

James A Birchler

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8925248/publications.pdf>

Version: 2024-02-01

251
papers

15,885
citations

24978

57
h-index

20900

115
g-index

279
all docs

279
docs citations

279
times ranked

11316
citing authors

#	ARTICLE	IF	CITATIONS
1	Gene-dosage issues: a recurrent theme in whole genome duplication events. <i>Trends in Genetics</i> , 2022, 38, 1-3.	2.9	8
2	Effect of aneuploidy of a non-essential chromosome on gene expression in maize. <i>Plant Journal</i> , 2022, 110, 193-211.	2.8	8
3	The multiple fates of gene duplications: Deletion, hypofunctionalization, subfunctionalization, neofunctionalization, dosage balance constraints, and neutral variation. <i>Plant Cell</i> , 2022, 34, 2466-2474.	3.1	73
4	Focus on plant genetics: Celebrating Gregor Mendel's 200th birth anniversary. <i>Plant Cell</i> , 2022, 34, 2453-2454.	3.1	3
5	The non-Mendelian behavior of plant B chromosomes. <i>Chromosome Research</i> , 2022, 30, 229-239.	1.0	11
6	Dosage-sensitive miRNAs trigger modulation of gene expression during genomic imbalance in maize. <i>Nature Communications</i> , 2022, 13, .	5.8	1
7	Centromeres: From chromosome biology to biotechnology applications and synthetic genomes in plants. <i>Plant Biotechnology Journal</i> , 2022, 20, 2051-2063.	4.1	15
8	Preferential meiotic chromosome pairing among homologous chromosomes with cryptic sequence variation in tetraploid maize. <i>New Phytologist</i> , 2021, 229, 3294-3302.	3.5	19
9	Phosphorylation of histone H3 by Haspin regulates chromosome alignment and segregation during mitosis in maize. <i>Journal of Experimental Botany</i> , 2021, 72, 1046-1058.	2.4	8
10	A transposon surveillance mechanism that safeguards plant male fertility during stress. <i>Nature Plants</i> , 2021, 7, 34-41.	4.7	25
11	Genomic imbalance determines positive and negative modulation of gene expression in diploid maize. <i>Plant Cell</i> , 2021, 33, 917-939.	3.1	22
12	Predominantly inverse modulation of gene expression in genomically unbalanced disomic haploid maize. <i>Plant Cell</i> , 2021, 33, 901-916.	3.1	22
13	Emerging roles of centromeric RNAs in centromere formation and function. <i>Genes and Genomics</i> , 2021, 43, 217-226.	0.5	11
14	Focus on the biology of plant genomes. <i>Plant Cell</i> , 2021, 33, 781-782.	3.1	0
15	Kn1 participates in spindle assembly checkpoint signaling in maize. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	16
16	Sequence of the supernumerary B chromosome of maize provides insight into its drive mechanism and evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	25
17	Genome-wide mapping reveals R-loops associated with centromeric repeats in maize. <i>Genome Research</i> , 2021, 31, 1409-1418.	2.4	37
18	De novo centromere formation on chromosome fragments with an inactive centromere in maize (<i>Zea mays</i>). <i>Genetics</i> , 2021, 217, 1000-1010.	1.6	4

#	ARTICLE	IF	CITATIONS
19	The supernumerary B chromosome of maize: drive and genomic conflict. <i>Open Biology</i> , 2021, 11, 210197.	1.5	10
20	One Hundred Years of Gene Balance: How Stoichiometric Issues Affect Gene Expression, Genome Evolution, and Quantitative Traits. <i>Cytogenetic and Genome Research</i> , 2021, 161, 529-550.	0.6	28
21	The deposition of CENH3 in maize is stringently regulated. <i>Plant Journal</i> , 2020, 102, 6-17.	2.8	20
22	An empirical bayesian approach for testing gene expression fold change and its application in detecting global dosage effects. <i>NAR Genomics and Bioinformatics</i> , 2020, 2, lqaa072.	1.5	0
23	Plant science decadal vision 2020â€“2030: Reimagining the potential of plants for a healthy and sustainable future. <i>Plant Direct</i> , 2020, 4, e00252.	0.8	26
24	Rapid Birth or Death of Centromeres on Fragmented Chromosomes in Maize. <i>Plant Cell</i> , 2020, 32, 3113-3123.	3.1	14
25	Siteâ€specific recombinase genome engineering toolkit in maize. <i>Plant Direct</i> , 2020, 4, e00209.	0.8	8
26	A universal chromosome identification system for maize and wild Zea species. <i>Chromosome Research</i> , 2020, 28, 183-194.	1.0	26
27	Magnitude of modulation of gene expression in aneuploid maize depends on the extent of genomic imbalance. <i>Journal of Genetics and Genomics</i> , 2020, 47, 93-103.	1.7	15
28	Engineered minichromosomes in plants. <i>Experimental Cell Research</i> , 2020, 388, 111852.	1.2	12
29	Development of a Transformable Fast-Flowering Mini-Maize as a Tool for Maize Gene Editing. <i>Frontiers in Genome Editing</i> , 2020, 2, 622227.	2.7	12
30	The Gene Balance Hypothesis: Epigenetics and Dosage Effects in Plants. <i>Methods in Molecular Biology</i> , 2020, 2093, 161-171.	0.4	14
31	Inbreeding Depression in Genotypically Matched Diploid and Tetraploid Maize. <i>Frontiers in Genetics</i> , 2020, 11, 564928.	1.1	7
32	Kinetics Genetics and Heterosis. , 2020, , 305-321.		0
33	Genomic Balance and Speciation. <i>Epigenetics Insights</i> , 2019, 12, 251686571984029.	0.6	4
34	Meiotic crossovers characterized by haplotype-specific chromosome painting in maize. <i>Nature Communications</i> , 2019, 10, 4604.	5.8	40
35	Progressive heterosis in genetically defined tetraploid maize. <i>Journal of Genetics and Genomics</i> , 2019, 46, 389-396.	1.7	8
36	Whole-chromosome paints in maize reveal rearrangements, nuclear domains, and chromosomal relationships. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1679-1685.	3.3	95

