Richard M Durbin

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

249 papers 167,841 citations

108 h-index 280 g-index

280 ext. papers

214,227 ext. citations

avg, IF

8.73 L-index

#	Paper	IF	Citations
249	Ethical, legal, and social issues in the Earth BioGenome Project <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	3
248	The Earth BioGenome Project 2020: Starting the clock <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	15
247	Placing ancient DNA sequences into reference phylogenies <i>Molecular Biology and Evolution</i> , 2022 ,	8.3	3
246	Standards recommendations for the Earth BioGenome Project <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	4
245	Why sequence all eukaryotes?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	6
244	Sequence locally, think globally: The Darwin Tree of Life Project <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	9
243	Genomic consequences of domestication of the Siamese fighting fish Science Advances, 2022, 8, eabm	4 9 50	3
242	The complete sequence of a human genome <i>Science</i> , 2022 , 376, 44-53	33.3	107
241	Efficient iterative Hi-C scaffolder based on N-best neighbors. <i>BMC Bioinformatics</i> , 2021 , 22, 569	3.6	O
240	Late Quaternary dynamics of Arctic biota from ancient environmental genomics. <i>Nature</i> , 2021 , 600, 86-	93 0.4	12
239	Mapping epigenetic divergence in the massive radiation of Lake Malawi cichlid fishes. <i>Nature Communications</i> , 2021 , 12, 5870	17.4	2
238	A high-quality, chromosome-level genome assembly of the Black Soldier Fly (Hermetia illucens L.). <i>G3: Genes, Genomes, Genetics</i> , 2021 , 11,	3.2	9
237	Complete vertebrate mitogenomes reveal widespread repeats and gene duplications. <i>Genome Biology</i> , 2021 , 22, 120	18.3	19
236	Towards complete and error-free genome assemblies of all vertebrate species. <i>Nature</i> , 2021 , 592, 737-	7 46 .4	161
235	The genome sequence of the brown trout, Linnaeus 1758. Wellcome Open Research, 2021 , 6, 108	4.8	5
234	The genome sequence of the European golden eagle, Linnaeus 1758. <i>Wellcome Open Research</i> , 2021 , 6, 112	4.8	О
233	Environmental genomics of Late Pleistocene black bears and giant short-faced bears. <i>Current Biology</i> , 2021 , 31, 2728-2736.e8	6.3	6

232	Haplotype-aware graph indexes. Bioinformatics, 2020, 36, 400-407	7.2	23
231	Souporcell: robust clustering of single-cell RNA-seq data by genotype without reference genotypes. <i>Nature Methods</i> , 2020 , 17, 615-620	21.6	69
230	Insights into human genetic variation and population history from 929 diverse genomes. <i>Science</i> , 2020 , 367,	33.3	196
229	Identifying and removing haplotypic duplication in primary genome assemblies. <i>Bioinformatics</i> , 2020 , 36, 2896-2898	7.2	222
228	The genome sequence of the Eurasian red squirrel, Linnaeus 1758. <i>Wellcome Open Research</i> , 2020 , 5, 18	4.8	2
227	The genome sequence of the eastern grey squirrel, Gmelin, 1788. Wellcome Open Research, 2020 , 5, 27	4.8	1
226	Population-scale proteome variation in human induced pluripotent stem cells. <i>ELife</i> , 2020 , 9,	8.9	16
225	The genome sequence of the Eurasian river otter, Lutra lutra Linnaeus 1758. <i>Wellcome Open Research</i> , 2020 , 5, 33	4.8	1
224	A haplotype-aware de novo assembly of related individuals using pedigree sequence graph. <i>Bioinformatics</i> , 2020 , 36, 2385-2392	7.2	9
223	Ancestral Hybridization Facilitated Species Diversification in the Lake Malawi Cichlid Fish Adaptive Radiation. <i>Molecular Biology and Evolution</i> , 2020 , 37, 1100-1113	8.3	41
222	Removing reference bias and improving indel calling in ancient DNA data analysis by mapping to a sequence variation graph. <i>Genome Biology</i> , 2020 , 21, 250	18.3	9
221	A haplotype-resolved, de novo genome assembly for the wood tiger moth (Arctia plantaginis) through trio binning. <i>GigaScience</i> , 2020 , 9,	7.6	6
220	Efficiently inferring the demographic history of many populations with allele count data. <i>Journal of the American Statistical Association</i> , 2020 , 115, 1472-1487	2.8	33
219	A High-Quality Genome Assembly from a Single Mosquito Using PacBio Sequencing. <i>Genes</i> , 2019 , 10,	4.2	72
218	The population history of northeastern Siberia since the Pleistocene. <i>Nature</i> , 2019 , 570, 182-188	50.4	137
217	htsget: a protocol for securely streaming genomic data. <i>Bioinformatics</i> , 2019 , 35, 119-121	7.2	13
216	Crumble: reference free lossy compression of sequence quality values. <i>Bioinformatics</i> , 2019 , 35, 337-33	97.2	11
215	Viral coinfection analysis using a MinHash toolkit. <i>BMC Bioinformatics</i> , 2019 , 20, 389	3.6	2

