **2010**, 154, 643-55	6.6	49
54	Production of the Phytoalexin Glyceollin I by Soybean Roots in Response to Symbiotic and Pathogenic Infection. *Botanica Acta*, **1992**, 105, 18-25		48
53	SCARN a Novel Class of SCAR Protein That Is Required for Root-Hair Infection during Legume Nodulation. *PLoS Genetics*, **2015**, 11, e1005623	6	47
52	Homologues of the Cf-9 disease resistance gene (Hcr9s) are present at multiple loci on the short arm of tomato chromosome 1. *Molecular Plant-Microbe Interactions*, **1999**, 12, 93-102	3.6	45
51	Genetic suppressors of the Lotus japonicus har1-1 hypernodulation phenotype. *Molecular Plant-Microbe Interactions*, **2006**, 19, 1082-91	3.6	41
50	Negative regulation of CCaMK is essential for symbiotic infection. *Plant Journal*, **2012**, 72, 572-84	6.9	39

49	Characterization of the Tomato Cf-4 Gene for Resistance to Cladosporium fulvum Identifies Sequences That Determine Recognitional Specificity in Cf-4 and Cf-9. *Plant Cell*, **1997**, 9, 2209	11.6	39
48	Exploitation of colinear relationships between the genomes of Lotus japonicus, Pisum sativum and Arabidopsis thaliana, for positional cloning of a legume symbiosis gene. *Theoretical and Applied Genetics*, **2004**, 108, 442-9	6	39
47	Hypersensitive Reaction of Nodule Cells in the Glycine sp./Bradyrhizobium japonicum-Symbiosis Occurs at the Genotype-Specific Level*. *Botanica Acta*, **1990**, 103, 143-148		39
46	Legume root metabolites and VA-mycorrhiza development. *Journal of Plant Physiology*, **1993**, 141, 54-60	3.6	38
45	Proteases in plant root symbiosis. *Phytochemistry*, **2007**, 68, 111-21	4	35
44	ExoB Mutants ofBradyrhizobium japonicumwith Reduced Competitiveness for Nodulation ofGlycine max. *Molecular Plant-Microbe Interactions*, **1993**, 6, 99	3.6	35
43	The K+-dependent asparaginase, NSE1, is crucial for plant growth and seed production in Lotus japonicus. *Plant and Cell Physiology*, **2013**, 54, 107-18	4.9	30
42	Genetic variation at the tomato Cf-4/Cf-9 locus induced by EMS mutagenesis and intralocus recombination. *Genetics*, **2004**, 167, 459-70	4	30
41	Identification of symbiotically defective mutants of Lotus japonicus affected in infection thread growth. *Molecular Plant-Microbe Interactions*, **2006**, 19, 1444-50	3.6	28
40	Colonization of root cells and plant growth promotion by Piriformospora indica occurs independently of plant common symbiosis genes. *Frontiers in Plant Science*, **2015**, 6, 667	6.2	27
39	Polymorphic infection and organogenesis patterns induced by a Rhizobium leguminosarum isolate from Lotus root nodules are determined by the host genotype. *New Phytologist*, **2012**, 196, 561-573	9.8	27
38	Phosphoproteome analysis of Lotus japonicus roots reveals shared and distinct components of symbiosis and defense. *Molecular Plant-Microbe Interactions*, **2011**, 24, 932-7	3.6	27
37	Exopolysaccharide (EPS) synthesis in Bradyrhizobium japonicum: sequence, operon structure and mutational analysis of an exo gene cluster. *Molecular Genetics and Genomics*, **1998**, 259, 161-71		27
36	Accumulation of the Phytoalexin Glyceollin I in Soybean Nodules Infected by a Bradyrhizobium japonicum nifA Mutant. *Zeitschrift Fur Naturforschung - Section C Journal of Biosciences*, **1991**, 46, 318-320	1.7	26
35	Uptake of bacteria into living plant cells, the unifying and distinct feature of the nitrogen-fixing root nodule symbiosis. *Current Opinion in Plant Biology*, **2018**, 44, 164-174	9.9	25
34	A quantitative hypermorphic allele confers ectopic calcium flux and impairs cellular development. *ELife*, **2017**, 6,	8.9	23
33	A set of Lotus japonicus Gifu x Lotus burttii recombinant inbred lines facilitates map-based cloning and QTL mapping. *DNA Research*, **2012**, 19, 317-23	4.5	22
32	A unified multi-kingdom Golden Gate cloning platform. *Scientific Reports*, **2019**, 9, 10131	4.9	21

