Richard Scott Poethig

List of Publications by Year
in descending order

83 papers	15,564 citations	28190 55 h-index	58464 82 g-index
92 all docs	92 docs citations	92 times ranked	9941 citing authors

#	Article	IF	Citations
1	The Sequential Action of miR156 and miR172 Regulates Developmental Timing in Arabidopsis. Cell, 2009, 138, 750-759.	13.5	1,405
2	Criteria for Annotation of Plant MicroRNAs. Plant Cell, 2008, 20, 3186-3190.	3.1	1,158
3	Temporal regulation of shoot development in Arabidopsis thalianaby miR156 and its target SPL3. Development (Cambridge), 2006, 133, 3539-3547.	1.2	1,002
4	SGS3 and SGS2/SDE1/RDR6 are required for juvenile development and the production of trans-acting siRNAs in Arabidopsis. Genes and Development, 2004, 18, 2368-2379.	2.7	827
5	A pathway for the biogenesis of trans-acting siRNAs in Arabidopsis. Genes and Development, 2005, 19, 2164-2175.	2.7	658
6	Nuclear processing and export of microRNAs in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 3691-3696.	3.3	598
7	Phase Change and the Regulation of Shoot Morphogenesis in Plants. Science, 1990, 250, 923-930.	6.0	576
8	KANADI regulates organ polarity in Arabidopsis. Nature, 2001, 411, 706-709.	13.7	540
9	The MicroRNA-Regulated SBP-Box Transcription Factor SPL3 Is a Direct Upstream Activator of LEAFY, FRUITFULL, and APETALA1. Developmental Cell, 2009, 17, 268-278.	3.1	509
10	Developmental Functions of miR156-Regulated SQUAMOSA PROMOTER BINDING PROTEIN-LIKE (SPL) Genes in Arabidopsis thaliana. PLoS Genetics, 2016, 12, e1006263.	1.5	477
11	MiRNA Control of Vegetative Phase Change in Trees. PLoS Genetics, 2011, 7, e1002012.	1.5	374
12	MicroRNAs and other small RNAs enriched in the Arabidopsis RNA-dependent RNA polymerase-2 mutant. Genome Research, 2006, 16, 1276-1288.	2.4	329
13	Trans-acting siRNA-mediated repression of ETTIN and ARF4 regulates heteroblasty in Arabidopsis. Development (Cambridge), 2006, 133, 2973-2981.	1.2	326
14	Phase Change and the Regulation of Developmental Timing in Plants. Science, 2003, 301, 334-336.	6.0	309
15	Sugar promotes vegetative phase change in Arabidopsis thaliana by repressing the expression of MIR156A and MIR156C. ELife, 2013, 2, e00260.	2.8	295
16	HASTY, theArabidopsisortholog of exportin 5/MSN5, regulates phase change and morphogenesis. Development (Cambridge), 2003, 130, 1493-1504.	1.2	249
17	Vegetative Phase Change and Shoot Maturation in Plants. Current Topics in Developmental Biology, 2013, 105, 125-152.	1.0	234
18	The cellular parameters of leaf development in tobacco: a clonal analysis. Planta, 1985, 165, 170-184.	1.6	220

