

Andreas Houben

List of Publications by Year in descending order

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241
papers

11,989
citations

28242

55
h-index

39638

94
g-index

261
all docs

261
docs citations

261
times ranked

8747
citing authors

#	ARTICLE	IF	CITATIONS
1	A chromosome conformation capture ordered sequence of the barley genome. <i>Nature</i> , 2017, 544, 427-433.	13.7	1,365
2	DNA methylation controls histone H3 lysine 9 methylation and heterochromatin assembly in <i>Arabidopsis</i> . <i>EMBO Journal</i> , 2002, 21, 6549-6559.	3.5	439
3	Chromosomal histone modification patterns “ from conservation to diversity. <i>Trends in Plant Science</i> , 2006, 11, 199-208.	4.3	338
4	Loss of centromeric histone H3 (CENH3) from centromeres precedes uniparental chromosome elimination in interspecific barley hybrids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E498-505.	3.3	260
5	B chromosomes in plants: escapees from the A chromosome genome?. <i>Trends in Plant Science</i> , 2003, 8, 417-423.	4.3	204
6	Stable barley chromosomes without centromeric repeats. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 9842-9847.	3.3	199
7	Methylation of histone H3 in euchromatin of plant chromosomes depends on basic nuclear DNA content. <i>Plant Journal</i> , 2003, 33, 967-973.	2.8	186
8	Uniparental Chromosome Elimination at Mitosis and Interphase in Wheat and Pearl Millet Crosses Involves Micronucleus Formation, Progressive Heterochromatinization, and DNA Fragmentation. <i>Plant Cell</i> , 2005, 17, 2431-2438.	3.1	185
9	Selfish supernumerary chromosome reveals its origin as a mosaic of host genome and organellar sequences. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 13343-13346.	3.3	173
10	Genetics of sex determination in flowering plants. <i>Genesis</i> , 1994, 15, 214-230.	3.3	142
11	Chromosome-scale genome assembly provides insights into rye biology, evolution and agronomic potential. <i>Nature Genetics</i> , 2021, 53, 564-573.	9.4	138
12	Evolution and biology of supernumerary B chromosomes. <i>Cellular and Molecular Life Sciences</i> , 2014, 71, 467-478.	2.4	136
13	Identification and Dynamics of Two Classes of Aurora-Like Kinases in <i>Arabidopsis</i> and Other Plants. <i>Plant Cell</i> , 2005, 17, 836-848.	3.1	135
14	The transcript elongation factor FACT affects <i>Arabidopsis</i> vegetative and reproductive development and genetically interacts with HUB1/2. <i>Plant Journal</i> , 2010, 61, 686-697.	2.8	134
15	Construction of a map-based reference genome sequence for barley, <i>Hordeum vulgare</i> L.. <i>Scientific Data</i> , 2017, 4, 170044.	2.4	130
16	A Century of B Chromosomes in Plants: So What?. <i>Annals of Botany</i> , 2008, 101, 767-775.	1.4	126
17	Point mutation impairs centromeric CENH3 loading and induces haploid plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11211-11216.	3.3	126
18	A whole-genome snapshot of 454 sequences exposes the composition of the barley genome and provides evidence for parallel evolution of genome size in wheat and barley. <i>Plant Journal</i> , 2009, 59, 712-722.	2.8	125

