Elena M Kramer

List of Publications by Citations

80 papers	3,712 citations	31 h-index	60 g-index
93 ext. papers	4,580 ext. citations	7.1 avg, IF	5.6 L-index

#	Paper	IF	Citations
80	Molecular evolution of genes controlling petal and stamen development: duplication and divergence within the APETALA3 and PISTILLATA MADS-box gene lineages. *Genetics*, **1998**, 149, 765-83	4	384
79	Patterns of gene duplication and functional evolution during the diversification of the AGAMOUS subfamily of MADS box genes in angiosperms. *Genetics*, **2004**, 166, 1011-23	4	335
78	Major flowering time gene, flowering locus C, regulates seed germination in Arabidopsis thaliana. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 11661-6	11.5	209
77	Evolution of genetic mechanisms controlling petal development. *Nature*, **1999**, 399, 144-8	50.4	209
76	Elaboration of B gene function to include the identity of novel floral organs in the lower eudicot Aquilegia. *Plant Cell*, **2007**, 19, 750-66	11.6	151
75	The ABC model and the diversification of floral organ identity. *Seminars in Cell and Developmental Biology*, **2010**, 21, 129-37	7.5	138
74	Evolution of the Petal and Stamen Developmental Programs: Evidence from Comparative Studies of the Lower Eudicots and Basal Angiosperms. *International Journal of Plant Sciences*, **2000**, 161, S29-S40	2.6	136
73	Evolution of the APETALA3 and PISTILLATA lineages of MADS-box-containing genes in the basal angiosperms. *Molecular Biology and Evolution*, **2004**, 21, 506-19	8.3	116
72	Differential regulation of symmetry genes and the evolution of floral morphologies. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 12814-9	11.5	109
71	Virus-induced gene silencing as a tool for functional analyses in the emerging model plant Aquilegia (columbine, Ranunculaceae). *Plant Methods*, **2007**, 3, 6	5.8	101
70	Are we there yet? Tracking the development of new model systems. *Trends in Genetics*, **2008**, 24, 353-60	8.5	92
69	Floral symmetry genes and the origin and maintenance of zygomorphy in a plant-pollinator mutualism. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 6388-93	11.5	91
68	Floral MADS box genes and homeotic gender dimorphism in Thalictrum dioicum (Ranunculaceae) - a new model for the study of dioecy. *Plant Journal*, **2005**, 41, 755-66	6.9	78
67	Aquilegia: a new model for plant development, ecology, and evolution. *Annual Review of Plant Biology*, **2009**, 60, 261-77	30.7	75
66	Evolutionary dynamics of genes controlling floral development. *Current Opinion in Plant Biology*, **2005**, 8, 13-8	9.9	71
65	STENOFOLIA recruits TOPLESS to repress ASYMMETRIC LEAVES2 at the leaf margin and promote leaf blade outgrowth in Medicago truncatula. *Plant Cell*, **2014**, 26, 650-64	11.6	67
64	The pomegranate (Punica granatum L.) genome and the genomics of punicalagin biosynthesis. *Plant Journal*, **2017**, 91, 1108-1128	6.9	66