#	ARTICLE	IF	CITATIONS
37	Genomic Balance Plays Out in Evolution. <i>Plant Cell</i> , 2019, 31, 1186-1187.	3.1	9
38	Hybrid Decay: A Transgenerational Epigenetic Decline in Vigor and Viability Triggered in Backcross Populations of Teosinte with Maize. <i>Genetics</i> , 2019, 213, 143-160.	1.2	7
39	Location of low copy genes in chromosomes of <i>Brachiaria</i> spp.. <i>Molecular Biology Reports</i> , 2018, 45, 109-118.	1.0	7
40	High efficiency genome editing using a <i>dmc1</i> promoter-controlled CRISPR/Cas9 system in maize. <i>Plant Biotechnology Journal</i> , 2018, 16, 1848-1857.	4.1	108
41	A Kinesin-14 Motor Activates Neocentromeres to Promote Meiotic Drive in Maize. <i>Cell</i> , 2018, 173, 839-850.e18.	13.5	104
42	Barbara McClintock's Unsolved Chromosomal Mysteries: Parallels to Common Rearrangements and Karyotype Evolution. <i>Plant Cell</i> , 2018, 30, 771-779.	3.1	21
43	Global impacts of chromosomal imbalance on gene expression in <i>Arabidopsis</i> and other taxa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E11321-E11330.	3.3	51
44	An overview of rice genetics research in China. <i>Journal of Genetics and Genomics</i> , 2018, 45, 563-564.	1.7	1
45	Genomics of Maize Centromeres. <i>Compendium of Plant Genomes</i> , 2018, , 59-80.	0.3	2
46	The Behavior of the Maize B Chromosome and Centromere. <i>Genes</i> , 2018, 9, 476.	1.0	7
47	Meiotic Studies on Combinations of Chromosomes With Different Sized Centromeres in Maize. <i>Frontiers in Plant Science</i> , 2018, 9, 785.	1.7	8
48	Parallel altitudinal clines reveal trends in adaptive evolution of genome size in <i>Zea mays</i> . <i>PLoS Genetics</i> , 2018, 14, e1007162.	1.5	97
49	Dynamic location changes of Bub1 phosphorylated H2A Thr133 with CENH3 nucleosome in maize centromeric regions. <i>New Phytologist</i> , 2017, 214, 682-694.	3.5	19
50	B Chromosomes. , 2017, , 13-39.		5
51	Fluorescence In Situ Hybridization for <i>Glycine max</i> Metaphase Chromosomes. <i>Current Protocols in Plant Biology</i> , 2017, 2, 89-107.	2.8	2
52	Metaphase Chromosome Preparation from Soybean (<i>Glycine max</i>) Root Tips. <i>Current Protocols in Plant Biology</i> , 2017, 2, 78-88.	2.8	3
53	Aging: Somatic Mutations, Epigenetic Drift and Gene Dosage Imbalance. <i>Trends in Cell Biology</i> , 2017, 27, 299-310.	3.6	27
54	Editing the Phenotype: A Revolution for Quantitative Genetics. <i>Cell</i> , 2017, 171, 269-270.	13.5	15