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19	The chromosomal distribution of phosphorylated histone H3 differs between plants and animals at meiosis. <i>Chromosoma</i> , 2000, 109, 308-317.	1.0	119
20	The cell cycle dependent phosphorylation of histone H3 is correlated with the condensation of plant mitotic chromosomes. <i>Plant Journal</i> , 1999, 18, 675-679.	2.8	116
21	Live-cell CRISPR imaging in plants reveals dynamic telomere movements. <i>Plant Journal</i> , 2017, 91, 565-573.	2.8	114
22	Plant Elongator regulates auxin-related genes during RNA polymerase II transcription elongation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 1678-1683.	3.3	112
23	Phosphorylation of histone H3 in plants—A dynamic affair. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2007, 1769, 308-315.	2.4	110
24	CENH3 interacts with the centromeric retrotransposon cereba and GC-rich satellites and locates to centromeric substructures in barley. <i>Chromosoma</i> , 2007, 116, 275-283.	1.0	107
25	CRISPR-Cas9-mediated induction of heritable chromosomal translocations in <i>Arabidopsis</i> . <i>Nature Plants</i> , 2020, 6, 638-645.	4.7	104
26	DNA and proteins of plant centromeres. <i>Current Opinion in Plant Biology</i> , 2003, 6, 554-560.	3.5	99
27	<i>Arabidopsis</i> Aurora Kinases Function in Formative Cell Division Plane Orientation. <i>Plant Cell</i> , 2011, 23, 4013-4024.	3.1	97
28	Holocentromeres in <i>Rhynchospora</i> are associated with genome-wide centromere-specific repeat arrays interspersed among euchromatin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13633-13638.	3.3	96
29	Haploidization via Chromosome Elimination: Means and Mechanisms. <i>Annual Review of Plant Biology</i> , 2016, 67, 421-438.	8.6	95
30	Extrachromosomal circular DNA derived from tandemly repeated genomic sequences in plants. <i>Plant Journal</i> , 2008, 53, 1027-1034.	2.8	92
31	State-of-the-art and novel developments of in vivo haploid technologies. <i>Theoretical and Applied Genetics</i> , 2019, 132, 593-605.	1.8	91
32	Highly effective cell synchronization in plant roots by hydroxyurea and amiprofos-methyl or colchicine. <i>Genome</i> , 1993, 36, 387-390.	0.9	89
33	Isolation and characterization of X chromosome-derived DNA sequences from a dioecious plant <i>Melandrium album</i> . <i>Chromosome Research</i> , 1997, 5, 57-6.	1.0	89
34	Uniparental loss of ribosomal DNA in the allotetraploid grass <i>Zingieria trichopoda</i> (2n= 8). <i>Genome</i> , 2003, 46, 156-163.	0.9	87
35	<i>Arabidopsis</i> Chromatin-Associated HMGA and HMGB Use Different Nuclear Targeting Signals and Display Highly Dynamic Localization within the Nucleus. <i>Plant Cell</i> , 2006, 18, 2904-2918.	3.1	86
36	The holocentric species <i>Caenorhabditis elegans</i> shows interplay between centromere and large-scale genome organization. <i>Plant Journal</i> , 2013, 73, 555-565.	2.8	86

