Marc Libault

List of Publications by Year
in descending order

45 papers	6,832 citations	279798 23 h-index	233421 45 g-index
50 all docs	50 docs citations	50 times ranked	7865 citing authors

#	Article	IF	Citations
1	Genome sequence of the palaeopolyploid soybean. Nature, 2010, 463, 178-183.	27.8	3,854
2	An integrated transcriptome atlas of the crop model Glycine max, and its use in comparative analyses in plants. Plant Journal, 2010, 63, no-no.	5.7	331
3	Complete Transcriptome of the Soybean Root Hair Cell, a Single-Cell Model, and Its Alteration in Response to<i>Bradyrhizobium japonicum</i>Infection Â Â Â. Plant Physiology, 2010, 152, 541-552.	4.8	268
4	Genetics and functional genomics of legume nodulation. Current Opinion in Plant Biology, 2006, 9, 110-121.	7.1	264
5	Identification of 118 <i>Arabidopsis</i> Transcription Factor and 30 Ubiquitin-Ligase Genes Responding to Chitin, a Plant-Defense Elicitor. Molecular Plant-Microbe Interactions, 2007, 20, 900-911.	2.6	254
6	The fate of duplicated genes in a polyploid plant genome. Plant Journal, 2013, 73, 143-153.	5.7	243
7	Single-nucleus RNA and ATAC sequencing reveals the impact of chromatin accessibility on gene expression in Arabidopsis roots at the single-cell level. Molecular Plant, 2021, 14, 372-383.	8.3	153
8	Soybean Metabolites Regulated in Root Hairs in Response to the Symbiotic Bacterium<i>Bradyrhizobium japonicum</i>Â Â Â. Plant Physiology, 2010, 153, 1808-1822.	4.8	132
9	Quantitative Phosphoproteomic Analysis of Soybean Root Hairs Inoculated with Bradyrhizobium japonicum. Molecular and Cellular Proteomics, 2012, 11, 1140-1155.	3.8	126
10	Root hair systems biology. Trends in Plant Science, 2010, 15, 641-650.	8.8	125
11	Plant Systems Biology at the Single-Cell Level. Trends in Plant Science, 2017, 22, 949-960.	8.8	102
12	Soybean Knowledge Base (SoyKB): a web resource for soybean translational genomics. BMC Genomics, 2012, 13, S15.	2.8	93
13	A Comparative Epigenomic Analysis of Polyploidy-Derived Genes in Soybean and Common Bean. Plant Physiology, 2015, 168, 1433-1447.	4.8	88
14	Legume Transcription Factor Genes: What Makes Legumes So Special? Â. Plant Physiology, 2009, 151, 991-1001.	4.8	87
15	A member of the highly conserved FWL (tomato FW2.2-like) gene family is essential for soybean nodule organogenesis. Plant Journal, 2010, 62, 852-864.	5.7	83
16	Identification of micro RNA s and their mRNA targets during soybean nodule development: functional analysis of the role of miR393jâ€3p in soybean nodulation. New Phytologist, 2015, 207, 748-759.	7.3	82
17	Large-Scale Analysis of Putative Soybean Regulatory Gene Expression Identifies a <i>Myb</i> Gene Involved in Soybean Nodule Development Â Â. Plant Physiology, 2009, 151, 1207-1220.	4.8	58
18	Unleashing the potential of the root hair cell as a single plant cell type model in root systems biology. Frontiers in Plant Science, 2013, 4, 484.	3.6	58