#	ARTICLE	IF	CITATIONS
55	Cohesion and centromere activity are required for phosphorylation of histone H3 in maize. <i>Plant Journal</i> , 2017, 92, 1121-1131.	2.8	12
56	Recurrent establishment of de novo centromeres in the pericentromeric region of maize chromosome 3. <i>Chromosome Research</i> , 2017, 25, 299-311.	1.0	17
57	BiBAC Modification and Stable Transfer into Maize (<i>Zea mays</i>) Immature Embryos via <i>Agrobacterium</i> -Mediated Transformation. <i>Current Protocols in Plant Biology</i> , 2017, 2, 350-369.	2.8	6
58	Parallel Universes for Models of X Chromosome Dosage Compensation in <i>Drosophila</i> : A Review. <i>Cytogenetic and Genome Research</i> , 2016, 148, 52-67.	0.6	28
59	High Quality Maize Centromere 10 Sequence Reveals Evidence of Frequent Recombination Events. <i>Frontiers in Plant Science</i> , 2016, 7, 308.	1.7	28
60	Plant artificial chromosome technology and its potential application in genetic engineering. <i>Plant Biotechnology Journal</i> , 2016, 14, 1175-1182.	4.1	33
61	Fluorescence In Situ Hybridization to Maize (<i>Zea mays</i>) Chromosomes. <i>Current Protocols in Plant Biology</i> , 2016, 1, 530-545.	2.8	2
62	Preparation of Chromosomes from <i>Zea mays</i> . <i>Current Protocols in Plant Biology</i> , 2016, 1, 501-509.	2.8	2
63	Hybrid vigour characterized. <i>Nature</i> , 2016, 537, 620-621.	13.7	11
64	Production of Engineered Minichromosome Vectors via the Introduction of Telomere Sequences. <i>Methods in Molecular Biology</i> , 2016, 1469, 1-13.	0.4	0
65	Dynamic chromatin changes associated with <i>de novo</i> centromere formation in maize euchromatin. <i>Plant Journal</i> , 2016, 88, 854-866.	2.8	23
66	Fast-Flowering Mini-Maize: Seed to Seed in 60 Days. <i>Genetics</i> , 2016, 204, 35-42.	1.2	25
67	Telomere-Mediated Chromosomal Truncation for Generating Engineered Minichromosomes in Maize. <i>Current Protocols in Plant Biology</i> , 2016, 1, 488-500.	2.8	2
68	Marcus Rhoades on Preferential Segregation in Maize. <i>Genetics</i> , 2016, 203, 1489-1490.	1.2	1
69	Curt Stern on Somatic Crossing Over. <i>Genetics</i> , 2016, 203, 615-616.	1.2	0
70	Kinetics genetics: Incorporating the concept of genomic balance into an understanding of quantitative traits. <i>Plant Science</i> , 2016, 245, 128-134.	1.7	43
71	A green fluorescent protein-engineered haploid inducer line facilitates haploid mutant screens and doubled haploid breeding in maize. <i>Molecular Breeding</i> , 2016, 36, 1.	1.0	16
72	Plant minichromosomes. <i>Current Opinion in Biotechnology</i> , 2016, 37, 135-142.	3.3	16

#	ARTICLE	IF	CITATIONS
73	Efficient Targeted Genome Modification in Maize Using CRISPR/Cas9 System. <i>Journal of Genetics and Genomics</i> , 2016, 43, 37-43.	1.7	137
74	Heterosis: The genetic basis of hybrid vigour. <i>Nature Plants</i> , 2015, 1, 15020.	4.7	38
75	Models of buffering of dosage imbalances in protein complexes. <i>Biology Direct</i> , 2015, 10, 42.	1.9	18
76	Generation of a Maize B Centromere Minimal Map Containing the Central Core Domain. <i>G3: Genes, Genomes, Genetics</i> , 2015, 5, 2857-2864.	0.8	2
77	Minichromosomes: Vectors for Crop Improvement. <i>Agronomy</i> , 2015, 5, 309-321.	1.3	3
78	From Gigabyte to Kilobyte: A Bioinformatics Protocol for Mining Large RNA-Seq Transcriptomics Data. <i>PLoS ONE</i> , 2015, 10, e0125000.	1.1	7
79	Dynamic epigenetic states of maize centromeres. <i>Frontiers in Plant Science</i> , 2015, 6, 904.	1.7	14
80	The Plant Cell Introduces Breakthrough Reports: A New Forum for Cutting-Edge Plant Research. <i>Plant Cell</i> , 2015, , tpc.15.00862.	3.1	1
81	X chromosome inactivation and active X upregulation in therian mammals: facts, questions, and hypotheses. <i>Journal of Molecular Cell Biology</i> , 2015, 7, 2-11.	1.5	46
82	Engineered minichromosomes in plants. <i>Chromosome Research</i> , 2015, 23, 77-85.	1.0	9
83	Recent advances in plant centromere biology. <i>Science China Life Sciences</i> , 2015, 58, 240-245.	2.3	8
84	Promises and pitfalls of synthetic chromosomes in plants. <i>Trends in Biotechnology</i> , 2015, 33, 189-194.	4.9	17
85	Engineered Minichromosomes in Plants. <i>International Review of Cell and Molecular Biology</i> , 2015, 318, 63-119.	1.6	4
86	Sequential de novo centromere formation and inactivation on a chromosomal fragment in maize. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E1263-E1271.	3.3	46
87	Mendel, Mechanism, Models, Marketing, and More. <i>Cell</i> , 2015, 163, 9-11.	13.5	11
88	Cytogenetic and Sequence Analyses of Mitochondrial DNA Insertions in Nuclear Chromosomes of Maize. <i>G3: Genes, Genomes, Genetics</i> , 2015, 5, 2229-2239.	0.8	16
89	Interploidy hybridization barrier of endosperm as a dosage interaction. <i>Frontiers in Plant Science</i> , 2014, 5, 281.	1.7	31
90	Does ectopic cell death cause somatic mutations in the neighboring cells by activating transposons?. <i>Mobile Genetic Elements</i> , 2014, 4, e28040.	1.8	0

