Carolina Escobar

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59 2,506 26 49 g-index

63 2,934 5.3 4.89 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
59	Photosynthetic electron transport regulates the expression of cytosolic ascorbate peroxidase genes in Arabidopsis during excess light stress. <i>Plant Cell</i> , 1997 , 9, 627-40	11.6	536
58	Early transcriptomic events in microdissected Arabidopsis nematode-induced giant cells. <i>Plant Journal</i> , 2010 , 61, 698-712	6.9	173
57	Contribution of glutathione to the control of cellular redox homeostasis under toxic metal and metalloid stress. <i>Journal of Experimental Botany</i> , 2015 , 66, 2901-11	7	170
56	Over-expression of the oat arginine decarboxylase cDNA in transgenic rice (Oryza sativa L.) affects normal development patterns in vitro and results in putrescine accumulation in transgenic plants. <i>Theoretical and Applied Genetics</i> , 1998 , 97, 246-254	6	116
55	Are diverse signalling pathways integrated in the regulation of arabidopsis antioxidant defence gene expression in response to excess excitation energy?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2000 , 355, 1531-40	5.8	115
54	Differential alterations of antioxidant defenses as bioindicators of mercury and cadmium toxicity in alfalfa. <i>Chemosphere</i> , 2009 , 77, 946-54	8.4	99
53	Biological Control of Plant-Parasitic Nematodes by Filamentous Fungi Inducers of Resistance: , Mycorrhizal and Endophytic Fungi. <i>Frontiers in Microbiology</i> , 2020 , 11, 992	5.7	79
52	Distinct and conserved transcriptomic changes during nematode-induced giant cell development in tomato compared with Arabidopsis: a functional role for gene repression. <i>New Phytologist</i> , 2013 , 197, 1276-1290	9.8	76
51	Glutathione is a key antioxidant metabolite to cope with mercury and cadmium stress. <i>Plant and Soil</i> , 2014 , 377, 369-381	4.2	70
50	Early transcriptional responses to mercury: a role for ethylene in mercury-induced stress. <i>New Phytologist</i> , 2014 , 201, 116-130	9.8	69
49	Differentially expressed small RNAs in Arabidopsis galls formed by Meloidogyne javanica: a functional role for miR390 and its TAS3-derived tasiRNAs. <i>New Phytologist</i> , 2016 , 209, 1625-40	9.8	63
48	CCS52 and DEL1 genes are key components of the endocycle in nematode-induced feeding sites. <i>Plant Journal</i> , 2012 , 72, 185-98	6.9	59
47	Two closely related members of Arabidopsis 13-lipoxygenases (13-LOXs), LOX3 and LOX4, reveal distinct functions in response to plant-parasitic nematode infection. <i>Molecular Plant Pathology</i> , 2014 , 15, 319-32	5.7	58
46	Characterization of microRNAs from Arabidopsis galls highlights a role for miR159 in the plant response to the root-knot nematode Meloidogyne incognita. <i>New Phytologist</i> , 2017 , 216, 882-896	9.8	46
45	Anatomical Alterations in Plant Tissues Induced by Plant-Parasitic Nematodes. <i>Frontiers in Plant Science</i> , 2017 , 8, 1987	6.2	45
44	Role of hydrogen peroxide and the redox state of ascorbate in the induction of antioxidant enzymes in pea leaves under excess light stress. <i>Functional Plant Biology</i> , 2004 , 31, 359-368	2.7	43
43	Altered sucrose synthase and invertase expression affects the local and systemic sugar metabolism of nematode-infected Arabidopsis thaliana plants. <i>Journal of Experimental Botany</i> , 2014 , 65, 201-12	7	42

(2011-2014)

