

# Mark Estelle

## List of Publications by Citations

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131  
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140  
ext. papers

31,206  
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7  
L-index

#	Paper	IF	Citations
131	The F-box protein TIR1 is an auxin receptor. <i>Nature</i> , <b>2005</b> , 435, 441-5	50.4	1590
130	A plant miRNA contributes to antibacterial resistance by repressing auxin signaling. <i>Science</i> , <b>2006</b> , 312, 436-9	33.3	1461
129	The <i>Physcomitrella</i> genome reveals evolutionary insights into the conquest of land by plants. <i>Science</i> , <b>2008</b> , 319, 64-9	33.3	1419
128	Mechanism of auxin perception by the TIR1 ubiquitin ligase. <i>Nature</i> , <b>2007</b> , 446, 640-5	50.4	1118
127	Auxin regulates SCF(TIR1)-dependent degradation of AUX/IAA proteins. <i>Nature</i> , <b>2001</b> , 414, 271-6	50.4	1053
126	Plant development is regulated by a family of auxin receptor F box proteins. <i>Developmental Cell</i> , <b>2005</b> , 9, 109-19	10.2	770
125	Recent advances and emerging trends in plant hormone signalling. <i>Nature</i> , <b>2009</b> , 459, 1071-8	50.4	676
124	The <i>Selaginella</i> genome identifies genetic changes associated with the evolution of vascular plants. <i>Science</i> , <b>2011</b> , 332, 960-3	33.3	622
123	Growth and development of the <i>axr1</i> mutants of <i>Arabidopsis</i> . <i>Plant Cell</i> , <b>1990</b> , 2, 1071-80	11.6	610
122	Mechanism of auxin-regulated gene expression in plants. <i>Annual Review of Genetics</i> , <b>2009</b> , 43, 265-85	14.5	512
121	The TIR1 protein of <i>Arabidopsis</i> functions in auxin response and is related to human SKP2 and yeast <i>grr1p</i> . <i>Genes and Development</i> , <b>1998</b> , 12, 198-207	12.6	502
120	Plant hormones are versatile chemical regulators of plant growth. <i>Nature Chemical Biology</i> , <b>2009</b> , 5, 301-7	11.7	484
119	<i>Arabidopsis</i> auxin-resistance gene AXR1 encodes a protein related to ubiquitin-activating enzyme E1. <i>Nature</i> , <b>1993</b> , 364, 161-4	50.4	471
118	Auxin receptors and plant development: a new signaling paradigm. <i>Annual Review of Cell and Developmental Biology</i> , <b>2008</b> , 24, 55-80	12.6	455
117	High temperature promotes auxin-mediated hypocotyl elongation in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1998</b> , 95, 7197-202	11.5	455
116	The ubiquitin-proteasome pathway and plant development. <i>Plant Cell</i> , <b>2004</b> , 16, 3181-95	11.6	418
115	Auxin and ethylene promote root hair elongation in <i>Arabidopsis</i> . <i>Plant Journal</i> , <b>1998</b> , 16, 553-60	6.9	416