#	ARTICLE	IF	CITATIONS
91	Polyploids as a "model system" for the study of heterosis. <i>Plant Reproduction</i> , 2014, 27, 1-5.	1.3	38
92	Molecular Mechanisms of Homologous Chromosome Pairing and Segregation in Plants. <i>Journal of Genetics and Genomics</i> , 2014, 41, 117-123.	1.7	16
93	Facts and artifacts in studies of gene expression in aneuploids and sex chromosomes. <i>Chromosoma</i> , 2014, 123, 459-469.	1.0	27
94	Dosage, duplication, and diploidization: clarifying the interplay of multiple models for duplicate gene evolution over time. <i>Current Opinion in Plant Biology</i> , 2014, 19, 91-98.	3.5	261
95	Engineered minichromosomes in plants. <i>Current Opinion in Plant Biology</i> , 2014, 19, 76-80.	3.5	11
96	The Gene Balance Hypothesis: Dosage Effects in Plants. <i>Methods in Molecular Biology</i> , 2014, 1112, 25-32.	0.4	40
97	Intragenomic Conflict Between the Two Major Knob Repeats of Maize. <i>Genetics</i> , 2013, 194, 81-89.	1.2	31
98	In vivo modification of a maize engineered minichromosome. <i>Chromosoma</i> , 2013, 122, 221-232.	1.0	31
99	Aneuploidy in plants and flies: The origin of studies of genomic imbalance. <i>Seminars in Cell and Developmental Biology</i> , 2013, 24, 315-319.	2.3	29
100	Heritable Loss of Replication Control of a Minichromosome Derived from the B Chromosome of Maize. <i>Genetics</i> , 2013, 193, 77-84.	1.2	4
101	Centromere Epigenetics in Plants. <i>Journal of Genetics and Genomics</i> , 2013, 40, 201-204.	1.7	10
102	Labeling Meiotic Chromosomes in Maize with Fluorescence In Situ Hybridization. <i>Methods in Molecular Biology</i> , 2013, 990, 35-43.	0.4	0
103	Gene dosage effects: nonlinearities, genetic interactions, and dosage compensation. <i>Trends in Genetics</i> , 2013, 29, 385-393.	2.9	111
104	Dosage compensation and inverse effects in triple X metafemales of <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7383-7388.	3.3	51
105	Genomic dosage effects on heterosis in triploid maize. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2665-2669.	3.3	94
106	Meiotic behavior of small chromosomes in maize. <i>Frontiers in Plant Science</i> , 2013, 4, 505.	1.7	13
107	De novo centromere formation on a chromosome fragment in maize. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6033-6036.	3.3	62
108	Male-specific lethal complex in <i>Drosophila</i> counteracts histone acetylation and does not mediate dosage compensation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E808-17.	3.3	46

#	ARTICLE	IF	CITATIONS
109	Differential effect of aneuploidy on the X chromosome and genes with sex-biased expression in <i>Drosophila</i> . Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16514-16519.	3.3	41
110	Aluminum tolerance in maize is associated with higher <i>MATE1</i> gene copy number. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5241-5246.	3.3	265
111	Quantitatively Increased Somatic Transposition of Transposable Elements in <i>Drosophila</i> Strains Compromised for RNAi. PLoS ONE, 2013, 8, e72163.	1.1	18
112	Identification of <i>Inverse Regulator-a</i> (<i>Inr-a</i>) as Synonymous with Pre-mRNA Cleavage Complex II Protein (<i>Pcf11</i>) in <i>Drosophila</i> . G3: Genes, Genomes, Genetics, 2012, 2, 701-706.	0.8	16
113	Claims and counterclaims of X-chromosome compensation. Nature Structural and Molecular Biology, 2012, 19, 3-5.	3.6	16
114	A transgenic system for generation of transposon Ac/Ds-induced chromosome rearrangements in rice. Theoretical and Applied Genetics, 2012, 125, 1449-1462.	1.8	20
115	Gene balance hypothesis: Connecting issues of dosage sensitivity across biological disciplines. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14746-14753.	3.3	491
116	Fluorescence In Situ Hybridization and In Situ PCR. , 2012, , 295-309.		0
117	Dicentric Chromosome Formation and Epigenetics of Centromere Formation in Plants. Journal of Genetics and Genomics, 2012, 39, 125-130.	1.7	24
118	Synthetic Chromosome Platforms in Plants. Annual Review of Plant Biology, 2012, 63, 307-330.	8.6	38
119	Messing with Mendel. Developmental Cell, 2012, 23, 678-679.	3.1	1
120	Insights from paleogenomic and population studies into the consequences of dosage sensitive gene expression in plants. Current Opinion in Plant Biology, 2012, 15, 544-548.	3.5	26
121	Genetic Consequences of Polyploidy in Plants. , 2012, , 21-32.		16
122	Retrotransposon insertion targeting: a mechanism for homogenization of centromere sequences on nonhomologous chromosomes. Genes and Development, 2012, 26, 638-640.	2.7	27
123	Plant Centromeres. , 2012, , 133-142.		2
124	Multiple maize minichromosomes in meiosis. Chromosome Research, 2012, 20, 395-402.	1.0	19
125	Chromosome Painting for Plant Biotechnology. Methods in Molecular Biology, 2011, 701, 67-96.	0.4	26
126	Recovery of a telomere-truncated chromosome via a compensating translocation in maize. Genome, 2011, 54, 184-195.	0.9	11