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37	Molecular cytogenetic characterisation of the terminal heterochromatic segment of the B-chromosome of rye (<i>Secale cereale</i>). <i>Chromosoma</i> , 1996, 105, 97-103.	1.0	84
38	European maize genomes highlight intraspecies variation in repeat and gene content. <i>Nature Genetics</i> , 2020, 52, 950-957.	9.4	84
39	The chromatin remodelling complex FACT associates with actively transcribed regions of the <i>Arabidopsis</i> genome. <i>Plant Journal</i> , 2004, 40, 660-671.	2.8	82
40	Changing local recombination patterns in <i>Arabidopsis</i> by CRISPR/Cas mediated chromosome engineering. <i>Nature Communications</i> , 2020, 11, 4418.	5.8	82
41	The temporal and spatial pattern of histone H3 phosphorylation at serine 28 and serine 10 is similar in plants but differs between mono- and polycentric chromosomes. <i>Cytogenetic and Genome Research</i> , 2003, 101, 172-176.	0.6	81
42	Refined examination of plant metaphase chromosome structure at different levels made feasible by new isolation methods. <i>Chromosoma</i> , 1993, 102, 96-101.	1.0	79
43	Nondisjunction in Favor of a Chromosome: The Mechanism of Rye B Chromosome Drive during Pollen Mitosis. <i>Plant Cell</i> , 2012, 24, 4124-4134.	3.1	77
44	Alternative meiotic chromatid segregation in the holocentric plant <i>Luzula elegans</i> . <i>Nature Communications</i> , 2014, 5, 4979.	5.8	77
45	Transcriptionally Active Heterochromatin in Rye B Chromosomes. <i>Plant Cell</i> , 2007, 19, 1738-1749.	3.1	75
46	High-copy sequences reveal distinct evolution of the rye B chromosome. <i>New Phytologist</i> , 2013, 199, 550-558.	3.5	75
47	Formation and Expression of Pseudogenes on the B Chromosome of Rye. <i>Plant Cell</i> , 2013, 25, 2536-2544.	3.1	74
48	Microdissection and microcloning of the barley (<i>Hordeum vulgare</i> L.) chromosome 1HS. <i>Theoretical and Applied Genetics</i> , 1993, 86, 629-636.	1.8	73
49	Chromosome "painting" in plants - a feasible technique?. <i>Chromosoma</i> , 1996, 104, 315-320.	1.0	72
50	Molecular Evidence for Transcription of Genes on a B Chromosome in <i>Crepis capillaris</i> . <i>Genetics</i> , 2005, 171, 269-278.	1.2	72
51	A Set of Cytogenetic Markers Allows the Precise Identification of All A-Genome Chromosomes in Diploid and Polyploid Wheat. <i>Cytogenetic and Genome Research</i> , 2015, 146, 71-79.	0.6	69
52	Genes on B chromosomes: Old questions revisited with new tools. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2015, 1849, 64-70.	0.9	68
53	B Chromosomes - A Matter of Chromosome Drive. <i>Frontiers in Plant Science</i> , 2017, 08, 210.	1.7	68
54	Holocentric Chromosomes of <i>Luzula elegans</i> Are Characterized by a Longitudinal Centromere Groove, Chromosome Bending, and a Terminal Nucleolus Organizer Region. <i>Cytogenetic and Genome Research</i> , 2011, 134, 220-228.	0.6	65

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55	Colchicine-induced polyploidization depends on tubulin polymerization in c-metaphase cells. <i>Protoplasma</i> , 2006, 227, 147-153.	1.0	61
56	Centromeric and non-centromeric satellite DNA organisation differs in holocentric <i>Rhynchospora</i> species. <i>Chromosoma</i> , 2017, 126, 325-335.	1.0	59
57	Centromere location in <i>Arabidopsis</i> is unaltered by extreme divergence in CENH3 protein sequence. <i>Genome Research</i> , 2017, 27, 471-478.	2.4	58
58	Chromosome "painting" in plants - a feasible technique?. <i>Chromosoma</i> , 1996, 104, 315-320.	1.0	58
59	Elimination of chromosomes in <i>Hordeum vulgare</i> - <i>H. bulbosum</i> crosses at mitosis and interphase involves micronucleus formation and progressive heterochromatinization. <i>Cytogenetic and Genome Research</i> , 2006, 114, 169-174.	0.6	56
60	The Expression Level of the Chromatin-Associated HMGB1 Protein Influences Growth, Stress Tolerance, and Transcriptome in <i>Arabidopsis</i> . <i>Journal of Molecular Biology</i> , 2008, 384, 9-21.	2.0	56
61	The plant-specific family of DNA-binding proteins containing three HMG-box domains interacts with mitotic and meiotic chromosomes. <i>New Phytologist</i> , 2011, 192, 577-589.	3.5	55
62	The transcript elongation factor SPT4/SPT5 is involved in auxin-related gene expression in <i>Arabidopsis</i> . <i>Nucleic Acids Research</i> , 2014, 42, 4332-4347.	6.5	54
63	Rye B chromosomes are weakly transcribed and might alter the transcriptional activity of A chromosome sequences. <i>Chromosoma</i> , 2009, 118, 607-616.	1.0	52
64	Novel phosphorylation of histone H3 at threonine 11 that temporally correlates with condensation of mitotic and meiotic chromosomes in plant cells. <i>Cytogenetic and Genome Research</i> , 2005, 109, 148-155.	0.6	51
65	Chromosomes Carrying Meiotic Avoidance Loci in Three Apomictic Eudicot <i>Hieracium</i> Subgenus <i>Pilosella</i> Species Share Structural Features with Two Monocot Apomicts. <i>Plant Physiology</i> , 2011, 157, 1327-1341.	2.3	51
66	Rye B chromosomes encode a functional Argonaute-like protein with <i>in vitro</i> slicer activities similar to its A chromosome paralog. <i>New Phytologist</i> , 2017, 213, 916-928.	3.5	51
67	Polymerase chain reaction mediated localization of RFLP clones to microisolated translocation chromosomes of barley. <i>Genome</i> , 1994, 37, 550-555.	0.9	50
68	Synteny between <i>Brachypodium distachyon</i> and <i>Hordeum vulgare</i> as revealed by FISH. <i>Chromosome Research</i> , 2010, 18, 841-850.	1.0	50
69	Anti-Phosphorylated Histone H2A ^{Thr120} : A Universal Microscopic Marker for Centromeric Chromatin of Mono- and Holocentric Plant Species. <i>Cytogenetic and Genome Research</i> , 2014, 143, 150-156.	0.6	50
70	B-chromosome origin in the endemic New Zealand frog <i>Leiopelma hochstetteri</i> through sex chromosome devolution. <i>Genome</i> , 1998, 41, 14-22.	0.9	48
71	Additive inheritance of histone modifications in <i>Arabidopsis thaliana</i> intra-specific hybrids. <i>Plant Journal</i> , 2011, 67, 691-700.	2.8	48
72	The ultrastructure of mono- and holocentric plant centromeres: an immunological investigation by structured illumination microscopy and scanning electron microscopy. <i>Chromosoma</i> , 2015, 124, 503-517.	1.0	48

