John S Heslop-Harrison

List of Publications by Citations

307 papers	12,315 citations	61 h-index	98 g-index
391 ext. papers	13,727 ext. citations	4.5 avg, IF	6.45 L-index

#	Paper	IF	Citations
307	The banana (Musa acuminata) genome and the evolution of monocotyledonous plants. *Nature*, **2012**, 488, 213-7	50.4	762
306	In Situ Localization of Parental Genomes in a Wide Hybrid. *Annals of Botany*, **1989**, 64, 315-324	4.1	365
305	Comparative genome organization in plants: from sequence and markers to chromatin and chromosomes. *Plant Cell*, **2000**, 12, 617-36	11.6	266
304	Domestication, genomics and the future for banana. *Annals of Botany*, **2007**, 100, 1073-84	4.1	247
303	Localization of tandemly repeated DMA sequences in Arabidopsis thaliana. *Plant Journal*, **1991**, 1, 159-166	6.9	225
302	Genomes, genes and junk: the large-scale organization of plant chromosomes. *Trends in Plant Science*, **1998**, 3, 195-199	13.1	221
301	Insight into the evolution of the Solanaceae from the parental genomes of Petunia hybrida. *Nature Plants*, **2016**, 2, 16074	11.5	198
300	Genomic in situ hybridization to identify alien chromosomes and chromosome segments in wheat. *Theoretical and Applied Genetics*, **1992**, 84, 778-86	6	190
299	The large-scale genomic organization of repetitive DNA families at the telomeres of rye chromosomes. *Plant Cell*, **1995**, 7, 1823-33	11.6	178
298	Organisation of the plant genome in chromosomes. *Plant Journal*, **2011**, 66, 18-33	6.9	177
297	Physical mapping of the 18S□.8S□6S rRNA genes in barley by in situ hybridization. *Genome*, **1992**, 35, 1013-1018	2.4	175
296	Discrimination between closely related Triticeae species using genomic DNA as a probe. *Theoretical and Applied Genetics*, **1990**, 79, 721-8	6	173
295	Integration of banana streak badnavirus into the Musa genome: molecular and cytogenetic evidence. *Virology*, **1999**, 255, 207-13	3.6	172
294	Physical mapping of rDNA loci in Brassica species. *Genome*, **1993**, 36, 774-81	2.4	164
293	Polyploidy and interspecific hybridization: partners for adaptation, speciation and evolution in plants. *Annals of Botany*, **2017**, 120, 183-194	4.1	147
292	Physical mapping of four sites of 5S rDNA sequences and one site of the α-amylase-2 gene in barley (Hordeum vulgare). *Genome*, **1993**, 36, 517-23	2.4	146
291	Centromeric repetitive DNA sequences in the genus Brassica. *Theoretical and Applied Genetics*, **1995**, 90, 157-65	6	141

290	Comparative physical mapping of the 5S and 18S-25S rDNA in nine wild Hordeum species and cytotypes. *Theoretical and Applied Genetics*, **1999**, 98, 1-9	6	138
289	Repetitive DNA Elements as a Major Component of Plant Genomes. *Annals of Botany*, **1998**, 82, 45-55	4.1	136
288	From crop domestication to super-domestication. *Annals of Botany*, **2007**, 100, 893-901	4.1	135
287	Physical mapping of rRNA genes by fluorescent in-situ hybridization and structural analysis of 5S rRNA genes and intergenic spacer sequences in sugar beet (Beta vulgaris). *Theoretical and Applied Genetics*, **1994**, 88, 629-36	6	122
286	Analysis of a repetitive DNA family from Arabidopsis arenosa and relationships between Arabidopsis species. *Plant Molecular Biology*, **1995**, 27, 853-62	4.6	119
285	Polymorphisms and genomic organization of repetitive DNA from centromeric regions of Arabidopsis chromosomes. *Plant Cell*, **1999**, 11, 31-42	11.6	116
284	Detection and characterization of 1B/1R translocations in hexaploid wheat. *Heredity*, **1990**, 65, 385-392	3.6	113
