

# Richard Scott Poethig

## List of Publications by Year in descending order

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83  
papers

15,564  
citations

32410

55  
h-index

66518

82  
g-index

92  
all docs

92  
docs citations

92  
times ranked

11060  
citing authors

#	ARTICLE	IF	CITATIONS
1	The carbon economics of vegetative phase change. <i>Plant, Cell and Environment</i> , 2022, 45, 1286-1297.	2.8	6
2	The genetic basis of natural variation in the timing of vegetative phase change in <i>Arabidopsis thaliana</i> . <i>Development (Cambridge)</i> , 2022, 149, .	1.2	8
3	MicroRNA156-mediated changes in leaf composition lead to altered photosynthetic traits during vegetative phase change. <i>New Phytologist</i> , 2021, 231, 1008-1022.	3.5	28
4	Vegetative phase change in <i>Populus tremula</i> — <i>Populus alba</i> . <i>New Phytologist</i> , 2021, 231, 351-364.	3.5	29
5	Low light intensity delays vegetative phase change. <i>Plant Physiology</i> , 2021, 187, 1177-1188.	2.3	19
6	VAL genes regulate vegetative phase change via miR156-dependent and independent mechanisms. <i>PLoS Genetics</i> , 2021, 17, e1009626.	1.5	18
7	Lonely at the top? Regulation of shoot apical meristem activity by intrinsic and extrinsic factors. <i>Current Opinion in Plant Biology</i> , 2020, 58, 17-24.	3.5	10
8	Leaf development stages and ontogenetic changes in passionfruit ( <i>Passiflora edulis</i> Sims.) are detected by narrowband spectral signal. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 209, 111931.	1.7	17
9	<i>ALTERED MERISTEM PROGRAM1</i> regulates leaf identity independent of miR156-mediated translational repression. <i>Development (Cambridge)</i> , 2020, 147, .	1.2	7
10	Development and evolution of age-dependent defenses in ant-acacias. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15596-15601.	3.3	34
11	Role for the shoot apical meristem in the specification of juvenile leaf identity in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10168-10177.	3.3	45
12	H2A.Z promotes the transcription of <i>MIR156A</i> and <i>MIR156C</i> in <i>Arabidopsis</i> by facilitating the deposition of H3K4me3. <i>Development (Cambridge)</i> , 2018, 145, .	1.2	56
13	Threshold-dependent repression of SPL gene expression by miR156/miR157 controls vegetative phase change in <i>Arabidopsis thaliana</i> . <i>PLoS Genetics</i> , 2018, 14, e1007337.	1.5	161
14	Repression of miR156 by miR159 Regulates the Timing of the Juvenile-to-Adult Transition in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2017, 29, 1293-1304.	3.1	144
15	Developmental Functions of miR156-Regulated SQUAMOSA PROMOTER BINDING PROTEIN-LIKE (SPL) Genes in <i>Arabidopsis thaliana</i> . <i>PLoS Genetics</i> , 2016, 12, e1006263.	1.5	477
16	Trichome patterning control involves TTG1 interaction with SPL transcription factors. <i>Plant Molecular Biology</i> , 2016, 92, 675-687.	2.0	35
17	Ian Sussex: simple tools, clever experiments and new insights into plant development. <i>Development (Cambridge)</i> , 2016, 143, 3224-3225.	1.2	1
18	Regulation of Vegetative Phase Change by SWI2/SNF2 Chromatin Remodeling ATPase BRAHMA. <i>Plant Physiology</i> , 2016, 172, 2416-2428.	2.3	69