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73	Utility of DNA amplified by degenerate oligonucleotide-primed PCR (DOP-PCR) from the total genome and defined chromosomal regions of field bean. <i>Molecular Genetics and Genomics</i> , 1994, 243, 173-177.	2.4	46
74	Molecular-cytogenetic analysis of <i>Aegilops triuncialis</i> and identification of its chromosomes in the background of wheat. <i>Molecular Cytogenetics</i> , 2014, 7, 91.	0.4	46
75	Sequencing of Single Pollen Nuclei Reveals Meiotic Recombination Events at Megabase Resolution and Circumvents Segregation Distortion Caused by Postmeiotic Processes. <i>Frontiers in Plant Science</i> , 2017, 8, 1620.	1.7	46
76	B-chromosome origin in the endemic New Zealand frog <i>Leiopelma hochstetteri</i> through sex chromosome devolution. <i>Genome</i> , 1998, 41, 14-22.	0.9	45
77	Aurora1 phosphorylation activity on histone H3 and its cross-talk with other post-translational histone modifications in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2009, 59, 221-230.	2.8	44
78	Induction of telomere-mediated chromosomal truncation and stability of truncated chromosomes in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2011, 68, 28-39.	2.8	44
79	CENH3 distribution and differential chromatin modifications during pollen development in rye (<i>Secale</i>) Tj ETQq1 1 0.784314 rrgBT /Over	1.0	44
80	Holokinetic centromeres and efficient telomere healing enable rapid karyotype evolution. <i>Chromosoma</i> , 2015, 124, 519-528.	1.0	44
81	The differential loading of two barley CENH3 variants into distinct centromeric substructures is cell type- and development-specific. <i>Chromosome Research</i> , 2015, 23, 277-284.	1.0	44
82	Analysis of transposable elements and organellar DNA in male and female genomes of a species with a huge Y chromosome reveals distinct Y centromeres. <i>Plant Journal</i> , 2016, 88, 387-396.	2.8	44
83	Differential immunostaining of plant chromosomes by antibodies recognizing acetylated histone H4 variants. <i>Chromosome Research</i> , 1996, 4, 191-194.	1.0	42
84	Alterations in the distribution of histone H3 phosphorylation in mitotic plant chromosomes in response to cold treatment and the protein phosphatase inhibitor cantharidin. <i>Chromosome Research</i> , 2002, 10, 467-476.	1.0	42
85	Super-Resolution Microscopy Reveals Diversity of Plant Centromere Architecture. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3488.	1.8	42
86	The evolution of the hexaploid grass <i>Zingeria kochii</i> (Mez) Tzvel. (2n=12) was accompanied by complex hybridization and uniparental loss of ribosomal DNA. <i>Molecular Phylogenetics and Evolution</i> , 2010, 56, 146-155.	1.2	41
87	Telomere-mediated truncation of barley chromosomes. <i>Chromosoma</i> , 2012, 121, 181-190.	1.0	41
88	Histone H4 acetylation in plant heterochromatin is altered during the cell cycle. <i>Chromosoma</i> , 1997, 106, 193-197.	1.0	40
89	The genomic complexity of micro B chromosomes of <i>Brachycome dichromosomatica</i> . <i>Chromosoma</i> , 2001, 110, 451-459.	1.0	40
90	Distribution patterns of phosphorylated Thr 3 and Thr 32 of histone H3 in plant mitosis and meiosis. <i>Cytogenetic and Genome Research</i> , 2008, 122, 73-79.	0.6	39