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19	Identification and functional characterization of soybean root hair micro<scp>RNA</scp>s expressed in response to <i><scp>B</scp>radyrhizobium japonicum</i> infection. Plant Biotechnology Journal, 2016, 14, 332-341.	8.3	40
20	Isolation of Plant Root Nuclei for Single Cell RNA Sequencing. Current Protocols in Plant Biology, 2020, 5, e20120.	2.8	34
21	Vision, challenges and opportunities for a Plant Cell Atlas. ELife, 2021, 10, .	6.0	31
22	Identification of soybean proteins from a single cell type: The root hair. Proteomics, 2012, 12, 3365-3373.	2.2	29
23	Evolution of FW2.2-like (FWL) and PLAC8 genes in eukaryotes. Plant Signaling and Behavior, 2010, 5, 1226-1228.	2.4	28
24	Plant response to biotic stress: Is there a common epigenetic response during plant-pathogenic and symbiotic interactions?. Plant Science, 2017, 263, 89-93.	3.6	25
25	Phosphate Deficiency Negatively Affects Early Steps of the Symbiosis between Common Bean and Rhizobia. Genes, 2018, 9, 498.	2.4	25
26	The Gm<i>FWL1</i> (<i>FW2â€2â€like</i>) nodulation gene encodes a plasma membrane microdomainâ€associated protein. Plant, Cell and Environment, 2017, 40, 1442-1455.	5.7	23
27	The Carbon-Nitrogen Balance of the Nodule and Its Regulation under Elevated Carbon Dioxide Concentration. BioMed Research International, 2014, 2014, 1-7.	1.9	21
28	Gene Silencing of Argonaute5 Negatively Affects the Establishment of the Legume-Rhizobia Symbiosis. Genes, 2017, 8, 352.	2.4	19
29	Xyloglucan, galactomannan, glucuronoxylan, and rhamnogalacturonan I do not have identical structures in soybean root and root hair cell walls. Planta, 2015, 242, 1123-1138.	3.2	16
30	Plant Single-Cell Multiomics: Cracking the Molecular Profiles of Plant Cells. Trends in Plant Science, 2021, 26, 662-663.	8.8	16
31	Comprehensive Comparative Genomic and Transcriptomic Analyses of the Legume Genes Controlling the Nodulation Process. Frontiers in Plant Science, 2016, 7, 34.	3.6	14
32	A Dual-Targeted Soybean Protein Is Involved in <i>Bradyrhizobium japonicum</i> Infection of Soybean Root Hair and Cortical Cells. Molecular Plant-Microbe Interactions, 2011, 24, 1051-1060.	2.6	10
33	Decipher the Molecular Response of Plant Single Cell Types to Environmental Stresses. BioMed Research International, 2016, 2016, 1-8.	1.9	10
34	Soybean root hairs: A valuable system to investigate plant biology at the cellular level. Plant Signaling and Behavior, 2010, 5, 419-421.	2.4	8
35	Plants Coping Abiotic and Biotic Stresses: A Tale of Diligent Management. BioMed Research International, 2015, 2015, 1-2.	1.9	8
36	Enhancing Phenotyping and Molecular Analysis of Plant Root System Using Ultrasound Aeroponic Technology. Current Protocols in Plant Biology, 2018, 3, e20078.	2.8	8

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37	Biological and Cellular Functions of the Microdomain-Associated FWL/CNR Protein Family in Plants. Plants, 2020, 9, 377.	3.5	8
38	Enhancing Our Understanding of Plant Cell-to-Cell Interactions Using Single-Cell Omics. Frontiers in Plant Science, 2021, 12, 696811.	3.6	8
39	Editorial: Plant Single Cell Type Systems Biology. Frontiers in Plant Science, 2016, 7, 35.	3.6	7
40	Function of plasma membrane microdomain-associated proteins during legume nodulation. Plant Signaling and Behavior, 2017, 12, e1365215.	2.4	5
41	A comparative genomic and transcriptomic analysis at the level of isolated root hair cells reveals new conserved root hair regulatory elements. Plant Molecular Biology, 2017, 94, 641-655.	3.9	5
42	Transcriptional Reprogramming of Legume Genomes: Perspective and Challenges Associated With Single-Cell and Single Cell-Type Approaches During Nodule Development. Frontiers in Plant Science, 2018, 9, 1600.	3.6	4
43	Plant Hormones Differentially Control the Sub-Cellular Localization of Plasma Membrane Microdomains during the Early Stage of Soybean Nodulation. Genes, 2019, 10, 1012.	2.4	3
44	Isolation of Plant Nuclei Compatible with Microfluidic Single-nucleus ATAC-sequencing. Bio-protocol, 2021, 11, e4240.	0.4	3
45	First Plant Cell Atlas symposium report. Plant Direct, 2022, 6, .	1.9	1