

Ben Scheres

List of Publications by Year in descending order

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141
papers

24,832
citations

8159

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158
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158
docs citations

158
times ranked

12747
citing authors

#	ARTICLE	IF	CITATIONS
1	A reflux-and-growth mechanism explains oscillatory patterning of lateral root branching sites. <i>Developmental Cell</i> , 2021, 56, 2176-2191.e10.	3.1	35
2	Cell-by-cell dissection of phloem development links a maturation gradient to cell specialization. <i>Science</i> , 2021, 374, eaba5531.	6.0	60
3	Geometric cues forecast the switch from two- to three-dimensional growth in <i>Physcomitrella patens</i> . <i>New Phytologist</i> , 2020, 225, 1945-1955.	3.5	16
4	A coherent feed forward loop drives vascular regeneration in damaged aerial organs growing in normal developmental-context. <i>Development (Cambridge)</i> , 2020, 147, .	1.2	24
5	ErbB-3 BINDING PROTEIN 1 Regulates Translation and Counteracts RETINOBLASTOMA RELATED to Maintain the Root Meristem. <i>Plant Physiology</i> , 2020, 182, 919-932.	2.3	10
6	Gradient Expression of Transcription Factor Imposes a Boundary on Organ Regeneration Potential in Plants. <i>Cell Reports</i> , 2019, 29, 453-463.e3.	2.9	33
7	Topology of regulatory networks that guide plant meristem activity: similarities and differences. <i>Current Opinion in Plant Biology</i> , 2019, 51, 74-80.	3.5	15
8	A Jasmonate Signaling Network Activates Root Stem Cells and Promotes Regeneration. <i>Cell</i> , 2019, 177, 942-956.e14.	13.5	233
9	Lateral root formation and the multiple roles of auxin. <i>Journal of Experimental Botany</i> , 2018, 69, 155-167.	2.4	291
10	Coordination of growth in root and shoot apices by AIL/PLT transcription factors. <i>Current Opinion in Plant Biology</i> , 2018, 41, 95-101.	3.5	34
11	A Plausible Microtubule-Based Mechanism for Cell Division Orientation in Plant Embryogenesis. <i>Current Biology</i> , 2018, 28, 3031-3043.e2.	1.8	57
12	Mediator subunit MED31 is required for radial patterning of <i>Arabidopsis</i> roots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E5624-E5633.	3.3	26
13	Optimizing FRET-FLIM Labeling Conditions to Detect Nuclear Protein Interactions at Native Expression Levels in Living <i>Arabidopsis</i> Roots. <i>Frontiers in Plant Science</i> , 2018, 9, 639.	1.7	21
14	Root stem cell niche organizer specification by molecular convergence of PLETHORA and SCARECROW transcription factor modules. <i>Genes and Development</i> , 2018, 32, 1085-1100.	2.7	100
15	Tuning Division and Differentiation in Stomata: How to Silence a MUTE. <i>Developmental Cell</i> , 2018, 45, 282-283.	3.1	1
16	A computational framework for cortical microtubule dynamics in realistically shaped plant cells. <i>PLoS Computational Biology</i> , 2018, 14, e1005959.	1.5	39
17	Analysis of a Plant Transcriptional Regulatory Network Using Transient Expression Systems. <i>Methods in Molecular Biology</i> , 2017, 1629, 83-103.	0.4	8
18	<i>Arabidopsis</i> RETINOBLASTOMA RELATED directly regulates DNA damage responses through functions beyond cell cycle control. <i>EMBO Journal</i> , 2017, 36, 1261-1278.	3.5	83