214	GFAKluge: A C++ library and command line utilities for the Graphical Fragment Assembly formats. Journal of Open Source Software, 2019 , 4,	5.2	2
213	Identifying Extrinsic versus Intrinsic Drivers of Variation in Cell Behavior in Human iPSC Lines from Healthy Donors. <i>Cell Reports</i> , 2019 , 26, 2078-2087.e3	10.6	16
212	Earth BioGenome Project: Sequencing life for the future of life. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4325-4333	11.5	334
211	Did Our Species Evolve in Subdivided Populations across Africa, and Why Does It Matter?. <i>Trends in Ecology and Evolution</i> , 2018 , 33, 582-594	10.9	200
210	The first horse herders and the impact of early Bronze Age steppe expansions into Asia. <i>Science</i> , 2018 , 360,	33.3	162
209	Variation graph toolkit improves read mapping by representing genetic variation in the reference. <i>Nature Biotechnology</i> , 2018 , 36, 875-879	44.5	223
208	Whole-genome sequences of Malawi cichlids reveal multiple radiations interconnected by gene flow. <i>Nature Ecology and Evolution</i> , 2018 , 2, 1940-1955	12.3	160
207	Sixteen diverse laboratory mouse reference genomes define strain-specific haplotypes and novel functional loci. <i>Nature Genetics</i> , 2018 , 50, 1574-1583	36.3	91
206	Detecting archaic introgression using an unadmixed outgroup. <i>PLoS Genetics</i> , 2018 , 14, e1007641	6	42
205	A graph-based approach to diploid genome assembly. <i>Bioinformatics</i> , 2018 , 34, i105-i114	7.2	36
204	Whole-genome view of the consequences of a population bottleneck using 2926 genome sequences from Finland and United Kingdom. <i>European Journal of Human Genetics</i> , 2017 , 25, 477-484	5.3	41
203	Whole-exome sequencing of 228 patients with sporadic Parkinson@ disease. <i>Scientific Reports</i> , 2017 , 7, 41188	4.9	21
202	Evaluation of GRCh38 and de novo haploid genome assemblies demonstrates the enduring quality of the reference assembly. <i>Genome Research</i> , 2017 , 27, 849-864	9.7	365
201	Contrasting evolutionary genome dynamics between domesticated and wild yeasts. <i>Nature Genetics</i> , 2017 , 49, 913-924	36.3	178
200	Common genetic variation drives molecular heterogeneity in human iPSCs. <i>Nature</i> , 2017 , 546, 370-375	50.4	294
199	De novo yeast genome assemblies from MinION, PacBio and MiSeq platforms. <i>Scientific Reports</i> , 2017 , 7, 3935	4.9	101
198	Whole-Genome Sequencing Coupled to Imputation Discovers Genetic Signals for Anthropometric Traits. <i>American Journal of Human Genetics</i> , 2017 , 100, 865-884	11	74
197	Using reference-free compressed data structures to analyze sequencing reads from thousands of human genomes. <i>Genome Research</i> , 2017 , 27, 300-309	9.7	15

(2015-2017)