114	Sites and regulation of auxin biosynthesis in Arabidopsis roots. <i>Plant Cell</i> , <b>2005</b> , 17, 1090-104	11.6	410
113	Interactions of the COP9 signalosome with the E3 ubiquitin ligase SCFTIR1 in mediating auxin response. <i>Science</i> , <b>2001</b> , 292, 1379-82	33.3	410
112	The auxin signalling network translates dynamic input into robust patterning at the shoot apex. <i>Molecular Systems Biology</i> , <b>2011</b> , 7, 508	12.2	405
111	AXR2 encodes a member of the Aux/IAA protein family. <i>Plant Physiology</i> , <b>2000</b> , 123, 563-74	6.6	385
110	Identification of an SCF ubiquitin-ligase complex required for auxin response in Arabidopsis thaliana. <i>Genes and Development</i> , <b>1999</b> , 13, 1678-91	12.6	384
109	Phosphate availability alters lateral root development in Arabidopsis by modulating auxin sensitivity via a mechanism involving the TIR1 auxin receptor. <i>Plant Cell</i> , <b>2008</b> , 20, 3258-72	11.6	377
108	A combinatorial TIR1/AFB-Aux/IAA co-receptor system for differential sensing of auxin. <i>Nature Chemical Biology</i> , <b>2012</b> , 8, 477-85	11.7	371
107	Mutations in the AXR3 gene of Arabidopsis result in altered auxin response including ectopic expression from the SAUR-AC1 promoter. <i>Plant Journal</i> , <b>1996</b> , 10, 403-13	6.9	361
106	A dominant mutation in Arabidopsis confers resistance to auxin, ethylene and abscisic acid. <i>Molecular Genetics and Genomics</i> , <b>1990</b> , 222, 377-83		355
105	Changes in auxin response from mutations in an AUX/IAA gene. <i>Science</i> , <b>1998</b> , 279, 1371-3	33.3	333
104	Complex regulation of the TIR1/AFB family of auxin receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 22540-5	11.5	324
103	Plant development: regulation by protein degradation. <i>Science</i> , <b>2002</b> , 297, 793-7	33.3	280
102	The ubiquitin-proteasome system regulates plant hormone signaling. <i>Plant Journal</i> , <b>2010</b> , 61, 1029-40	6.9	273
101	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> , <b>1997</b> , 9, 745-57	11.6	273
100	The aux1 Mutation of Arabidopsis Confers Both Auxin and Ethylene Resistance. <i>Plant Physiology</i> , <b>1990</b> , 94, 1462-6	6.6	272
99	The axr4 auxin-resistant mutants of Arabidopsis thaliana define a gene important for root gravitropism and lateral root initiation. <i>Plant Journal</i> , <b>1995</b> , 7, 211-20	6.9	270
98	Modification of yeast Cdc53p by the ubiquitin-related protein rub1p affects function of the SCFCdc4 complex. <i>Genes and Development</i> , <b>1998</b> , 12, 914-26	12.6	265
97	SCFTIR1/AFB-based auxin perception: mechanism and role in plant growth and development. <i>Plant Cell</i> , <b>2015</b> , 27, 9-19	11.6	259

96	Nitric oxide influences auxin signaling through S-nitrosylation of the Arabidopsis TRANSPORT INHIBITOR RESPONSE 1 auxin receptor. <i>Plant Journal</i> , <b>2012</b> , 70, 492-500	6.9	248
95	Auxin transport is required for hypocotyl elongation in light-grown but not dark-grown Arabidopsis. <i>Plant Physiology</i> , <b>1998</b> , 116, 455-62	6.6	244
94	Auxin binding protein 1 (ABP1) is not required for either auxin signaling or Arabidopsis development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 2275-80	11.5	241
93	Root gravitropism is regulated by a transient lateral auxin gradient controlled by a tipping-point mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 4668-73	11.5	240
92	BIG: a calossin-like protein required for polar auxin transport in Arabidopsis. <i>Genes and Development</i> , <b>2001</b> , 15, 1985-97	12.6	212
91	Auxin signaling and regulated protein degradation. <i>Trends in Plant Science</i> , <b>2004</b> , 9, 302-8	13.1	208
90	AXR1-ECR1-dependent conjugation of RUB1 to the Arabidopsis Cullin AtCUL1 is required for auxin response. <i>Plant Cell</i> , <b>2002</b> , 14, 421-33	11.6	200
89	The ubiquitin-related protein RUB1 and auxin response in Arabidopsis. <i>Science</i> , <b>1998</b> , 280, 1760-3	33.3	200
88	Protein interaction analysis of SCF ubiquitin E3 ligase subunits from Arabidopsis. <i>Plant Journal</i> , <b>2003</b> , 34, 753-67	6.9	191
87	The IAA1 protein is encoded by AXR5 and is a substrate of SCF(TIR1). <i>Plant Journal</i> , <b>2004</b> , 40, 772-82	6.9	171
86	Mechanisms of auxin signaling. <i>Development (Cambridge)</i> , <b>2016</b> , 143, 3226-9	6.6	165
85	Function of the ubiquitin-proteasome pathway in auxin response. <i>Trends in Biochemical Sciences</i> , <b>2000</b> , 25, 133-8	10.3	162
84	Diversity and specificity: auxin perception and signaling through the TIR1/AFB pathway. <i>Current Opinion in Plant Biology</i> , <b>2014</b> , 21, 51-58	9.9	158
83	AXR4 is required for localization of the auxin influx facilitator AUX1. <i>Science</i> , <b>2006</b> , 312, 1218-20	33.3	156
82	The axr6 mutants of Arabidopsis thaliana define a gene involved in auxin response and early development. <i>Development (Cambridge)</i> , <b>2000</b> , 127, 23-32	6.6	156
81	The Arabidopsis cullin AtCUL1 is modified by the ubiquitin-related protein RUB1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1999</b> , 96, 15342-7	11.5	152
80	The TRANSPORT INHIBITOR RESPONSE2 gene is required for auxin synthesis and diverse aspects of plant development. <i>Plant Physiology</i> , <b>2009</b> , 151, 168-79	6.6	150
79	The axr2-1 mutation of Arabidopsis thaliana is a gain-of-function mutation that disrupts an early step in auxin response. <i>Genetics</i> , <b>1994</b> , 138, 1239-49	4	149

