

R Kelly Dawe

List of Publications by Year in descending order

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10545
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#	ARTICLE	IF	CITATIONS
1	Frequent Spindle Assembly Errors Require Structural Rearrangement to Complete Meiosis in <i>Zea mays</i> . <i>International Journal of Molecular Sciences</i> , 2022, 23, 4293.	4.1	1
2	The maize abnormal chromosome 10 meiotic drive haplotype: a review. <i>Chromosome Research</i> , 2022, 30, 205-216.	2.2	11
3	The maize gene <i>maternal derepression of r1</i> encodes a DNA glycosylase that demethylates DNA and reduces siRNA expression in the endosperm. <i>Plant Cell</i> , 2022, 34, 3685-3701.	6.6	16
4	Maize centromeric chromatin scales with changes in genome size. <i>Genetics</i> , 2021, 217, .	2.9	11
5	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, .	7.1	25
6	QTL Map of Early- and Late-Stage Perennial Regrowth in <i>Zea diploperennis</i> . <i>Frontiers in Plant Science</i> , 2021, 12, 707839.	3.6	5
7	De novo assembly, annotation, and comparative analysis of 26 diverse maize genomes. <i>Science</i> , 2021, 373, 655-662.	12.6	282
8	Haploid induction by a maize <i>cenH3</i> null mutant. <i>Science Advances</i> , 2021, 7, .	10.3	70
9	Distinct kinesin motors drive two types of maize neocentromeres. <i>Genes and Development</i> , 2020, 34, 1239-1251.	5.9	27
10	Effect of sequence depth and length in long-read assembly of the maize inbred NC358. <i>Nature Communications</i> , 2020, 11, 2288.	12.8	39
11	Charting the path to fully synthetic plant chromosomes. <i>Experimental Cell Research</i> , 2020, 390, 111951.	2.6	12
12	Gapless assembly of maize chromosomes using long-read technologies. <i>Genome Biology</i> , 2020, 21, 121.	8.8	101
13	Genome-Scale Sequence Disruption Following Biolistic Transformation in Rice and Maize. <i>Plant Cell</i> , 2019, 31, 368-383.	6.6	96
14	A Kinesin-14 Motor Activates Neocentromeres to Promote Meiotic Drive in Maize. <i>Cell</i> , 2018, 173, 839-850.e18.	28.9	104
15	Is It Ordered Correctly? Validating Genome Assemblies by Optical Mapping. <i>Plant Cell</i> , 2018, 30, 7-14.	6.6	40
16	Centromere Size and Its Relationship to Haploid Formation in Plants. <i>Molecular Plant</i> , 2018, 11, 398-406.	8.3	49
17	Modeling the Evolution of Female Meiotic Drive in Maize. <i>G3: Genes, Genomes, Genetics</i> , 2018, 8, 123-130.	1.8	18
18	Fitness Costs and Variation in Transmission Distortion Associated with the Abnormal Chromosome 10 Meiotic Drive System in Maize. <i>Genetics</i> , 2018, 208, 297-305.	2.9	23