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19	The plant perceptron connects environment to development. <i>Nature</i> , 2017, 543, 337-345.	13.7	120
20	In vivo FRET-FLIM reveals cell-type-specific protein interactions in <i>Arabidopsis</i> roots. <i>Nature</i> , 2017, 548, 97-102.	13.7	128
21	PLETHORA transcription factors orchestrate de novo organ patterning during <i>Arabidopsis</i> lateral root outgrowth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11709-11714.	3.3	99
22	XYLEM NAC DOMAIN1, an angiosperm NAC transcription factor, inhibits xylem differentiation through conserved motifs that interact with RETINOBLASTOMA-RELATED. <i>New Phytologist</i> , 2017, 216, 76-89.	3.5	33
23	The PLETHORA Gene Regulatory Network Guides Growth and Cell Differentiation in <i>Arabidopsis</i> Roots. <i>Plant Cell</i> , 2016, 28, 2937-2951.	3.1	127
24	Lateral root emergence in <i>Arabidopsis</i> is dependent on transcription factor LBD29 regulating auxin influx carrier <i>LAX3</i> . <i>Development (Cambridge)</i> , 2016, 143, 3340-9.	1.2	111
25	MultiSite Gateway-Compatible Cell Type-Specific Gene-Inducible System for Plants. <i>Plant Physiology</i> , 2016, 170, 627-641.	2.3	119
26	Root patterning: it takes two to tangle. <i>Journal of Experimental Botany</i> , 2016, 67, 1201-1203.	2.4	8
27	<i>SCARECROW</i> - <i>LIKE</i> 23 and <i>SCARECROW</i> jointly specify endodermal cell fate but distinctly control <i>SHORT</i> - <i>ROOT</i> movement. <i>Plant Journal</i> , 2015, 84, 773-784.	2.8	52
28	The logic of communication: roles for mobile transcription factors in plants. <i>Journal of Experimental Botany</i> , 2015, 66, 1133-1144.	2.4	19
29	A plant U-box protein, PUB4, regulates asymmetric cell division and cell proliferation in the root meristem. <i>Development (Cambridge)</i> , 2015, 142, 444-453.	1.2	61
30	PLETHORA Genes Control Regeneration by a Two-Step Mechanism. <i>Current Biology</i> , 2015, 25, 1017-1030.	1.8	240
31	<i>Arabidopsis</i> BIRD Zinc Finger Proteins Jointly Stabilize Tissue Boundaries by Confining the Cell Fate Regulator <i>SHORT-ROOT</i> and Contributing to Fate Specification. <i>Plant Cell</i> , 2015, 27, 1185-1199.	3.1	121
32	Transcriptional control of tissue formation throughout root development. <i>Science</i> , 2015, 350, 426-430.	6.0	128
33	Root developmental programs shape the <i>Medicago truncatula</i> nodule meristem. <i>Development (Cambridge)</i> , 2015, 142, 2941-50.	1.2	78
34	PLETHORA gradient formation mechanism separates auxin responses. <i>Nature</i> , 2014, 515, 125-129.	13.7	329
35	Nutrient computation for root architecture. <i>Science</i> , 2014, 346, 300-301.	6.0	36
36	Precise control of plant stem cell activity through parallel regulatory inputs. <i>Development (Cambridge)</i> , 2014, 141, 4055-4064.	1.2	59

