

# Elena M Kramer

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Pre-meiotic 21-nucleotide reproductive phasiRNAs emerged in seed plants and diversified in flowering plants. <i>Nature Communications</i> , <b>2021</b> , 12, 4941	17.4	3
79	Genetic architecture of floral traits in bee- and hummingbird-pollinated sister species of <i>Aquilegia</i> (columbine). <i>Evolution; International Journal of Organic Evolution</i> , <b>2021</b> , 75, 2197-2216	3.8	0
78	Brassinosteroids regulate petal spur length in <i>Aquilegia</i> by controlling cell elongation. <i>Annals of Botany</i> , <b>2021</b> , 128, 931-942	4.1	1
77	Developmental and molecular characterization of novel staminodes in <i>Aquilegia</i> . <i>Annals of Botany</i> , <b>2020</b> , 126, 231-243	4.1	1
76	A role for the Auxin Response Factors ARF6 and ARF8 homologs in petal spur elongation and nectary maturation in <i>Aquilegia</i> . <i>New Phytologist</i> , <b>2020</b> , 227, 1392-1405	9.8	4
75	Identification of the Key Regulatory Genes Involved in Elaborate Petal Development and Specialized Character Formation in (Ranunculaceae). <i>Plant Cell</i> , <b>2020</b> , 32, 3095-3112	11.6	6
74	, encoding a C2H2 zinc-finger transcription factor, plays a central role in the development of a key innovation, floral nectar spurs, in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 22552-22560	11.5	10
73	Transcriptome profiling and weighted gene co-expression network analysis of early floral development in <i>Aquilegia coerulea</i> . <i>Scientific Reports</i> , <b>2020</b> , 10, 19637	4.9	3
72	My favourite flowering image: an <i>Aquilegia</i> flower. <i>Journal of Experimental Botany</i> , <b>2020</b> , 71, e1-e3	7	
71	Homologs of and Promote the Transition From Inflorescence to Floral Meristem Identity in the Cymose. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 1218	6.2	3
70	Developmental and Molecular Changes Underlying the Vernalization-Induced Transition to Flowering in (James). <i>Genes</i> , <b>2019</b> , 10,	4.2	2
69	Homologs of the STYLISH gene family control nectary development in <i>Aquilegia</i> . <i>New Phytologist</i> , <b>2019</b> , 221, 1090-1100	9.8	21
68	Comparative transcriptomics of early petal development across four diverse species of <i>Aquilegia</i> reveal few genes consistently associated with nectar spur development. <i>BMC Genomics</i> , <b>2019</b> , 20, 668	4.5	9
67	Large-scale phylogenomic analysis suggests three ancient superclades of the WUSCHEL-RELATED HOMEODOMAIN transcription factor family in plants. <i>PLoS ONE</i> , <b>2019</b> , 14, e0223521	3.7	27
66	Plus ça change, plus c'est la même chose: The developmental evolution of flowers. <i>Current Topics in Developmental Biology</i> , <b>2019</b> , 131, 211-238	5.3	7
65	The genome provides insight into adaptive radiation and reveals an extraordinarily polymorphic chromosome with a unique history. <i>ELife</i> , <b>2018</b> , 7,	8.9	63
64	Floral Patterning and Control of Floral Organ Formation <b>2018</b> , 49-70		