31	Activation of a Lotus japonicus subtilase gene during arbuscular mycorrhiza is dependent on the common symbiosis genes and two cis-active promoter regions. *Molecular Plant-Microbe Interactions* , **2011**, 24, 662-70	3.6	19
30	The temperature-sensitive brush mutant of the legume Lotus japonicus reveals a link between root development and nodule infection by rhizobia. *Plant Physiology*, **2009**, 149, 1785-96	6.6	19
29	LCO Receptors Involved in Arbuscular Mycorrhiza Are Functional for Rhizobia Perception in Legumes. *Current Biology*, **2019**, 29, 4249-4259.e5	6.3	18
28	Cell Biology: Control of Partner Lifetime in a Plant-Fungus Relationship. *Current Biology*, **2017**, 27, R420-R423	6.3	15
27	Two Lotus japonicus symbiosis mutants impaired at distinct steps of arbuscule development. *Plant Journal*, **2013**, 75, 117-129	6.9	13
26	Common symbiosis genes of Lotus japonicus are not required for intracellular accommodation of the rust fungus Uromyces loti. *New Phytologist*, **2006**, 170, 641-4	9.8	13
25	Strawberry Accessions with Reduced Emergence From Fruits. *Frontiers in Plant Science*, **2016**, 7, 1880	6.2	13
24	Analysis of the Lotus japonicus nuclear pore NUP107-160 subcomplex reveals pronounced structural plasticity and functional redundancy. *Frontiers in Plant Science*, **2013**, 4, 552	6.2	11
23	Genetic nomenclature guidelines for the model legume Lotus japonicus. *Trends in Plant Science*, **1999**, 4, 300-301	13.1	11
22	The Thiamine Biosynthesis Gene THI1 Promotes Nodule Growth and Seed Maturation. *Plant Physiology*, **2016**, 172, 2033-2043	6.6	11
21	Competitiveness and communication for effective inoculation byRhizobium, Bradyrhizobium and vesicular-arbuscular mycorrhiza fungi. *Experientia*, **1994**, 50, 884-889		9
20	as a Model for Studying the Root Symbioses of the Rosaceae. *Frontiers in Plant Science*, **2019**, 10, 661	6.2	7
19	A set of Arabidopsis genes involved in the accommodation of the downy mildew pathogen Hyaloperonospora arabidopsidis. *PLoS Pathogens*, **2019**, 15, e1007747	7.6	7
18	Arbuscular mycorrhiza **2005**, 87-95		7
17	The Impairment of the Nodulation Process, Induced by a Bradyrhizobium japonicum Exopolysaccharide Mutant is Determined by the Genotype of the Host Plant. *Zeitschrift Fur Naturforschung - Section C Journal of Biosciences*, **1994**, 49, 727-736	1.7	7
16	The relationship between thiamine and two symbioses: Root nodule symbiosis and arbuscular mycorrhiza. *Plant Signaling and Behavior*, **2016**, 11, e1265723	2.5	7
15	The Nuclear Pore Complex in Symbiosis and Pathogen Defence **2013**, 229-254		5
14	Pronounced Intraspecific Haplotype Divergence at the RPP5 Complex Disease Resistance Locus of Arabidopsis. *Plant Cell*, **1999**, 11, 2099	11.6	5

13	Pleiotropic effect of fluoranthene on anthocyanin synthesis and nodulation of Medicago sativa is reversed by the plant flavone luteolin. *Bulletin of Environmental Contamination and Toxicology*, **1995**, 54, 633-9	2.7	5
12	Tilling **2005**, 197-210		5
11	A strawberry accession with elevated methyl anthranilate fruit concentration is naturally resistant to the pest fly Drosophila suzukii. *PLoS ONE*, **2020**, 15, e0234040	3.7	4
10	Author response: Lipid transfer from plants to arbuscular mycorrhiza fungi **2017**,		3
9	Symbiosis-related genes sustain the development of a downy mildew pathogen on Arabidopsis thaliana		3
8	Mutagenesis **2005**, 177-186		2
7	Molecular Mechanisms Governing Arbuscular Mycorrhiza Development and Function **2013**, 457-465		1
6	Regulatory Mechanisms of Symrk Kinase Activity **2005**, 183-185		1
5	96-Well DNA isolation method **2005**, 129-131		1
4	A CCaMK/Cyclops response element in the promoter of Lotus japonicus Calcium-Binding Protein 1 (CBP1) mediates transcriptional activation in root symbioses.. *New Phytologist*, **2022**,	9.8	1
3	The Nuclear Pore Complex in Symbiosis and Pathogen Defence **2018**, 229-254		0
2	Phase State of a Steel Plate Caused by the Action of Distributed Heat Sources. *Materials Science*, **2002**, 38, 214-219	0.7	
1	Maintenance and Quantitative Phenotyping of the Oomycete-plant Model Pathosystem. *Bio-protocol*, **2020**, 10, e3661	0.9	