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19	Genomics of Maize Centromeres. <i>Compendium of Plant Genomes</i> , 2018, , 59-80.	0.5	2
20	The maize W22 genome provides a foundation for functional genomics and transposon biology. <i>Nature Genetics</i> , 2018, 50, 1282-1288.	21.4	183
21	Functional diversification of the kinesin-14 family in land plants. <i>FEBS Letters</i> , 2018, 592, 1918-1928.	2.8	20
22	Loss of RNA-Directed DNA Methylation in Maize Chromomethylase and DDM1-Type Nucleosome Remodeler Mutants. <i>Plant Cell</i> , 2018, 30, 1617-1627.	6.6	41
23	Improved maize reference genome with single-molecule technologies. <i>Nature</i> , 2017, 546, 524-527.	27.8	1,113
24	Stable centromere positioning in diverse sequence contexts of complex and satellite centromeres of maize and wild relatives. <i>Genome Biology</i> , 2017, 18, 121.	8.8	46
25	High Quality Maize Centromere 10 Sequence Reveals Evidence of Frequent Recombination Events. <i>Frontiers in Plant Science</i> , 2016, 7, 308.	3.6	28
26	The Maize Divergent spindle-1 (dv1) Gene Encodes a Kinesin-14A Motor Protein Required for Meiotic Spindle Pole Organization. <i>Frontiers in Plant Science</i> , 2016, 7, 1277.	3.6	26
27	Live-Cell Imaging of Meiotic Spindle and Chromosome Dynamics in Maize (<i>Zea mays</i>). <i>Current Protocols in Plant Biology</i> , 2016, 1, 546-565.	2.8	3
28	Anaphase asymmetry and dynamic repositioning of the division plane during maize meiosis. <i>Journal of Cell Science</i> , 2016, 129, 4014-4024.	2.0	13
29	Gene Expression and Chromatin Modifications Associated with Maize Centromeres. <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 183-192.	1.8	30
30	Generation of a Maize B Centromere Minimal Map Containing the Central Core Domain. <i>G3: Genes, Genomes, Genetics</i> , 2015, 5, 2857-2864.	1.8	2
31	Genetic and Genomic Toolbox of <i>Zea mays</i> . <i>Genetics</i> , 2015, 199, 655-669.	2.9	55
32	Stable Patterns of CENH3 Occupancy Through Maize Lineages Containing Genetically Similar Centromeres. <i>Genetics</i> , 2015, 200, 1105-1116.	2.9	20
33	Accessible DNA and Relative Depletion of H3K9me2 at Maize Loci Undergoing RNA-Directed DNA Methylation. <i>Plant Cell</i> , 2015, 26, 4903-4917.	6.6	106
34	Diversity and evolution of centromere repeats in the maize genome. <i>Chromosoma</i> , 2015, 124, 57-65.	2.2	21
35	RNA-directed DNA methylation enforces boundaries between heterochromatin and euchromatin in the maize genome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 14728-14733.	7.1	179
36	Maize centromeres expand and adopt a uniform size in the genetic background of oat. <i>Genome Research</i> , 2014, 24, 107-116.	5.5	77

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37	Intragenomic Conflict Between the Two Major Knob Repeats of Maize. <i>Genetics</i> , 2013, 194, 81-89.	2.9	31
38	Maize chromosomal knobs are located in gene-dense areas and suppress local recombination. <i>Chromosoma</i> , 2013, 122, 67-75.	2.2	33
39	CHH islands: de novo DNA methylation in near-gene chromatin regulation in maize. <i>Genome Research</i> , 2013, 23, 628-637.	5.5	310
40	Strong epigenetic similarity between maize centromeric and pericentromeric regions at the level of small RNAs, DNA methylation and H3 chromatin modifications. <i>Nucleic Acids Research</i> , 2012, 40, 1550-1560.	14.5	45
41	Megabase-Scale Inversion Polymorphism in the Wild Ancestor of Maize. <i>Genetics</i> , 2012, 191, 883-894.	2.9	94
42	RNA as a Structural and Regulatory Component of the Centromere. <i>Annual Review of Genetics</i> , 2012, 46, 443-453.	7.6	52
43	Total centromere size and genome size are strongly correlated in ten grass species. <i>Chromosome Research</i> , 2012, 20, 403-412.	2.2	53
44	Stable integration of an engineered megabase repeat array into the maize genome. <i>Plant Journal</i> , 2012, 70, 357-365.	5.7	17
45	Mechanisms of plant spindle formation. <i>Chromosome Research</i> , 2011, 19, 335-344.	2.2	64
46	Distinct influences of tandem repeats and retrotransposons on CENH3 nucleosome positioning. <i>Epigenetics and Chromatin</i> , 2011, 4, 3.	3.9	30
47	DNA Binding of Centromere Protein C (CENPC) Is Stabilized by Single-Stranded RNA. <i>PLoS Genetics</i> , 2010, 6, e1000835.	3.5	122
48	Widespread Gene Conversion in Centromere Cores. <i>PLoS Biology</i> , 2010, 8, e1000327.	5.6	109
49	Fused sister kinetochores initiate the reductional division in meiosis I. <i>Nature Cell Biology</i> , 2009, 11, 1103-1108.	10.3	85
50	The B73 Maize Genome: Complexity, Diversity, and Dynamics. <i>Science</i> , 2009, 326, 1112-1115.	12.6	3,612
51	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.	3.5	168
52	Transformation of rice with long DNA-segments consisting of random genomic DNA or centromere-specific DNA. <i>Transgenic Research</i> , 2007, 16, 341-351.	2.4	52
53	Maize NDC80 is a constitutive feature of the central kinetochore. <i>Chromosome Research</i> , 2007, 15, 767-775.	2.2	39
54	Centromeres put epigenetics in the driver's seat. <i>Trends in Biochemical Sciences</i> , 2006, 31, 662-669.	7.5	91