#	ARTICLE	IF	CITATIONS
127	Re-evaluation of the function of the male specific lethal complex in <i>Drosophila</i> . <i>Journal of Genetics and Genomics</i> , 2011, 38, 327-332.	1.7	10
128	Protein?Protein and Protein?DNA Dosage Balance and Differential Paralog Transcription Factor Retention in Polyploids. <i>Frontiers in Plant Science</i> , 2011, 2, 64.	1.7	16
129	Epigenetic aspects of centromere function in plants. <i>Current Opinion in Plant Biology</i> , 2011, 14, 217-222.	3.5	33
130	Inactivation of a centromere during the formation of a translocation in maize. <i>Chromosome Research</i> , 2011, 19, 755-761.	1.0	50
131	Phenotypic and gene expression analyses of a ploidy series of maize inbred Oh43. <i>Plant Molecular Biology</i> , 2011, 75, 237-251.	2.0	58
132	Maize centromeres: where sequence meets epigenetics. <i>Frontiers in Biology</i> , 2011, 6, 102-108.	0.7	0
133	Implications of the gene balance hypothesis for dosage compensation. <i>Frontiers in Biology</i> , 2011, 6, 118-124.	0.7	1
134	Reflections on the inhibition of RNAi by cell death signaling. <i>Fly</i> , 2011, 5, 337-339.	0.9	1
135	Inhibition of RNA Interference and Modulation of Transposable Element Expression by Cell Death in <i>Drosophila</i> . <i>Genetics</i> , 2011, 188, 823-834.	1.2	9
136	Distinct DNA methylation patterns associated with active and inactive centromeres of the maize B chromosome. <i>Genome Research</i> , 2011, 21, 908-914.	2.4	65
137	Gene expression analysis at the intersection of ploidy and hybridity in maize. <i>Theoretical and Applied Genetics</i> , 2010, 120, 341-353.	1.8	108
138	Dominance and gene dosage balance in health and disease: why levels matter!. <i>Journal of Pathology</i> , 2010, 220, 174-185.	2.1	63
139	The gene balance hypothesis: implications for gene regulation, quantitative traits and evolution. <i>New Phytologist</i> , 2010, 186, 54-62.	3.5	286
140	Heterosis. <i>Plant Cell</i> , 2010, 22, 2105-2112.	3.1	425
141	Preface. <i>Cytogenetic and Genome Research</i> , 2010, 129, 5-5.	0.6	0
142	A Fluorescence <i>in Situ</i> Hybridization System for Karyotyping Soybean. <i>Genetics</i> , 2010, 185, 727-744.	1.2	70
143	Engineered Minichromosomes in Plants. <i>Critical Reviews in Plant Sciences</i> , 2010, 29, 135-147.	2.7	25
144	Sporophytic nondisjunction of the maize B chromosome at high copy numbers. <i>Journal of Genetics and Genomics</i> , 2010, 37, 79-84.	1.7	18

#	ARTICLE	IF	CITATIONS
145	Reflections on studies of gene expression in aneuploids. <i>Biochemical Journal</i> , 2010, 426, 119-123.	1.7	43
146	Pairing in plants: Import is important. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 19751-19752.	3.3	2
147	Alternative Ac/Ds transposition induces major chromosomal rearrangements in maize. <i>Genes and Development</i> , 2009, 23, 755-765.	2.7	61
148	Reactivation of an Inactive Centromere Reveals Epigenetic and Structural Components for Centromere Specification in Maize. <i>Plant Cell</i> , 2009, 21, 1929-1939.	3.1	153
149	A tale of two centromeres—diversity of structure but conservation of function in plants and animals. <i>Functional and Integrative Genomics</i> , 2009, 9, 7-13.	1.4	22
150	Interaction of RNA polymerase II and the small RNA machinery affects heterochromatic silencing in <i>Drosophila</i> . <i>Epigenetics and Chromatin</i> , 2009, 2, 15.	1.8	30
151	Cytogenetics and Chromosomal Structural Diversity. , 2009, , 163-177.		1
152	Maize Centromeres: Structure, Function, Epigenetics. <i>Annual Review of Genetics</i> , 2009, 43, 287-303.	3.2	47
153	Ubiquitous RNA-dependent RNA polymerase and gene silencing. <i>Genome Biology</i> , 2009, 10, 243.	13.9	10
154	Maize Centromere Structure and Evolution: Sequence Analysis of Centromeres 2 and 5 Reveals Dynamic Loci Shaped Primarily by Retrotransposons. <i>PLoS Genetics</i> , 2009, 5, e1000743.	1.5	168
155	Role of Small RNAs in Establishing Chromosomal Architecture in <i>Drosophila</i> . , 2009, , 177-185.		0
156	Histone modifications associated with both A and B chromosomes of maize. <i>Chromosome Research</i> , 2008, 16, 1203-1214.	1.0	59
157	<i>Agrobacterium</i> -mediated transformation of maize (<i>Zea mays</i>) with Cre-lox site specific recombination cassettes in BIBAC vectors. <i>Plant Molecular Biology</i> , 2008, 66, 587-598.	2.0	52
158	Comparative analysis of inbred and hybrid maize at the diploid and tetraploid levels. <i>Theoretical and Applied Genetics</i> , 2008, 116, 563-576.	1.8	44
159	Stability of Repeated Sequence Clusters in Hybrids of Maize as Revealed by FISH. <i>Tropical Plant Biology</i> , 2008, 1, 34-39.	1.0	17
160	Integrated cytogenetic map of mitotic metaphase chromosome 9 of maize: resolution, sensitivity, and banding paint development. <i>Chromosoma</i> , 2008, 117, 345-356.	1.0	52
161	Cellular reactions to gene dosage imbalance: genomic, transcriptomic and proteomic effects. <i>Trends in Genetics</i> , 2008, 24, 390-397.	2.9	267
162	Plant engineered minichromosomes and artificial chromosome platforms. <i>Cytogenetic and Genome Research</i> , 2008, 120, 228-232.	0.6	23