63	A simplified explanation for the frameshift mutation that created a novel C-terminal motif in the APETALA3 gene lineage. *BMC Evolutionary Biology*, **2006**, 6, 30	3	66
62	Disruption of the petal identity gene APETALA3-3 is highly correlated with loss of petals within the buttercup family (Ranunculaceae). *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 5074-9	11.5	65
61	One size fits all? Molecular evidence for a commonly inherited petal identity program in Ranunculales. *American Journal of Botany*, **2009**, 96, 96-109	2.7	64
60	The genome provides insight into adaptive radiation and reveals an extraordinarily polymorphic chromosome with a unique history. *ELife*, **2018**, 7,	8.9	63
59	Aquilegia as a model system for the evolution and ecology of petals. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2010**, 365, 477-90	5.8	62
58	Petal-specific subfunctionalization of an APETALA3 paralog in the Ranunculales and its implications for petal evolution. *New Phytologist*, **2011**, 191, 870-883	9.8	55
57	Deep annotation of Populus trichocarpa microRNAs from diverse tissue sets. *PLoS ONE*, **2012**, 7, e33034	3.7	54
56	Evolution of spur-length diversity in Aquilegia petals is achieved solely through cell-shape anisotropy. *Proceedings of the Royal Society B: Biological Sciences*, **2012**, 279, 1640-5	4.4	53
55	APETALA3 and PISTILLATA homologs exhibit novel expression patterns in the unique perianth of Aristolochia (Aristolochiaceae). *Evolution & Development*, **2004**, 6, 449-58	2.6	48
54	The Aquilegia FRUITFULL-like genes play key roles in leaf morphogenesis and inflorescence development. *Plant Journal*, **2013**, 74, 197-212	6.9	46
53	Sub- and neo-functionalization of APETALA3 paralogs have contributed to the evolution of novel floral organ identity in Aquilegia (columbine, Ranunculaceae). *New Phytologist*, **2013**, 197, 949-957	9.8	44
52	Old dogs, new tricks: regulatory evolution in conserved genetic modules leads to novel morphologies in plants. *Developmental Biology*, **2009**, 332, 25-35	3.1	42
51	The evolution of reproductive structures in seed plants: a re-examination based on insights from developmental genetics. *New Phytologist*, **2012**, 194, 910-923	9.8	39
50	Molecular basis for three-dimensional elaboration of the Aquilegia petal spur. *Proceedings of the Royal Society B: Biological Sciences*, **2015**, 282, 20142778	4.4	36
49	Divergent genetic mechanisms underlie reversals to radial floral symmetry from diverse zygomorphic flowered ancestors. *Frontiers in Plant Science*, **2013**, 4, 302	6.2	31
48	Genetic basis for innovations in floral organ identity. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, **2005**, 304, 526-35	1.8	31
47	Genetic and Molecular Analysis of Angiosperm Flower Development. *Advances in Botanical Research*, **1998**, 28, 197-230	2.2	29
46	Large-scale phylogenomic analysis suggests three ancient superclades of the WUSCHEL-RELATED HOMEOBOX transcription factor family in plants. *PLoS ONE*, **2019**, 14, e0223521	3.7	27

45	Understanding the development and evolution of novel floral form in Aquilegia. *Current Opinion in Plant Biology*, **2014**, 17, 22-7	9.9	25
44	Understanding the basis of a novel fruit type in Brassicaceae: conservation and deviation in expression patterns of six genes. *EvoDevo*, **2012**, 3, 20	3.2	25
43	Within and between whorls: comparative transcriptional profiling of Aquilegia and Arabidopsis. *PLoS ONE*, **2010**, 5, e9735	3.7	24
42	Developmental origins of the world's largest flowers, Rafflesiaceae. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 18578-83	11.5	23
41	Methods for studying the evolution of plant reproductive structures: comparative gene expression techniques. *Methods in Enzymology*, **2005**, 395, 617-36	1.7	23
40	Molecular evolution of the petal and stamen identity genes, APETALA3 and PISTILLATA, after petal loss in the Piperales. *Molecular Phylogenetics and Evolution*, **2007**, 44, 598-609	4.1	22
39	Exploring the evolutionary origin of floral organs of Erycina pusilla, an emerging orchid model system. *BMC Evolutionary Biology*, **2017**, 17, 89	3	21
38	Homologs of the STYLISH gene family control nectary development in Aquilegia. *New Phytologist*, **2019**, 221, 1090-1100	9.8	21
37	Environmental and molecular analysis of the floral transition in the lower eudicot Aquilegia formosa. *EvoDevo*, **2011**, 2, 4	3.2	21
36	Identification of conserved Aquilegia coerulea microRNAs and their targets. *Gene*, **2009**, 448, 46-56	3.8	18
35	Patterns of Gene Duplication and Functional Evolution During the Diversification of the AGAMOUS Subfamily of MADS Box Genes in Angiosperms. *Genetics*, **2004**, 166, 1011-1023	4	17
34	Gene Duplication and Floral Developmental Genetics of Basal Eudicots. *Advances in Botanical Research*, **2006**, 353-384	2.2	15
33	The corona of the daffodil Narcissus bulbocodium shares stamen-like identity and is distinct from the orthodox floral whorls. *Plant Journal*, **2013**, 74, 615-25	6.9	14
32	Floral MADS-box Genes in Trioecious Papaya: Characterization of AG and AP1 Subfamily Genes Revealed a Sex-type-specific Gene. *Tropical Plant Biology*, **2008**, 1, 97-107	1.6	12
31	B gene homologs promote petaloidy of the sepals and maintenance of the C domain boundary. *EvoDevo*, **2017**, 8, 22	3.2	11
30	Breaking the mold: understanding the evolution and development of lateral organs in diverse plant models. *Current Opinion in Genetics and Development*, **2016**, 39, 79-84	4.9	10
29	Understanding the Genetic Basis of Floral Diversity. *BioScience*, **2007**, 57, 479-487	5.7	10
28	, encoding a C2H2 zinc-finger transcription factor, plays a central role in the development of a key innovation, floral nectar spurs, in. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 22552-22560	11.5	10

