

Gloria K Muday

List of Publications by Year in descending order

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94
papers

10,979
citations

38742

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docs citations

98
times ranked

9350
citing authors

#	ARTICLE	IF	CITATIONS
1	Flavonoids Act as Negative Regulators of Auxin Transport in Vivo in Arabidopsis. <i>Plant Physiology</i> , 2001, 126, 524-535.	4.8	691
2	Inhibition of Auxin Movement from the Shoot into the Root Inhibits Lateral Root Development in Arabidopsis. <i>Plant Physiology</i> , 1998, 118, 1369-1378.	4.8	422
3	Auxin and ethylene: collaborators or competitors?. <i>Trends in Plant Science</i> , 2012, 17, 181-195.	8.8	372
4	The transparent testa4 Mutation Prevents Flavonoid Synthesis and Alters Auxin Transport and the Response of Arabidopsis Roots to Gravity and Light[W]. <i>Plant Cell</i> , 2004, 16, 1191-1205.	6.6	356
5	Basipetal Auxin Transport Is Required for Gravitropism in Roots of Arabidopsis. <i>Plant Physiology</i> , 2000, 122, 481-490.	4.8	341
6	Flavonoid Accumulation Patterns of Transparent Testa Mutants of Arabidopsis. <i>Plant Physiology</i> , 2001, 126, 536-548.	4.8	312
7	Brassinosteroids Interact with Auxin to Promote Lateral Root Development in Arabidopsis. <i>Plant Physiology</i> , 2004, 134, 1624-1631.	4.8	306
8	Reduced naphthylphthalamic acid binding in the tir3 mutant of Arabidopsis is associated with a reduction in polar auxin transport and diverse morphological defects.. <i>Plant Cell</i> , 1997, 9, 745-757.	6.6	303
9	Ethylene regulates lateral root formation and auxin transport in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2008, 55, 175-187.	5.7	294
10	Nitric oxide causes root apical meristem defects and growth inhibition while reducing PIN-FORMED 1 (PIN1)-dependent acropetal auxin transport. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 18506-18511.	7.1	283
11	Auxin and Ethylene Induce Flavonol Accumulation through Distinct Transcriptional Networks. <i>Plant Physiology</i> , 2011, 156, 144-164.	4.8	271
12	Genetic and Chemical Reductions in Protein Phosphatase Activity Alter Auxin Transport, Gravity Response, and Lateral Root Growth. <i>Plant Cell</i> , 2001, 13, 1683-1697.	6.6	264
13	Ethylene-auxin interactions regulate lateral root initiation and emergence in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2008, 55, 335-347.	5.7	260
14	Polar auxin transport: controlling where and how much. <i>Trends in Plant Science</i> , 2001, 6, 535-542.	8.8	254
15	Ethylene inhibits lateral root development, increases IAA transport and expression of PIN3 and PIN7 auxin efflux carriers. <i>Development (Cambridge)</i> , 2011, 138, 3485-3495.	2.5	232
16	Genetic dissection of the role of ethylene in regulating auxin-dependent lateral and adventitious root formation in tomato. <i>Plant Journal</i> , 2010, 61, 3-15.	5.7	230
17	Flavonols control pollen tube growth and integrity by regulating ROS homeostasis during high-temperature stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E11188-E11197.	7.1	226
18	Flavonoids Are Differentially Taken Up and Transported Long Distances in Arabidopsis. <i>Plant Physiology</i> , 2007, 145, 478-490.	4.8	219

