Huntington F Willard

List of Publications by Year
in descending order

127 papers	18,017 citations	20759 60 h-index	18606 119 g-index
129 all docs	129 docs citations	129 times ranked	13338 citing authors

#	Article	IF	Citations
1	Linear assembly of a human centromere on the Y chromosome. Nature Biotechnology, 2018, 36, 321-323.	9.4	216
2	Genomic Characterization of Large Heterochromatic Gaps in the Human Genome Assembly. PLoS Computational Biology, 2014, 10, e1003628.	1.5	99
3	Centromere reference models for human chromosomes X and Y satellite arrays. Genome Research, 2014, 24, 697-707.	2.4	210
4	The Human Genome. , 2013, , 4-27.		1
5	Sequences Associated with Centromere Competency in the Human Genome. Molecular and Cellular Biology, 2013, 33, 763-772.	1.1	91
6	Nonrandom X Chromosome Inactivation Is Influenced by Multiple Regions on the Murine X Chromosome. Genetics, 2012, 192, 1095-1107.	1.2	21
7	Composition and organization of active centromere sequences in complex genomes. BMC Genomics, 2012, 13, 324.	1.2	20
8	Effects of sequence variation on differential allelic transcription factor occupancy and gene expression. Genome Research, 2012, 22, 860-869.	2.4	150
9	Allele-specific distribution of RNA polymerase II on female X chromosomes. Human Molecular Genetics, 2011, 20, 3964-3973.	1.4	34
10	Comparative analysis of the primate X-inactivation center region and reconstruction of the ancestral primate XIST locus. Genome Research, 2011, 21, 850-862.	2.4	16
11	Organization and Molecular Evolution of CENP-Aâ€“Associated Satellite DNA Families in a Basal Primate Genome. Genome Biology and Evolution, 2011, 3, 1136-1149.	1.1	15
12	Analysis of DNA Methylation in a Three-Generation Family Reveals Widespread Genetic Influence on Epigenetic Regulation. PLoS Genetics, 2011, 7, e1002228.	1.5	256
13	2009 William Allan Award Address: Life in The Sandbox: Unfinished Business. American Journal of Human Genetics, 2010, 86, 318-327.	2.6	2
14	Organization, Variation and Expression of the Human Genome. , 2010, , 13-26.		1
15	Organization, Variation and Expression of the Human Genome as a Foundation of Genomic and Personalized Medicine. , 2009, , 4-21.		9
16	The Impact of Local Genome Sequence on Defining Heterochromatin Domains. PLoS Genetics, 2009, 5, e1000453.	1.5	16
17	CitogenÃ©tica clÃnicaTrastornos de los autosomas y de los cromosomas sexuales. , 2008, , 89-113.		1
18	Human Artificial Chromosome Assembly by Transposonâ€Based Retrofitting of Genomic BACs with Synthetic Alphaâ€Satellite Arrays. Current Protocols in Human Genetics, 2007, 52, Unit 5.18.	3.5	1