283	Diversity, origin, and distribution of retrotransposons (gypsy and copia) in conifers. *Molecular Biology and Evolution*, **2001**, 18, 1176-88	8.3	111
282	The Ty1-copia group retrotransposons of Allium cepa are distributed throughout the chromosomes but are enriched in the terminal heterochromatin. *Chromosome Research*, **1996**, 4, 357-64	4.4	108
281	Possible origin of a B chromosome deduced from its DNA composition using double FISH technique. *Chromosome Research*, **1994**, 2, 87-92	4.4	108
280	Physical mapping of the 5S ribosomal RNA genes in Arabidopsis thaliana by multi-color fluorescence in situ hybridization with cosmid clones. *Plant Journal*, **1997**, 12, 31-7	6.9	104
279	Parental genomes are separated throughout the cell cycle in a plant hybrid. *Chromosoma*, **1991**, 101, 206-213	2.8	104
278	Physical mapping of 5S and 18S-25S rDNA and repetitive DNA sequences in Aegilops umbellulata. *Genome*, **1995**, 38, 91-6	2.4	103
277	Isolation and characterization of genome-specific DNA sequences in Triticeae species. *Molecular Genetics and Genomics*, **1993**, 240, 151-8		102
276	The chromosomal distributions of Ty1-copia group retrotransposable elements in higher plants and their implications for genome evolution. *Genetica*, **1997**, 100, 197-204	1.5	99
275	Nuclear architecture in plants. *Trends in Genetics*, **1990**, 6, 401-5	8.5	98
274	Comparative analysis of the chromosomal and genomic organization of Ty1-copia-like retrotransposons in pteridophytes, gymnosperms and angiosperms. *Plant Molecular Biology*, **1997**, 33, 11-21	4.6	95
273	The Ty1-copia group retrotransposons in Vicia species: copy number, sequence heterogeneity and chromosomal localisation. *Molecular Genetics and Genomics*, **1996**, 250, 305-15		94

272	The genomic and physical organization of Ty1-copia-like sequences as a component of large genomes in Pinus elliottii var. elliottii and other gymnosperms. *Proceedings of the National Academy of Sciences of the United States of America*, **1996**, 93, 2708-13	11.5	91
271	The physical and genomic organization of microsatellites in sugar beet. *Proceedings of the National Academy of Sciences of the United States of America*, **1996**, 93, 8761-5	11.5	89
270	Karyotype of Slash Pine (Pinus elliottii var. elliottii) Using Patterns of Fluorescence in situ Hybridization and Fluorochrome Banding. *Journal of Heredity*, **1995**, 86, 289-296	2.4	86
269	The barley Genome and its Relationship with the Wheat Genomes. A Survey with an Internationally Agreed Recommendation for Barley Chromosome Nomenclature. *Hereditas*, **2004**, 126, 1-16	2.4	84
268	Physical mapping of plant DNA sequences by simultaneous in situ hybridization of two differently labelled fluorescent probes. *Genome*, **1991**, 34, 329-333	2.4	84
267	In situ hybridization to plant telomeres using synthetic oligomers. *Genome*, **1991**, 34, 317-323	2.4	83
266	The Molecular Cytogenetics of Plants. *Journal of Cell Science*, **1991**, 100, 15-21	5.3	83
265	The 1.688 repetitive DNA of Drosophila: concerted evolution at different genomic scales and association with genes. *Molecular Biology and Evolution*, **2012**, 29, 7-11	8.3	80
264	Construction of a chromosome-enriched HpaII library from flow-sorted wheat chromosomes. *Nucleic Acids Research*, **1992**, 20, 1897-901	20.1	80
263	The Ty1-copia group of retrotransposons in plants: genomic organisation, evolution, and use as molecular markers. *Genetica*, **1997**, 100, 205-217	1.5	79