196	Estimating the human mutation rate from autozygous segments reveals population differences in human mutational processes. <i>Nature Communications</i> , 2017 , 8, 303	17.4	52
195	No evidence for maintenance of a sympatric species barrier by chromosomal inversions. <i>Evolution Letters</i> , 2017 , 1, 138-154	5.3	49
194	Enrichment of low-frequency functional variants revealed by whole-genome sequencing of multiple isolated European populations. <i>Nature Communications</i> , 2017 , 8, 15927	17.4	37
193	A reference panel of 64,976 haplotypes for genotype imputation. <i>Nature Genetics</i> , 2016 , 48, 1279-83	36.3	1447
192	A genomic history of Aboriginal Australia. <i>Nature</i> , 2016 , 538, 207-214	50.4	268
191	Deficient methylation and formylation of mt-tRNA(Met) wobble cytosine in a patient carrying mutations in NSUN3. <i>Nature Communications</i> , 2016 , 7, 12039	17.4	124
190	Whole-exome sequencing in an isolated population from the Dalmatian island of Vis. <i>European Journal of Human Genetics</i> , 2016 , 24, 1479-87	5.3	5
189	Iron Age and Anglo-Saxon genomes from East England reveal British migration history. <i>Nature Communications</i> , 2016 , 7, 10408	17.4	100
188	Bi-allelic Truncating Mutations in TANGO2 Cause Infancy-Onset Recurrent Metabolic Crises with Encephalocardiomyopathy. <i>American Journal of Human Genetics</i> , 2016 , 98, 358-62	11	49
187	Health and population effects of rare gene knockouts in adult humans with related parents. <i>Science</i> , 2016 , 352, 474-7	33.3	185
186	DNAH11 Localization in the Proximal Region of Respiratory Cilia Defines Distinct Outer Dynein Arm Complexes. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2016 , 55, 213-24	5.7	79
185	A high-content platform to characterise human induced pluripotent stem cell lines. <i>Methods</i> , 2016 , 96, 85-96	4.6	28
184	A Method for Checking Genomic Integrity in Cultured Cell Lines from SNP Genotyping Data. <i>PLoS ONE</i> , 2016 , 11, e0155014	3.7	16
183	BCFtools/RoH: a hidden Markov model approach for detecting autozygosity from next-generation sequencing data. <i>Bioinformatics</i> , 2016 , 32, 1749-51	7.2	256
182	Reference-based phasing using the Haplotype Reference Consortium panel. <i>Nature Genetics</i> , 2016 , 48, 1443-1448	36.3	699
181	TTC25 Deficiency Results in Defects of the Outer Dynein Arm Docking Machinery and Primary Ciliary Dyskinesia with Left-Right Body Asymmetry Randomization. <i>American Journal of Human Genetics</i> , 2016 , 99, 460-9	11	58
180	POPULATION GENETICS. Genomic evidence for the Pleistocene and recent population history of Native Americans. <i>Science</i> , 2015 , 349, aab3884	33.3	317
179	Extending reference assembly models. <i>Genome Biology</i> , 2015 , 16, 13	18.3	107

178	Pathway-based factor analysis of gene expression data produces highly heritable phenotypes that associate with age. <i>G3: Genes, Genomes, Genetics</i> , 2015 , 5, 839-47	3.2	5
177	A global reference for human genetic variation. <i>Nature</i> , 2015 , 526, 68-74	50.4	8599
176	Whole-genome sequencing identifies EN1 as a determinant of bone density and fracture. <i>Nature</i> , 2015 , 526, 112-7	50.4	308
175	The UK10K project identifies rare variants in health and disease. <i>Nature</i> , 2015 , 526, 82-90	50.4	776
174	Improved imputation of low-frequency and rare variants using the UK10K haplotype reference panel. <i>Nature Communications</i> , 2015 , 6, 8111	17.4	186
173	Gene-gene and gene-environment interactions detected by transcriptome sequence analysis in twins. <i>Nature Genetics</i> , 2015 , 47, 88-91	36.3	140
172	Deficiency of ECHS1 causes mitochondrial encephalopathy with cardiac involvement. <i>Annals of Clinical and Translational Neurology</i> , 2015 , 2, 492-509	5.3	69
171	Whole-genome sequence-based analysis of thyroid function. <i>Nature Communications</i> , 2015 , 6, 5681	17.4	56
170	Immunofluorescence Analysis and Diagnosis of Primary Ciliary Dyskinesia with Radial Spoke Defects. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2015 , 53, 563-73	5.7	90
169	Tracing the route of modern humans out of Africa by using 225 human genome sequences from Ethiopians and Egyptians. <i>American Journal of Human Genetics</i> , 2015 , 96, 986-91	11	107
168	Homozygous loss-of-function variants in European cosmopolitan and isolate populations. <i>Human Molecular Genetics</i> , 2015 , 24, 5464-74	5.6	18
167	Genomic islands of speciation separate cichlid ecomorphs in an East African crater lake. <i>Science</i> , 2015 , 350, 1493-1498	33.3	204
166	The genomic and phenotypic diversity of Schizosaccharomyces pombe. <i>Nature Genetics</i> , 2015 , 47, 235-4	136.3	111
165	A rare variant in APOC3 is associated with plasma triglyceride and VLDL levels in Europeans. <i>Nature Communications</i> , 2014 , 5, 4871	17.4	46
164	Managing clinically significant findings in research: the UK10K example. <i>European Journal of Human Genetics</i> , 2014 , 22, 1100-4	5.3	33
163	Inferring human population size and separation history from multiple genome sequences. <i>Nature Genetics</i> , 2014 , 46, 919-25	36.3	569
162	Human genomic regions with exceptionally high levels of population differentiation identified from 911 whole-genome sequences. <i>Genome Biology</i> , 2014 , 15, R88	18.3	51
161	Quantitative genetics of CTCF binding reveal local sequence effects and different modes of X-chromosome association. <i>PLoS Genetics</i> , 2014 , 10, e1004798	6	38

