Carmen Fenoll

List of Publications by Citations

64 papers	1,742 citations	24 h-index	40 g-index
69 ext. papers	2,161 ext. citations	6.9 avg, IF	4.43 L-index

#	Paper	IF	Citations
64	Gene expression in nematode feeding sites. *Annual Review of Phytopathology*, **2002**, 40, 191-219	10.8	246
63	Early transcriptomic events in microdissected Arabidopsis nematode-induced giant cells. *Plant Journal*, **2010**, 61, 698-712	6.9	173
62	POLAR-guided signalling complex assembly and localization drive asymmetric cell division. *Nature*, **2018**, 563, 574-578	50.4	82
61	Distinct and conserved transcriptomic changes during nematode-induced giant cell development in tomato compared with Arabidopsis: a functional role for gene repression. *New Phytologist*, **2013**, 197, 1276-1290	9.8	76
60	Tracing the ontogeny of stomatal clusters in Arabidopsis with molecular markers. *Plant Journal*, **1997**, 12, 747-55	6.9	67
59	The two nonstructural proteins from wheat dwarf virus involved in viral gene expression and replication are retinoblastoma-binding proteins. *Virology*, **1996**, 219, 324-9	3.6	65
58	Differentially expressed small RNAs in Arabidopsis galls formed by Meloidogyne javanica: a functional role for miR390 and its TAS3-derived tasiRNAs. *New Phytologist*, **2016**, 209, 1625-40	9.8	63
57	The TRANSPLANTA collection of Arabidopsis lines: a resource for functional analysis of transcription factors based on their conditional overexpression. *Plant Journal*, **2014**, 77, 944-53	6.9	61
56	The intergenic region of maize streak virus contains a GC-rich element that activates rightward transcription and binds maize nuclear factors. *Plant Molecular Biology*, **1990**, 15, 865-77	4.6	42
55	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. *New Phytologist*, **2014**, 203, 632-645	9.8	40
54	Overview of Root-Knot Nematodes and Giant Cells. *Advances in Botanical Research*, **2015**, 73, 1-32	2.2	35
53	The intergenic region of maize streak virus contains promoter elements involved in rightward transcription of the viral genome. *EMBO Journal*, **1988**, 7, 1589-1596	13	35
52	Isolation of RNA from laser-capture-microdissected giant cells at early differentiation stages suitable for differential transcriptome analysis. *Molecular Plant Pathology*, **2009**, 10, 523-35	5.7	33
51	Natural variation in stomatal abundance of Arabidopsis thaliana includes cryptic diversity for different developmental processes. *Annals of Botany*, **2011**, 107, 1247-58	4.1	32
50	Clonal analysis of stomatal development and patterning in Arabidopsis leaves. *Developmental Biology*, **2002**, 241, 24-33	3.1	31
49	Stomatal development in Arabidopsis: how to make a functional pattern. *Trends in Plant Science*, **2000**, 5, 458-60	13.1	31
48	Isolation of the LEMMI9 gene and promoter analysis during a compatible plant-nematode interaction. *Molecular Plant-Microbe Interactions*, **1999**, 12, 440-9	3.6	30

47	Induction of the Hahsp17.7G4 promoter by root-knot nematodes: involvement of heat-shock elements in promoter activity in giant cells. *Molecular Plant-Microbe Interactions*, **2003**, 16, 1062-8	3.6	29
46	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. *Plant Molecular Biology*, **2008**, 66, 151-64	4.6	28
45	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. *Physiologia Plantarum*, **2006**, 128, 1-7	4.6	28
44	Phenotyping nematode feeding sites: three-dimensional reconstruction and volumetric measurements of giant cells induced by root-knot nematodes in Arabidopsis. *New Phytologist*, **2015** , 206, 868-80	9.8	25
43	Overexpression of a Gene From Wild Tomato Decreases Stomatal Density and Enhances Dehydration Avoidance in Arabidopsis and Cultivated Tomato. *Frontiers in Plant Science*, **2018**, 9, 940	6.2	25
42	NEMATIC: a simple and versatile tool for the in silico analysis of plant-nematode interactions. *Molecular Plant Pathology*, **2014**, 15, 627-36	5.7	24
41	Transcriptomic signatures of transfer cells in early developing nematode feeding cells of Arabidopsis focused on auxin and ethylene signaling. *Frontiers in Plant Science*, **2014**, 5, 107	6.2	24
40	Stomatal development and patterning in Arabidopsis leaves. *Physiologia Plantarum*, **2000**, 109, 351-358	4.6	24
39	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. *New Phytologist*, **2018**, 217, 813-827	9.8	24
38	Dynamic analysis of epidermal cell divisions identifies specific roles for COP10 in Arabidopsis stomatal lineage development. *Planta*, **2012**, 236, 447-61	4.7	21
37	On the mechanism of respiratory and photosynthetic electron transfer in Rhodospirillum rubrum. *Biochimica Et Biophysica Acta - Bioenergetics*, **1987**, 892, 172-184	4.6	17
36	A Mutation in the bHLH Domain of the SPCH Transcription Factor Uncovers a BR-Dependent Mechanism for Stomatal Development. *Plant Physiology*, **2017**, 174, 823-842	6.6	16
35	Timely expression of the Arabidopsis stoma-fate master regulator MUTE is required for specification of other epidermal cell types. *Plant Journal*, **2013**, 75, 808-22	6.9	16
34	Regulation of MSV and WDV virion-sense promoters by WDV nonstructural proteins: a role for their retinoblastoma protein-binding motifs. *Virology*, **2003**, 306, 313-23	3.6	16
33	Differential activation of ABI3 and LEA genes upon plant parasitic nematode infection. *Molecular Plant Pathology*, **2005**, 6, 321-5	5.7	16
32	Construction and Homologous Expression of a Maize Adh1 Based NcoI Cassette Vector. *Plant Physiology*, **1987**, 85, 327-30	6.6	16
31	Root-knot nematodes induce gall formation by recruiting developmental pathways of post-embryonic organogenesis and regeneration to promote transient pluripotency. *New Phytologist*, **2020**, 227, 200-215	9.8	15
30	A Phenotyping Method of Giant Cells from Root-Knot Nematode Feeding Sites by Confocal Microscopy Highlights a Role for CHITINASE-LIKE 1 in Arabidopsis. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	14