262	Tropical Plant Collections: Legacies from the Past? Essential Tools for the Future? Scientia Danica. Series B, Biologica vol. 6 Ib Friis and Henrik Balslev (eds). *Annals of Botany*, **2019**, 123, vii-viii	4.1	78
261	Diversity of a major repetitive DNA sequence in diploid and polyploid Triticeae. *Cytogenetic and Genome Research*, **2005**, 109, 34-42	1.9	76
260	Analysis and chromosomal localization of retrotransposons in sugar beet (Beta vulgaris L.): LINEs and Ty1-copia-like elements as major components of the genome. *Chromosome Research*, **1995**, 3, 335-45	4.4	74
259	Molecular diversification of tandemly organized DNA sequences and heterochromatic chromosome regions in some Triticeae species. *Chromosome Research*, **1996**, 4, 517-25	4.4	71
258	Reprobing of DNA:DNA in situ hybridization preparations. *Trends in Genetics*, **1992**, 8, 372-3	8.5	71
257	Retroelements, transposons and methylation status in the genome of oil palm (Elaeis guineensis) and the relationship to somaclonal variation. *Plant Molecular Biology*, **2003**, 52, 69-79	4.6	67
256	Rye chromosome variability in wheat-rye addition and substitution lines. *Chromosome Research*, **1999**, 7, 205-12	4.4	67
255	Comparative analysis of the nucleosomal structure of rye, wheat and their relatives. *Plant Molecular Biology*, **1998**, 36, 149-61	4.6	66

254	Genomic in situ hybridization to sectioned nuclei shows chromosome domains in grass hybrids. *Journal of Cell Science*, **1990**, 95, 335-341	5.3	66
253	Investigations of Genome Relationships Between Leymus, Psathyrostachys and Hordeum Inferred by Genomic DNA:DNA in situ Hybridization. *Annals of Botany*, **1994**, 73, 195-203	4.1	64
252	The CACTA transposon Bot1 played a major role in Brassica genome divergence and gene proliferation. *Plant Journal*, **2008**, 56, 1030-44	6.9	63
251	The molecular cytogenetics of Vigna unguiculata (L.) Walp: the physical organization and characterization of 18s-5.8s-25s rRNA genes, 5s rRNA genes, telomere-like sequences, and a family of centromeric repetitive DNA sequences. *Theoretical and Applied Genetics*, **1995**, 91, 928-35	6	62
250	Chromosomal and genomic organization of Ty1-copia-like retrotransposon sequences in the genus Avena. *Genome*, **1996**, 39, 410-7	2.4	62
249	The distribution, organization and evolution of two abundant and widespread repetitive DNA sequences in the genus Hordeum. *Theoretical and Applied Genetics*, **2000**, 100, 169-176	6	61
248	rRNA gene activity and control of expression mediated by methylation and imprinting during embryo development in wheat x rye hybrids. *Theoretical and Applied Genetics*, **1995**, 91, 529-33	6	61
247	Characterization and genomic organization of Ty1-copia group retrotransposons in rye (Secale cereale). *Genome*, **1997**, 40, 617-25	2.4	60
246	Multiple repetitive DNA sequences in the paracentromeric regions of Arabidopsis thaliana L. *Chromosome Research*, **1997**, 5, 238-46	4.4	60
245	Tandemly repeated DNA sequences and centromeric chromosomal regions of Arabidopsis species. *Chromosome Research*, **2003**, 11, 241-53	4.4	60
244	Registration of Mace Hard Red Winter Wheat. *Journal of Plant Registrations*, **2009**, 3, 51-56	0.7	59
243	Reticulate evolution in Panicum (Poaceae): the origin of tetraploid broomcorn millet, P. miliaceum. *Journal of Experimental Botany*, **2014**, 65, 3165-75	7	57
242	The contribution of short repeats of low sequence complexity to large conifer genomes. *Theoretical and Applied Genetics*, **2000**, 101, 7-14	6	55