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19	<i>Arabidopsis</i> SMALL AUXIN UP RNA63 promotes hypocotyl and stamen filament elongation. <i>Plant Journal</i> , 2012, 71, 684-697.	5.7	219
20	RBOH-Dependent ROS Synthesis and ROS Scavenging by Plant Specialized Metabolites To Modulate Plant Development and Stress Responses. <i>Chemical Research in Toxicology</i> , 2019, 32, 370-396.	3.3	210
21	Ethylene Modulates Flavonoid Accumulation and Gravitropic Responses in Roots of <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2006, 140, 1384-1396.	4.8	190
22	Auxin Transport. , 1995, , 509-530.		188
23	Opposite Root Growth Phenotypes of <i>hy5</i> versus <i>hy5 hyh</i> Mutants Correlate with Increased Constitutive Auxin Signaling. <i>PLoS Genetics</i> , 2006, 2, e202.	3.5	186
24	Transcription factor WRKY23 assists auxin distribution patterns during <i>Arabidopsis</i> root development through local control on flavonol biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 1554-1559.	7.1	184
25	Ethylene-Induced Flavonol Accumulation in Guard Cells Suppresses Reactive Oxygen Species and Moderates Stomatal Aperture. <i>Plant Physiology</i> , 2014, 164, 1707-1717.	4.8	180
26	Genetic and Chemical Reductions in Protein Phosphatase Activity Alter Auxin Transport, Gravity Response, and Lateral Root Growth. <i>Plant Cell</i> , 2001, 13, 1683-1697.	6.6	169
27	Abscisic Acid-Induced Reactive Oxygen Species Are Modulated by Flavonols to Control Stomata Aperture. <i>Plant Physiology</i> , 2017, 175, 1807-1825.	4.8	168
28	An Emerging Model of Auxin Transport Regulation. <i>Plant Cell</i> , 2002, 14, 293-299.	6.6	167
29	Auxins and Tropisms. <i>Journal of Plant Growth Regulation</i> , 2001, 20, 226-243.	5.1	165
30	A Universal Role for Inositol 1,4,5-Trisphosphate-Mediated Signaling in Plant Gravitropism. <i>Plant Physiology</i> , 2006, 140, 746-760.	4.8	157
31	A Kinetic Analysis of the Auxin Transcriptome Reveals Cell Wall Remodeling Proteins That Modulate Lateral Root Development in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 3329-3346.	6.6	147
32	Localized Induction of the ATP-Binding Cassette B19 Auxin Transporter Enhances Adventitious Root Formation in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2013, 162, 1392-1405.	4.8	141
33	PINOID Kinase Regulates Root Gravitropism through Modulation of PIN2-Dependent Basipetal Auxin Transport in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2009, 150, 722-735.	4.8	132
34	Measurement of auxin transport in <i>Arabidopsis thaliana</i> . <i>Nature Protocols</i> , 2009, 4, 437-451.	12.0	130
35	Endosidin2 targets conserved exocyst complex subunit EXO70 to inhibit exocytosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E41-50.	7.1	129
36	SCARFACE Encodes an ARF-GAP That Is Required for Normal Auxin Efflux and Vein Patterning in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2006, 18, 1396-1411.	6.6	128

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37	Extracellular ATP Inhibits Root Gravitropism at Concentrations That Inhibit Polar Auxin Transport. <i>Plant Physiology</i> , 2003, 131, 147-154.	4.8	122
38	Transport of the Two Natural Auxins, Indole-3-Butyric Acid and Indole-3-Acetic Acid, in Arabidopsis. <i>Plant Physiology</i> , 2003, 133, 761-772.	4.8	118
39	The anthocyanin reduced Tomato Mutant Demonstrates the Role of Flavonols in Tomato Lateral Root and Root Hair Development. <i>Plant Physiology</i> , 2014, 166, 614-631.	4.8	114
40	Nitric Oxide Plays a Role in Stem Cell Niche Homeostasis through Its Interaction with Auxin. <i>Plant Physiology</i> , 2014, 166, 1972-1984.	4.8	114
41	Two Seven-Transmembrane Domain MILDEW RESISTANCE LOCUS O Proteins Cofunction in <i>Arabidopsis</i> Root Thigmomorphogenesis. <i>Plant Cell</i> , 2009, 21, 1972-1991.	6.6	94
42	The Role of ROS Homeostasis in ABA-Induced Guard Cell Signaling. <i>Frontiers in Plant Science</i> , 2020, 11, 968.	3.6	94
43	Transcriptional and Hormonal Regulation of Gravitropism of Woody Stems in <i>Populus</i> . <i>Plant Cell</i> , 2015, 27, tpc.15.00531.	6.6	93
44	NPA binding activity is peripheral to the plasma membrane and is associated with the cytoskeleton.. <i>Plant Cell</i> , 1994, 6, 1941-1953.	6.6	84
45	Characterization of the growth and auxin physiology of roots of the tomato mutant, diageotropica. <i>Planta</i> , 1995, 195, 548-53.	3.2	80
46	Early Embryo Development in <i>Fucus distichus</i> Auxin Sensitive. <i>Plant Physiology</i> , 2002, 130, 292-302.	4.8	77
47	In vitro and in vivo evidence for actin association of the naphthylphthalamic acid-binding protein from zucchini hypocotyls. <i>Plant Journal</i> , 1998, 13, 291-301.	5.7	69
48	Gravity-Stimulated Changes in Auxin and Invertase Gene Expression in Maize Pulvinal Cells. <i>Plant Physiology</i> , 2002, 128, 591-602.	4.8	66
49	Vesicular cycling mechanisms that control auxin transport polarity. <i>Trends in Plant Science</i> , 2003, 8, 301-304.	8.8	66
50	Mutations in the Gravity Persistence Signal Loci in Arabidopsis Disrupt the Perception and/or Signal Transduction of Gravitropic Stimuli. <i>Plant Physiology</i> , 2002, 130, 1426-1435.	4.8	65
51	Interactions between Auxin Transport and the Actin Cytoskeleton in Developmental Polarity of <i>Fucus distichus</i> Embryos in Response to Light and Gravity. <i>Plant Physiology</i> , 2004, 135, 266-278.	4.8	63
52	RCN1-Regulated Phosphatase Activity and EIN2 Modulate Hypocotyl Gravitropism by a Mechanism That Does Not Require Ethylene Signaling. <i>Plant Physiology</i> , 2006, 141, 1617-1629.	4.8	51
53	Implications of long-distance flavonoid movement in <i>Arabidopsis thaliana</i> . <i>Plant Signaling and Behavior</i> , 2008, 3, 415-417.	2.4	49
54	Identification of plant actin-binding proteins by F-actin affinity chromatography. <i>Plant Journal</i> , 2000, 24, 127-137.	5.7	48