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19	The role of small RNAs in vegetative shoot development. <i>Current Opinion in Plant Biology</i> , 2016, 29, 64-72.	3.5	77
20	Epigenetic Regulation of Vegetative Phase Change in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2016, 28, 28-41.	3.1	112
21	Traffic Lines: New Tools for Genetic Analysis in <i>Arabidopsis thaliana</i> . <i>Genetics</i> , 2015, 200, 35-45.	1.2	37
22	The <i>Arabidopsis</i> Mediator CDK8 module genes <i>CCT</i> ( <i>MED12</i> ) and <i>GCT</i> ( <i>MED13</i> ) are global regulators of developmental phase transitions. <i>Development (Cambridge)</i> , 2014, 141, 4580-4589.	1.2	50
23	Genetic Control of Heterochrony in <i>Eucalyptus globulus</i> . <i>G3: Genes, Genomes, Genetics</i> , 2014, 4, 1235-1245.	0.8	36
24	Vegetative Phase Change and Shoot Maturation in Plants. <i>Current Topics in Developmental Biology</i> , 2013, 105, 125-152.	1.0	234
25	3â€² fragment of miR173-programmed RISC-cleaved RNA is protected from degradation in a complex with RISC and SGS3. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 4117-4122.	3.3	86
26	Sugar promotes vegetative phase change in <i>Arabidopsis thaliana</i> by repressing the expression of MIR156A and MIR156C. <i>ELife</i> , 2013, 2, e00260.	2.8	295
27	Mutations in the GW-repeat protein SUO reveal a developmental function for microRNA-mediated translational repression in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 315-320.	3.3	163
28	MiRNA Control of Vegetative Phase Change in Trees. <i>PLoS Genetics</i> , 2011, 7, e1002012.	1.5	374
29	The effect of the floral repressor <i>FLC</i> on the timing and progression of vegetative phase change in <i>Arabidopsis</i> . <i>Development (Cambridge)</i> , 2011, 138, 677-685.	1.2	77
30	Vegetative phase change is mediated by a leaf-derived signal that represses the transcription of miR156. <i>Development (Cambridge)</i> , 2011, 138, 245-249.	1.2	159
31	Binding of the Cyclophilin 40 Ortholog SQUINT to Hsp90 Protein Is Required for SQUINT Function in <i>Arabidopsis</i> . <i>Journal of Biological Chemistry</i> , 2011, 286, 38184-38189.	1.6	57
32	The MED12-MED13 module of Mediator regulates the timing of embryo patterning in <i>Arabidopsis</i> . <i>Development (Cambridge)</i> , 2010, 137, 113-122.	1.2	107
33	The Past, Present, and Future of Vegetative Phase Change. <i>Plant Physiology</i> , 2010, 154, 541-544.	2.3	124
34	Cyclophilin 40 is required for microRNA activity in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5424-5429.	3.3	156
35	GAL4 GFP enhancer trap lines for analysis of stomatal guard cell development and gene expression. <i>Journal of Experimental Botany</i> , 2009, 60, 213-226.	2.4	82
36	The MicroRNA-Regulated SBP-Box Transcription Factor SPL3 Is a Direct Upstream Activator of LEAFY, FRUITFULL, and APETALA1. <i>Developmental Cell</i> , 2009, 17, 268-278.	3.1	509

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37	The Sequential Action of miR156 and miR172 Regulates Developmental Timing in Arabidopsis. <i>Cell</i> , 2009, 138, 750-759.	13.5	1,405
38	Small RNAs and developmental timing in plants. <i>Current Opinion in Genetics and Development</i> , 2009, 19, 374-378.	1.5	185
39	Criteria for Annotation of Plant MicroRNAs. <i>Plant Cell</i> , 2008, 20, 3186-3190.	3.1	1,158
40	KANADI1 regulates adaxial-abaxial polarity in <i>Arabidopsis</i> by directly repressing the transcription of <i>ASYMMETRIC LEAVES2</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 16392-16397.	3.3	124
41	DICER-LIKE2 Plays a Primary Role in Transitive Silencing of Transgenes in Arabidopsis. <i>PLoS ONE</i> , 2008, 3, e1755.	1.1	154
42	Conservation and evolution of miRNA regulatory programs in plant development. <i>Current Opinion in Plant Biology</i> , 2007, 10, 503-511.	3.5	151
43	Time of day modulates low-temperature Ca <sup>2+</sup> signals in Arabidopsis. <i>Plant Journal</i> , 2006, 48, 962-973.	2.8	145
44	MicroRNAs and other small RNAs enriched in the Arabidopsis RNA-dependent RNA polymerase-2 mutant. <i>Genome Research</i> , 2006, 16, 1276-1288.	2.4	329
45	Genetic Interaction between the AS1-AS2 and RDR6-SGS3-AGO7 Pathways for Leaf Morphogenesis. <i>Plant and Cell Physiology</i> , 2006, 47, 853-863.	1.5	63
46	EARLY IN SHORT DAYS 1 (ESD1) encodes ACTIN-RELATED PROTEIN 6 (AtARP6), a putative component of chromatin remodelling complexes that positively regulates FLC accumulation in Arabidopsis. <i>Development (Cambridge)</i> , 2006, 133, 1241-1252.	1.2	144
47	Temporal regulation of shoot development in Arabidopsis thaliana by miR156 and its target SPL3. <i>Development (Cambridge)</i> , 2006, 133, 3539-3547.	1.2	1,002
48	Trans-acting siRNA-mediated repression of ETTIN and ARF4 regulates heteroblasty in Arabidopsis. <i>Development (Cambridge)</i> , 2006, 133, 2973-2981.	1.2	326
49	Time to grow up: the temporal role of smallRNAs in plants. <i>Current Opinion in Plant Biology</i> , 2005, 8, 548-552.	3.5	57
50	A pathway for the biogenesis of trans-acting siRNAs in Arabidopsis. <i>Genes and Development</i> , 2005, 19, 2164-2175.	2.7	658
51	Nuclear processing and export of microRNAs in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 3691-3696.	3.3	598
52	SGS3 and SGS2/SDE1/RDR6 are required for juvenile development and the production of trans-acting siRNAs in Arabidopsis. <i>Genes and Development</i> , 2004, 18, 2368-2379.	2.7	827
53	ReFUSing to Grow Up. <i>Developmental Cell</i> , 2004, 7, 288-289.	3.1	1
54	The Arabidopsis Heterochronic Gene ZIPPY Is an ARGONAUTE Family Member. <i>Current Biology</i> , 2003, 13, 1734-1739.	1.8	214