241	Enset in Ethiopia: a poorly characterized but resilient starch staple. *Annals of Botany*, **2019**, 123, 747-766	4.1	52
240	The evolution of Ty1-copia group retrotransposons in eukaryote genomes. *Genetica*, **1997**, 100, 185-195	1.5	52
239	Different patterns of rDNA organization at interphase in nuclei of wheat and rye. *Journal of Cell Science*, **1992**, 101, 751-757	5.3	51
238	High-resolution mapping of repetitive DNA by in situ hybridization: molecular and chromosomal features of prominent dispersed and discretely localized DNA families from the wild beet species Beta procumbens. *Plant Molecular Biology*, **1996**, 30, 1099-113	4.6	50
237	The chromosomal distributions of Ty1-copia group retrotransposable elements in higher plants and their implications for genome evolution. *Genetica*, **1997**, 100, 197-204	1.5	49

236	A design principle underlying the synchronization of oscillations in cellular systems. *Journal of Cell Science*, **2010**, 123, 537-43	5.3	48
235	Characterization of a new family of tobacco highly repetitive DNA, GRS, specific for the Nicotiana tomentosiformis genomic component. *Chromosome Research*, **1995**, 3, 245-54	4.4	48
234	Diverse patterns of the tandem repeats organization in rye chromosomes. *Chromosoma*, **2004**, 113, 42-52	2.8	47
233	Genome classification of banana cultivars from South India using IRAP markers. *Euphytica*, **2005**, 144, 285-290	2.1	46
232	The Close Relationship Between the A and B Genomes inAvenaL. (Poaceae) Determined by Molecular Cytogenetic Analysis of Total Genomic, Tandemly and Dispersed Repetitive DNA Sequences. *Annals of Botany*, **1997**, 79, 103-109	4.1	45
231	Nucleolar dominance in triticales: control by unlinked genes. *Chromosome Research*, **1997**, 5, 125-31	4.4	45
230	Retroelement insertional polymorphisms, diversity and phylogeography within diploid, D-genome Aegilops tauschii (Triticeae, Poaceae) sub-taxa in Iran. *Annals of Botany*, **2008**, 101, 855-61	4.1	45
229	Variability and evolution of highly repeated DNA sequences in the genus Beta. *Genome*, **1993**, 36, 1074-9	2.4	45
228	Behavior of Parental Genomes in the Hybrid Hordeum vulgare H. bulbosum. *Journal of Heredity*, **1993**, 84, 78-82	2.4	45
227	Identification of the Genomic Constitution ofMusaL. Lines (Bananas, Plantains and Hybrids) Using Molecular Cytogenetics. *Annals of Botany*, **1997**, 80, 787-793	4.1	43
226	Molecular cytogenetic analysis of Podocarpus and comparison with other gymnosperm species. *Annals of Botany*, **2002**, 89, 483-9	4.1	43
225	GERMINATION OF CORYLUS AVELLANA L. (HAZEL) POLLEN: HYDRATION AND THE FUNCTION OF THE ONCUS. *Acta Botanica Neerlandica*, **1986**, 35, 265-284		43
224	The diversity of retroelements in diploid and allotetraploid Brassica species. *Plant Molecular Biology*, **2004**, 54, 895-909	4.6	41
223	DNA density in mitotic and meiotic metaphase chromosomes of plants and animals. *Journal of Cell Science*, **1983**, 63, 173-179	5.3	41
222	The genomic organization of non-LTR retrotransposons (LINEs) from three Beta species and five other angiosperms. *Plant Molecular Biology*, **1998**, 36, 821-31	4.6	40
221	Sequence analysis, chromosomal distribution and long-range organization show that rapid turnover of new and old pBuM satellite DNA repeats leads to different patterns of variation in seven species of the Drosophila buzzatii cluster. *Chromosome Research*, **2008**, 16, 307-24	4.4	40