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55	Maintenance of Asymmetric Cellular Localization of an Auxin Transport Protein through Interaction with the Actin Cytoskeleton. <i>Journal of Plant Growth Regulation</i> , 2000, 19, 385-396.	5.1	46
56	Role for Apyrases in Polar Auxin Transport in Arabidopsis. <i>Plant Physiology</i> , 2012, 160, 1985-1995.	4.8	45
57	Evidence for a Single Naphthylphthalamic Acid Binding Site on the Zucchini Plasma Membrane. <i>Plant Physiology</i> , 1993, 103, 449-456.	4.8	43
58	Auxin Transport and the Interaction of Phytotropins. <i>Plant Physiology</i> , 1992, 98, 101-107.	4.8	41
59	Sex Steroid Hormones Regulate Leptin Transcript Accumulation and Protein Secretion in 3T3-L1 Cells. <i>Scientific Reports</i> , 2017, 7, 8232.	3.3	41
60	Identification of Transcriptional and Receptor Networks That Control Root Responses to Ethylene. <i>Plant Physiology</i> , 2018, 176, 2095-2118.	4.8	41
61	Evidence for altered polar and lateral auxin transport in the gravity persistent signal (gps) mutants of Arabidopsis. <i>Plant, Cell and Environment</i> , 2006, 29, 682-690.	5.7	40
62	Shootward and rootward: peak terminology for plant polarity. <i>Trends in Plant Science</i> , 2010, 15, 593-594.	8.8	39
63	Flavonols modulate lateral root emergence by scavenging reactive oxygen species in Arabidopsis thaliana. <i>Journal of Biological Chemistry</i> , 2021, 296, 100222.	3.4	39
64	AUXIN UP-REGULATED F-BOX PROTEIN1 Regulates the Cross Talk between Auxin Transport and Cytokinin Signaling during Plant Root Growth. <i>Plant Physiology</i> , 2011, 156, 1878-1893.	4.8	36
65	Cytoplasmic Orientation of the Naphthylphthalamic Acid-Binding Protein in Zucchini Plasma Membrane Vesicles. <i>Plant Physiology</i> , 1996, 112, 421-432.	4.8	35
66	The rib1 Mutant of Arabidopsis Has Alterations in Indole-3-Butyric Acid Transport, Hypocotyl Elongation, and Root Architecture. <i>Plant Physiology</i> , 2005, 139, 1460-1471.	4.8	35
67	Wounding Induces One of Two Isoenzymes of 3-Deoxy-d-arabino-Heptulosonate 7-Phosphate Synthase in Solanum tuberosum L.. <i>Plant Physiology</i> , 1992, 98, 496-500.	4.8	31
68	What is apical and what is basal in plant root development?. <i>Trends in Plant Science</i> , 2005, 10, 409-411.	8.8	30
69	Flavonols regulate root hair development by modulating accumulation of reactive oxygen species in the root epidermis. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	30
70	ROSY1, a novel regulator of gravitropic response is a stigmasterol binding protein. <i>Journal of Plant Physiology</i> , 2016, 196-197, 28-40.	3.5	27
71	Light Modulates Ethylene Synthesis, Signaling, and Downstream Transcriptional Networks to Control Plant Development. <i>Frontiers in Plant Science</i> , 2019, 10, 1094.	3.6	26
72	Influence of Weight Loss, Body Composition, and Lifestyle Behaviors on Plasma Adipokines: A Randomized Weight Loss Trial in Older Men and Women with Symptomatic Knee Osteoarthritis. <i>Journal of Obesity</i> , 2012, 2012, 1-14.	2.7	24