27	Comparative transcriptomics of early petal development across four diverse species of Aquilegia reveal few genes consistently associated with nectar spur development. *BMC Genomics*, **2019**, 20, 668	4.5	9
26	Columbines. *Current Biology*, **2007**, 17, R992-4	6.3	9
25	Virus-induced gene silencing in the rapid cycling columbine Aquilegia coerulea "Origami". *Methods in Molecular Biology*, **2013**, 975, 71-81	1.4	8
24	The Aquilegia JAGGED homolog promotes proliferation of adaxial cell types in both leaves and stems. *New Phytologist*, **2017**, 216, 536-548	9.8	7
23	A stranger in a strange land: the utility and interpretation of heterologous expression. *Frontiers in Plant Science*, **2015**, 6, 734	6.2	7
22	Plus ça change, plus c'est la même chose: The developmental evolution of flowers. *Current Topics in Developmental Biology*, **2019**, 131, 211-238	5.3	7
21	The MADS-Box Gene Family of the Basal Eudicot and HybridAquilegia coerulea'Origami' (Ranunculaceae)1. *Annals of the Missouri Botanical Garden*, **2014**, 99, 313-322	1.8	6
20	Chapter 4. New model systems for the study of developmental evolution in plants. *Current Topics in Developmental Biology*, **2009**, 86, 67-105	5.3	6
19	Identification of the Key Regulatory Genes Involved in Elaborate Petal Development and Specialized Character Formation in (Ranunculaceae). *Plant Cell*, **2020**, 32, 3095-3112	11.6	6
18	Characterization of Aquilegia Polycomb Repressive Complex 2 homologs reveals absence of imprinting. *Gene*, **2012**, 507, 54-60	3.8	5
17	A role for the Auxin Response Factors ARF6 and ARF8 homologs in petal spur elongation and nectary maturation in Aquilegia. *New Phytologist*, **2020**, 227, 1392-1405	9.8	4
16	Conserved roles for Polycomb Repressive Complex 2 in the regulation of lateral organ development in Aquilegia x coerulea 'Origami' *BMC Plant Biology*, **2013**, 13, 185	5.3	4
15	Evolution. Traversing the adaptive landscape in snapdragons. *Science*, **2006**, 313, 924-5	33.3	4
14	Floral Patterning and Control of Floral Organ Formation49-70		4
13	Homologs of and Promote the Transition From Inflorescence to Floral Meristem Identity in the Cymose. *Frontiers in Plant Science*, **2019**, 10, 1218	6.2	3
12	Evolutionary Analysis of Snf1-Related Protein Kinase2 (SnRK2) and Calcium Sensor (SCS) Gene Lineages, and Dimerization of Rice Homologs, Suggest Deep Biochemical Conservation across Angiosperms. *Frontiers in Plant Science*, **2017**, 8, 395	6.2	3
11	Transcriptome profiling and weighted gene co-expression network analysis of early floral development in Aquilegia coerulea. *Scientific Reports*, **2020**, 10, 19637	4.9	3
10	Pre-meiotic 21-nucleotide reproductive phasiRNAs emerged in seed plants and diversified in flowering plants. *Nature Communications*, **2021**, 12, 4941	17.4	3

9	Developmental and Molecular Changes Underlying the Vernalization-Induced Transition to Flowering in (James). *Genes*, **2019**, 10,	4.2	2
8	Developmental and molecular characterization of novel staminodes in Aquilegia. *Annals of Botany*, **2020**, 126, 231-243	4.1	1
7	Pre-meiotic, 21-nucleotide Reproductive PhasiRNAs Emerged in Seed Plants and Diversified in Flowering Plants		1
6	Genetic architecture of floral traits in bee- and hummingbird-pollinated sister species of Aquilegia (columbine)		1
5	Brassinosteroids regulate petal spur length in Aquilegia by controlling cell elongation. *Annals of Botany*, **2021**, 128, 931-942	4.1	1
4	Genetic architecture of floral traits in bee- and hummingbird-pollinated sister species of Aquilegia (columbine). *Evolution; International Journal of Organic Evolution*, **2021**, 75, 2197-2216	3.8	0
3	My favourite flowering image: an Aquilegia flower. *Journal of Experimental Botany*, **2020**, 71, e1-e3	7	
2	Floral Patterning and Control of Floral Organ Formation **2018**, 49-70		
1	Floral Architecture: Regulation and Diversity of Floral Shape and Pattern **2018**, 121-148		