220	Chromosome arrangements in human fibroblasts at mitosis. *Human Genetics*, **1991**, 88, 27-33	6.3	40
219	DNA density in mitotic and meiotic metaphase chromosomes of plants and animals. *Journal of Cell Science*, **1983**, 63, 173-9	5.3	40

218	Reduction of complex signaling networks to a representative kernel. *Science Signaling*, **2011**, 4, ra35	8.8	39
217	The World Saffron and Crocus collection: strategies for establishment, management, characterisation and utilisation. *Genetic Resources and Crop Evolution*, **2011**, 58, 125-137	2	38
216	Lodicule Function and Filament Extension in the Grasses: Potassium Ion Movement and Tissue Specialization. *Annals of Botany*, **1996**, 77, 573-582	4.1	38
215	Molecular Cytogenetics of the Genus Arabidopsis: In situ Localization of rDNA Sites, Chromosome Numbers and Diversity in Centromeric Heterochromatin. *Annals of Botany*, **1993**, 71, 479-484	4.1	37
214	Molecular and physical organization of highly repetitive, undermethylated DNA from Pennisetum glaucum. *Molecular Genetics and Genomics*, **1994**, 244, 420-5		37
213	Parental Genome Separation in Reconstructions of Somatic and Premeiotic Metaphases of Hordeum Vulgare H. Bulbosum. *Journal of Cell Science*, **1992**, 101, 13-24	5.3	37
212	Elucidating the mechanisms of cooperative calcium-calmodulin interactions: a structural systems biology approach. *BMC Systems Biology*, **2008**, 2, 48	3.5	36
211	The genomic organization of retrotransposons in Brassica oleracea. *Plant Molecular Biology*, **2005**, 59, 839-51	4.6	36
210	Relationships between species ofLeymus, Psathyrostachys, andHordeum (Poaceae, Triticeae) inferred from Southern hybridization of genomic and cloned DNA probes. *Plant Systematics and Evolution*, **1994**, 189, 217-231	1.3	36
209	LINEs and gypsy-like retrotransposons in Hordeum species. *Plant Molecular Biology*, **2002**, 49, 1-14	4.6	35
208	Segregation distortion in Lolium: evidence for genetic effects. *Theoretical and Applied Genetics*, **2008**, 117, 297-306	6	34
207	Molecular Cytogenetics ofMusaSpecies, Cultivars and Hybrids: Location of 18S-5.8S-25S and 5S rDNA and Telomere-like Sequences. *Annals of Botany*, **1998**, 82, 243-248	4.1	34
206	5-Methylcytosine distribution and genome organization in triticale before and after treatment with 5-azacytidine. *Journal of Cell Science*, **1999**, 112, 4397-4404	5.3	34
205	Flow cytometric analysis of the chromosomes and stability of a wheat cell-culture line. *Theoretical and Applied Genetics*, **1997**, 94, 91-7	6	33
204	Characterisation of pararetrovirus-like sequences in the genome of potato (Solanum tuberosum). *Cytogenetic and Genome Research*, **2005**, 110, 559-65	1.9	32
203	The spatial localization of homologous chromosomes in human fibroblasts at mitosis. *Human Genetics*, **1994**, 93, 275-80	6.3	32
202	Diversity and relationships of Crocus sativus and its relatives analysed by inter-retroelement amplified polymorphism (IRAP). *Annals of Botany*, **2015**, 116, 359-68	4.1	31
201	Introgression of chromosome segments from multiple alien species in wheat breeding lines with wheat streak mosaic virus resistance. *Heredity*, **2016**, 117, 114-23	3.6	31

200	Genomic organization and phylogenetic relationships in the genus Dasypyrum analysed by southern and in situ hybridization of total genomic and cloned DNA probes. *Chromosoma*, **1997**, 106, 53-61	2.8	31