#	ARTICLE	IF	CITATIONS
163	Slicing and Dicing for Small RNAs. <i>Science</i> , 2008, 320, 1023-1024.	6.0	32
164	Minichromosome Analysis of Chromosome Pairing, Disjunction, and Sister Chromatid Cohesion in Maize. <i>Plant Cell</i> , 2008, 19, 3853-3863.	3.1	65
165	Mitochondrial DNA Transfer to the Nucleus Generates Extensive Insertion Site Variation in Maize. <i>Genetics</i> , 2008, 178, 47-55.	1.2	49
166	Genetics and Biochemistry of RNAi in <i>Drosophila</i> . <i>Current Topics in Microbiology and Immunology</i> , 2008, 320, 37-75.	0.7	14
167	Cytological Visualization of DNA Transposons and Their Transposition Pattern in Somatic Cells of Maize. <i>Genetics</i> , 2007, 175, 31-39.	1.2	34
168	Single-Gene Detection and Karyotyping Using Small-Target Fluorescence in Situ Hybridization on Maize Somatic Chromosomes. <i>Genetics</i> , 2007, 175, 1047-1058.	1.2	73
169	Centromere Function and Nondisjunction Are Independent Components of the Maize B Chromosome Accumulation Mechanism. <i>Plant Cell</i> , 2007, 19, 524-533.	3.1	57
170	The Gene Balance Hypothesis: From Classical Genetics to Modern Genomics. <i>Plant Cell</i> , 2007, 19, 395-402.	3.1	391
171	Biological consequences of dosage dependent gene regulatory systems. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2007, 1769, 422-428.	2.4	53
172	Plant chromosomes from end to end: telomeres, heterochromatin and centromeres. <i>Current Opinion in Plant Biology</i> , 2007, 10, 116-122.	3.5	39
173	Construction and behavior of engineered minichromosomes in maize. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 8924-8929.	3.3	144
174	Distinct chromosomal distributions of highly repetitive sequences in maize. <i>Chromosome Research</i> , 2007, 15, 33-49.	1.0	93
175	Localization and transcription of a retrotransposon-derived element on the maize B chromosome. <i>Chromosome Research</i> , 2007, 15, 383-98.	1.0	49
176	A hemicentric inversion in the maize line knobless Tama flint created two sites of centromeric elements and moved the kinetochore-forming region. <i>Chromosoma</i> , 2007, 116, 237-247.	1.0	38
177	Engineered minichromosomes in plants. <i>Current Opinion in Biotechnology</i> , 2007, 18, 425-431.	3.3	22
178	Characterization of a maize isochromosome 8S-8S. <i>Genome</i> , 2006, 49, 700-706.	0.9	9
179	Organization of endoreduplicated chromosomes in the endosperm of <i>Zea mays</i> L. <i>Chromosoma</i> , 2006, 115, 383-394.	1.0	33
180	Genetic variation for the response to ploidy change in <i>Zea mays</i> L.. <i>Theoretical and Applied Genetics</i> , 2006, 114, 101-111.	1.8	79

#	ARTICLE	IF	CITATIONS
181	Polycomb, pairing and PIWI RNA silencing and nuclear interactions. Trends in Biochemical Sciences, 2006, 31, 485-487.	3.7	9
182	Commonalities in compensation. BioEssays, 2006, 28, 565-568.	1.2	26
183	Induction of Tetraploid Derivatives of Maize Inbred Lines by Nitrous Oxide Gas Treatment. Journal of Heredity, 2006, 97, 39-44.	1.0	48
184	Unraveling the genetic basis of hybrid vigor. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 12957-12958.	3.3	158
185	Retroelement Genome Painting: Cytological Visualization of Retroelement Expansions in the Genera Zea and Tripsacum. Genetics, 2006, 173, 1007-1021.	1.2	67
186	Misregulation of Sex-Lethal and Disruption of Male-Specific Lethal Complex Localization in Drosophila Species Hybrids. Genetics, 2006, 174, 1151-1159.	1.2	23
187	Telomere-mediated chromosomal truncation in maize. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 17331-17336.	3.3	116
188	High frequency of centromere inactivation resulting in stable dicentric chromosomes of maize. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 3238-3243.	3.3	316
189	RNAi-mediated pathways in the nucleus. Nature Reviews Genetics, 2005, 6, 24-35.	7.7	768
190	Dosage balance in gene regulation: biological implications. Trends in Genetics, 2005, 21, 219-226.	2.9	331
191	Advances in plant chromosome identification and cytogenetic techniques. Current Opinion in Plant Biology, 2005, 8, 148-154.	3.5	86
192	Global analysis of siRNA-mediated transcriptional gene silencing. BioEssays, 2005, 27, 1209-1212.	1.2	10
193	A test for ectopic exchange catalyzed by Cre recombinase in maize. Theoretical and Applied Genetics, 2005, 111, 378-385.	1.8	12
194	Sequences associated with A chromosome centromeres are present throughout the maize B chromosome. Chromosoma, 2005, 113, 337-349.	1.0	83
195	Molecular and Functional Dissection of the Maize B Chromosome Centromere. Plant Cell, 2005, 17, 1412-1423.	3.1	110
196	The Dominant Inhibitory Chalcone Synthase Allele C2-Idf (Inhibitor diffuse) From Zea mays (L.) Acts via an Endogenous RNA Silencing Mechanism Sequence data from this article have been deposited with the EMBL/GenBank Data Libraries under accession nos. AY728478 [c2 gene chalcone synthase (wild type) C2-W22], AY728476 (Zea mays L. C2-Idf allele; gene copies C2-Idf-I and C2-Idf-II), and AY728477 (Zea mays L.) Tj ETQq0 0 0 rgBT /Overl	1.2	63
197	Nonadditive Gene Expression in Diploid and Triploid Hybrids of Maize. Genetics, 2005, 169, 389-397.	1.2	198
198	Gene Expression Analysis of the Function of the Male-Specific Lethal Complex in Drosophila. Genetics, 2005, 169, 2061-2074.	1.2	54