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55	Precise Centromere Mapping Using a Combination of Repeat Junction Markers and Chromatin Immunoprecipitationâ€“Polymerase Chain Reaction. <i>Genetics</i> , 2006, 174, 1057-1061.	2.9	35
56	Partitioning of the Maize Epigenome by the Number of Methyl Groups on Histone H3 Lysines 9 and 27. <i>Genetics</i> , 2006, 173, 1571-1583.	2.9	89
57	The Maize Ab10 Meiotic Drive System Maps to Supernumerary Sequences in a Large Complex Haplotype. <i>Genetics</i> , 2006, 174, 145-154.	2.9	34
58	Molecular and Functional Dissection of the Maize B Chromosome Centromere. <i>Plant Cell</i> , 2005, 17, 1412-1423.	6.6	110
59	Phosphoserines on Maize CENTROMERIC HISTONE H3 and Histone H3 Demarcate the Centromere and Pericentromere during Chromosome Segregation. <i>Plant Cell</i> , 2005, 17, 572-583.	6.6	77
60	Centromere renewal and replacement in the plant kingdom. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 11573-11574.	7.1	21
61	Maize Centromeres: Organization and Functional Adaptation in the Genetic Background of Oat. <i>Plant Cell</i> , 2004, 16, 571-581.	6.6	241
62	Plant neocentromeres: fast, focused, and driven. <i>Chromosome Research</i> , 2004, 12, 655-669.	2.2	65
63	A standardized kinesin nomenclature. <i>Journal of Cell Biology</i> , 2004, 167, 19-22.	5.2	662
64	The meiotic drive system on maize abnormal chromosome 10 contains few essential genes. <i>Genetica</i> , 2003, 117, 67-76.	1.1	19
65	A molecular view of plant centromeres. <i>Trends in Plant Science</i> , 2003, 8, 570-575.	8.8	300
66	RNA Interference, Transposons, and the Centromere. <i>Plant Cell</i> , 2003, 15, 297-301.	6.6	64
67	Chromatin Immunoprecipitation Reveals That the 180-bp Satellite Repeat Is the Key Functional DNA Element of <i>Arabidopsis thaliana</i> Centromeres. <i>Genetics</i> , 2003, 163, 1221-1225.	2.9	254
68	Four Loci on Abnormal Chromosome 10 Contribute to Meiotic Drive in Maize. <i>Genetics</i> , 2003, 164, 699-709.	2.9	32
69	Centromeric Retroelements and Satellites Interact with Maize Kinetochores Protein CENH3. <i>Plant Cell</i> , 2002, 14, 2825-2836.	6.6	354
70	Independently Regulated Neocentromere Activity of Two Classes of Tandem Repeat Arrays. <i>Plant Cell</i> , 2002, 14, 407-420.	6.6	71
71	Maximum Likelihood Methods Reveal Conservation of Function Among Closely Related Kinesin Families. <i>Journal of Molecular Evolution</i> , 2002, 54, 42-53.	1.8	64
72	Dyneins Have Run Their Course in Plant Lineage. <i>Traffic</i> , 2001, 2, 362-363.	2.7	100

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73	Functional Redundancy in the Maize Meiotic Kinetochore. <i>Journal of Cell Biology</i> , 2000, 151, 131-142.	5.2	69
74	A Maize Homolog of Mammalian CENPC Is a Constitutive Component of the Inner Kinetochore. <i>Plant Cell</i> , 1999, 11, 1227-1238.	6.6	122
75	The Maize Homologue of the Cell Cycle Checkpoint Protein MAD2 Reveals Kinetochore Substructure and Contrasting Mitotic and Meiotic Localization Patterns. <i>Journal of Cell Biology</i> , 1999, 145, 425-435.	5.2	125
76	Meiotic Drive of Chromosomal Knobs Reshaped the Maize Genome. <i>Genetics</i> , 1999, 153, 415-426.	2.9	173
77	MEIOTIC CHROMOSOME ORGANIZATION AND SEGREGATION IN PLANTS. <i>Annual Review of Plant Biology</i> , 1998, 49, 371-395.	14.3	127
78	Neocentromere-mediated Chromosome Movement in Maize. <i>Journal of Cell Biology</i> , 1997, 139, 831-840.	5.2	132