160	Distribution and medical impact of loss-of-function variants in the Finnish founder population. <i>PLoS Genetics</i> , 2014 , 10, e1004494	6	243
159	Estimation of epistatic variance components and heritability in founder populations and crosses. <i>Genetics</i> , 2014 , 198, 1405-16	4	19
158	Estimating telomere length from whole genome sequence data. <i>Nucleic Acids Research</i> , 2014 , 42, e75	20.1	85
157	Efficient haplotype matching and storage using the positional Burrows-Wheeler transform (PBWT). <i>Bioinformatics</i> , 2014 , 30, 1266-72	7.2	241
156	A high-definition view of functional genetic variation from natural yeast genomes. <i>Molecular Biology and Evolution</i> , 2014 , 31, 872-88	8.3	206
155	Genetic interactions affecting human gene expression identified by variance association mapping. <i>ELife</i> , 2014 , 3, e01381	8.9	86
154	The anatomy of successful computational biology software. <i>Nature Biotechnology</i> , 2013 , 31, 894-7	44.5	18
153	Assemblathon 2: evaluating de novo methods of genome assembly in three vertebrate species. <i>GigaScience</i> , 2013 , 2, 10	7.6	461
152	Global analysis of DNA methylation variation in adipose tissue from twins reveals links to disease-associated variants in distal regulatory elements. <i>American Journal of Human Genetics</i> , 2013 , 93, 876-90	11	269
151	High-resolution mapping of complex traits with a four-parent advanced intercross yeast population. <i>Genetics</i> , 2013 , 195, 1141-55	4	91
151 150		18.3	91
	population. <i>Genetics</i> , 2013 , 195, 1141-55 Gene expression changes with age in skin, adipose tissue, blood and brain. <i>Genome Biology</i> , 2013 ,		
150	population. <i>Genetics</i> , 2013 , 195, 1141-55 Gene expression changes with age in skin, adipose tissue, blood and brain. <i>Genome Biology</i> , 2013 , 14, R75 A genome-wide survey of genetic variation in gorillas using reduced representation sequencing.	18.3	185
150 149	population. <i>Genetics</i> , 2013 , 195, 1141-55 Gene expression changes with age in skin, adipose tissue, blood and brain. <i>Genome Biology</i> , 2013 , 14, R75 A genome-wide survey of genetic variation in gorillas using reduced representation sequencing. <i>PLoS ONE</i> , 2013 , 8, e65066 High levels of RNA-editing site conservation amongst 15 laboratory mouse strains. <i>Genome Biology</i> ,	18. ₃	185 16 122
150 149 148	Gene expression changes with age in skin, adipose tissue, blood and brain. <i>Genome Biology</i> , 2013 , 14, R75 A genome-wide survey of genetic variation in gorillas using reduced representation sequencing. <i>PLoS ONE</i> , 2013 , 8, e65066 High levels of RNA-editing site conservation amongst 15 laboratory mouse strains. <i>Genome Biology</i> , 2012 , 13, 26 Using probabilistic estimation of expression residuals (PEER) to obtain increased power and	18.3 3·7 18.3	185 16 122 460
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150 149 148 147 146	Gene expression changes with age in skin, adipose tissue, blood and brain. <i>Genome Biology</i> , 2013 , 14, R75 A genome-wide survey of genetic variation in gorillas using reduced representation sequencing. <i>PLoS ONE</i> , 2013 , 8, e65066 High levels of RNA-editing site conservation amongst 15 laboratory mouse strains. <i>Genome Biology</i> , 2012 , 13, 26 Using probabilistic estimation of expression residuals (PEER) to obtain increased power and interpretability of gene expression analyses. <i>Nature Protocols</i> , 2012 , 7, 500-7 Ensembl 2012. <i>Nucleic Acids Research</i> , 2012 , 40, D84-90	18.3 3.7 18.3 18.8	185 16 122 460 798