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73	The tyrosine repressor negatively regulates <i>aroH</i> expression in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1991, 173, 3930-3932.	2.2	23
74	Block of ATP-Binding Cassette B19 Ion Channel Activity by 5-Nitro-2-(3-Phenylpropylamino)-Benzoic Acid Impairs Polar Auxin Transport and Root Gravitropism. <i>Plant Physiology</i> , 2014, 166, 2091-2099.	4.8	20
75	Nervous system-like signaling in plant defense. <i>Science</i> , 2018, 361, 1068-1069.	12.6	18
76	Regulation of the <i>Salmonella typhimurium aroF</i> gene in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1990, 172, 2259-2266.	2.2	16
77	The dynamic response of the <i>Arabidopsis</i> root metabolome to auxin and ethylene is not predicted by changes in the transcriptome. <i>Scientific Reports</i> , 2020, 10, 679.	3.3	16
78	Auxin Transport and the Integration of Gravitropic Growth. , 0, , 47-77.		15
79	Genetic and Chemical Reductions in Protein Phosphatase Activity Alter Auxin Transport, Gravity Response, and Lateral Root Growth. <i>Plant Cell</i> , 2001, 13, 1683.	6.6	13
80	GRAVITY PERSISTENT SIGNAL 1 (GPS1) Reveals Novel Cytochrome P450s Involved in Gravitropism. <i>American Journal of Botany</i> , 2013, 100, 183-193.	1.7	13
81	Transcriptional sequencing and analysis of major genes involved in the adventitious root formation of mango cotyledon segments. <i>Planta</i> , 2017, 245, 1193-1213.	3.2	13
82	Ethylene signaling increases reactive oxygen species accumulation to drive root hair initiation in <i>Arabidopsis</i> . <i>Development (Cambridge)</i> , 2022, 149, .	2.5	13
83	Control of Auxin Transport by Reactive Oxygen and Nitrogen Species. <i>Signaling and Communication in Plants</i> , 2013, , 103-117.	0.7	11
84	Interactions Between the Actin Cytoskeleton and an Auxin Transport Protein. , 2000, , 541-556.		10
85	Undergraduates Achieve Learning Gains in Plant Genetics through Peer Teaching of Secondary Students. <i>CBE Life Sciences Education</i> , 2014, 13, 641-652.	2.3	9
86	Peer Teaching Increases Knowledge and Changes Perceptions about Genetically Modified Crops in Non-Science Major Undergraduates. <i>CBE Life Sciences Education</i> , 2019, 18, ar14.	2.3	5
87	A Conditional Mutation in <i>SCD1</i> Reveals Linkage Between PIN Protein Trafficking, Auxin Transport, Gravitropism, and Lateral Root Initiation. <i>Frontiers in Plant Science</i> , 2020, 11, 910.	3.6	5
88	Integration of Ethylene and Auxin Signaling and the Developmental Consequences of Their Crosstalk. , 2015, , 175-204.		4
89	A new tool for discovering transcriptional regulators of co-expressed genes predicts gene regulatory networks that mediate ethylene-controlled root development. <i>In Silico Plants</i> , 2020, 2, .	1.9	4
90	Hierarchical Probabilistic Interaction Modeling for Multiple Gene Expression Replicates. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2014, 11, 336-346.	3.0	3

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91	That's a Tomato? Using a Familiar Food to Explore Genetic Variation. <i>Science Activities</i> , 2014, 51, 1-16.	0.6	2
92	First and second order Markov posterior probabilities on multiple time-course data sets. , 2015, , .		1
93	A BCHC genetic algorithm model of cotemporal hierarchical <i>Arabidopsis thaliana</i> gene interactions. , 2018, , .		1
94	Time Series Adjustment Enhancement of Hierarchical Modeling of <i>Arabidopsis Thaliana</i> Gene Interactions. <i>Lecture Notes in Computer Science</i> , 2020, , 143-154.	1.3	0