

Melissa G Mitchum

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

5,686
citations

76326

40
h-index

79698

73
g-index

84
all docs

84
docs citations

84
times ranked

3505
citing authors

#	ARTICLE	IF	CITATIONS
1	<scp>Patternâ€triggered</scp> immunity against <scp>rootâ€knot</scp> nematode infection: A minireview. <i>Physiologia Plantarum</i> , 2022, 174, e13680.	5.2	9
2	Epistatic interaction between Rhg1-a and Rhg2 in PI 90763 confers resistance to virulent soybean cyst nematode populations. <i>Theoretical and Applied Genetics</i> , 2022, 135, 2025-2039.	3.6	7
3	Registration of â€S13â€10592Câ€™™, a highâ€yielding soybean cultivar with resistance to multiple diseases and elevated oil content. <i>Journal of Plant Registrations</i> , 2022, 16, 252-261.	0.5	1
4	Peptide Effectors in Phytonematode Parasitism and Beyond. <i>Annual Review of Phytopathology</i> , 2022, 60, 97-119.	7.8	10
5	â€S16â€7922Câ€™™: A semiâ€determinate maturity group IV conventional soybean cultivar with high yield and broad disease resistance. <i>Journal of Plant Registrations</i> , 2022, 16, 300-315.	0.5	2
6	At the molecular plantâ€nematode interface: New players and emerging paradigms. <i>Current Opinion in Plant Biology</i> , 2022, 67, 102225.	7.1	10
7	Phytonematode peptide effectors exploit a host postâ€translational trafficking mechanism to the ER using a novel translocation signal. <i>New Phytologist</i> , 2021, 229, 563-574.	7.3	24
8	Resistance Gene Pyramiding and Rotation to Combat Widespread Soybean Cyst Nematode Virulence. <i>Plant Disease</i> , 2021, 105, 3238-3243.	1.4	9
9	A major quantitative trait locus resistant to southern rootâ€knot nematode sustains soybean yield under nematode pressure. <i>Crop Science</i> , 2021, 61, 1773-1782.	1.8	15
10	Esophageal Gland RNA-Seq Resource of a Virulent and Avirulent Population of the Soybean Cyst Nematode <i>Heterodera glycines</i>. <i>Molecular Plant-Microbe Interactions</i> , 2021, 34, 1084-1087.	2.6	7
11	Screening soybean cyst nematode effectors for their ability to suppress plant immunity. <i>Molecular Plant Pathology</i> , 2020, 21, 1240-1247.	4.2	24
12	Targeted suppression of soybean BAG6â€induced cell death in yeast by soybean cyst nematode effectors. <i>Molecular Plant Pathology</i> , 2020, 21, 1227-1239.	4.2	9
13	Registration of â€S14â€15146GTâ€™™ soybean, a highâ€yielding RR1 cultivar with high oil content and broad disease resistance and adaptation. <i>Journal of Plant Registrations</i> , 2020, 14, 35-42.	0.5	9
14	Impaired folate binding of serine hydroxymethyltransferase 8 from soybean underlies resistance to the soybean cyst nematode. <i>Journal of Biological Chemistry</i> , 2020, 295, 3708-3718.	3.4	13
15	Focus Issue Editorial: Biotic Stress. <i>Plant Physiology</i> , 2019, 179, 1193-1195.	4.8	1
16	The genome of the soybean cyst nematode (<i>Heterodera glycines</i>) reveals complex patterns of duplications involved in the evolution of parasitism genes. <i>BMC Genomics</i> , 2019, 20, 119.	2.8	55
17	Phytoparasitic Nematode Control of Plant Hormone Pathways. <i>Plant Physiology</i> , 2019, 179, 1212-1226.	4.8	94
18	Novel global effector mining from the transcriptome of early life stages of the soybean cyst nematode <i>Heterodera glycines</i> . <i>Scientific Reports</i> , 2018, 8, 2505.	3.3	31