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19	Primate comparative genomics: lemur biology and evolution. Trends in Genetics, 2007, 23, 173-182.	2.9	33
20	Clinical Cytogenetics: Disorders of the Autosomes and the Sex Chromosomes. , 2007, , 89-113.		3
21	X Chromosomeâ€"Inactivation Patterns of 1,005 Phenotypically Unaffected Females. American Journal of Human Genetics, 2006, 79, 493-499.	2.6	274
22	Human Artificial Chromosomes: Potential Applications and Clinical Considerations. Pediatric Clinics of North America, 2006, 53, 843-853.	0.9	29
23	Genomic and epigenomic approaches to the study of X chromosome inactivation. Current Opinion in Genetics and Development, 2006, 16, 240-245.	1.5	29
24	Evidence of Influence of Genomic DNA Sequence on Human X Chromosome Inactivation. PLoS Computational Biology, 2006, 2, e113.	1.5	84
25	Chromosome-wide, allele-specific analysis of the histone code on the human X chromosome. Human Molecular Genetics, 2006, 15, 2335-2347.	1.4	29
26	Genetic Control of X Chromosome Inactivation in Mice: Definition of the Xce Candidate Interval. Genetics, 2006, 173, 2103-2110.	1.2	52
27	The DNA sequence of the human X chromosome. Nature, 2005, 434, 325-337.	13.7	985
28	X-inactivation profile reveals extensive variability in X-linked gene expression in females. Nature, 2005, 434, 400-404.	13.7	1,835
29	Genetic and parent-of-origin influences on X chromosome choice in Xce heterozygous mice. Mammalian Genome, 2005, 16, 691-699.	1.0	32
30	Engineered human dicentric chromosomes show centromere plasticity. Chromosome Research, 2005, 13, 745-762.	1.0	42
31	Efficient assembly of de novo human artificial chromosomes from large genomic loci. BMC Biotechnology, 2005, 5, 21.	1.7	37
32	Progressive proximal expansion of the primate X chromosome centromere. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10563-10568.	3.3	79
33	Rapid creation of BAC-based human artificial chromosome vectors by transposition with synthetic alpha-satellite arrays. Nucleic Acids Research, 2005, 33, 587-596.	6.5	57
34	The evolutionary dynamics of Â-satellite. Genome Research, 2005, 16, 88-96.	2.4	114
35	Artificial and engineered chromosomes: non-integrating vectors for gene therapy. Trends in Molecular Medicine, 2005, 11, 251-258.	3.5	54
36	Multiple spatially distinct types of facultative heterochromatin on the human inactive X chromosome. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17450-17455.	3.3	218

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37	Analysis of the centromeric regions of the human genome assembly. Trends in Genetics, 2004, 20, 529-533.	2.9	151
38	Assembly and characterization of heterochromatin and euchromatin on human artificial chromosomes. Genome Biology, 2004, 5, R89.	13.9	28
39	Barring gene expression after XIST: maintaining facultative heterochromatin on the inactive X. Seminars in Cell and Developmental Biology, 2003, 14, 359-367.	2.3	43
40	Human Artificial Chromosomes with Alpha Satellite-Based De Novo Centromeres Show Increased Frequency of Nondisjunction and Anaphase Lag. Molecular and Cellular Biology, 2003, 23, 7689-7697.	1.1	50
41	Chromatin of the Barr body: histone and non-histone proteins associated with or excluded from the inactive X chromosome. Human Molecular Genetics, 2003, 12, 2167-2178.	1.4	114
42	An N-Ethyl-N-Nitrosourea Mutagenesis Screen for Epigenetic Mutations in the Mouse. Genetics, 2003, 164, 1481-1494.	1.2	25
43	Î±-Satellite DNA and Vector Composition Influence Rates of Human Artificial Chromosome Formation. Molecular Therapy, 2002, 5, 798-805.	3.7	93
44	Cell cycleâ€“dependent localization of macroH2A in chromatin of the inactive X chromosome. Journal of Cell Biology, 2002, 157, 1113-1123.	2.3	102
45	Autosomal Dominant Mutations Affecting X Inactivation Choice in the Mouse. Science, 2002, 296, 1136-1139.	6.0	58
46	On Black Boxes and Storytellers: Lessons Learned in Human Genetics**Previously presented at the annual meeting of The American Society of Human Genetics, in San Diego, on October 13, 2001.. American Journal of Human Genetics, 2002, 70, 285-296.	2.6	3
47	A Novel Chromatin Protein, Distantly Related to Histone H2a, Is Largely Excluded from the Inactive X Chromosome. Journal of Cell Biology, 2001, 152, 375-384.	2.3	192
48	Histone H2A variants and the inactive X chromosome: identification of a second macroH2A variant. Human Molecular Genetics, 2001, 10, 1101-1113.	1.4	150
49	Genomic and Genetic Definition of a Functional Human Centromere. Science, 2001, 294, 109-115.	6.0	447
50	Expression-based assay of an X-linked gene to examine effects of the X-controlling element (Xce) locus. Mammalian Genome, 2000, 11, 405-408.	1.0	28
51	Chromosomal domains and escape from X inactivation: comparative X inactivation analysis in mouse and human. Mammalian Genome, 2000, 11, 849-854.	1.0	47
52	Large-Insert Clone/STS Contigs in Xq11â€“q12, Spanning Deletions in Patients with Androgen Insensitivity and Mental Retardation. Genomics, 2000, 66, 104-109.	1.3	18
53	Breaking the silence in Rett syndrome. Nature Genetics, 1999, 23, 127-128.	9.4	32
54	Chromosome engineering: generation of mono- and dicentric isochromosomes in a somatic cell hybrid system. Chromosoma, 1999, 108, 256-265.	1.0	21