78	Gibberellins accumulate in the elongating endodermal cells of Arabidopsis root. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 4834-9	11.5	147
77	Null mutation of AtCUL1 causes arrest in early embryogenesis in Arabidopsis. <i>Molecular Biology of the Cell</i> , <b>2002</b> , 13, 1916-28	3.5	144
76	Auxin action in a cell-free system. <i>Current Biology</i> , <b>2003</b> , 13, 1418-22	6.3	142
75	The AXR1 and AUX1 genes of Arabidopsis function in separate auxin-response pathways. <i>Plant Journal</i> , <b>1995</b> , 8, 561-9	6.9	141
74	Transgene-mediated auxin overproduction in Arabidopsis: hypocotyl elongation phenotype and interactions with the hy6-1 hypocotyl elongation and axr1 auxin-resistant mutants. <i>Plant Molecular Biology</i> , <b>1995</b> , 27, 1071-83	4.6	138
73	Role of the Arabidopsis RING-H2 protein RBX1 in RUB modification and SCF function. <i>Plant Cell</i> , <b>2002</b> , 14, 2137-44	11.6	137
72	HSP90 regulates temperature-dependent seedling growth in Arabidopsis by stabilizing the auxin co-receptor F-box protein TIR1. <i>Nature Communications</i> , <b>2016</b> , 7, 10269	17.4	134
71	Auxin-regulated chromatin switch directs acquisition of flower primordium founder fate. <i>ELife</i> , <b>2015</b> , 4, e09269	8.9	132
70	The Arabidopsis SUPPRESSOR OF AUXIN RESISTANCE proteins are nucleoporins with an important role in hormone signaling and development. <i>Plant Cell</i> , <b>2006</b> , 18, 1590-603	11.6	130
69	Arabidopsis AXR6 encodes CUL1 implicating SCF E3 ligases in auxin regulation of embryogenesis. <i>EMBO Journal</i> , <b>2003</b> , 22, 3314-25	13	127
68	Auxin perception--structural insights. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2010</b> , 2, a005546	10.2	122
67	The RUB/Nedd8 conjugation pathway is required for early development in Arabidopsis. <i>EMBO Journal</i> , <b>2003</b> , 22, 1762-70	13	120
66	Cullins 3a and 3b assemble with members of the broad complex/tramtrack/bric-a-brac (BTB) protein family to form essential ubiquitin-protein ligases (E3s) in Arabidopsis. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 18810-21	5.4	119
65	Auxin receptors: a new role for F-box proteins. <i>Current Opinion in Cell Biology</i> , <b>2006</b> , 18, 152-6	9	118
64	The Arabidopsis NPF3 protein is a GA transporter. <i>Nature Communications</i> , <b>2016</b> , 7, 11486	17.4	115
63	<i>Physcomitrella patens</i> auxin-resistant mutants affect conserved elements of an auxin-signaling pathway. <i>Current Biology</i> , <b>2010</b> , 20, 1907-12	6.3	109
62	Genetic approaches to auxin action. <i>Plant, Cell and Environment</i> , <b>1994</b> , 17, 525-40	8.4	108
61	Ubiquitin-mediated control of plant hormone signaling. <i>Plant Physiology</i> , <b>2012</b> , 160, 47-55	6.6	107