142	Insights into hominid evolution from the gorilla genome sequence. <i>Nature</i> , 2012 , 483, 169-75	50.4	517
141	WormBase: Annotating many nematode genomes. Worm, 2012 , 1, 15-21		11
140	Extent, causes, and consequences of small RNA expression variation in human adipose tissue. <i>PLoS Genetics</i> , 2012 , 8, e1002704	6	43
139	Patterns of cis regulatory variation in diverse human populations. <i>PLoS Genetics</i> , 2012 , 8, e1002639	6	361
138	Efficient de novo assembly of large genomes using compressed data structures. <i>Genome Research</i> , 2012 , 22, 549-56	9.7	501
137	WormBase 2012: more genomes, more data, new website. <i>Nucleic Acids Research</i> , 2012 , 40, D735-41	20.1	159
136	Inference of human population history from individual whole-genome sequences. <i>Nature</i> , 2011 , 475, 493-6	50.4	1299
135	Mouse genomic variation and its effect on phenotypes and gene regulation. <i>Nature</i> , 2011 , 477, 289-94	50.4	1087
134	Identity-by-descent-based phasing and imputation in founder populations using graphical models. <i>Genetic Epidemiology</i> , 2011 , 35, 853-60	2.6	26
133	Dindel: accurate indel calls from short-read data. <i>Genome Research</i> , 2011 , 21, 961-73	9.7	341
132	The variant call format and VCFtools. <i>Bioinformatics</i> , 2011 , 27, 2156-8	7.2	6200
131	Revealing the genetic structure of a trait by sequencing a population under selection. <i>Genome Research</i> , 2011 , 21, 1131-8	9.7	185
130	Assemblathon 1: a competitive assessment of de novo short read assembly methods. <i>Genome Research</i> , 2011 , 21, 2224-41	9.7	364
129	Ensembl 2011. Nucleic Acids Research, 2011 , 39, D800-6	20.1	590
128	SNP detection and genotyping from low-coverage sequencing data on multiple diploid samples. <i>Genome Research</i> , 2011 , 21, 952-60	9.7	117
127	Joint genetic analysis of gene expression data with inferred cellular phenotypes. <i>PLoS Genetics</i> , 2011 , 7, e1001276	6	57
126	The architecture of gene regulatory variation across multiple human tissues: the MuTHER study. <i>PLoS Genetics</i> , 2011 , 7, e1002003	6	336
125	Trait variation in yeast is defined by population history. <i>PLoS Genetics</i> , 2011 , 7, e1002111	6	230

(2008-2010)

124	Phenotypic profiling of the human genome by time-lapse microscopy reveals cell division genes. <i>Nature</i> , 2010 , 464, 721-7	50.4	668
123	A map of human genome variation from population-scale sequencing. <i>Nature</i> , 2010 , 467, 1061-73	50.4	6142
122	Efficient construction of an assembly string graph using the FM-index. <i>Bioinformatics</i> , 2010 , 26, i367-73	7.2	164
121	WormBase: a comprehensive resource for nematode research. <i>Nucleic Acids Research</i> , 2010 , 38, D463-7	20.1	289
120	Ensembl@ 10th year. Nucleic Acids Research, 2010, 38, D557-62	20.1	240
119	Copy number variant detection in inbred strains from short read sequence data. <i>Bioinformatics</i> , 2010 , 26, 565-7	7.2	40
118	A Bayesian framework to account for complex non-genetic factors in gene expression levels greatly increases power in eQTL studies. <i>PLoS Computational Biology</i> , 2010 , 6, e1000770	5	295
117	Systematic analysis of human protein complexes identifies chromosome segregation proteins. <i>Science</i> , 2010 , 328, 593-9	33.3	419
116	Fast and accurate long-read alignment with Burrows-Wheeler transform. <i>Bioinformatics</i> , 2010 , 26, 589-9	9 5 .2	6791
115	The consensus coding sequence (CCDS) project: Identifying a common protein-coding gene set for the human and mouse genomes. <i>Genome Research</i> , 2009 , 19, 1316-23	9.7	415
114	Population genomics of domestic and wild yeasts. <i>Nature</i> , 2009 , 458, 337-41	50.4	1073
113	Prepublication data sharing. <i>Nature</i> , 2009 , 461, 168-70	50.4	197
112	The Sequence Alignment/Map format and SAMtools. <i>Bioinformatics</i> , 2009 , 25, 2078-9	7.2	30805
111	Fast and accurate short read alignment with Burrows-Wheeler transform. <i>Bioinformatics</i> , 2009 , 25, 1754	4 - 6 <u>0</u>	26095
110	Deep short-read sequencing of chromosome 17 from the mouse strains A/J and CAST/Ei identifies significant germline variation and candidate genes that regulate liver triglyceride levels. <i>Genome Biology</i> , 2009 , 10, R112	18.3	32
109	EnsemblCompara GeneTrees: Complete, duplication-aware phylogenetic trees in vertebrates. <i>Genome Research</i> , 2009 , 19, 327-35	9.7	836
108	Inferring selection on amino acid preference in protein domains. <i>Molecular Biology and Evolution</i> , 2009 , 26, 527-36	8.3	7
107	The diploid genome sequence of an Asian individual. <i>Nature</i> , 2008 , 456, 60-5	50.4	744