199	Complex satellite DNA reshuffling in the polymorphic t(1;29) Robertsonian translocation and evolutionarily derived chromosomes in cattle. *Chromosome Research*, **2003**, 11, 641-8	4.4	31
198	The species and chromosomal distribution of the centromeric alpha-satellite I sequence from sheep in the tribe Caprini and other Bovidae. *Cytogenetic and Genome Research*, **2000**, 91, 62-6	1.9	31
197	A family of differentially amplified repetitive DNA sequences in the genus Beta reveals genetic variation in Beta vulgaris subspecies and cultivars. *Journal of Molecular Evolution*, **1997**, 44, 310-20	3.1	30
196	High levels of genetic diversity throughout the range of the Portuguese wheat landrace 'Barbela'. *Annals of Botany*, **2004**, 94, 699-705	4.1	30
195	A novel repetitive sequence associated with the centromeric regions of Arabidopsis thaliana chromosomes. *Molecular Genetics and Genomics*, **1996**, 253, 247-52		30
194	The self-incompatibility mating system of the olive (Olea europaea L.) functions with dominance between S-alleles. *Tree Genetics and Genomes*, **2014**, 10, 1055-1067	2.1	29
193	Stochastic noise and synchronisation during dictyostelium aggregation make cAMP oscillations robust. *PLoS Computational Biology*, **2007**, 3, e218	5	29
192	In situ hybridization and chromosome banding in mammalian species. *Cytogenetic and Genome Research*, **2002**, 96, 113-6	1.9	29
191	Centromeres, Telomeres and Chromatin in the Interphase Nucleus of Cereals. *Caryologia*, **1990**, 43, 205-213		29
190	The absence of the somatic association of centromeres of homologous chromosomes in grass mitotic metaphases. *Chromosoma*, **1988**, 96, 119-131	2.8	29
189	Genomic in situ hybridization to sectioned nuclei shows chromosome domains in grass hybrids. *Journal of Cell Science*, **1990**, 95 (Pt 3), 335-41	5.3	29
188	Molecular cytogenetic characterization of novel wheat-Thinopyrum bessarabicum recombinant lines carrying intercalary translocations. *Chromosoma*, **2016**, 125, 163-72	2.8	28
187	Chromosomal distribution and evolution of abundant retrotransposons in plants: gypsy elements in diploid and polyploid Brachiaria forage grasses. *Chromosome Research*, **2015**, 23, 571-82	4.4	28
186	Genomes, diversity and resistance gene analogues in Musa species. *Cytogenetic and Genome Research*, **2008**, 121, 59-66	1.9	28
185	Repetitive DNA, molecular cytogenetics and genome organization in the King scallop (Pecten maximus). *Gene*, **2007**, 406, 91-8	3.8	28
184	Introgression of rye chromatin on chromosome 2D in the Portuguese wheat landrace 'Barbela'. *Genome*, **2001**, 44, 1122-1128	2.4	28
183	The Hybrid Origin of Two Cultivars of Crocus (Iridaceae) Analysed by Molecular Cytogenetics including Genomic Southern and in situ Hybridization. *Annals of Botany*, **1995**, 76, 253-262	4.1	28

182	Sequences and Phylogenies of Plant Pararetroviruses, Viruses, and Transposable Elements. *Advances in Botanical Research*, **2004**, 165-193	2.2	27
181	Chromosomal Variation in Crocus vernus Hill (Iridaceae) Investigated by in situ Hybridization of rDNA and a Tandemly Repeated Sequence. *Annals of Botany*, **2000**, 86, 317-322	4.1	27
180	S1 SINE retroposons are methylated at symmetrical and non-symmetrical positions in Brassica napus: identification of a preferred target site for asymmetrical methylation. *Plant Molecular Biology*, **1999**, 39, 243-55	4.6	27
179	Chromosome markers in the tetraploid wheat Aegilops ventricosa analysed by in situ hybridization. *Theoretical and Applied Genetics*, **1999**, 99, 300-304	6	27