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37	Irreversible fate commitment in the Arabidopsis stomatal lineage requires a FAMA and RETINOBLASTOMA-RELATED module. ELife, 2014, 3, .	2.8	86
38	RETINOBLASTOMA-RELATED Protein Stimulates Cell Differentiation in the Arabidopsis Root Meristem by Interacting with Cytokinin Signaling. Plant Cell, 2013, 25, 4469-4478.	3.1	46
39	Local auxin biosynthesis regulation by PLETHORA transcription factors controls phyllotaxis in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1107-1112.	3.3	146
40	Phyllotaxis and Rhizotaxis in Arabidopsis Are Modified by Three PLETHORA Transcription Factors. Current Biology, 2013, 23, 956-962.	1.8	105
41	Arabidopsis as a Model for Systems Biology. , 2013, , 391-406.		2
42	Rooting plant development. Development (Cambridge), 2013, 140, 939-941.	1.2	4
43	CLASP-mediated cortical microtubule organization guides PIN polarization axis. Nature, 2013, 495, 529-533.	13.7	29
44	Polar auxin transport: models and mechanisms. Development (Cambridge), 2013, 140, 2253-2268.	1.2	105
45	A SCARECROW-RETINOBLASTOMA Protein Network Controls Protective Quiescence in the Arabidopsis Root Stem Cell Organizer. PLoS Biology, 2013, 11, e1001724.	2.6	137
46	Quantitative Phosphoproteomics after Auxin-stimulated Lateral Root Induction Identifies an SNX1 Protein Phosphorylation Site Required for Growth. Molecular and Cellular Proteomics, 2013, 12, 1158-1169.	2.5	95
47	ROP GTPase-Dependent Actin Microfilaments Promote PIN1 Polarization by Localized Inhibition of Clathrin-Dependent Endocytosis. PLoS Biology, 2012, 10, e1001299.	2.6	186
48	A Bistable Circuit Involving SCARECROW-RETINOBLASTOMA Integrates Cues to Inform Asymmetric Stem Cell Division. Cell, 2012, 150, 1002-1015.	13.5	273
49	COP1 mediates the coordination of root and shoot growth by light through modulation of PIN1- and PIN2-dependent auxin transport in Arabidopsis. Development (Cambridge), 2012, 139, 3402-3412.	1.2	167
50	Arabidopsis E2FA stimulates proliferation and endocycle separately through RBR-bound and RBR-free complexes. EMBO Journal, 2012, 31, 1480-1493.	3.5	142
51	A ROP GTPase-Dependent Auxin Signaling Pathway Regulates the Subcellular Distribution of PIN2 in Arabidopsis Roots. Current Biology, 2012, 22, 1319-1325.	1.8	177
52	Morphoengineering roots: comparing mechanisms of morphogen gradient formation. BMC Systems Biology, 2012, 6, 37.	3.0	45
53	A PHABULOSA/Cytokinin Feedback Loop Controls Root Growth in Arabidopsis. Current Biology, 2012, 22, 1699-1704.	1.8	112
54	Callose Biosynthesis Regulates Symplastic Trafficking during Root Development. Developmental Cell, 2011, 21, 1144-1155.	3.1	394

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55	Joining forces: feedback and integration in plant development. <i>Current Opinion in Genetics and Development</i> , 2011, 21, 799-805.	1.5	6
56	A Mutually Inhibitory Interaction between Auxin and Cytokinin Specifies Vascular Pattern in Roots. <i>Current Biology</i> , 2011, 21, 917-926.	1.8	359
57	Phloem-Transported Cytokinin Regulates Polar Auxin Transport and Maintains Vascular Pattern in the Root Meristem. <i>Current Biology</i> , 2011, 21, 927-932.	1.8	231
58	Arabidopsis PLETHORA Transcription Factors Control Phyllotaxis. <i>Current Biology</i> , 2011, 21, 1123-1128.	1.8	124
59	Probing the roles of LRR RLK genes in Arabidopsis thaliana roots using a custom T-DNA insertion set. <i>Plant Molecular Biology</i> , 2011, 76, 69-83.	2.0	90
60	Identification of factors required for meristem function in Arabidopsis using a novel next generation sequencing fast forward genetics approach. <i>BMC Genomics</i> , 2011, 12, 256.	1.2	45
61	Distinct Cell-Autonomous Functions of <i>RETINOBLASTOMA-RELATED</i> in Arabidopsis Stem Cells Revealed by the Brother of Rainbow Clonal Analysis System. <i>Plant Cell</i> , 2011, 23, 2581-2591.	3.1	49
62	Phosphorylation switch modulates the interdigitated pattern of PIN1 localization and cell expansion in Arabidopsis leaf epidermis. <i>Cell Research</i> , 2011, 21, 970-978.	5.7	62
63	SCHIZORIZA Encodes a Nuclear Factor Regulating Asymmetry of Stem Cell Divisions in the Arabidopsis Root. <i>Current Biology</i> , 2010, 20, 452-457.	1.8	79
64	Roots respond to an inner calling. <i>Nature</i> , 2010, 465, 299-300.	13.7	6
65	SOMBRERO, BEARSKIN1, and BEARSKIN2 Regulate Root Cap Maturation in Arabidopsis. <i>Plant Cell</i> , 2010, 22, 640-654.	3.1	163
66	JACKDAW controls epidermal patterning in the Arabidopsis root meristem through a non-cell-autonomous mechanism. <i>Development (Cambridge)</i> , 2010, 137, 1523-1529.	1.2	119
67	Plasma membrane-bound AGC3 kinases phosphorylate PIN auxin carriers at TPRXS(N/S) motifs to direct apical PIN recycling. <i>Development (Cambridge)</i> , 2010, 137, 3245-3255.	1.2	201
68	Root Development—Two Meristems for the Price of One?. <i>Current Topics in Developmental Biology</i> , 2010, 91, 67-102.	1.0	134
69	Shootward and rootward: peak terminology for plant polarity. <i>Trends in Plant Science</i> , 2010, 15, 593-594.	4.3	39
70	Members of the GCN5 Histone Acetyltransferase Complex Regulate PLETHORA-Mediated Root Stem Cell Niche Maintenance and Transit Amplifying Cell Proliferation in Arabidopsis. <i>Plant Cell</i> , 2009, 21, 1070-1079.	3.1	168
71	Arabidopsis CULLIN3 Genes Regulate Primary Root Growth and Patterning by Ethylene-Dependent and -Independent Mechanisms. <i>PLoS Genetics</i> , 2009, 5, e1000328.	1.5	88
72	Back to the future: evolution of computational models in plant morphogenesis. <i>Current Opinion in Plant Biology</i> , 2009, 12, 606-614.	3.5	33