60	Hypocotyl transcriptome reveals auxin regulation of growth-promoting genes through GA-dependent and -independent pathways. <i>PLoS ONE</i> , <b>2012</b> , 7, e36210	3.7	105
59	A map of cell type-specific auxin responses. <i>Molecular Systems Biology</i> , <b>2013</b> , 9, 688	12.2	98
58	F-box proteins and protein degradation: an emerging theme in cellular regulation. <i>Plant Molecular Biology</i> , <b>2000</b> , 44, 123-8	4.6	98
57	Arabidopsis AtCUL3a and AtCUL3b form complexes with members of the BTB/POZ-MATH protein family. <i>Plant Physiology</i> , <b>2005</b> , 137, 83-93	6.6	97
56	Regulation of auxin homeostasis and gradients in Arabidopsis roots through the formation of the indole-3-acetic acid catabolite 2-oxindole-3-acetic acid. <i>Plant Cell</i> , <b>2013</b> , 25, 3858-70	11.6	95
55	The Arabidopsis D-type cyclin CYCD2;1 and the inhibitor ICK2/KRP2 modulate auxin-induced lateral root formation. <i>Plant Cell</i> , <b>2011</b> , 23, 641-60	11.6	92
54	The role of regulated protein degradation in auxin response. <i>Plant Molecular Biology</i> , <b>2002</b> , 49, 401-408	4.6	90
53	Distinct Characteristics of Indole-3-Acetic Acid and Phenylacetic Acid, Two Common Auxins in Plants. <i>Plant and Cell Physiology</i> , <b>2015</b> , 56, 1641-54	4.9	89
52	Proteases and cellular regulation in plants. <i>Current Opinion in Plant Biology</i> , <b>2001</b> , 4, 254-60	9.9	88
51	Degradation of the cyclin-dependent kinase inhibitor KRP1 is regulated by two different ubiquitin E3 ligases. <i>Plant Journal</i> , <b>2008</b> , 53, 705-16	6.9	87
50	MiR393 regulation of auxin signaling and redox-related components during acclimation to salinity in Arabidopsis. <i>PLoS ONE</i> , <b>2014</b> , 9, e107678	3.7	85
49	Function of the ubiquitin-proteasome pathway in auxin response. <i>Trends in Plant Science</i> , <b>1999</b> , 4, 107-113	13.1	82
48	Effects of the axr2 mutation of Arabidopsis on cell shape in hypocotyl and inflorescence. <i>Planta</i> , <b>1992</b> , 188, 271-8	4.7	82
47	Plant Stress Tolerance Requires Auxin-Sensitive Aux/IAA Transcriptional Repressors. <i>Current Biology</i> , <b>2017</b> , 27, 437-444	6.3	80
46	The axr6 mutants of Arabidopsis thaliana define a gene involved in auxin response and early development. <i>Development (Cambridge)</i> , <b>2000</b> , 127, 23-32	6.6	80
45	The impact of Arabidopsis on human health: diversifying our portfolio. <i>Cell</i> , <b>2008</b> , 133, 939-43	56.2	79
44	New auxin analogs with growth-promoting effects in intact plants reveal a chemical strategy to improve hormone delivery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 15190-5	11.5	79
43	Auxin-sensitive Aux/IAA proteins mediate drought tolerance in Arabidopsis by regulating glucosinolate levels. <i>Nature Communications</i> , <b>2019</b> , 10, 4021	17.4	78