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55	samuel pruzansky memorial lecture. Genetics in Medicine, 1999, 1, 16-16.	1.1	0
56	Stable dicentric X chromosomes with two functional centromeres. Nature Genetics, 1998, 20, 227-228.	9.4	127
57	Human artificial chromosomes coming into focus. Nature Biotechnology, 1998, 16, 415-416.	9.4	11
58	Counting on Xist. Nature Genetics, 1998, 19, 211-212.	9.4	17
59	Orangutan Î±-satellite monomers are closely related to the human consensus sequence. Mammalian Genome, 1998, 9, 440-447.	1.0	28
60	Centromeres: the missing link in the development of human artificial chromosomes. Current Opinion in Genetics and Development, 1998, 8, 219-225.	1.5	87
61	The Spreading of X Inactivation into Autosomal Material of an X;autosome Translocation: Evidence for a Difference between Autosomal and X-Chromosomal DNA. American Journal of Human Genetics, 1998, 63, 20-28.	2.6	123
62	X Inactivation in Females with X-Linked Disease. New England Journal of Medicine, 1998, 338, 325-328.	13.9	172
63	Physical and Genetic Mapping of the Human X Chromosome Centromere: Repression ofâ€‰Recombination. Genome Research, 1998, 8, 100-110.	2.4	119
64	Expression of Genes from the Human Active and Inactive X Chromosomes. American Journal of Human Genetics, 1997, 60, 1333-1343.	2.6	158
65	Formation of de novo centromeres and construction of first-generation human artificial microchromosomes. Nature Genetics, 1997, 15, 345-355.	9.4	633
66	A promoter mutation in the XIST gene in two unrelated families with skewed X-chromosome inactivation. Nature Genetics, 1997, 17, 353-356.	9.4	279
67	Remodelling chromatin with RNA. Nature, 1997, 386, 228-229.	13.7	29
68	Chromosome-specific Î±-satellite DNA from the centromere of chimpanzee chromosome 4. Chromosoma, 1997, 106, 226-232.	1.0	46
69	X Chromosome Inactivation, XIST, and Pursuit of the X-Inactivation Center. Cell, 1996, 86, 5-7.	13.5	66
70	X chromosome inactivation and X-linked mental retardation. , 1996, 64, 21-26.		23
71	The DXS423E gene in Xp11.21 escapes X chromosome inactivation. Human Molecular Genetics, 1995, 4, 251-255.	1.4	44
72	The mouse Sb1.8 gene located at the distal end of the X chromosome is subject to X inactivation. Human Molecular Genetics, 1995, 4, 257-263.	1.4	14