63 Floral Architecture: Regulation and Diversity of Floral Shape and Pattern **2018**, 121-148

62	The Aquilegia JAGGED homolog promotes proliferation of adaxial cell types in both leaves and stems. <i>New Phytologist</i> , <b>2017</b> , 216, 536-548	9.8	7
61	Exploring the evolutionary origin of floral organs of <i>Erycina pusilla</i> , an emerging orchid model system. <i>BMC Evolutionary Biology</i> , <b>2017</b> , 17, 89	3	21
60	B gene homologs promote petaloidy of the sepals and maintenance of the C domain boundary. <i>EvoDevo</i> , <b>2017</b> , 8, 22	3.2	11
59	The pomegranate ( <i>Punica granatum</i> L.) genome and the genomics of punicalagin biosynthesis. <i>Plant Journal</i> , <b>2017</b> , 91, 1108-1128	6.9	66
58	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. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 395	6.2	3
57	Breaking the mold: understanding the evolution and development of lateral organs in diverse plant models. <i>Current Opinion in Genetics and Development</i> , <b>2016</b> , 39, 79-84	4.9	10
56	A stranger in a strange land: the utility and interpretation of heterologous expression. <i>Frontiers in Plant Science</i> , <b>2015</b> , 6, 734	6.2	7
55	Molecular basis for three-dimensional elaboration of the Aquilegia petal spur. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2015</b> , 282, 20142778	4.4	36
54	Understanding the development and evolution of novel floral form in Aquilegia. <i>Current Opinion in Plant Biology</i> , <b>2014</b> , 17, 22-7	9.9	25
53	STENOFOLIA recruits TOPLESS to repress ASYMMETRIC LEAVES2 at the leaf margin and promote leaf blade outgrowth in <i>Medicago truncatula</i> . <i>Plant Cell</i> , <b>2014</b> , 26, 650-64	11.6	67
52	The MADS-Box Gene Family of the Basal Eudicot and Hybrid Aquilegia <i>coerulea</i> Origami (Ranunculaceae). <i>Annals of the Missouri Botanical Garden</i> , <b>2014</b> , 99, 313-322	1.8	6
51	Developmental origins of the world's largest flowers, Rafflesiaceae. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 18578-83	11.5	23
50	Conserved roles for Polycomb Repressive Complex 2 in the regulation of lateral organ development in Aquilegia x <i>coerulea</i> Origami. <i>BMC Plant Biology</i> , <b>2013</b> , 13, 185	5.3	4
49	The corona of the daffodil <i>Narcissus bulbocodium</i> shares stamen-like identity and is distinct from the orthodox floral whorls. <i>Plant Journal</i> , <b>2013</b> , 74, 615-25	6.9	14
48	Sub- and neo-functionalization of APETALA3 paralogs have contributed to the evolution of novel floral organ identity in Aquilegia (columbine, Ranunculaceae). <i>New Phytologist</i> , <b>2013</b> , 197, 949-957	9.8	44
47	Virus-induced gene silencing in the rapid cycling columbine Aquilegia <i>coerulea</i> "Origami". <i>Methods in Molecular Biology</i> , <b>2013</b> , 975, 71-81	1.4	8
46	The Aquilegia FRUITFULL-like genes play key roles in leaf morphogenesis and inflorescence development. <i>Plant Journal</i> , <b>2013</b> , 74, 197-212	6.9	46

45	Divergent genetic mechanisms underlie reversals to radial floral symmetry from diverse zygomorphic flowered ancestors. <i>Frontiers in Plant Science</i> , <b>2013</b> , 4, 302	6.2	31
44	Disruption of the petal identity gene APETALA3-3 is highly correlated with loss of petals within the buttercup family (Ranunculaceae). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 5074-9	11.5	65
43	The evolution of reproductive structures in seed plants: a re-examination based on insights from developmental genetics. <i>New Phytologist</i> , <b>2012</b> , 194, 910-923	9.8	39
42	Understanding the basis of a novel fruit type in Brassicaceae: conservation and deviation in expression patterns of six genes. <i>EvoDevo</i> , <b>2012</b> , 3, 20	3.2	25
41	Characterization of Aquilegia Polycomb Repressive Complex 2 homologs reveals absence of imprinting. <i>Gene</i> , <b>2012</b> , 507, 54-60	3.8	5
40	Deep annotation of <i>Populus trichocarpa</i> microRNAs from diverse tissue sets. <i>PLoS ONE</i> , <b>2012</b> , 7, e33034	3.7	54
39	Evolution of spur-length diversity in <i>Aquilegia</i> petals is achieved solely through cell-shape anisotropy. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2012</b> , 279, 1640-5	4.4	53
38	Environmental and molecular analysis of the floral transition in the lower eudicot <i>Aquilegia formosa</i> . <i>EvoDevo</i> , <b>2011</b> , 2, 4	3.2	21
37	Petal-specific subfunctionalization of an APETALA3 paralog in the Ranunculales and its implications for petal evolution. <i>New Phytologist</i> , <b>2011</b> , 191, 870-883	9.8	55
36	<i>Aquilegia</i> as a model system for the evolution and ecology of petals. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2010</b> , 365, 477-90	5.8	62
35	Floral symmetry genes and the origin and maintenance of zygomorphy in a plant-pollinator mutualism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 6388-93	11.5	91
34	The ABC model and the diversification of floral organ identity. <i>Seminars in Cell and Developmental Biology</i> , <b>2010</b> , 21, 129-37	7.5	138
33	Within and between whorls: comparative transcriptional profiling of <i>Aquilegia</i> and <i>Arabidopsis</i> . <i>PLoS ONE</i> , <b>2010</b> , 5, e9735	3.7	24
32	Major flowering time gene, flowering locus C, regulates seed germination in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 11661-6	11.5	209
31	One size fits all? Molecular evidence for a commonly inherited petal identity program in Ranunculales. <i>American Journal of Botany</i> , <b>2009</b> , 96, 96-109	2.7	64
30	Identification of conserved <i>Aquilegia coerulea</i> microRNAs and their targets. <i>Gene</i> , <b>2009</b> , 448, 46-56	3.8	18
29	Old dogs, new tricks: regulatory evolution in conserved genetic modules leads to novel morphologies in plants. <i>Developmental Biology</i> , <b>2009</b> , 332, 25-35	3.1	42
28	<i>Aquilegia</i> : a new model for plant development, ecology, and evolution. <i>Annual Review of Plant Biology</i> , <b>2009</b> , 60, 261-77	30.7	75