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19	Survey of <i>Heterodera glycines</i> Population Densities and Virulence Phenotypes During 2015–2016 in Missouri. <i>Plant Disease</i> , 2018, 102, 2407-2410.	1.4	35
20	The plant-parasitic cyst nematode effector GLAND4 is a DNA-binding protein. <i>Molecular Plant Pathology</i> , 2018, 19, 2263-2276.	4.2	31
21	The novel cyst nematode effector protein 30D08 targets host nuclear functions to alter gene expression in feeding sites. <i>New Phytologist</i> , 2018, 219, 697-713.	7.3	38
22	Novel RNA viruses within plant parasitic cyst nematodes. <i>PLoS ONE</i> , 2018, 13, e0193881.	2.5	15
23	Genetics and Adaptation of Soybean Cyst Nematode to Broad Spectrum Soybean Resistance. <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 835-841.	1.8	23
24	The soybean GmSNAP18 gene underlies two types of resistance to soybean cyst nematode. <i>Nature Communications</i> , 2017, 8, 14822.	12.8	91
25	Systematic Mutagenesis of Serine Hydroxymethyltransferase Reveals an Essential Role in Nematode Resistance. <i>Plant Physiology</i> , 2017, 175, 1370-1380.	4.8	43
26	Divergent expression of cytokinin biosynthesis, signaling and catabolism genes underlying differences in feeding sites induced by cyst and root-knot nematodes. <i>Plant Journal</i> , 2017, 92, 211-228.	5.7	42
27	Soybean cyst nematode culture collections and field populations from North Carolina and Missouri reveal high incidences of infection by viruses. <i>PLoS ONE</i> , 2017, 12, e0171514.	2.5	13
28	Identification of cyst nematode B-type CLE peptides and modulation of the vascular stem cell pathway for feeding cell formation. <i>PLoS Pathogens</i> , 2017, 13, e1006142.	4.7	58
29	A <i>Plasmodium</i> -like virulence effector of the soybean cyst nematode suppresses plant innate immunity. <i>New Phytologist</i> , 2016, 212, 444-460.	7.3	47
30	A cyst nematode effector binds to diverse plant proteins, increases nematode susceptibility and affects root morphology. <i>Molecular Plant Pathology</i> , 2016, 17, 832-844.	4.2	32
31	The <i>A</i> rhabdopsis immune regulator <i>SRFR1</i> dampens defences against herbivory by <i>S</i> and parasitism by <i>Heterodera schachtii</i> . <i>Molecular Plant Pathology</i> , 2016, 17, 588-600.	4.2	11
32	Soybean Resistance to the Soybean Cyst Nematode <i>Heterodera glycines</i> : An Update. <i>Phytopathology</i> , 2016, 106, 1444-1450.	2.2	101
33	In Planta Processing and Glycosylation of a Nematode CLAVATA3/ENDOSPERM SURROUNDING REGION-Like Effector and Its Interaction with a Host CLAVATA2-Like Receptor to Promote Parasitism. <i>Plant Physiology</i> , 2015, 167, 262-272.	4.8	52
34	Enhanced resistance to soybean cyst nematode <i>Heterodera glycines</i> in transgenic soybean by silencing putative <i>CLE</i> receptors. <i>Plant Biotechnology Journal</i> , 2015, 13, 801-810.	8.3	59
35	Emerging Roles of Cyst Nematode Effectors in Exploiting Plant Cellular Processes. <i>Advances in Botanical Research</i> , 2015, 73, 259-291.	1.1	17
36	The Cyst Nematode Effector Protein 10A07 Targets and Recruits Host Posttranslational Machinery to Mediate Its Nuclear Trafficking and to Promote Parasitism in Arabidopsis. <i>Plant Cell</i> , 2015, 27, 891-907.	6.6	84