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73	Three genes that escape X chromosome inactivation are clustered within a 6 Mb YAC contig and STS map in Xp11.21-p11.22. Human Molecular Genetics, 1995, 4, 731-739.	1.4	60
74	A 6-Mb YAC contig in Xp22.1â€“p22.2 spanning the DXS69E, XE59, GLRA2, PIGA, GRPR, CALB3, and PHKA2 genes. Genomics, 1995, 25, 691-700.	1.3	29
75	A novel transmembrane transporter encoded by the XPCT gene in Xq13.2. Human Molecular Genetics, 1994, 3, 1133-1139.	1.4	103
76	Partial X chromosome trisomy with functional disomy of Xp due to failure of X inactivation. American Journal of Medical Genetics Part A, 1994, 53, 39-45.	2.4	15
77	The human X-inactivation centre is not required for maintenance of X-chromosome inactivation. Nature, 1994, 368, 154-156.	13.7	270
78	Characterization of a small supernumerary ring X chromosome by fluorescence in situ hybridization. American Journal of Medical Genetics Part A, 1993, 47, 1153-1156.	2.4	28
79	Organization and evolution of an alpha satellite DNA subset shared by human chromosomes 13 and 21. Journal of Molecular Evolution, 1993, 37, 464-475.	0.8	38
80	Organization and molecular cytogenetics of a satellite DNA family fromHoplias malabaricus (Pisces,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	£.0	49
81	Molecular and Genetic Studies of Human X Chromosome Inactivation. Advances in Developmental Biology (1992), 1993, 2, 37-72.	1.1	18
82	Evolutionary conservation of possible functional domains of the human and murine XIST genes. Human Molecular Genetics, 1993, 2, 663-672.	1.4	104
83	Mammalian chromosome structure. Current Opinion in Genetics and Development, 1993, 3, 390-397.	1.5	127
84	2.6 Mb YAC contig of the human X inactivation center region in Xq13: physical linkage of the RPS4X, PHKA1, XIST and DXS128E genes. Human Molecular Genetics, 1993, 2, 1105-1115.	1.4	57
85	The interleukin-2 receptor Î³ chain maps to Xq13.1 and is mutated in X-linked severe combined immunodeficiency, SCIDX1. Human Molecular Genetics, 1993, 2, 1099-1104.	1.4	295
86	Mapping of the distal boundary of the X-inactivation center in a rearranged X chromosome from a female expressing XIST. Human Molecular Genetics, 1993, 2, 883-887.	1.4	48
87	Duplicated zinc finger protein genes on the proximal short arm of the human X chromosome: isolation, characterization and X-inactivation studies. Human Molecular Genetics, 1993, 2, 1611-1618.	1.4	25
88	Pulsed-Field and Two-Dimensional Gel Electrophoresis of Long Arrays of Tandemly Repeated DNA: Analysis of Human Centromeric Alpha Satellite. , 1992, 12, 299-318.		10
89	PCR amplification of tandemly repeated DNA: analysis of intra- and interchromosomal sequence variation and homologous unequal crossing-over in human alpha satellite DNA. Nucleic Acids Research, 1992, 20, 6033-6042.	6.5	29
90	Î² satellite DNA: Characterization and localization of two subfamilies from the distal and proximal short arms of the human acrocentric chromosomes. Genomics, 1992, 12, 573-580.	1.3	88

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91	Mammalian X-chromosome inactivation and the XIST gene. Current Opinion in Genetics and Development, 1992, 2, 439-447.	1.5	77
92	Structure of DNA near long tandem arrays of alpha satellite DNA at the centromere of human chromosome 7. Genomics, 1992, 14, 912-923.	1.3	74
93	Organization, polymorphism, and molecular cytogenetics of chromosome-specific Î±-satellite DNA from the centromere of chromosome 2. Genomics, 1992, 13, 122-128.	1.3	43
94	The human XIST gene: Analysis of a 17 kb inactive X-specific RNA that contains conserved repeats and is highly localized within the nucleus. Cell, 1992, 71, 527-542.	13.5	1,211
95	Physical mapping of 60 DNA markers in the p21.1 â†' q21.3 region of the human X chromosome. Genomics, 1991, 11, 352-363.	1.3	76
96	Evolution of alpha satellite. Current Opinion in Genetics and Development, 1991, 1, 509-514.	1.5	123
97	PCR amplification of chromosome-specific alpha satellite DNA: Definition of centromeric STS markers and polymorphic analysis. Genomics, 1991, 11, 324-333.	1.3	112
98	A gene from the region of the human X inactivation centre is expressed exclusively from the inactive X chromosome. Nature, 1991, 349, 38-44.	13.7	1,357
99	Localization of the X inactivation centre on the human X chromosome in Xq13. Nature, 1991, 349, 82-84.	13.7	369
100	Characterization of a murine gene expressed from the inactive X chromosome. Nature, 1991, 351, 325-329.	13.7	527
101	A gene deleted in Kallmann's syndrome shares homology with neural cell adhesion and axonal path-finding molecules. Nature, 1991, 353, 529-536.	13.7	852
102	Physical map of the centromeric region of human chromosome 7: relationship between two distinct alpha satellite arrays. Nucleic Acids Research, 1991, 19, 2295-2301.	6.5	82
103	Isolation, characterization and chromosomal localization of cDNA clones for the E1beta subunit of the pyruvate dehydrogenase complex. FEBS Journal, 1990, 194, 587-592.	0.2	7
104	Centromeres of mammalian chromosomes. Trends in Genetics, 1990, 6, 410-416.	2.9	276
105	X chromosome inactivation of the human TIMP gene. Nucleic Acids Research, 1990, 18, 4191-4195.	6.5	56
106	Pulsed-field gel analysis of Î±-satellite DNA at the human X chromosome centromere: High-frequency polymorphisms and array size estimate. Genomics, 1990, 7, 607-613.	1.3	112
107	Genomic analysis of sequence variation in tandemly repeated DNA. Journal of Molecular Biology, 1990, 216, 3-16.	2.0	92
108	Concerted evolution of primate alpha satellite DNA. Journal of Molecular Biology, 1990, 216, 555-566.	2.0	51