178	Quantitative trait loci mapping for biomass yield traits in a Lolium inbred line derived F2 population. *Euphytica*, **2009**, 170, 99-107	2.1	26
177	Repetitive DNA, Genome and Species Relationships in Avena and Arrhenatherum(Poaceae). *Annals of Botany*, **2000**, 86, 1135-1142	4.1	26
176	Chromosome identification and nuclear architecture in triticale Tritordeum F1 hybrids. *Journal of Experimental Botany*, **1996**, 47, 583-588	7	26
175	Molecular cytogenetic analysis of repeated sequences in a long term wheat suspension culture. *Plant Cell, Tissue and Organ Culture*, **1993**, 33, 287-296	2.7	26
174	Different patterns of rDNA organization at interphase in nuclei of wheat and rye. *Journal of Cell Science*, **1992**, 101 (Pt 4), 751-7	5.3	26
173	The repetitive component of the A genome of peanut (Arachis hypogaea) and its role in remodelling intergenic sequence space since its evolutionary divergence from the B genome. *Annals of Botany*, **2013**, 112, 545-59	4.1	25
172	Biodiversity of Diploid D-Genome Aegilops Tauschii Coss. in Iran Measured Using Microsatellites. *Genetic Resources and Crop Evolution*, **2006**, 53, 1477-1484	2	25
171	The repetitive DNA landscape in Avena (Poaceae): chromosome and genome evolution defined by major repeat classes in whole-genome sequence reads. *BMC Plant Biology*, **2019**, 19, 226	5.3	24
170	WheatRye chromosome translocations involving small terminal and intercalary rye chromosome segments in the Portuguese wheat landrace Barbela. *Heredity*, **1997**, 78, 539-546	3.6	24
169	Physical mapping of translocation breakpoints in a set of wheat-Aegilops umbellulata recombinant lines using in situ hybridization. *Theoretical and Applied Genetics*, **1996**, 93, 816-25	6	24
168	Gene expression and parental dominance in hybrid plants **1990**, 21-8		24
167	Genomics of Banana and Plantain (Musa spp.), Major Staple Crops in the Tropics **2008**, 83-111		24
166	The localization of mitochondrial sequences to chromosomal DNA in orthopterans. *Genome*, **1999**, 42, 874-880	2.4	23
165	Anther-filament Extension in Lilium: Potassium Ion Movement and Some Anatomical Features. *Annals of Botany*, **1987**, 59, 505-515	4.1	23

164	The Ty1-copia group of retrotransposons in plants: genomic organisation, evolution, and use as molecular markers. *Genetica*, **1997**, 100, 205-17	1.5	23
163	Evolutionary dynamics and sites of illegitimate recombination revealed in the interspersion and sequence junctions of two nonhomologous satellite DNAs in cactophilic Drosophila species. *Heredity*, **2009**, 102, 453-64	3.6	22
162	Somatic hybrid plants of Nicotiana x sanderae (+) N. debneyi with fungal resistance to Peronospora tabacina. *Annals of Botany*, **2011**, 108, 809-19	4.1	22
161	Characterization and genomic organization of PERI, a repetitive DNA in the Drosophila buzzatii cluster related to DINE-1 transposable elements and highly abundant in the sex chromosomes. *Cytogenetic and Genome Research*, **2011**, 132, 79-88	1.9	22
160	The Distribution and Organization of Ty1-copia-like Retrotransposable Elements in the Genome ofVigna unguiculata(L.) Walp. (Cowpea) and its Relatives. *Annals of Botany*, **1997**, 80, 327-333	4.1	22
159	Gene expression and parental dominance in hybrid plants. *Development (Cambridge)*, **1990**, 108, 21-28	6.6	22
158	5-Methylcytosine distribution and genome organization in triticale before and after treatment with 5-azacytidine. *Journal of Cell Science*, **1999**, 112 (Pt 23), 4397-404	5.3	22