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37	Eighteen New Candidate Effectors of the Phytonematode <i>Heterodera glycines</i> Produced Specifically in the Secretary Esophageal Gland Cells During Parasitism. <i>Phytopathology</i> , 2015, 105, 1362-1372.	2.2	57
38	A parasitic nematode releases cytokinin that controls cell division and orchestrates feeding site formation in host plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12669-12674.	7.1	113
39	Members of the <i>Meloidogyne</i> Avirulence Protein Family Contain Multiple Plant Ligand-Like Motifs. <i>Phytopathology</i> , 2014, 104, 879-885.	2.2	29
40	A virus-induced gene silencing method to study soybean cyst nematode parasitism in <i>Glycine max</i> . <i>BMC Research Notes</i> , 2013, 6, 255.	1.4	28
41	Synergistic Interaction of CLAVATA1, CLAVATA2, and RECEPTOR-LIKE PROTEIN KINASE 2 in Cyst Nematode Parasitism of <i>Arabidopsis</i> . <i>Molecular Plant-Microbe Interactions</i> , 2013, 26, 87-96.	2.6	55
42	War of the worms: how plants fight underground attacks. <i>Current Opinion in Plant Biology</i> , 2013, 16, 457-463.	7.1	30
43	Nematode effector proteins: an emerging paradigm of parasitism. <i>New Phytologist</i> , 2013, 199, 879-894.	7.3	269
44	The interaction of the novel 30C02 cyst nematode effector protein with a plant Î²-1,3-endoglucanase may suppress host defence to promote parasitism. <i>Journal of Experimental Botany</i> , 2012, 63, 3683-3695.	4.8	80
45	Role of Nematode Peptides and Other Small Molecules in Plant Parasitism. <i>Annual Review of Phytopathology</i> , 2012, 50, 175-195.	7.8	89
46	A soybean cyst nematode resistance gene points to a new mechanism of plant resistance to pathogens. <i>Nature</i> , 2012, 492, 256-260.	27.8	332
47	Temporal and spatial <i>Bean pod mottle virus</i> -induced gene silencing in soybean. <i>Molecular Plant Pathology</i> , 2012, 13, 1140-1148.	4.2	19
48	Nematode CLE signaling in <i>Arabidopsis</i> requires CLAVATA2 and CORYNE. <i>Plant Journal</i> , 2011, 65, 430-440.	5.7	108
49	Identification of potential host plant mimics of CLAVATA3/ESR (CLE)-like peptides from the plant-parasitic nematode <i>Heterodera schachtii</i> . <i>Molecular Plant Pathology</i> , 2011, 12, 177-186.	4.2	95
50	How nematodes manipulate plant development pathways for infection. <i>Current Opinion in Plant Biology</i> , 2011, 14, 415-421.	7.1	260
51	Soybean cyst nematode resistance in soybean is independent of the Rhg4 locus LRR-RLK gene. <i>Functional and Integrative Genomics</i> , 2011, 11, 539-549.	3.5	40
52	The Novel Cyst Nematode Effector Protein 19C07 Interacts with the <i>Arabidopsis</i> Auxin Influx Transporter LAX3 to Control Feeding Site Development. <i>Plant Physiology</i> , 2011, 155, 866-880.	4.8	141
53	The Soybean <i>Rhg1</i> Locus for Resistance to the Soybean Cyst Nematode <i>Heterodera glycines</i> Regulates the Expression of a Large Number of Stress- and Defense-Related Genes in Degenerating Feeding Cells. <i>Plant Physiology</i> , 2011, 155, 1960-1975.	4.8	102
54	Transcriptomic and Proteomic Analysis of the Plant Response to Nematode Infection. , 2011, , 157-173.		23