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73	Repression of Apical Homeobox Genes Is Required for Embryonic Root Development in Arabidopsis. <i>Current Biology</i> , 2009, 19, 1485-1490.	1.8	97
74	Plant Asymmetric Cell Division, Vive la Différence!. <i>Cell</i> , 2009, 137, 1189-1192.	13.5	18
75	The AUXIN BINDING PROTEIN 1 Is Required for Differential Auxin Responses Mediating Root Growth. <i>PLoS ONE</i> , 2009, 4, e6648.	1.1	124
76	Generation of cell polarity in plants links endocytosis, auxin distribution and cell fate decisions. <i>Nature</i> , 2008, 456, 962-966.	13.7	228
77	Specialization of CDC27 function in the <i>Arabidopsis thaliana</i> anaphase-promoting complex (APC/C). <i>Plant Journal</i> , 2008, 53, 78-89.	2.8	74
78	Auxin: The Looping Star in Plant Development. <i>Annual Review of Plant Biology</i> , 2008, 59, 443-465.	8.6	503
79	The NAC Domain Transcription Factors FEZ and SOMBRERO Control the Orientation of Cell Division Plane in Arabidopsis Root Stem Cells. <i>Developmental Cell</i> , 2008, 15, 913-922.	3.1	229
80	Root System Architecture from Coupling Cell Shape to Auxin Transport. <i>PLoS Biology</i> , 2008, 6, e307.	2.6	353
81	<i>Arabidopsis</i> JACKDAW and MAGPIE zinc finger proteins delimit asymmetric cell division and stabilize tissue boundaries by restricting SHORT-ROOT action. <i>Genes and Development</i> , 2007, 21, 2196-2204.	2.7	245
82	Plant neurobiology: no brain, no gain?. <i>Trends in Plant Science</i> , 2007, 12, 135-136.	4.3	146
83	The force from without. <i>Nature</i> , 2007, 446, 151-152.	13.7	6
84	An Evolutionarily Conserved Mechanism Delimiting SHR Movement Defines a Single Layer of Endodermis in Plants. <i>Science</i> , 2007, 316, 421-425.	6.0	522
85	Stem-cell niches: nursery rhymes across kingdoms. <i>Nature Reviews Molecular Cell Biology</i> , 2007, 8, 345-354.	16.1	323
86	Conserved factors regulate signalling in Arabidopsis thaliana shoot and root stem cell organizers. <i>Nature</i> , 2007, 446, 811-814.	13.7	943
87	PLETHORA proteins as dose-dependent master regulators of Arabidopsis root development. <i>Nature</i> , 2007, 449, 1053-1057.	13.7	743
88	Auxin transport is sufficient to generate a maximum and gradient guiding root growth. <i>Nature</i> , 2007, 449, 1008-1013.	13.7	761
89	Plant cell biology "get your networks together. <i>Current Opinion in Plant Biology</i> , 2007, 10, 546-548.	3.5	2
90	A Molecular Framework for Plant Regeneration. <i>Science</i> , 2006, 311, 385-388.	6.0	312