157	Nucleosomes and centromeric DNA packaging. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 19974-5	11.5	21
156	Complete chloroplast genomes from apomictic Taraxacum (Asteraceae): Identity and variation between three microspecies. *PLoS ONE*, **2017**, 12, e0168008	3.7	21
155	Repetitive DNA sequences in Crocus vernus Hill (Iridaceae): the genomic organization and distribution of dispersed elements in the genus Crocus and its allies. *Genome*, **2000**, 43, 902-9	2.4	20
154	Integration of genetic and physical maps of the Primula vulgaris S locus and localization by chromosome in situ hybridization. *New Phytologist*, **2015**, 208, 137-48	9.8	19
153	Motility in ungerminated grass pollen: association of myosin with polysaccharide-containing wall-precursor bodies (P-particles). *Sexual Plant Reproduction*, **1997**, 10, 65-66		19
152	Least-squares methods for identifying biochemical regulatory networks from noisy measurements. *BMC Bioinformatics*, **2007**, 8, 8	3.6	19
151	Phylogenetic relationships and the primitive X chromosome inferred from chromosomal and satellite DNA analysis in Bovidae. *Proceedings of the Royal Society B: Biological Sciences*, **2005**, 272, 2009-16	4.4	19
150	Repetitive DNA and the Chromosomes in the Genome of Oil Palm (Elaeis guineensis). *Annals of Botany*, **2000**, 85, 837-844	4.1	19
149	Molecular Cytogenetics of an Amphiploid Trigeneric Hybrid betweenTriticum durum,Thinopyrum distichumandLophopyrum elongatum. *Annals of Botany*, **1996**, 78, 583-589	4.1	19
148	The volumes and morphology of human chromosomes in mitotic reconstructions. *Human Genetics*, **1989**, 84, 27-34	6.3	19
147	Detection of multiple fluorescent labels using superconducting tunnel junction detectors. *Review of Scientific Instruments*, **2003**, 74, 4140-4144	1.7	18

146	Localization of tandemly repeated DNA sequences in Arabidopsis thaliana. *Plant Journal*, **1991**, 1, 159-166	6.9	18
145	Diversity in 198 Ethiopian linseed (Linum usitatissimum) accessions based on morphological characterization and seed oil characteristics. *Genetic Resources and Crop Evolution*, **2015**, 62, 1037-1053	2	17
144	Detection of alien chromatin conferring resistance to the beet cyst nematode (Heterodera schachtii Schm.) in cultivated beet (Beta vulgaris L.) using in situ hybridization. *Chromosome Research*, **1997**, 5, 186-93	4.4	17
143	The chromosomes of Citrus and Poncirus species and hybrids: identification of characteristic chromosomes and physical mapping of rDNA loci using in situ hybridization and fluorochrome banding. *Journal of Heredity*, **1998**, 89, 83-6	2.4	17
142	Evolutionary design principles and functional characteristics based on kingdom-specific network motifs. *Bioinformatics*, **2011**, 27, 245-51	7.2	16
141	Analysis of a set of homoeologous group 1 wheat-Aegilops umbellulata recombinant chromosome lines using genetic markers. *Theoretical and Applied Genetics*, **1997**, 94, 293-297	6	16
140	Planning for remodelling: nuclear architecture, chromatin and chromosomes. *Trends in Plant Science*, **2003**, 8, 195-7	13.1	16
139	Centromeric heterochromatin in the cattle rob(1;29) translocation: alpha-satellite I sequences, in-situ MspI digestion patterns, chromomycin staining and C-bands. *Chromosome Research*, **2000**, 8, 621-6	4.4	16
138	Physical mapping of the 5S rRNA multigene family in 6x triticale and rye: identification of a new rye locus. *Genome*, **1995**, 38, 623-6	2.4	16
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