42	microRNA regulation of fruit growth. <i>Nature Plants</i> , <b>2015</b> , 1, 15036	11.5	78
41	Constitutive auxin response in <i>Physcomitrella</i> reveals complex interactions between Aux/IAA and ARF proteins. <i>ELife</i> , <b>2016</b> , 5,	8.9	78
40	Point mutations in Arabidopsis Cullin1 reveal its essential role in jasmonate response. <i>Plant Journal</i> , <b>2005</b> , 42, 514-24	6.9	76
39	Regulation of cullin-based ubiquitin ligases by the Nedd8/RUB ubiquitin-like proteins. <i>Seminars in Cell and Developmental Biology</i> , <b>2004</b> , 15, 221-9	7.5	71
38	The AFB4 auxin receptor is a negative regulator of auxin signaling in seedlings. <i>Current Biology</i> , <b>2011</b> , 21, 520-5	6.3	70
37	Flying saucer1 is a transmembrane RING E3 ubiquitin ligase that regulates the degree of pectin methylesterification in Arabidopsis seed mucilage. <i>Plant Cell</i> , <b>2013</b> , 25, 944-59	11.6	66
36	Polar auxin transport. New support for an old model. <i>Plant Cell</i> , <b>1998</b> , 10, 1775-8	11.6	66
35	A new CULLIN 1 mutant has altered responses to hormones and light in Arabidopsis. <i>Plant Physiology</i> , <b>2007</b> , 143, 684-96	6.6	65
34	The SAR1 gene of Arabidopsis acts downstream of the AXR1 gene in auxin response. <i>Development (Cambridge)</i> , <b>1997</b> , 124, 1583-1591	6.6	63
33	Molecular mechanisms of auxin action. <i>Current Opinion in Plant Biology</i> , <b>1998</b> , 1, 434-9	9.9	59
32	Untethering the TIR1 auxin receptor from the SCF complex increases its stability and inhibits auxin response. <i>Nature Plants</i> , <b>2015</b> , 1,	11.5	58
31	AXL and AXR1 have redundant functions in RUB conjugation and growth and development in Arabidopsis. <i>Plant Journal</i> , <b>2007</b> , 52, 114-23	6.9	58
30	The Arabidopsis Auxin Receptor F-Box Proteins AFB4 and AFB5 Are Required for Response to the Synthetic Auxin Picloram. <i>G3: Genes, Genomes, Genetics</i> , <b>2016</b> , 6, 1383-90	3.2	54
29	The plant hormone auxin: insight in sight. <i>BioEssays</i> , <b>1992</b> , 14, 439-44	4.1	54
28	ENTIRE and GOBLET promote leaflet development in tomato by modulating auxin response. <i>Plant Journal</i> , <b>2012</b> , 70, 903-15	6.9	53
27	The role of regulated protein degradation in auxin response. <i>Plant Molecular Biology</i> , <b>2002</b> , 49, 401-9	4.6	46
26	Mutations in the TIR1 auxin receptor that increase affinity for auxin/indole-3-acetic acid proteins result in auxin hypersensitivity. <i>Plant Physiology</i> , <b>2013</b> , 162, 295-303	6.6	45
25	Genetic analysis of the Arabidopsis TIR1/AFB auxin receptors reveals both overlapping and specialized functions. <i>ELife</i> , <b>2020</b> , 9,	8.9	45