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109	Homologous ribosomal protein genes on the human X and Y chromosomes: Escape from X inactivation and possible implications for turner syndrome. Cell, 1990, 63, 1205-1218.	13.5	414
110	Regional localization ofCCG1 gene which complements hamster cell cycle mutation BN462 to Xq11?Xq13. Somatic Cell and Molecular Genetics, 1989, 15, 93-96.	0.7	16
111	Concerted evolution of alpha satellite DNA: Evidence for species specificity and a general lack of sequence conservation among alphoid sequences of higher primates. Chromosoma, 1989, 98, 273-279.	1.0	64
112	Linkage studies of the Wiskott-Aldrich syndrome: polymorphisms at TIMP and the X chromosome centromere are informative markers for genetic prediction. Human Genetics, 1989, 83, 227-230.	1.8	24
113	Chromosome specificity of satellite DNAs: short- and long-range organization of a diverged dimeric subset of human alpha satellite from chromosome 3. Chromosoma, 1989, 97, 475-480.	1.0	62
114	Patterns of intra- and interarray sequence variation in alpha satellite from the human X chromosome: Evidence for short-range homogenization of tandemly repeated DNA sequences. Genomics, 1989, 5, 810-821.	1.3	79
115	Genetic mapping of four DNA markers (DXS16, DXS43, DXS85, and DXS143) from the p22 region of the human X chromosome. Human Genetics, 1988, 80, 296-298.	1.8	8
116	Organization and genomic distribution of ?82H? alpha satellite DNA. Human Genetics, 1988, 78, 27-32.	1.8	40
117	Gene for lipoamide dehydrogenase maps to human chromosome 7. Somatic Cell and Molecular Genetics, 1988, 14, 411-414.	0.7	18
118	A primary genetic map of the pericentromeric region of the human X chromosome. Genomics, 1988, 2, 294-301.	1.3	58
119	Chromosome-specific alpha satellite DNA: Isolation and mapping of a polymorphic alphoid repeat from human chromosome 10. Genomics, 1988, 3, 1-7.	1.3	94
120	Nucleotide sequence heterogeneity of alpha satellite repetitive DNA: a survey of alphoid sequences from different human chromosomes. Nucleic Acids Research, 1987, 15, 7549-7569.	6.5	197
121	Molecular organization and haplotype analysis of centromeric DNA from human chromosome 17: Implications for linkage in neurofibromatosis. Genomics, 1987, 1, 368-373.	1.3	30
122	Chromosome-specific alpha satellite DNA from human chromosome 1: Hierarchical structure and genomic organization of a polymorphic domain spanning several hundred kilobase pairs of centromeric DNA. Genomics, 1987, 1, 43-51.	1.3	113
123	Hierarchical order in chromosome-specific human alpha satellite DNA. Trends in Genetics, 1987, 3, 192-198.	2.9	558
124	Molecular analysis of a deletion polymorphism in alpha satellite of human chromosome 17: evidence for homologous unequal crossing-over and subsequent fixation. Nucleic Acids Research, 1986, 14, 6915-6927.	6.5	112
125	Chromosome-specific alpha satellite DNA: nucleotide sequence analysis of the 2.0 kilobasepair repeat from the human X chromosome. Nucleic Acids Research, 1985, 13, 2731-2743.	6.5	204
126	Isolation and characterization of a major tandem repeat family from the human X chromosome. Nucleic Acids Research, 1983, 11, 2017-2034.	6.5	265

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127	Human X chromosomes: Synchrony of DNA replication in diploid and triploid fibroblasts with multiple active or inactive X chromosomes. Somatic Cell Genetics, 1980, 6, 187-198.	2.7	19