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91	Ribosomal RNA genes specific to the B chromosomes in <i>Brachycome dichromosomatica</i> are not transcribed in leaf tissue. <i>Genome</i> , 1997, 40, 674-681.	0.9	38
92	A monophyletic origin of the B chromosomes of <i>Brachycome dichromosomatica</i> (Asteraceae). <i>Plant Systematics and Evolution</i> , 1999, 219, 127-135.	0.3	38
93	Intraspecific hybrids of <i>Arabidopsis thaliana</i> revealed no gross alterations in endopolyploidy, DNA methylation, histone modifications and transcript levels. <i>Theoretical and Applied Genetics</i> , 2010, 120, 215-226.	1.8	38
94	Sources of Stem Rust Resistance in Wheat-Alien Introgression Lines. <i>Plant Disease</i> , 2016, 100, 1101-1109.	0.7	38
95	B Chromosomes of <i>Aegilops speltoides</i> Are Enriched in Organelle Genome-Derived Sequences. <i>PLoS ONE</i> , 2014, 9, e90214.	1.1	38
96	Mapping nonrecombining regions in barley using multicolor FISH. <i>Chromosome Research</i> , 2013, 21, 739-751.	1.0	37
97	The H3 histone chaperone NASP ^{SIM3} escorts CenH3 in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2020, 101, 71-86.	2.8	37
98	Mitotic Spindle Attachment to the Holocentric Chromosomes of <i>Cuscuta europaea</i> Does Not Correlate With the Distribution of CENH3 Chromatin. <i>Frontiers in Plant Science</i> , 2020, 10, 1799.	1.7	37
99	Differences of histone H4 acetylation and replication timing between A and B chromosomes of <i>Brachycome dichromosomatica</i> . <i>Chromosome Research</i> , 1997, 5, 233-237.	1.0	36
100	Immunogold labeling of chromosomes for scanning electron microscopy: a closer look at phosphorylated histone H3 in mitotic metaphase chromosomes of <i>Hordeum vulgare</i> . <i>Chromosome Research</i> , 2003, 11, 585-596.	1.0	36
101	How Next-Generation Sequencing Has Aided Our Understanding of the Sequence Composition and Origin of B Chromosomes. <i>Genes</i> , 2017, 8, 294.	1.0	36
102	A repetitive DNA sequence common to the different B chromosomes of the genus. <i>Chromosoma</i> , 1997, 106, 513.	1.0	36
103	The pericentromeric heterochromatin of the grass <i>Zingera biebersteiniana</i> (2n = 4) is composed of Zbcen1-type tandem repeats that are intermingled with accumulated dispersedly organized sequences. <i>Genome</i> , 2001, 44, 955-961.	0.9	35
104	Characterization of Eu- and Heterochromatin of <i>Citrus</i> with a Focus on the Condensation Behavior of 45S rDNA Chromatin. <i>Cytogenetic and Genome Research</i> , 2011, 134, 72-82.	0.6	35
105	Measuring Meiotic Crossovers via Multi-Locus Genotyping of Single Pollen Grains in Barley. <i>PLoS ONE</i> , 2015, 10, e0137677.	1.1	34
106	Barley doubled-haploid production by uniparental chromosome elimination. <i>Plant Cell, Tissue and Organ Culture</i> , 2011, 104, 321-327.	1.2	33
107	Mitotic lifecycle of chromosomal HMG-box proteins and the role of their N-terminal domain in the association with rDNA loci and proteolysis. <i>New Phytologist</i> , 2015, 208, 1067-1077.	3.5	33
108	Altered expression of Aurora kinases in <i>Arabidopsis</i> results in aneuploidy and polyploidization. <i>Plant Journal</i> , 2014, 80, 449-461.	2.8	32