#	Article	IF	Citations
19	The Arabidopsis Heterochronic Gene ZIPPY Is an ARGONAUTE Family Member. Current Biology, 2003, 13, 1734-1739.	1.8	214
20	Small RNAs and developmental timing in plants. Current Opinion in Genetics and Development, 2009, 19, 374-378.	1.5	185
21	The developmental morphology and growth dynamics of the tobacco leaf. Planta, 1985, 165, 158-169.	1.6	181
22	Genetic mosaics and cell lineage analysis in plants. Trends in Genetics, 1989, 5, 273-277.	2.9	166
23	Mutations in the GW-repeat protein SUO reveal a developmental function for microRNA-mediated translational repression in <i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 315-320.	3.3	163
24	Threshold-dependent repression of SPL gene expression by miR156/miR157 controls vegetative phase change in Arabidopsis thaliana. PLoS Genetics, 2018, 14, e1007337.	1.5	161
25	Vegetative phase change is mediated by a leaf-derived signal that represses the transcription of miR156. Development (Cambridge), 2011, 138, 245-249.	1.2	159
26	Cyclophilin 40 is required for microRNA activity in <i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5424-5429.	3.3	156
27	Cell-lineage patterns in the shoot apical meristem of the germinating maize embryo. Planta, 1988, 175, 13-22.	1.6	154
28	DICER-LIKE2 Plays a Primary Role in Transitive Silencing of Transgenes in Arabidopsis. PLoS ONE, 2008, 3, e1755.	1.1	154
29	Leaf morphogenesis in flowering plants.. Plant Cell, 1997, 9, 1077-1087.	3.1	153
30	THE SPECIFICATION OF LEAF IDENTITY DURING SHOOT DEVELOPMENT. Annual Review of Cell and Developmental Biology, 1998, 14, 373-398.	4.0	153
31	Conservation and evolution of miRNA regulatory programs in plant development. Current Opinion in Plant Biology, 2007, 10, 503-511.	3.5	151
32	Shoot development in plants: time for a change. Trends in Genetics, 1995, 11, 263-268.	2.9	146
33	Time of day modulates low-temperature Ca2+signals in Arabidopsis. Plant Journal, 2006, 48, 962-973.	2.8	145
34	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. Development (Cambridge), 2006, 133, 1241-1252.	1.2	144
35	Repression of miR156 by miR159 Regulates the Timing of the Juvenile-to-Adult Transition in Arabidopsis. Plant Cell, 2017, 29, 1293-1304.	3.1	144
36	Gibberellins Promote Vegetative Phase Change and Reproductive Maturity in Maize. Plant Physiology, 1995, 108, 475-487.	2.3	137

#	Article	IF	Citations
37	Regulation of Vegetative Phase Change in Arabidopsis thaliana by Cyclophilin 40. Science, 2001, 291, 2405-2407.	6.0	132
38	KANADI1 regulates adaxialâ€“abaxial polarity in <i>Arabidopsis</i> by directly repressing the transcription of <i>ASYMMETRIC LEAVES2</i>. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 16392-16397.	3.3	124
39	The Past, Present, and Future of Vegetative Phase Change. Plant Physiology, 2010, 154, 541-544.	2.3	124
40	Cell lineage patterns in maize embryogenesis: A clonal analysis. Developmental Biology, 1986, 117, 392-404.	0.9	120
41	CLONAL ANALYSIS OF CELL LINEAGE PATTERNS IN PLANT DEVELOPMENT. American Journal of Botany, 1987, 74, 581-594.	0.8	117
42	Epigenetic Regulation of Vegetative Phase Change in Arabidopsis. Plant Cell, 2016, 28, 28-41.	3.1	112
43	The MED12-MED13 module of Mediator regulates the timing of embryo patterning in <i>Arabidopsis</i>. Development (Cambridge), 2010, 137, 113-122.	1.2	107
44	Mutations of Arabidopsis thaliana that transform leaves into cotyledons. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 10209-10214.	3.3	86
45	3â€² fragment of miR173-programmed RISC-cleaved RNA is protected from degradation in a complex with RISC and SGS3. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4117-4122.	3.3	86
46	Transformation of shoots into roots in<i>Arabidopsis</i>embryos mutant at the<i>TOPLESS</i>locus. Development (Cambridge), 2002, 129, 2797-2806.	1.2	85
47	CLONAL ANALYSIS OF CELL LINEAGE PATTERNS IN PLANT DEVELOPMENT. , 1987, 74, 581.		84
48	GAL4 GFP enhancer trap lines for analysis of stomatal guard cell development and gene expression. Journal of Experimental Botany, 2009, 60, 213-226.	2.4	82
49	The effect of the floral repressor<i>FLC</i>on the timing and progression of vegetative phase change in<i>Arabidopsis</i>. Development (Cambridge), 2011, 138, 677-685.	1.2	77
50	The role of small RNAs in vegetative shoot development. Current Opinion in Plant Biology, 2016, 29, 64-72.	3.5	77
51	PAUSED Encodes the Arabidopsis Exportin-t Ortholog. Plant Physiology, 2003, 132, 2135-2143.	2.3	74
52	Heteroblastic Features of Leaf Anatomy in Maize and Their Genetic Regulation. International Journal of Plant Sciences, 1996, 157, 331-340.	0.6	72
53	Regulation of Vegetative Phase Change by SWI2/SNF2 Chromatin Remodeling ATPase BRAHMA. Plant Physiology, 2016, 172, 2416-2428.	2.3	69
54	Genetic Interaction between the AS1â€“AS2 and RDR6â€“SGS3â€“AGO7 Pathways for Leaf Morphogenesis. Plant and Cell Physiology, 2006, 47, 853-863.	1.5	63