106	Accurate whole human genome sequencing using reversible terminator chemistry. <i>Nature</i> , 2008 , 456, 53-9	50.4	2615
105	A Bayesian deconvolution strategy for immunoprecipitation-based DNA methylome analysis. <i>Nature Biotechnology</i> , 2008 , 26, 779-85	44.5	533
104	Identification of somatically acquired rearrangements in cancer using genome-wide massively parallel paired-end sequencing. <i>Nature Genetics</i> , 2008 , 40, 722-9	36.3	666
103	BAC TransgeneOmics: a high-throughput method for exploration of protein function in mammals. <i>Nature Methods</i> , 2008 , 5, 409-15	21.6	484
102	A large genome center@improvements to the Illumina sequencing system. <i>Nature Methods</i> , 2008 , 5, 1005-10	21.6	575
101	Mapping short DNA sequencing reads and calling variants using mapping quality scores. <i>Genome Research</i> , 2008 , 18, 1851-8	9.7	2002
100	Accounting for Non-genetic Factors Improves the Power of eQTL Studies 2008, 411-422		13
99	WormBase 2007. Nucleic Acids Research, 2008, 36, D612-7	20.1	91
98	TreeFam: 2008 Update. Nucleic Acids Research, 2008, 36, D735-40	20.1	234
97	Regulatory evolution in proteins by turnover and lineage-specific changes of cyclin-dependent kinase consensus sites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 17713-8	11.5	56
96	Genomix: a method for combining gene-finders Quredictions, which uses evolutionary conservation of sequence and intron-exon structure. <i>Bioinformatics</i> , 2007 , 23, 1468-75	7.2	10
95	WormBase: new content and better access. <i>Nucleic Acids Research</i> , 2007 , 35, D506-10	20.1	76
94	A systematic comparative and structural analysis of protein phosphorylation sites based on the mtcPTM database. <i>Genome Biology</i> , 2007 , 8, R90	18.3	53
93	Clustering of phosphorylation site recognition motifs can be exploited to predict the targets of cyclin-dependent kinase. <i>Genome Biology</i> , 2007 , 8, R23	18.3	60
92	[X]uniqMAP: unique gene sequence regions in the human and mouse genomes. <i>BMC Genomics</i> , 2006 , 7, 249	4.5	0
91	WormBase: better software, richer content. <i>Nucleic Acids Research</i> , 2006 , 34, D475-8	20.1	68
90	A conserved sequence motif in 3Quntranslated regions of ribosomal protein mRNAs in nematodes. <i>Rna</i> , 2006 , 12, 1786-9	5.8	7
89	TreeFam: a curated database of phylogenetic trees of animal gene families. <i>Nucleic Acids Research</i> , 2006 , 34, D572-80	20.1	383

