

Kirsten Bomblies

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

6,014
citations

109137

35
h-index

133063

59
g-index

64
all docs

64
docs citations

64
times ranked

5984
citing authors

#	ARTICLE	IF	CITATIONS
1	The origin of the naked grains of maize. <i>Nature</i> , 2005, 436, 714-719.	13.7	561
2	KANADI regulates organ polarity in <i>Arabidopsis</i> . <i>Nature</i> , 2001, 411, 706-709.	13.7	540
3	Autoimmune Response as a Mechanism for a Dobzhansky-Muller-Type Incompatibility Syndrome in Plants. <i>PLoS Biology</i> , 2007, 5, e236.	2.6	489
4	Hybrid necrosis: autoimmunity as a potential gene-flow barrier in plant species. <i>Nature Reviews Genetics</i> , 2007, 8, 382-393.	7.7	382
5	Activation of a Floral Homeotic Gene in <i>Arabidopsis</i> . <i>Science</i> , 1999, 285, 585-587.	6.0	364
6	Species-wide Genetic Incompatibility Analysis Identifies Immune Genes as Hot Spots of Deleterious Epistasis. <i>Cell</i> , 2014, 159, 1341-1351.	13.5	247
7	Duplicate FLORICAULA/LEAFY homologs <i>zfl1</i> and <i>zfl2</i> control inflorescence architecture and flower patterning in maize. <i>Development (Cambridge)</i> , 2003, 130, 2385-2395.	1.2	222
8	Meiotic Adaptation to Genome Duplication in <i>Arabidopsis arenosa</i> . <i>Current Biology</i> , 2013, 23, 2151-2156.	1.8	217
9	Local-Scale Patterns of Genetic Variability, Outcrossing, and Spatial Structure in Natural Stands of <i>Arabidopsis thaliana</i> . <i>PLoS Genetics</i> , 2010, 6, e1000890.	1.5	172
10	Genetic Architecture of Flowering-Time Variation in <i>Arabidopsis thaliana</i> . <i>Genetics</i> , 2011, 188, 421-433.	1.2	160
11	Genetic Adaptation Associated with Genome-Doubling in Autotetraploid <i>Arabidopsis arenosa</i> . <i>PLoS Genetics</i> , 2012, 8, e1003093.	1.5	152
12	Meiosis evolves: adaptation to external and internal environments. <i>New Phytologist</i> , 2015, 208, 306-323.	3.5	148
13	Borrowed alleles and convergence in serpentine adaptation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8320-8325.	3.3	147
14	The 35S promoter used in a selectable marker gene of a plant transformation vector affects the expression of the transgene. <i>Planta</i> , 2005, 221, 523-530.	1.6	144
15	Interaction of <i>LEAFY</i> , <i>AGAMOUS</i> and <i>TERMINAL FLOWER1</i> in maintaining floral meristem identity in <i>Arabidopsis</i> . <i>Development (Cambridge)</i> , 2002, 129, 2519-2527.	1.2	124
16	Single Geographic Origin of a Widespread Autotetraploid <i>Arabidopsis arenosa</i> Lineage Followed by Interploidy Admixture. <i>Molecular Biology and Evolution</i> , 2015, 32, 1382-1395.	3.5	120
17	Pleiotropic Effects of the Duplicate Maize FLORICAULA/LEAFY Genes <i>zfl1</i> and <i>zfl2</i> on Traits Under Selection During Maize Domestication. <i>Genetics</i> , 2006, 172, 519-531.	1.2	110
18	The challenge of evolving stable polyploidy: could an increase in crossover interference distance play a central role?. <i>Chromosoma</i> , 2016, 125, 287-300.	1.0	109

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19	Plasticity of Meiotic Recombination Rates in Response to Temperature in <i>Arabidopsis</i> . <i>Genetics</i> , 2018, 208, 1409-1420.	1.2	105
20	Meiosis in autopolyploid and allopolyploid <i>Arabidopsis</i> . <i>Current Opinion in Plant Biology</i> , 2016, 30, 116-122.	3.5	102
21	Pervasive population genomic consequences of genome duplication in <i>Arabidopsis arenosa</i> . <i>Nature Ecology and Evolution</i> , 2019, 3, 457-468.	3.4	102
22	Doomed Lovers: Mechanisms of Isolation and Incompatibility in Plants. <i>Annual Review of Plant Biology</i> , 2010, 61, 109-124.	8.6	86
23	Polyploidy in the <i>Arabidopsis</i> genus. <i>Chromosome Research</i> , 2014, 22, 117-134.	1.0	79
24	When everything changes at once: finding a new normal after genome duplication. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20202154.	1.2	73
25	Relaxed purifying selection in autopolyploids drives transposable element over-accumulation which provides variants for local adaptation. <i>Nature Communications</i> , 2019, 10, 5818.	5.8	70
26	Redundant Enhancers Mediate Transcriptional Repression of <i>AGAMOUS</i> by <i>APETALA2</i> . <i>Developmental Biology</i> , 1999, 216, 260-264.	0.9	69
27	Selection on Meiosis Genes in Diploid and Tetraploid <i>Arabidopsis arenosa</i> . <i>Molecular Biology and Evolution</i> , 2015, 32, 944-955.	3.5	66
28	Complex Evolutionary Events at a Tandem Cluster of <i>Arabidopsis thaliana</i> Genes Resulting in a Single-Locus Genetic Incompatibility. <i>PLoS Genetics</i> , 2011, 7, e1002164.	1.5	60
29	Derived alleles of two axis proteins affect meiotic traits in autotetraploid <i>Arabidopsis arenosa</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 8980-8988.	3.3	60
30	Are the effects of elevated temperature on meiotic recombination and thermotolerance linked via the axis and synaptonemal complex?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160470.	1.8	57
31	Molecular Evolution of <i>FLORICAULA/LEAFY</i> Orthologs in the <i>Andropogoneae</i> (Poaceae). <i>Molecular Biology and Evolution</i> , 2005, 22, 1082-1094.	3.5	56
32	Activation of the <i>Arabidopsis thaliana</i> Immune System by Combinations of Common <i>ACD6</i> Alleles. <i>PLoS Genetics</i> , 2014, 10, e1004459.	1.5	54
33	<i>HUA2</i> Caused Natural Variation in Shoot Morphology of <i>A. thaliana</i> . <i>Current Biology</i> , 2007, 17, 1513-1519.	1.8	46
34	Salinity Is an Agent of Divergent Selection Driving Local Adaptation of <i>Arabidopsis</i> to Coastal Habitats. <i>Plant Physiology</i> , 2015, 168, 915-929.	2.3	44
35	<i>Arabidopsis</i> a model genus for speciation. <i>Current Opinion in Genetics and Development</i> , 2007, 17, 500-504.	1.5	39
36	Evolution of crossover interference enables stable autopolyploidy by ensuring pairwise partner connections in <i>Arabidopsis arenosa</i> . <i>Current Biology</i> , 2021, 31, 4713-4726.e4.	1.8	37