42	A role for LATERAL ORGAN BOUNDARIES-DOMAIN 16 during the interaction Arabidopsis-Meloidogyne spp. provides a molecular link between lateral root and root-knot nematode feeding site development. <i>New Phytologist</i> , 2014 , 203, 632-645	9.8	40	
41	Overview of Root-Knot Nematodes and Giant Cells. <i>Advances in Botanical Research</i> , 2015 , 73, 1-32	2.2	35	
40	Specific stress responses to cadmium, arsenic and mercury appear in the metallophyte Silene vulgaris when grown hydroponically. <i>RSC Advances</i> , 2013 , 3, 4736	3.7	33	
39	Isolation of RNA from laser-capture-microdissected giant cells at early differentiation stages suitable for differential transcriptome analysis. <i>Molecular Plant Pathology</i> , 2009 , 10, 523-35	5.7	33	
38	Isolation of the LEMMI9 gene and promoter analysis during a compatible plant-nematode interaction. <i>Molecular Plant-Microbe Interactions</i> , 1999 , 12, 440-9	3.6	30	
37	Induction of the Hahsp17.7G4 promoter by root-knot nematodes: involvement of heat-shock elements in promoter activity in giant cells. <i>Molecular Plant-Microbe Interactions</i> , 2003 , 16, 1062-8	3.6	29	
36	The role of glutathione in mercury tolerance resembles its function under cadmium stress in Arabidopsis. <i>Metallomics</i> , 2014 , 6, 356-66	4.5	28	
35	Distinct heat-shock element arrangements that mediate the heat shock, but not the late-embryogenesis induction of small heat-shock proteins, correlate with promoter activation in root-knot nematode feeding cells. <i>Plant Molecular Biology</i> , 2008 , 66, 151-64	4.6	28	
34	Evaluation of different RNA extraction methods for small quantities of plant tissue: Combined effects of reagent type and homogenization procedure on RNA quality-integrity and yield. <i>Physiologia Plantarum</i> , 2006 , 128, 1-7	4.6	28	
33	Phenotyping nematode feeding sites: three-dimensional reconstruction and volumetric measurements of giant cells induced by root-knot nematodes in Arabidopsis. <i>New Phytologist</i> , 2015 , 206, 868-80	9.8	25	
32	NEMATIC: a simple and versatile tool for the in silico analysis of plant-nematode interactions. <i>Molecular Plant Pathology</i> , 2014 , 15, 627-36	5.7	24	
31	Transcriptomic signatures of transfer cells in early developing nematode feeding cells of Arabidopsis focused on auxin and ethylene signaling. <i>Frontiers in Plant Science</i> , 2014 , 5, 107	6.2	24	
30	A role for the gene regulatory module microRNA172/TARGET OF EARLY ACTIVATION TAGGED 1/FLOWERING LOCUS T (miRNA172/TOE1/FT) in the feeding sites induced by Meloidogyne javanica in Arabidopsis thaliana. <i>New Phytologist</i> , 2018 , 217, 813-827	9.8	24	
29	Root-Knot and Cyst Nematodes Activate Procambium-Associated Genes in Roots. <i>Frontiers in Plant Science</i> , 2017 , 8, 1195	6.2	21	
28	Are plant endogenous factors like ethylene modulators of the early oxidative stress induced by mercury?. <i>Frontiers in Environmental Science</i> , 2014 , 2,	4.8	21	
27	Arabidopsis HIPP27 is a host susceptibility gene for the beet cyst nematode Heterodera schachtii. <i>Molecular Plant Pathology</i> , 2018 , 19, 1917	5.7	20	
26	Antioxidant enzyme induction in pea plants under high irradiance. <i>Biologia Plantarum</i> , 2006 , 50, 395-399	92.1	19	
25	Transcriptomic and Proteomic Analysis of the Plant Response to Nematode Infection 2011 , 157-173		17	