24	The cyclophilin DIAGEOTROPICA has a conserved role in auxin signaling. <i>Development (Cambridge)</i> , <b>2012</b> , 139, 1115-24	6.6	41
23	Lysine Residues Are Not Required for Proteasome-Mediated Proteolysis of the Auxin/Indole Acidic Acid Protein IAA1. <i>Plant Physiology</i> , <b>2015</b> , 168, 708-20	6.6	32
22	Auxin perception: in the IAA of the beholder. <i>Physiologia Plantarum</i> , <b>2014</b> , 151, 52-61	4.6	30
21	The pea branching RMS2 gene encodes the PsAFB4/5 auxin receptor and is involved in an auxin-strigolactone regulation loop. <i>PLoS Genetics</i> , <b>2017</b> , 13, e1007089	6	28
20	Embryonic lethality of is caused by deletion of the adjacent gene. <i>Nature Plants</i> , <b>2015</b> , 1,	11.5	28
19	The ALF4 protein is a regulator of SCF E3 ligases. <i>EMBO Journal</i> , <b>2018</b> , 37, 255-268	13	24
18	Regulation of SCF E3 ligase assembly by S-nitrosylation of Arabidopsis SKP1-like1 impacts on auxin signaling. <i>Redox Biology</i> , <b>2018</b> , 18, 200-210	11.3	22
17	Mutational studies of the Aux/IAA proteins in <i>Physcomitrella</i> reveal novel insights into their function. <i>New Phytologist</i> , <b>2018</b> , 218, 1534-1542	9.8	20
16	Dual Role of Auxin in Regulating Plant Defense and Bacterial Virulence Gene Expression During PtoDC3000 Pathogenesis. <i>Molecular Plant-Microbe Interactions</i> , <b>2020</b> , 33, 1059-1071	3.6	18
15	Auxin Signaling Involves Regulated Protein Degradation by the Ubiquitin-Proteasome Pathway. <i>Journal of Plant Growth Regulation</i> , <b>2001</b> , 20, 265-273	4.7	18
14	A novel Ca <sup>2+</sup> -binding protein that can rapidly transduce auxin responses during root growth. <i>PLoS Biology</i> , <b>2019</b> , 17, e3000085	9.7	16
13	Selective auxin agonists induce specific AUX/IAA protein degradation to modulate plant development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 6463-6472	11.5	12
12	Diverse Allyl Glucosinolate Catabolites Independently Influence Root Growth and Development. <i>Plant Physiology</i> , <b>2020</b> , 183, 1376-1390	6.6	10
11	Quantitative Early Auxin Root Proteomics Identifies GAUT10, a Galacturonosyltransferase, as a Novel Regulator of Root Meristem Maintenance. <i>Molecular and Cellular Proteomics</i> , <b>2019</b> , 18, 1157-1170	7.6	8
10	Ethylene prunes translation. <i>Cell</i> , <b>2015</b> , 163, 543-4	56.2	8
9	CUL3 E3 ligases in plant development and environmental response. <i>Nature Plants</i> , <b>2021</b> , 7, 6-16	11.5	6
8	Author response: Auxin-regulated chromatin switch directs acquisition of flower primordium founder fate <b>2015</b> ,		2
7	Auxin-sensitive Aux/IAA proteins mediate drought tolerance in Arabidopsis by regulating glucosinolate levels		2



6	The PLOS Biology XV Collection: 15 Years of Exceptional Science Highlighted across 12 Months. <i>PLoS Biology</i> , <b>2019</b> , 17, e3000180	9.7	1
5	Moss tasiRNAs Make the Auxin Network Robust. <i>Developmental Cell</i> , <b>2016</b> , 36, 241-2	10.2	1
4	Journal club: growth versus development. <i>Nature Reviews Molecular Cell Biology</i> , <b>2009</b> , 10, 813	48.7	1
3	Polar Auxin Transport: New Support for an Old Model. <i>Plant Cell</i> , <b>1998</b> , 10, 1775	11.6	1
2	S-Nitrosation of E3 Ubiquitin Ligase Complex Components Regulates Hormonal Signalings in Arabidopsis.. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 794582	6.2	0
1	Barebones of auxin signalling. <i>Nature Plants</i> , <b>2020</b> , 6, 440-441	11.5	