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91	Apical-basal polarity: why plant cells don't stand on their heads. <i>Trends in Plant Science</i> , 2006, 11, 12-14.	4.3	37
92	In situ hybridization technique for mRNA detection in whole mount Arabidopsis samples. <i>Nature Protocols</i> , 2006, 1, 1939-1946.	5.5	141
93	Time-lapse analysis of stem-cell divisions in the Arabidopsis thaliana root meristem. <i>Plant Journal</i> , 2006, 48, 619-627.	2.8	100
94	Polar PIN Localization Directs Auxin Flow in Plants. <i>Science</i> , 2006, 312, 883-883.	6.0	754
95	Vectorial Information for Arabidopsis Planar Polarity Is Mediated by Combined AUX1, EIN2, and GNOM Activity. <i>Current Biology</i> , 2006, 16, 2143-2149.	1.8	141
96	Non-cell-autonomous rescue of anaphase-promoting complex function revealed by mosaic analysis of HOBBIT, an Arabidopsis CDC27 homolog. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 13250-13255.	3.3	62
97	Polar auxin transport and patterning: grow with the flow. <i>Genes and Development</i> , 2006, 20, 922-926.	2.7	41
98	Whole-Genome Analysis of the SHORT-ROOT Developmental Pathway in Arabidopsis. <i>PLoS Biology</i> , 2006, 4, e143.	2.6	283
99	The PIN auxin efflux facilitator network controls growth and patterning in Arabidopsis roots. <i>Nature</i> , 2005, 433, 39-44.	13.7	1,789
100	Cell polarity: ROPing the ends together. <i>Current Opinion in Plant Biology</i> , 2005, 8, 613-618.	3.5	51
101	Dissection of Arabidopsis ADP-RIBOSYLATION FACTOR 1 Function in Epidermal Cell Polarity. <i>Plant Cell</i> , 2005, 17, 525-536.	3.1	422
102	The RETINOBLASTOMA-RELATED Gene Regulates Stem Cell Maintenance in Arabidopsis Roots. <i>Cell</i> , 2005, 123, 1337-1349.	13.5	336
103	Mosaic analyses using marked activation and deletion clones dissect Arabidopsis SCARECROW action in asymmetric cell division. <i>Genes and Development</i> , 2004, 18, 1964-1969.	2.7	271
104	Mechanisms of Pattern Formation in Plant Embryogenesis. <i>Annual Review of Genetics</i> , 2004, 38, 587-614.	3.2	81
105	Root genomics: towards digital in situ hybridization. <i>Genome Biology</i> , 2004, 5, 227.	13.9	7
106	The PLETHORA Genes Mediate Patterning of the Arabidopsis Root Stem Cell Niche. <i>Cell</i> , 2004, 119, 109-120.	13.5	1,022
107	Root-Specific CLE19 Overexpression and the sol1/2 Suppressors Implicate a CLV-like Pathway in the Control of Arabidopsis Root Meristem Maintenance. <i>Current Biology</i> , 2003, 13, 1435-1441.	1.8	269
108	Arabidopsis Sterol Endocytosis Involves Actin-Mediated Trafficking via ARA6-Positive Early Endosomes. <i>Current Biology</i> , 2003, 13, 1378-1387.	1.8	390