#	ARTICLE	IF	CITATIONS
199	RNA silencing in <i>Drosophila</i> . <i>FEBS Letters</i> , 2005, 579, 5940-5949.	1.3	62
200	Heterochromatin: RNA Points the Way. <i>Current Biology</i> , 2004, 14, R759-R761.	1.8	8
201	A test for a metastable epigenetic component of heterosis using haploid induction in maize. <i>Theoretical and Applied Genetics</i> , 2004, 108, 1017-1023.	1.8	14
202	Chromosome painting using repetitive DNA sequences as probes for somatic chromosome identification in maize. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 13554-13559.	3.3	493
203	What's in a centromere?. <i>Genome Biology</i> , 2004, 5, 239.	13.9	22
204	Discovering the seeds of diversity in plant genomes. <i>Genome Biology</i> , 2004, 5, 323.	13.9	0
205	Heterochromatic Silencing and HP1 Localization in <i>Drosophila</i> Are Dependent on the RNAi Machinery. <i>Science</i> , 2004, 303, 669-672.	6.0	624
206	Dosage dependent gene regulation and the compensation of the X chromosome in <i>Drosophila</i> males. <i>Genetica</i> , 2003, 117, 179-190.	0.5	35
207	Effects of reunited diverged regulatory hierarchies in allopolyploids and species hybrids. <i>Trends in Genetics</i> , 2003, 19, 597-600.	2.9	114
208	Understanding mechanisms of novel gene expression in polyploids. <i>Trends in Genetics</i> , 2003, 19, 141-147.	2.9	812
209	A molecular view of plant centromeres. <i>Trends in Plant Science</i> , 2003, 8, 570-575.	4.3	300
210	The role of DNA sequence in centromere formation. <i>Genome Biology</i> , 2003, 4, 214.	13.9	33
211	In Search of the Molecular Basis of Heterosis. <i>Plant Cell</i> , 2003, 15, 2236-2239.	3.1	428
212	Marcus Rhoades, Preferential Segregation and Meiotic Drive. <i>Genetics</i> , 2003, 164, 835-841.	1.2	22
213	Centromeric Retroelements and Satellites Interact with Maize Kinetochores Protein CENH3. <i>Plant Cell</i> , 2002, 14, 2825-2836.	3.1	354
214	Cytological and molecular analysis of centromere misdivision in maize. <i>Genome</i> , 2002, 45, 759-768.	0.9	23
215	RNAi Related Mechanisms Affect Both Transcriptional and Posttranscriptional Transgene Silencing in <i>Drosophila</i> . <i>Molecular Cell</i> , 2002, 9, 315-327.	4.5	358
216	Dosage-Dependent Gene Regulation in Multicellular Eukaryotes: Implications for Dosage Compensation, Aneuploid Syndromes, and Quantitative Traits. <i>Developmental Biology</i> , 2001, 234, 275-288.	0.9	328