88	Pfam: clans, web tools and services. <i>Nucleic Acids Research</i> , 2006 , 34, D247-51	20.1	1784
87	Vertebrate gene finding from multiple-species alignments using a two-level strategy. <i>Genome Biology</i> , 2006 , 7 Suppl 1, S6.1-12	18.3	11
86	Mapping trait loci by use of inferred ancestral recombination graphs. <i>American Journal of Human Genetics</i> , 2006 , 79, 910-22	11	87
85	The Sequence Ontology: a tool for the unification of genome annotations. <i>Genome Biology</i> , 2005 , 6, R44	418.3	492
84	WormBase: a comprehensive data resource for Caenorhabditis biology and genomics. <i>Nucleic Acids Research</i> , 2005 , 33, D383-9	20.1	140
83	InterPro, progress and status in 2005. <i>Nucleic Acids Research</i> , 2005 , 33, D201-5	20.1	426
82	The DNA sequence of the human X chromosome. <i>Nature</i> , 2005 , 434, 325-37	50.4	822
81	A probabilistic model of 3@end formation in Caenorhabditis elegans. <i>Nucleic Acids Research</i> , 2004 , 32, 3392-9	20.1	40
80	Gene structure conservation aids similarity based gene prediction. <i>Nucleic Acids Research</i> , 2004 , 32, 776	5-83.1	62
79	An overview of Ensembl. <i>Genome Research</i> , 2004 , 14, 925-8	9.7	316
79 78	An overview of Ensembl. <i>Genome Research</i> , 2004 , 14, 925-8 GeneWise and Genomewise. <i>Genome Research</i> , 2004 , 14, 988-95	9.7 9.7	316 1467
		· ·	1467
78	GeneWise and Genomewise. <i>Genome Research</i> , 2004 , 14, 988-95 WormBase: a multi-species resource for nematode biology and genomics. <i>Nucleic Acids Research</i> ,	9.7	1467
78 77	GeneWise and Genomewise. <i>Genome Research</i> , 2004 , 14, 988-95 WormBase: a multi-species resource for nematode biology and genomics. <i>Nucleic Acids Research</i> , 2004 , 32, D411-7 Genome sequence of the Brown Norway rat yields insights into mammalian evolution. <i>Nature</i> , 2004	9.7	1467 543
78 77 76	GeneWise and Genomewise. <i>Genome Research</i> , 2004 , 14, 988-95 WormBase: a multi-species resource for nematode biology and genomics. <i>Nucleic Acids Research</i> , 2004 , 32, D411-7 Genome sequence of the Brown Norway rat yields insights into mammalian evolution. <i>Nature</i> , 2004 , 428, 493-521	9.7 20.1 50.4	1467 543 1689
78 77 76 75	GeneWise and Genomewise. <i>Genome Research</i> , 2004 , 14, 988-95 WormBase: a multi-species resource for nematode biology and genomics. <i>Nucleic Acids Research</i> , 2004 , 32, D411-7 Genome sequence of the Brown Norway rat yields insights into mammalian evolution. <i>Nature</i> , 2004 , 428, 493-521 Enhanced protein domain discovery using taxonomy. <i>BMC Bioinformatics</i> , 2004 , 5, 56	9.7 20.1 50.4 3.6 20.1	1467 543 1689 14
78 77 76 75 74	GeneWise and Genomewise. <i>Genome Research</i> , 2004 , 14, 988-95 WormBase: a multi-species resource for nematode biology and genomics. <i>Nucleic Acids Research</i> , 2004 , 32, D411-7 Genome sequence of the Brown Norway rat yields insights into mammalian evolution. <i>Nature</i> , 2004 , 428, 493-521 Enhanced protein domain discovery using taxonomy. <i>BMC Bioinformatics</i> , 2004 , 5, 56 The Pfam protein families database. <i>Nucleic Acids Research</i> , 2004 , 32, D138-41	9.7 20.1 50.4 3.6 20.1	1467 543 1689 14

70	Systematic functional analysis of the Caenorhabditis elegans genome using RNAi. <i>Nature</i> , 2003 , 421, 231-7	50.4	2758
69	A table-driven, full-sensitivity similarity search algorithm. <i>Journal of Computational Biology</i> , 2003 , 10, 103-17	1.7	9
68	The InterPro Database, 2003 brings increased coverage and new features. <i>Nucleic Acids Research</i> , 2003 , 31, 315-8	20.1	556
67	InterPro: an integrated documentation resource for protein families, domains and functional sites. <i>Briefings in Bioinformatics</i> , 2002 , 3, 225-35	13.4	137
66	QuickTree: building huge Neighbour-Joining trees of protein sequences. <i>Bioinformatics</i> , 2002 , 18, 1546-	-7 7.2	214
65	Comparative ab initio prediction of gene structures using pair HMMs. <i>Bioinformatics</i> , 2002 , 18, 1309-18	7.2	93
64	GAZE: a generic framework for the integration of gene-prediction data by dynamic programming. <i>Genome Research</i> , 2002 , 12, 1418-27	9.7	65
63	The Pfam protein families database. <i>Nucleic Acids Research</i> , 2002 , 30, 276-80	20.1	1839
62	Initial sequencing and analysis of the human genome. <i>Nature</i> , 2001 , 409, 860-921	50.4	17366
61	A computational scan for U12-dependent introns in the human genome sequence. <i>Nucleic Acids Research</i> , 2001 , 29, 4006-13	20.1	110
60	Alfrescoa workbench for comparative genomic sequence analysis. <i>Genome Research</i> , 2000 , 10, 1148-5	7 9.7	27
59	Using GeneWise in the Drosophila annotation experiment. <i>Genome Research</i> , 2000 , 10, 547-8	9.7	263
58	The Pfam protein families database. <i>Nucleic Acids Research</i> , 2000 , 28, 263-6	20.1	1074
57	Comparative analysis of noncoding regions of 77 orthologous mouse and human gene pairs. <i>Genome Research</i> , 1999 , 9, 815-24	9.7	141
56	Dynamic programming alignment accuracy. <i>Journal of Computational Biology</i> , 1998 , 5, 493-504	1.7	84
55	Sequence assembly with CAFTOOLS. <i>Genome Research</i> , 1998 , 8, 260-7	9.7	12
54	Base qualities help sequencing software. <i>Genome Research</i> , 1998 , 8, 161-2	9.7	6
53	Biological Sequence Analysis: Probabilistic Models of Proteins and Nucleic Acids 1998,		2271