#	Article	IF	Citations
55	miSSING LINKS: miRNAs and plant development. Current Opinion in Genetics and Development, 2003, 13, 372-378.	1.5	62
56	Time to grow up: the temporal role of smallRNAs in plants. Current Opinion in Plant Biology, 2005, 8, 548-552.	3.5	57
57	Binding of the Cyclophilin 40 Ortholog SQUINT to Hsp90 Protein Is Required for SQUINT Function in Arabidopsis. Journal of Biological Chemistry, 2011, 286, 38184-38189.	1.6	57
58	H2A.Z promotes the transcription of <i>MIR156A</i> and <i>MIR156C</i> in <i>Arabidopsis</i> by facilitating the deposition of H3K4me3. Development (Cambridge), 2018, 145, .	1.2	56
59	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. Development (Cambridge), 2014, 141, 4580-4589.	1.2	50
60	A nonâ€“cellâ€“autonomous mutation regulating juvenility in maize. Nature, 1988, 336, 82-83.	13.7	49
61	Phase identity of the maize leaf is determined after leaf initiation. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 10631-10636.	3.3	46
62	Role for the shoot apical meristem in the specification of juvenile leaf identity in <i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10168-10177.	3.3	45
63	Clonal analysis of leaf development in cotton. American Journal of Botany, 1998, 85, 315-321.	0.8	41
64	The early phase change Gene in Maize. Plant Cell, 2002, 14, 133-147.	3.1	41
65	Genetic Evidence and the Origin of Maize. Latin American Antiquity, 2001, 12, 84-86.	0.3	39
66	Traffic Lines: New Tools for Genetic Analysis in<i>Arabidopsis thaliana</i>. Genetics, 2015, 200, 35-45.	1.2	37
67	Genetic Control of Heterochrony in <i>Eucalyptus globulus</i>. G3: Genes, Genomes, Genetics, 2014, 4, 1235-1245.	0.8	36
68	Trichome patterning control involves TTG1 interaction with SPL transcription factors. Plant Molecular Biology, 2016, 92, 675-687.	2.0	35
69	Development and evolution of age-dependent defenses in ant-acacias. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15596-15601.	3.3	34
70	The viviparous8 mutation delays vegetative phase change and accelerates the rate of seedling growth in maize. Plant Journal, 1997, 12, 769-779.	2.8	31
71	Vegetative phase change in <i>Populus tremula</i>ÂÃ—Â<i>alba</i>. New Phytologist, 2021, 231, 351-364.	3.5	29
72	MicroRNA156â€mediated changes in leaf composition lead to altered photosynthetic traits during vegetative phase change. New Phytologist, 2021, 231, 1008-1022.	3.5	28

#	Article	IF	Citations
73	MicroRNAs: Something New Under the Sun. Current Biology, 2002, 12, R688-R690.	1.8	26
74	The Okra leaf shape mutation in cotton is active in all cell layers of the leaf. American Journal of Botany, 1998, 85, 322-327.	0.8	25
75	Low light intensity delays vegetative phase change. Plant Physiology, 2021, 187, 1177-1188.	2.3	19
76	VAL genes regulate vegetative phase change via miR156-dependent and independent mechanisms. PLoS Genetics, 2021, 17, e1009626.	1.5	18
77	Leaf development stages and ontogenetic changes in passionfruit (Passiflora edulis Sims.) are detected by narrowband spectral signal. Journal of Photochemistry and Photobiology B: Biology, 2020, 209, 111931.	1.7	17
78	Lonely at the top? Regulation of shoot apical meristem activity by intrinsic and extrinsic factors. Current Opinion in Plant Biology, 2020, 58, 17-24.	3.5	10
79	The genetic basis of natural variation in the timing of vegetative phase change in<i>Arabidopsis thaliana</i>. Development (Cambridge), 2022, 149, .	1.2	8
80	<i>ALTERED MERISTEM PROGRAM1</i> regulates leaf identity independent of miR156-mediated translational repression. Development (Cambridge), 2020, 147, .	1.2	7
81	The carbon economics of vegetative phase change. Plant, Cell and Environment, 2022, 45, 1286-1297.	2.8	6
82	ReFUSing to Grow Up. Developmental Cell, 2004, 7, 288-289.	3.1	1
83	Ian Sussex: simple tools, clever experiments and new insights into plant development. Development (Cambridge), 2016, 143, 3224-3225.	1.2	1