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55	miSSING LINKS: miRNAs and plant development. <i>Current Opinion in Genetics and Development</i> , 2003, 13, 372-378.	1.5	62
56	Phase Change and the Regulation of Developmental Timing in Plants. <i>Science</i> , 2003, 301, 334-336.	6.0	309
57	PAUSED Encodes the Arabidopsis Exportin-t Ortholog. <i>Plant Physiology</i> , 2003, 132, 2135-2143.	2.3	74
58	HASTY, the Arabidopsis ortholog of exportin 5/MSN5, regulates phase change and morphogenesis. <i>Development (Cambridge)</i> , 2003, 130, 1493-1504.	1.2	249
59	The early phase change Gene in Maize. <i>Plant Cell</i> , 2002, 14, 133-147.	3.1	41
60	MicroRNAs: Something New Under the Sun. <i>Current Biology</i> , 2002, 12, R688-R690.	1.8	26
61	Transformation of shoots into roots in <i>Arabidopsis</i> embryos mutant at the <i>TOPLESS</i> locus. <i>Development (Cambridge)</i> , 2002, 129, 2797-2806.	1.2	85
62	Genetic Evidence and the Origin of Maize. <i>Latin American Antiquity</i> , 2001, 12, 84-86.	0.3	39
63	KANADI regulates organ polarity in Arabidopsis. <i>Nature</i> , 2001, 411, 706-709.	13.7	540
64	Regulation of Vegetative Phase Change in Arabidopsis thaliana by Cyclophilin 40. <i>Science</i> , 2001, 291, 2405-2407.	6.0	132
65	Phase identity of the maize leaf is determined after leaf initiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 10631-10636.	3.3	46
66	THE SPECIFICATION OF LEAF IDENTITY DURING SHOOT DEVELOPMENT. <i>Annual Review of Cell and Developmental Biology</i> , 1998, 14, 373-398.	4.0	153
67	Clonal analysis of leaf development in cotton. <i>American Journal of Botany</i> , 1998, 85, 315-321.	0.8	41
68	The Okra leaf shape mutation in cotton is active in all cell layers of the leaf. <i>American Journal of Botany</i> , 1998, 85, 322-327.	0.8	25
69	Leaf morphogenesis in flowering plants.. <i>Plant Cell</i> , 1997, 9, 1077-1087.	3.1	153
70	Mutations of Arabidopsis thaliana that transform leaves into cotyledons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 10209-10214.	3.3	86
71	The viviparous8 mutation delays vegetative phase change and accelerates the rate of seedling growth in maize. <i>Plant Journal</i> , 1997, 12, 769-779.	2.8	31
72	Heteroblastic Features of Leaf Anatomy in Maize and Their Genetic Regulation. <i>International Journal of Plant Sciences</i> , 1996, 157, 331-340.	0.6	72

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73	Shoot development in plants: time for a change. Trends in Genetics, 1995, 11, 263-268.	2.9	146
74	Gibberellins Promote Vegetative Phase Change and Reproductive Maturity in Maize. Plant Physiology, 1995, 108, 475-487.	2.3	137
75	Phase Change and the Regulation of Shoot Morphogenesis in Plants. Science, 1990, 250, 923-930.	6.0	576
76	Genetic mosaics and cell lineage analysis in plants. Trends in Genetics, 1989, 5, 273-277.	2.9	166
77	Cell-lineage patterns in the shoot apical meristem of the germinating maize embryo. Planta, 1988, 175, 13-22.	1.6	154
78	A non-“cell” autonomous mutation regulating juvenility in maize. Nature, 1988, 336, 82-83.	13.7	49
79	CLONAL ANALYSIS OF CELL LINEAGE PATTERNS IN PLANT DEVELOPMENT. American Journal of Botany, 1987, 74, 581-594.	0.8	117
80	CLONAL ANALYSIS OF CELL LINEAGE PATTERNS IN PLANT DEVELOPMENT. , 1987, 74, 581.		84
81	Cell lineage patterns in maize embryogenesis: A clonal analysis. Developmental Biology, 1986, 117, 392-404.	0.9	120
82	The developmental morphology and growth dynamics of the tobacco leaf. Planta, 1985, 165, 158-169.	1.6	181
83	The cellular parameters of leaf development in tobacco: a clonal analysis. Planta, 1985, 165, 170-184.	1.6	220