52	Analysis of protein domain families in Caenorhabditis elegans. <i>Genomics</i> , 1997 , 46, 200-16	4.3	106
51	Gene expression and development databases for C. elegans. <i>Seminars in Cell and Developmental Biology</i> , 1997 , 8, 459-67	7.5	17
50	Pfam: a comprehensive database of protein domain families based on seed alignments. <i>Proteins: Structure, Function and Bioinformatics</i> , 1997 , 28, 405-20	4.2	841
49	The C. elegans expression pattern database: a beginning. <i>Trends in Genetics</i> , 1996 , 12, 370-371	8.5	14
48	The C. elegans expression pattern database: a beginning 1996 , 12, 370-370		3
47	Comparative sequence analysis of the human and pufferfish Huntington@ disease genes. <i>Nature Genetics</i> , 1995 , 10, 67-76	36.3	135
46	Method for calculation of probability of matching a bounded regular expression in a random data string. <i>Journal of Computational Biology</i> , 1995 , 2, 25-31	1.7	12
45	Maximum discrimination hidden Markov models of sequence consensus. <i>Journal of Computational Biology</i> , 1995 , 2, 9-23	1.7	167
44	A dot-matrix program with dynamic threshold control suited for genomic DNA and protein sequence analysis. <i>Gene</i> , 1995 , 167, GC1-10	3.8	563
43	A workbench for large-scale sequence homology analysis. <i>Bioinformatics</i> , 1994 , 10, 301-7	7.2	44
42	Structure and expression of the Huntington @disease gene: evidence against simple inactivation due to an expanded CAG repeat. <i>Somatic Cell and Molecular Genetics</i> , 1994 , 20, 27-38		210
41	RNA sequence analysis using covariance models. <i>Nucleic Acids Research</i> , 1994 , 22, 2079-88	20.1	586
40	The ACEDB Genome Database 1994 , 45-55		19
39	A dimension reduction framework for understanding cortical maps. <i>Nature</i> , 1990 , 343, 644-7	50.4	346
38	An Analysis of the Elastic Net Approach to the Traveling Salesman Problem. <i>Neural Computation</i> , 1989 , 1, 348-358	2.9	137
37	Product Units: A Computationally Powerful and Biologically Plausible Extension to Backpropagation Networks. <i>Neural Computation</i> , 1989 , 1, 133-142	2.9	305
36	Image analysis of restriction enzyme fingerprint autoradiograms. <i>Bioinformatics</i> , 1989 , 5, 101-6	7.2	45
35	Software for genome mapping by fingerprinting techniques. <i>Bioinformatics</i> , 1988 , 4, 125-32	7.2	61

34	An analogue approach to the travelling salesman problem using an elastic net method. <i>Nature</i> , 1987 , 326, 689-91	50.4	602
33	Optimal Numberings of an \$N times N\$ Array. <i>SIAM Journal on Algebraic and Discrete Methods</i> , 1986 , 7, 571-582		84
32	Diffraction methods for biological macromolecules. Oscillation method with large unit cells. <i>Methods in Enzymology</i> , 1985 , 114, 211-37	1.7	14
31	A haplotype-aware de novo assembly of related individuals using pedigree graph		2
30	Inferring human population size and separation history from multiple genome sequences		4
29	Health and population effects of rare gene knockouts in adult humans with related parents		4
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5	The complete sequence of a human genome	58
4	The genome sequence of the ringlet, Aphantopus hyperantus Linnaeus 1758. <i>Wellcome Open Research</i> , 6, 165	2
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2	Substantial somatic genomic variation and selection for BCOR mutations in human induced pluripotent stem cells	1
1	Differential use of multiple genetic sex determination systems in divergent ecomorphs of an African crater lake cichlid	1