#	ARTICLE	IF	CITATIONS
217	Developmental impact on trans-acting dosage effects in maize aneuploids. <i>Genesis</i> , 2001, 31, 64-71.	0.8	10
218	Nuclear Gene Dosage Effects Upon the Expression of Maize Mitochondrial Genes. <i>Genetics</i> , 2001, 157, 1711-1721.	1.2	19
219	Characterization of a Maize Chromosome 4 Centromeric Sequence: Evidence for an Evolutionary Relationship With the B Chromosome Centromere. <i>Genetics</i> , 2001, 159, 291-302.	1.2	95
220	Krüppel homolog (Kr h) is a dosage-dependent modifier of gene expression in <i>Drosophila</i> . <i>Genetical Research</i> , 2000, 75, 137-142.	0.3	7
221	Making noise about silence: repression of repeated genes in animals. <i>Current Opinion in Genetics and Development</i> , 2000, 10, 211-216.	1.5	79
222	Histone Acetylation and Gene Expression Analysis of <i>Sex lethal</i> Mutants in <i>Drosophila</i> . <i>Genetics</i> , 2000, 155, 753-763.	1.2	32
223	The <i>oxen</i> Gene of <i>Drosophila</i> Encodes a Homolog of Subunit 9 of Yeast Ubiquinol-Cytochrome <i>c</i> Oxidoreductase Complex: Evidence for Modulation of Gene Expression in Response to Mitochondrial Activity. <i>Genetics</i> , 2000, 156, 1727-1736.	1.2	9
224	Less from more: cosuppression of transposable elements. <i>Nature Genetics</i> , 1999, 21, 148-149.	9.4	20
225	Cosuppression of Nonhomologous Transgenes in <i>Drosophila</i> Involves Mutually Related Endogenous Sequences. <i>Cell</i> , 1999, 99, 35-46.	13.5	89
226	Role of the male specific lethal (<i>msl</i>) Genes in Modifying the Effects of Sex Chromosomal Dosage in <i>Drosophila</i> . <i>Genetics</i> , 1999, 152, 249-268.	1.2	61
227	Regena (<i>Rga</i>), a <i>Drosophila</i> Homolog of the Global Negative Transcriptional Regulator CDC36 (NOT2) from Yeast, Modifies Gene Expression and Suppresses Position Effect Variegation. <i>Genetics</i> , 1998, 148, 317-329.	1.2	40
228	Interactions Among Dosage-Dependent Trans-Acting Modifiers of Gene Expression and Position-Effect Variegation in <i>Drosophila</i> . <i>Genetics</i> , 1998, 150, 251-263.	1.2	15
229	Mutation in <i>PO</i> , a Dual Function Ribosomal Protein/Apurinic/Apyrimidinic Endonuclease, Modifies Gene Expression and Position Effect Variegation in <i>Drosophila</i> . <i>Genetics</i> , 1998, 150, 1487-1495.	1.2	34
230	Meiotic Transmission Rates Correlate With Physical Features of Rearranged Centromeres in Maize. <i>Genetics</i> , 1998, 150, 1683-1692.	1.2	99
231	Cosuppression in <i>Drosophila</i> : Gene Silencing of Alcohol dehydrogenase by white- <i>Adh</i> Transgenes Is Polycomb Dependent. <i>Cell</i> , 1997, 90, 479-490.	13.5	236
232	Do These Sequences Make CENs Yet?. <i>Genome Research</i> , 1997, 7, 1035-1037.	2.4	9
233	Dosage regulation of <i>Zea mays</i> homeobox (<i>ZmHox</i>) genes and their relationship with the dosage-sensitive regulatory factors of <i>Shrunken 1</i> (<i>Sh1</i>) in maize. <i>Genesis</i> , 1997, 20, 67-73.	3.1	3
234	A Sex-Influenced Modifier in <i>Drosophila</i> That Affects a Broad Spectrum of Target Loci Including the Histone Repeats. <i>Genetics</i> , 1997, 146, 903-917.	1.2	23

#	ARTICLE	IF	CITATIONS
235	Dosage Effects on Gene Expression in a Maize Ploidy Series. <i>Genetics</i> , 1996, 142, 1349-1355.	1.2	269
236	Characterization of a sex-influenced modifier of gene expression and suppressor of position-effect variegation in. <i>Molecular Genetics and Genomics</i> , 1996, 250, 601.	2.4	0
237	Dosage Analysis of Maize Endosperm Development. <i>Annual Review of Genetics</i> , 1993, 27, 181-204.	3.2	141
238	Dosage dependent modifiers of white alleles in <i>Drosophila melanogaster</i> . <i>Genetical Research</i> , 1993, 62, 15-22.	0.3	36
239	Expression of <i>cis</i> -regulatory mutations of the <i>white</i> locus in metafemales of <i>Drosophila melanogaster</i> . <i>Genetical Research</i> , 1992, 59, 11-18.	0.3	33
240	Amazing results. <i>Trends in Genetics</i> , 1990, 6, 231-232.	2.9	4
241	Interactions among modifiers of retrotransposon-induced alleles of the white locus of <i>Drosophila melanogaster</i> . <i>Genetical Research</i> , 1990, 55, 141-151.	0.3	10
242	Interaction of Endosperm Size Factors in Maize. <i>Genetics</i> , 1987, 117, 309-317.	1.2	41
243	Genetic analysis of the sexual dimorphism of glass in <i>Drosophila melanogaster</i> . <i>Genetical Research</i> , 1984, 44, 125-132.	0.3	8
244	Allozymes in Gene Dosage Studies. <i>Developments in Plant Genetics and Breeding</i> , 1983, 1, 85-108.	0.6	12
245	DOSAGE COMPENSATION OF SERINE-4 TRANSFER RNA IN <i>DROSOPHILA MELANOGASTER</i> . <i>Genetics</i> , 1982, 102, 525-537.	1.2	25
246	THE GENETIC BASIS OF DOSAGE COMPENSATION OF ALCOHOL DEHYDROGENASE-1 IN MAIZE. <i>Genetics</i> , 1981, 97, 625-637.	1.2	121
247	MODULATION OF PROTEIN LEVELS IN CHROMOSOMAL DOSAGE SERIES OF MAIZE: THE BIOCHEMICAL BASIS OF ANEUPLOID SYNDROMES. <i>Genetics</i> , 1981, 99, 247-266.	1.2	174
248	On the nonautonomy of the small-kernel phenotype produced by <i>A</i> translocations in maize. <i>Genetical Research</i> , 1980, 36, 111-116.	0.3	13
249	THE CYTOGENETIC LOCALIZATION OF THE ALCOHOL DEHYDROGENASE-1 LOCUS IN MAIZE. <i>Genetics</i> , 1980, 94, 687-700.	1.2	35
250	Mutational study of the alcohol dehydrogenase-1 FC m duplication in maize. <i>Biochemical Genetics</i> , 1979, 17, 1173-1180.	0.8	18
251	A STUDY OF ENZYME ACTIVITIES IN A DOSAGE SERIES OF THE LONG ARM OF CHROMOSOME ONE IN MAIZE. <i>Genetics</i> , 1979, 92, 1211-1229.	1.2	142