27	Chapter 4. New model systems for the study of developmental evolution in plants. <i>Current Topics in Developmental Biology</i> , <b>2009</b> , 86, 67-105	5.3	6
26	Are we there yet? Tracking the development of new model systems. <i>Trends in Genetics</i> , <b>2008</b> , 24, 353-608.5		92
25	Floral MADS-box Genes in Trioecious Papaya: Characterization of AG and AP1 Subfamily Genes Revealed a Sex-type-specific Gene. <i>Tropical Plant Biology</i> , <b>2008</b> , 1, 97-107	1.6	12
24	Understanding the Genetic Basis of Floral Diversity. <i>BioScience</i> , <b>2007</b> , 57, 479-487	5.7	10
23	Virus-induced gene silencing as a tool for functional analyses in the emerging model plant <i>Aquilegia</i> (columbine, Ranunculaceae). <i>Plant Methods</i> , <b>2007</b> , 3, 6	5.8	101
22	Molecular evolution of the petal and stamen identity genes, APETALA3 and PISTILLATA, after petal loss in the Piperales. <i>Molecular Phylogenetics and Evolution</i> , <b>2007</b> , 44, 598-609	4.1	22
21	Columbines. <i>Current Biology</i> , <b>2007</b> , 17, R992-4	6.3	9
20	Elaboration of B gene function to include the identity of novel floral organs in the lower eudicot <i>Aquilegia</i> . <i>Plant Cell</i> , <b>2007</b> , 19, 750-66	11.6	151
19	A simplified explanation for the frameshift mutation that created a novel C-terminal motif in the APETALA3 gene lineage. <i>BMC Evolutionary Biology</i> , <b>2006</b> , 6, 30	3	66
18	Gene Duplication and Floral Developmental Genetics of Basal Eudicots. <i>Advances in Botanical Research</i> , <b>2006</b> , 353-384	2.2	15
17	Evolution. Traversing the adaptive landscape in snapdragons. <i>Science</i> , <b>2006</b> , 313, 924-5	33.3	4
16	Methods for studying the evolution of plant reproductive structures: comparative gene expression techniques. <i>Methods in Enzymology</i> , <b>2005</b> , 395, 617-36	1.7	23
15	Floral MADS box genes and homeotic gender dimorphism in <i>Thalictrum dioicum</i> (Ranunculaceae) - a new model for the study of dioecy. <i>Plant Journal</i> , <b>2005</b> , 41, 755-66	6.9	78
14	Evolutionary dynamics of genes controlling floral development. <i>Current Opinion in Plant Biology</i> , <b>2005</b> , 8, 13-8	9.9	71
13	Genetic basis for innovations in floral organ identity. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , <b>2005</b> , 304, 526-35	1.8	31
12	Evolution of the APETALA3 and PISTILLATA lineages of MADS-box-containing genes in the basal angiosperms. <i>Molecular Biology and Evolution</i> , <b>2004</b> , 21, 506-19	8.3	116
11	APETALA3 and PISTILLATA homologs exhibit novel expression patterns in the unique perianth of <i>Aristolochia</i> (Aristolochiaceae). <i>Evolution &amp; Development</i> , <b>2004</b> , 6, 449-58	2.6	48
10	Patterns of gene duplication and functional evolution during the diversification of the AGAMOUS subfamily of MADS box genes in angiosperms. <i>Genetics</i> , <b>2004</b> , 166, 1011-23	4	335

9	Patterns of Gene Duplication and Functional Evolution During the Diversification of the AGAMOUS Subfamily of MADS Box Genes in Angiosperms. <i>Genetics</i> , <b>2004</b> , 166, 1011-1023	4	17
8	Differential regulation of symmetry genes and the evolution of floral morphologies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 12814-9	11.5	109
7	Evolution of the Petal and Stamen Developmental Programs: Evidence from Comparative Studies of the Lower Eudicots and Basal Angiosperms. <i>International Journal of Plant Sciences</i> , <b>2000</b> , 161, S29-S40 <sup>2.6</sup>		136
6	Evolution of genetic mechanisms controlling petal development. <i>Nature</i> , <b>1999</b> , 399, 144-8	50.4	209
5	Genetic and Molecular Analysis of Angiosperm Flower Development. <i>Advances in Botanical Research</i> , <b>1998</b> , 28, 197-230	2.2	29
4	Molecular evolution of genes controlling petal and stamen development: duplication and divergence within the APETALA3 and PISTILLATA MADS-box gene lineages. <i>Genetics</i> , <b>1998</b> , 149, 765-83 <sup>4</sup>		384
3	Floral Patterning and Control of Floral Organ Formation <sup>49-70</sup>		4
2	Pre-meiotic, 21-nucleotide Reproductive PhasiRNAs Emerged in Seed Plants and Diversified in Flowering Plants		1
1	Genetic architecture of floral traits in bee- and hummingbird-pollinated sister species of <i>Aquilegia</i> (columbine) <sup>1</sup>		