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109	Cytogenetic mapping with centromeric bacterial artificial chromosomes contigs shows that this recombination-poor region comprises more than half of barley chromosome 3H. <i>Plant Journal</i> , 2015, 84, 385-394.	2.8	32
110	Restructuring of Holocentric Centromeres During Meiosis in the Plant <i>Rhynchospora pubera</i> . <i>Genetics</i> , 2016, 204, 555-568.	1.2	32
111	RNA-guided endonuclease <i>in situ</i> labelling (RGEN-ISL): a fast CRISPR/Cas9-based method to label genomic sequences in various species. <i>New Phytologist</i> , 2019, 222, 1652-1661.	3.5	32
112	A repetitive DNA sequence common to the different B chromosomes of the genus <i>Brachycome</i> . <i>Chromosoma</i> , 1997, 106, 513-519.	1.0	31
113	Engineered Plant Minichromosomes: A Bottom-Up Success?. <i>Plant Cell</i> , 2008, 20, 8-10.	3.1	31
114	Epigenetic Histone Marks of Extended Meta-Polycentric Centromeres of <i>Lathyrus</i> and <i>Pisum</i> Chromosomes. <i>Frontiers in Plant Science</i> , 2016, 7, 234.	1.7	31
115	Chromatin Ring Formation at Plant Centromeres. <i>Frontiers in Plant Science</i> , 2016, 7, 28.	1.7	30
116	Supernumerary B chromosomes of <i>Aegilops speltoides</i> undergo precise elimination in roots early in embryo development. <i>Nature Communications</i> , 2020, 11, 2764.	5.8	30
117	Immunostaining and interphase arrangement of field bean kinetochores. <i>Chromosome Research</i> , 1995, 3, 27-31.	1.0	29
118	Biology and Evolution of B Chromosomes. , 2013, , 149-165.		29
119	Localization of vicilin genes via polymerase chain reaction on microisolated field bean chromosomes. <i>Plant Journal</i> , 1993, 3, 883-886.	2.8	28
120	AtHaspin phosphorylates histone H3 at threonine 3 during mitosis and contributes to embryonic patterning in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2011, 68, 443-454.	2.8	28
121	<i>Arabidopsis</i> NSE4 Proteins Act in Somatic Nuclei and Meiosis to Ensure Plant Viability and Fertility. <i>Frontiers in Plant Science</i> , 2019, 10, 774.	1.7	28
122	Quantum dots—a versatile tool in plant science?. <i>Journal of Nanobiotechnology</i> , 2006, 4, 5.	4.2	27
123	Engineered Plant Minichromosomes: A Resurrection of B Chromosomes?. <i>Plant Cell</i> , 2007, 19, 2323-2327.	3.1	27
124	Characterization of Centromeric Histone H3 (CENH3) Variants in Cultivated and Wild Carrots (<i>Daucus</i>) Tj ETQq0 0 0 rGBT /Overlock 10	1.1	27
125	Nondisjunction and unequal spindle organization accompany the drive of <i>Aegilops speltoides</i> B chromosomes. <i>New Phytologist</i> , 2019, 223, 1340-1352.	3.5	26
126	The molecular organisation of a B chromosome tandem repeat sequence from <i>Brachycome dichromosomatica</i> . <i>Chromosoma</i> , 1996, 105, 223-230.	1.0	25