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109	Cell Polarity and PIN Protein Positioning in Arabidopsis Require STEROL METHYLTRANSFERASE1 Function. <i>Plant Cell</i> , 2003, 15, 612-625.	3.1	260
110	The Arabidopsis Anaphase-Promoting Complex or Cyclosome: Molecular and Genetic Characterization of the APC2 Subunit. <i>Plant Cell</i> , 2003, 15, 2370-2382.	3.1	117
111	SCARECROW is involved in positioning the stem cell niche in the Arabidopsis root meristem. <i>Genes and Development</i> , 2003, 17, 354-358.	2.7	622
112	The Arabidopsis HOBBIT gene encodes a CDC27 homolog that links the plant cell cycle to progression of cell differentiation. <i>Genes and Development</i> , 2002, 16, 2566-2575.	2.7	166
113	Root Development. <i>The Arabidopsis Book</i> , 2002, 1, e0101.	0.5	146
114	AtPIN4 Mediates Sink-Driven Auxin Gradients and Root Patterning in Arabidopsis. <i>Cell</i> , 2002, 108, 661-673.	13.5	763
115	Cell Polarity Signaling in Arabidopsis Involves a BFA-Sensitive Auxin Influx Pathway. <i>Current Biology</i> , 2002, 12, 329-334.	1.8	131
116	Plant Patterning: TRY to Inhibit Your Neighbors. <i>Current Biology</i> , 2002, 12, R804-R806.	1.8	18
117	Cell axiality and polarity in plants "adding pieces to the puzzle. <i>Current Opinion in Plant Biology</i> , 2001, 4, 520-526.	3.5	19
118	Plant Cell Identity. The Role of Position and Lineage: Fig. 1.. <i>Plant Physiology</i> , 2001, 125, 112-114.	2.3	84
119	Playing with Arabidopsis. <i>Plant Physiology</i> , 2001, 126, 468-470.	2.3	0
120	Non-linear signaling for pattern formation?. <i>Current Opinion in Plant Biology</i> , 2000, 3, 412-417.	3.5	23
121	Root development. <i>Current Biology</i> , 2000, 10, R813-R815.	1.8	138
122	An Auxin-Dependent Distal Organizer of Pattern and Polarity in the Arabidopsis Root. <i>Cell</i> , 1999, 99, 463-472.	13.5	1,233
123	ASYMMETRIC CELL DIVISION IN PLANTS. <i>Annual Review of Plant Biology</i> , 1999, 50, 505-537.	14.2	117
124	5 Digging out Roots: Pattern Formation, Cell Division, and Morphogenesis in Plants. <i>Current Topics in Developmental Biology</i> , 1999, 45, 207-247.	1.0	18
125	A LEAFY link from outer space. <i>Nature</i> , 1998, 395, 545-547.	13.7	6
126	Root development: New meanings for root canals?. <i>Current Opinion in Plant Biology</i> , 1998, 1, 32-36.	3.5	17

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127	Cell fate and cell differentiation status in the Arabidopsis root. <i>Planta</i> , 1998, 205, 483-491.	1.6	50
128	The Arabidopsis root as a model to study plant development. <i>Plant Physiology and Biochemistry</i> , 1998, 36, 21-32.	2.8	41
129	Root pattern: Shooting in the dark?. <i>Seminars in Cell and Developmental Biology</i> , 1998, 9, 201-206.	2.3	18
130	Cell signaling in root development. <i>Current Opinion in Genetics and Development</i> , 1997, 7, 501-506.	1.5	16
131	Short-range control of cell differentiation in the Arabidopsis root meristem. <i>Nature</i> , 1997, 390, 287-289.	13.7	659
132	Embryo-patterning genes and reinforcement cues determine cell fate in the Arabidopsis thaliana root. <i>Seminars in Cell and Developmental Biology</i> , 1996, 7, 857-865.	2.3	3
133	Experimental and genetic analysis of root development in Arabidopsis thaliana. <i>Plant and Soil</i> , 1996, 187, 97-105.	1.8	31
134	Isolation and characterization of an auxin-inducible glutathione S-transferase gene of Arabidopsis thaliana. <i>Plant Molecular Biology</i> , 1996, 30, 839-844.	2.0	31
135	The pea early nodulin gene PsENOD7 maps in the region of linkage group I containing sym2 and leghaemoglobin. <i>Plant Molecular Biology</i> , 1996, 31, 149-156.	2.0	20
136	Cell fate in the Arabidopsis root meristem determined by directional signalling. <i>Nature</i> , 1995, 378, 62-65.	13.7	535
137	The PsENOD12 Gene Is Expressed at Two Different Sites in Afghanistan Pea Pseudonodules Induced by Auxin Transport Inhibitors. <i>Plant Physiology</i> , 1992, 100, 1649-1655.	2.3	68
138	Early Nodulins in Pea and Soybean Nodule Development. <i>Current Plant Science and Biotechnology in Agriculture</i> , 1991, , 300-303.	0.0	5
139	Sequential Induction of Nodulin Gene Expression in the Developing Pea Nodule. <i>Plant Cell</i> , 1990, 2, 687.	3.1	44
140	The ENOD12 gene product is involved in the infection process during the pea-rhizobium interaction. <i>Cell</i> , 1990, 60, 281-294.	13.5	293
141	Gradient Expression of Transcription Factor Imposes a Boundary on Organ Regenerative Potential in Plant. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1