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55	Dual roles for the variable domain in protein trafficking and host-specific recognition of <i>Heterodera glycines</i> CLE effector proteins. <i>New Phytologist</i> , 2010, 187, 1003-1017.	7.3	116
56	<i>Arabidopsis</i> Spermidine Synthase Is Targeted by an Effector Protein of the Cyst Nematode <i>Heterodera schachtii</i> . <i>Plant Physiology</i> , 2010, 152, 968-984.	4.8	189
57	A nematode effector protein similar to annexins in host plants. <i>Journal of Experimental Botany</i> , 2010, 61, 235-248.	4.8	114
58	Variable domain I of nematode CLEs directs post-translational targeting of CLE peptides to the extracellular space. <i>Plant Signaling and Behavior</i> , 2010, 5, 1633-1635.	2.4	21
59	A High-Throughput Automated Technique for Counting Females of <i>Heterodera glycines</i> using a Fluorescence-Based Imaging System. <i>Journal of Nematology</i> , 2010, 42, 201-6.	0.9	14
60	Effective and specific in planta RNAi in cyst nematodes: expression interference of four parasitism genes reduces parasitic success. <i>Journal of Experimental Botany</i> , 2009, 60, 315-324.	4.8	144
61	Molecular Insights in the Susceptible Plant Response to Nematode Infection. <i>Plant Cell Monographs</i> , 2009, , 45-81.	0.4	47
62	Structural and Functional Diversity of <i>CLAVATA3/ESR</i> (<i>CLE</i>)-Like Genes from the Potato Cyst Nematode <i>Globodera rostochiensis</i> . <i>Molecular Plant-Microbe Interactions</i> , 2009, 22, 1128-1142.	2.6	96
63	Diverse and conserved roles of CLE peptides. <i>Current Opinion in Plant Biology</i> , 2008, 11, 75-81.	7.1	94
64	Parasitism proteins in nematode-plant interactions. <i>Current Opinion in Plant Biology</i> , 2008, 11, 360-366.	7.1	223
65	Potential Sites of Bioactive Gibberellin Production during Reproductive Growth in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2008, 20, 320-336.	6.6	209
66	Cellulose Binding Protein from the Parasitic Nematode <i>Heterodera schachtii</i> Interacts with <i>Arabidopsis</i> Pectin Methyltransferase: Cooperative Cell Wall Modification during Parasitism. <i>Plant Cell</i> , 2008, 20, 3080-3093.	6.6	201
67	Molecular Insights in the Susceptible Plant Response to Nematode Infection. <i>Plant Cell Monographs</i> , 2008, , 45.	0.4	12
68	Genomics of the Soybean Cyst Nematode-Soybean Interaction. , 2008, , 321-341.		7
69	Variability in Distribution and Virulence Phenotypes of <i>Heterodera glycines</i> in Missouri During 2005. <i>Plant Disease</i> , 2007, 91, 1473-1476.	1.4	75
70	Parallel Genome-Wide Expression Profiling of Host and Pathogen During Soybean Cyst Nematode Infection of Soybean. <i>Molecular Plant-Microbe Interactions</i> , 2007, 20, 293-305.	2.6	197
71	Developmental Transcript Profiling of Cyst Nematode Feeding Cells in Soybean Roots. <i>Molecular Plant-Microbe Interactions</i> , 2007, 20, 510-525.	2.6	240
72	The tobacco <i>Cel7</i> gene promoter is auxin-responsive and locally induced in nematode feeding sites of heterologous plants. <i>Molecular Plant Pathology</i> , 2007, 8, 423-436.	4.2	50

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73	Distinct and overlapping roles of two gibberellin 3-oxidases in Arabidopsis development. Plant Journal, 2006, 45, 804-818.	5.7	282
74	A parasitism gene from a plant-parasitic nematode with function similar to CLAVATA3/ESR (CLE) of Arabidopsis thaliana. Molecular Plant Pathology, 2005, 6, 187-191.	4.2	215
75	Nematodes. Sophisticated Parasites of Legumes. Plant Physiology, 2005, 137, 1182-1188.	4.8	70
76	The promoter of the Arabidopsis thaliana Cel1 endo-1,4-beta glucanase gene is differentially expressed in plant feeding cells induced by root-knot and cyst nematodes. Molecular Plant Pathology, 2004, 5, 175-181.	4.2	44
77	TILLING: A Reverse Genetics and a Functional Genomics Tool in Soybean. , 0, , 251-265.		12
78	Registration of "S16"5540GT"™ soybean cultivar with high yield, resistance to multiple diseases, elevated protein content, and wide adaptation. Journal of Plant Registrations, 0, , .	0.5	2
79	Registration of "S16"15170C"™ soybean: A high-yielding indeterminate maturity group V cultivar with wide adaptability and multiple disease resistance. Journal of Plant Registrations, 0, , .	0.5	1
80	"ShowMeSoy 4301"™: High-yielding soybean with multiple disease resistance and elevated seed oil content. Journal of Plant Registrations, 0, , .	0.5	0
81	Registration of "S16"11651C"™, a conventional soybean cultivar with high yield, resistance to multiple diseases, and broad adaptation. Journal of Plant Registrations, 0, , .	0.5	0
82	Registration of "S15"10434C"™ soybean cultivar with high yield, resistance to multiple diseases, and wide adaptation. Journal of Plant Registrations, 0, , .	0.5	1