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127	Tissue culture triggers chromosome alterations, amplification, and transposition of repeat sequences in <i>Allium fistulosum</i> . <i>Genome</i> , 2007, 50, 435-442.	0.9	25
128	A Fast Air-dry Dropping Chromosome Preparation Method Suitable for FISH in Plants. <i>Journal of Visualized Experiments</i> , 2015, , e53470.	0.2	25
129	Evolution of Plant B Chromosome Enriched Sequences. <i>Genes</i> , 2018, 9, 515.	1.0	25
130	Application and prospects of CRISPR/Cas9-based methods to trace defined genomic sequences in living and fixed plant cells. <i>Chromosome Research</i> , 2020, 28, 7-17.	1.0	25
131	Cloning and characterisation of polymorphic heterochromatic segments of <i>Brachycome dichromosomatica</i> . <i>Chromosoma</i> , 2000, 109, 206-213.	1.0	24
132	CRISPR/Cas9-Based RGEN-ISL Allows the Simultaneous and Specific Visualization of Proteins, DNA Repeats, and Sites of DNA Replication. <i>Cytogenetic and Genome Research</i> , 2019, 159, 48-53.	0.6	24
133	Prospects and limitations of expansion microscopy in chromatin ultrastructure determination. <i>Chromosome Research</i> , 2020, 28, 355-368.	1.0	24
134	Prospects of telomere assembly in barley: Analysis of sequence gaps in the MorexV3 reference genome. <i>Plant Biotechnology Journal</i> , 2022, 20, 1373-1386.	4.1	24
135	The acetylation patterns of histones H3 and H4 along <i>Vicia faba</i> chromosomes are different. <i>Chromosome Research</i> , 1998, 6, 59-63.	1.0	23
136	Kmasker - A Tool for in silico Prediction of Single-Copy FISH Probes for the Large-Genome Species <i>Hordeum vulgare</i> . <i>Cytogenetic and Genome Research</i> , 2014, 142, 66-78.	0.6	23
137	B chromosomes of <i>B. dichromosomatica</i> show a reduced level of euchromatic histone H3 methylation marks. <i>Chromosome Research</i> , 2007, 15, 215-222.	1.0	22
138	Current SEM techniques for deconstruction and reconstruction of centromeres to determine 3D CENH3 distribution in barley mitotic chromosomes. <i>Journal of Microscopy</i> , 2012, 246, 96-106.	0.8	22
139	B chromosomes of rye are highly conserved and accompanied the development of early agriculture. <i>Annals of Botany</i> , 2013, 112, 527-534.	1.4	22
140	Conserved molecular structure of the centromeric histone CENH3 in <i>Secale</i> and its phylogenetic relationships. <i>Scientific Reports</i> , 2017, 7, 17628.	1.6	22
141	Ultrastructure and Dynamics of Synaptonemal Complex Components During Meiotic Pairing and Synapsis of Standard (A) and Accessory (B) Rye Chromosomes. <i>Frontiers in Plant Science</i> , 2019, 10, 773.	1.7	22
142	Evolution and function of B chromosome 45S rDNA sequences in <i>Brachycome dichromosomatica</i> . <i>Genome</i> , 2007, 50, 638-644.	0.9	21
143	Molecular cytogenetic characterisation of the terminal heterochromatic segment of the B-chromosome of rye (<i>Secale cereale</i>). <i>Chromosoma</i> , 1996, 105, 97-103.	1.0	21
144	Molecular-cytogenetic characterization of a higher plant centromere/kinetochore complex. <i>Theoretical and Applied Genetics</i> , 1996, 93, 477-484.	1.8	20