24	Root-knot nematodes induce gall formation by recruiting developmental pathways of post-embryonic organogenesis and regeneration to promote transient pluripotency. <i>New Phytologist</i> , 2020 , 227, 200-215	9.8	15
23	A Phenotyping Method of Giant Cells from Root-Knot Nematode Feeding Sites by Confocal Microscopy Highlights a Role for CHITINASE-LIKE 1 in Arabidopsis. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	14
22	Developmental Pathways Mediated by Hormones in Nematode Feeding Sites. <i>Advances in Botanical Research</i> , 2015 , 73, 167-188	2.2	13
21	Silenced retrotransposons are major rasiRNAs targets in Arabidopsis galls induced by Meloidogyne javanica. <i>Molecular Plant Pathology</i> , 2018 , 19, 2431-2445	5.7	13
20	Molecular Transducers from Roots Are Triggered in Arabidopsis Leaves by Root-Knot Nematodes for Successful Feeding Site Formation: A Conserved Post-Embryogenic Organogenesis Program?. <i>Frontiers in Plant Science</i> , 2017 , 8, 875	6.2	13
19	Laser microdissection of cells and isolation of high-quality RNA after cryosectioning. <i>Methods in Molecular Biology</i> , 2012 , 883, 87-95	1.4	13
18	Long-Term In Vitro System for Maintenance and Amplification of Root-Knot Nematodes in Cucumis sativus Roots. <i>Frontiers in Plant Science</i> , 2016 , 7, 124	6.2	13
17	Genes co-regulated with LBD16 in nematode feeding sites inferred from in silico analysis show similarities to regulatory circuits mediated by the auxin/cytokinin balance in Arabidopsis. <i>Plant Signaling and Behavior</i> , 2015 , 10, e990825	2.5	12
16	Transient expression of Arabidopsis thaliana ascorbate peroxidase 3 in Nicotiana benthamiana plants infected with recombinant potato virus X. <i>Plant Cell Reports</i> , 2003 , 21, 699-704	5.1	10
15	A Standardized Method to Assess Infection Rates of Root-Knot and Cyst Nematodes in Arabidopsis thaliana Mutants with Alterations in Root Development Related to Auxin and Cytokinin Signaling. <i>Methods in Molecular Biology</i> , 2017 , 1569, 73-81	1.4	7
14	A Reliable Protocol for In situ microRNAs Detection in Feeding Sites Induced by Root-Knot Nematodes. <i>Frontiers in Plant Science</i> , 2016 , 7, 966	6.2	7
13	The Role of Programmed Cell Death Regulator in Nematode-Induced Syncytium Formation. <i>Frontiers in Plant Science</i> , 2018 , 9, 314	6.2	6
12	Heavy Metal Perception in a Microscale Environment: A Model System Using High Doses of Pollutants 2012 , 23-39		6
11	The Power of Omics to Identify Plant Susceptibility Factors and to Study Resistance to Root-knot Nematodes. <i>Current Issues in Molecular Biology</i> , 2016 , 19, 53-72	2.9	6
10	Novel expression patterns of phosphatidylinositol 3-hydroxy kinase in nodulated Medicago spp. plants. <i>Journal of Experimental Botany</i> , 2004 , 55, 957-9	7	5
9	Activation of geminivirus V-sense promoters in roots is restricted to nematode feeding sites. <i>Molecular Plant Pathology</i> , 2010 , 11, 409-17	5.7	4
8	Non-coding RNAs in the interaction between rice and Meloidogyne graminicola. <i>BMC Genomics</i> , 2021 , 22, 560	4.5	3
7	A role for ALF4 during gall and giant cell development in the biotic interaction between Arabidopsis and Meloidogyne spp. <i>Physiologia Plantarum</i> , 2019 , 165, 17-28	4.6	2

LIST OF PUBLICATIONS

6	The Use of Biochar for Plant Pathogen Control. <i>Phytopathology</i> , 2021 , PHYTO06200248RVW	3.8	2
5	Glucosinolates as an effective tool in plant-parasitic nematodes control: Exploiting natural plant defenses. <i>Applied Soil Ecology</i> , 2022 , 176, 104497	5	2
4	sRNAs involved in the regulation of plant developmental processes are altered during the root-knot nematode interaction for feeding site formation. <i>European Journal of Plant Pathology</i> , 2018 , 152, 945-955	2.1	1
3	Belowground Defence Strategies Against Sedentary Nematodes. <i>Signaling and Communication in Plants</i> , 2016 , 221-251	1	1
2	Laser Microdissection of Cells and Isolation of High-Quality RNA After Cryosectioning. <i>Methods in Molecular Biology</i> , 2021 , 2170, 35-43	1.4	O
1	Compatible interactions between plants and endoparasitic nematodes follow-up of ABR volume 73: Plant nematode interactions view on compatible interrelationships. <i>Advances in Botanical Research</i> , 2021 , 237-248	2.2	Ο