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37	Genetics of adaptation. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	37
38	Habitat-Associated Life History and Stress-Tolerance Variation in <i>Arabidopsis arenosa</i> . Plant Physiology, 2016, 171, 437-451.	2.3	35
39	Genetic basis and evolution of rapid cycling in railway populations of tetraploid <i>Arabidopsis arenosa</i> . PLoS Genetics, 2018, 14, e1007510.	1.5	35
40	Genome management and mismanagement—cell-level opportunities and challenges of whole-genome duplication. Genes and Development, 2015, 29, 2405-2419.	2.7	33
41	Cytological techniques to analyze meiosis in <i>Arabidopsis arenosa</i> for investigating adaptation to polyploidy. Frontiers in Plant Science, 2014, 4, 546.	1.7	31
42	Evolution and Plasticity of Genome-Wide Meiotic Recombination Rates. Annual Review of Genetics, 2021, 55, 23-43.	3.2	31
43	<i>Arabidopsis</i> and relatives as models for the study of genetic and genomic incompatibilities. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 1815-1823.	1.8	27
44	Too much of a good thing? Hybrid necrosis as a by-product of plant immune system diversification. Botany, 2009, 87, 1013-1022.	0.5	25
45	Genomic studies of adaptive evolution in outcrossing <i>Arabidopsis</i> species. Current Opinion in Plant Biology, 2017, 36, 9-14.	3.5	25
46	Short read sequencing in studies of natural variation and adaptation. Current Opinion in Plant Biology, 2013, 16, 85-91.	3.5	20
47	De Novo Mutation and Rapid Protein (Co-)evolution during Meiotic Adaptation in <i>Arabidopsis arenosa</i> . Molecular Biology and Evolution, 2021, 38, 1980-1994.	3.5	18
48	Epigenetic Inheritance: What News for Evolution?. Current Biology, 2012, 22, R54-R56.	1.8	13
49	Both male and female gametogenesis require a fully functional protein <i>AtAC1</i> acyl transferase 21 in <i>Arabidopsis thaliana</i> . Plant Journal, 2019, 100, 754-767.	2.8	11
50	Progress and Promise in using <i>Arabidopsis</i> to Study Adaptation, Divergence, and Speciation. The <i>Arabidopsis</i> Book, 2010, 8, e0138.	0.5	10
51	Male and female recombination landscapes of diploid <i>Arabidopsis arenosa</i> . Genetics, 2022, 220, .	1.2	10
52	The meiotic cohesin subunit REC8 contributes to multigenic adaptive evolution of autopolyploid meiosis in <i>Arabidopsis arenosa</i> . PLoS Genetics, 2022, 18, e1010304.	1.5	9
53	Male meiotic recombination rate varies with seasonal temperature fluctuations in wild populations of autotetraploid <i>Arabidopsis arenosa</i> . Molecular Ecology, 2021, 30, 4630-4641.	2.0	7
54	Evolution: Redundancy as an Opportunity for Innovation. Current Biology, 2010, 20, R320-R322.	1.8	4

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55	Cheaters divide and conquer. <i>ELife</i> , 2014, 3, e03371.	2.8	4
56	Hybrid Incompatibility: When Opposites Attract with a Fatal Outcome. <i>Current Biology</i> , 2006, 16, R542-R544.	1.8	3
57	Evolutionary Genetics: Inheritance of a Complex Pollination Syndrome. <i>Current Biology</i> , 2013, 23, R525-R527.	1.8	3
58	The quiet evolutionary response to cellular challenges. <i>American Journal of Botany</i> , 2022, 109, 189-192.	0.8	3
59	The High Life: Alpine Dwarfism in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2015, 168, 767-767.	2.3	2
60	Editorial Overview: Genome studies and molecular genetics: Genomic approaches to understanding evolution, development and the plant phenome. <i>Current Opinion in Plant Biology</i> , 2014, 18, v-vi.	3.5	0