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145	<i>Plantago lagopus</i> B Chromosome Is Enriched in 5S rDNA-Derived Satellite DNA. <i>Cytogenetic and Genome Research</i> , 2016, 148, 68-73.	0.6	20
146	Evolution, Composition and Regulation of Supernumerary B Chromosomes. <i>Genes</i> , 2019, 10, 161.	1.0	20
147	Unequal contribution of two paralogous CENH3 variants in cowpea centromere function. <i>Communications Biology</i> , 2020, 3, 775.	2.0	20
148	Karyotype analysis and physical mapping of 18S-5.8S-25S and 5S ribosomal RNA loci in species of genus <i>Lens</i> Miller (Fabaceae). <i>Caryologia</i> , 2002, 55, 121-128.	0.2	19
149	The distribution of epigenetic histone marks differs between the X and Y chromosomes in <i>Silene latifolia</i> . <i>Planta</i> , 2019, 250, 487-494.	1.6	19
150	The B chromosomes in <i>Brachycome</i> . <i>Cytogenetic and Genome Research</i> , 2004, 106, 199-209.	0.6	18
151	Distribution of Eu- and Heterochromatin in <i>Plantago ovata</i> . <i>Cytogenetic and Genome Research</i> , 2009, 125, 235-240.	0.6	18
152	De novo generation of plant centromeres at tandem repeats. <i>Chromosoma</i> , 2013, 122, 233-241.	1.0	18
153	Cytomixis does not induce obvious changes in chromatin modifications and programmed cell death in tobacco male meiocytes. <i>Frontiers in Plant Science</i> , 2015, 6, 846.	1.7	18
154	Two combinatorial patterns of telomere histone marks in plants with canonical and non-canonical telomere repeats. <i>Plant Journal</i> , 2020, 102, 678-687.	2.8	18
155	Aneuploids as a key for new molecular cloning strategies: development of DNA markers by microdissection using <i>Triticum aestivum</i> - <i>Aegilops markgrafii</i> chromosome addition line B. <i>Euphytica</i> , 1996, 89, 41-47.	0.6	17
156	Chromatin Alterations during Pollen Development in <i>Hordeum vulgare</i> . <i>Cytogenetic and Genome Research</i> , 2013, 141, 50-57.	0.6	17
157	Collinearity of homoeologous group 3 chromosomes in the genus <i>Hordeum</i> and <i>Secale cereale</i> as revealed by 3H-derived FISH analysis. <i>Chromosome Research</i> , 2016, 24, 231-242.	1.0	17
158	Together But Different: The Subgenomes of the Bimodal Eleutherine Karyotypes Are Differentially Organized. <i>Frontiers in Plant Science</i> , 2019, 10, 1170.	1.7	17
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160	Functional Divergence of Microtubule-Associated TPX2 Family Members in <i>Arabidopsis thaliana</i> . <i>International Journal of Molecular Sciences</i> , 2020, 21, 2183.	1.8	17
161	Centromere-specific acetylation of histone H4 in barley detected through three-dimensional microscopy. <i>Plant Molecular Biology</i> , 2003, 51, 533-541.	2.0	16
162	Analysis of hybrid lethality in F1 wheat-rye hybrid embryos. <i>Euphytica</i> , 2008, 159, 367-375.	0.6	16

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164	TPX2 Protein of Arabidopsis Activates Aurora Kinase 1, But Not Aurora Kinase 3 In Vitro. <i>Plant Molecular Biology Reporter</i> , 2015, 33, 1988-1995.	1.0	16
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166	Application of Tris-HCl Allows the Specific Labeling of Regularly Prepared Chromosomes by CRISPR-FISH. <i>Cytogenetic and Genome Research</i> , 2020, 160, 156-165.	0.6	16
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170	Characterization of a peg-like terminal NOR structure with light microscopy and high-resolution scanning electron microscopy. <i>Chromosoma</i> , 2006, 115, 50-59.	1.0	15
171	Fine mapping and chromosome walking towards the Ror1 locus in barley (<i>Hordeum vulgare</i> L.). <i>Theoretical and Applied Genetics</i> , 2013, 126, 2969-2982.	1.8	15
172	Structure and evolution of supernumerary chromosomes in the Pacific giant salamander, <i>Dicamptodon tenebrosus</i> . <i>Chromosome Research</i> , 2000, 8, 477-485.	1.0	14
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191	Chromosome numbers in Byblidaceae. <i>Australian Journal of Botany</i> , 2002, 50, 583.	0.3	9
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206	Construction of comparative genetic maps of two 4Bs.4Bl-5Rl translocations in bread wheat (<i>Triticum turgidum</i> L. cv. Overlock 10 T)	0.9	6
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