29	Developmental Pathways Mediated by Hormones in Nematode Feeding Sites. *Advances in Botanical Research*, **2015**, 73, 167-188	2.2	13
28	Silenced retrotransposons are major rasiRNAs targets in Arabidopsis galls induced by Meloidogyne javanica. *Molecular Plant Pathology*, **2018**, 19, 2431-2445	5.7	13
27	Molecular Transducers from Roots Are Triggered in Arabidopsis Leaves by Root-Knot Nematodes for Successful Feeding Site Formation: A Conserved Post-Embryogenic Organogenesis Program?. *Frontiers in Plant Science*, **2017**, 8, 875	6.2	13
26	Laser microdissection of cells and isolation of high-quality RNA after cryosectioning. *Methods in Molecular Biology*, **2012**, 883, 87-95	1.4	13
25	Long-Term In Vitro System for Maintenance and Amplification of Root-Knot Nematodes in Cucumis sativus Roots. *Frontiers in Plant Science*, **2016**, 7, 124	6.2	13
24	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. *Plant Signaling and Behavior*, **2015**, 10, e990825	2.5	12
23	Simultaneous presence of two terminal oxidases in the respiratory system of dark aerobically grown Rhodospirillum rubrum. *Archives of Microbiology*, **1984**, 137, 42-46	3	11
22	The Tomato Genome Encodes SPCH, MUTE, and FAMA Candidates That Can Replace the Endogenous Functions of Their Orthologs. *Frontiers in Plant Science*, **2019**, 10, 1300	6.2	11
21	Too many faces for TOO MANY MOUTHS?. *New Phytologist*, **2016**, 210, 779-85	9.8	9
20	Specification of stomatal fate in Arabidopsis: evidences for cellular interactions. *New Phytologist*, **2002**, 153, 399-404	9.8	9
19	Regulation of Gene Expression in Feeding Sites. *Developments in Plant Pathology*, **1997**, 133-149		8
18	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. *Methods in Molecular Biology*, **2017**, 1569, 73-81	1.4	7
17	Transcriptional profiles of Arabidopsis stomataless mutants reveal developmental and physiological features of life in the absence of stomata. *Frontiers in Plant Science*, **2015**, 6, 456	6.2	7
16	A Reliable Protocol for In situ microRNAs Detection in Feeding Sites Induced by Root-Knot Nematodes. *Frontiers in Plant Science*, **2016**, 7, 966	6.2	7
15	The membrane potential of intact Rhodospirillum rubrum cells in the absence of light-dependent and oxygen-linked electron transfer. *Biochimica Et Biophysica Acta - Bioenergetics*, **1985**, 806, 168-174	4.6	6
14	The Power of Omics to Identify Plant Susceptibility Factors and to Study Resistance to Root-knot Nematodes. *Current Issues in Molecular Biology*, **2016**, 19, 53-72	2.9	6
13	Activation of geminivirus V-sense promoters in roots is restricted to nematode feeding sites. *Molecular Plant Pathology*, **2010**, 11, 409-17	5.7	4
12	Purification of a light-harvesting B880 complex from wild-type Rhodospirillum rubrum. *Analytical Biochemistry*, **1986**, 152, 29-34	3.1	4

List of Publications

11	A Genetic Dissection of Natural Variation for Stomatal Abundance Traits in. *Frontiers in Plant Science*, **2019**, 10, 1392	6.2	4
10	Arabidopsis as a Tool for the Study of Plant-Nematode Interactions **2011**, 139-156		3
9	Roles of constitutive photomorphogenic 10 in Arabidopsis stomata development. *Plant Signaling and Behavior*, **2012**, 7, 990-3	2.5	3
8	Stomatal precursors in Arabidopsis: prohibiting the fulfilment of a general rule. *New Phytologist*, **2003**, 158, 427-430	9.8	3
7	A role for ALF4 during gall and giant cell development in the biotic interaction between Arabidopsis and Meloidogyne spp. *Physiologia Plantarum*, **2019**, 165, 17-28	4.6	2
6	sRNAs involved in the regulation of plant developmental processes are altered during the root-knot nematode interaction for feeding site formation. *European Journal of Plant Pathology*, **2018**, 152, 945-955	2.1	1
5	Belowground Defence Strategies Against Sedentary Nematodes. *Signaling and Communication in Plants*, **2016**, 221-251	1	1
4	Cis-Elements In Nematode-Responsive Promoters. *Developments in Plant Genetics and Breeding*, **2000**, 6, 177-182		1
3	Laser Microdissection of Cells and Isolation of High-Quality RNA After Cryosectioning. *Methods in Molecular Biology*, **2021**, 2170, 35-43	1.4	0
2	Compatible interactions between plants and endoparasitic nematodes: a follow-up of ABR volume 73: Plant nematode interactions: a view on compatible interrelationships. *Advances in Botanical Research*, **2021**, 237-248	2.2	0
1	Concerted Efforts To Develop Handles For Plant Parasitic Nematode Control. *Developments in Plant Genetics and Breeding*, **2000**, 6, 159-167		