

# Richard M Durbin

## List of Publications by Year in descending order

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Version: 2024-02-01

221  
papers

244,327  
citations

1094

112  
h-index

1341

223  
g-index

280  
all docs

280  
docs citations

280  
times ranked

204813  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Ethical, legal, and social issues in the Earth BioGenome Project. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2115859119. | 3.3  | 8         |
| 2  | The Earth BioGenome Project 2020: Starting the clock. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .                        | 3.3  | 124       |
| 3  | Placing Ancient DNA Sequences into Reference Phylogenies. Molecular Biology and Evolution, 2022, 39, .   | 3.5  | 23        |
| 4  | Standards recommendations for the Earth BioGenome Project. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .                   | 3.3  | 33        |
| 5  | Why sequence all eukaryotes?. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .  | 3.3  | 51        |
| 6  | Sequence locally, think globally: The Darwin Tree of Life Project. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .           | 3.3  | 120       |
| 7  | Genomic consequences of domestication of the Siamese fighting fish. Science Advances, 2022, 8, eabm4950.   | 4.7  | 20        |
| 8  | A Theoretical Analysis of Taxonomic Binning Accuracy. Molecular Ecology Resources, 2022, , .   | 2.2  | 0         |
| 9  | The complete sequence of a human genome. Science, 2022, 376, 44-53.  | 6.0  | 1,222     |
| 10 | A high-quality, chromosome-level genome assembly of the Black Soldier Fly (<i>Hermetia illucens</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf                                     | 0.8  | 37        |
| 11 | Complete vertebrate mitogenomes reveal widespread repeats and gene duplications. Genome Biology, 2021, 22, 120.  | 3.8  | 69        |
| 12 | Towards complete and error-free genome assemblies of all vertebrate species. Nature, 2021, 592, 737-746.   | 13.7 | 1,139     |
| 13 | The genome sequence of the brown trout, <i>Salmo trutta</i> Linnaeus 1758. Wellcome Open Research, 2021, 6, 108.   | 0.9  | 15        |
| 14 | The genome sequence of the European golden eagle, <i>Aquila chrysaetos chrysaetos</i> Linnaeus 1758. Wellcome Open Research, 2021, 6, 112.                                 | 0.9  | 3         |
| 15 | Environmental genomics of Late Pleistocene black bears and giant short-faced bears. Current Biology, 2021, 31, 2728-2736.e8.   | 1.8  | 42        |
| 16 | Late Quaternary dynamics of Arctic biota from ancient environmental genomics. Nature, 2021, 600, 86-92.  | 13.7 | 81        |
| 17 | Mapping epigenetic divergence in the massive radiation of Lake Malawi cichlid fishes. Nature Communications, 2021, 12, 5870.   | 5.8  | 17        |
| 18 | Efficient iterative Hi-C scaffolder based on N-best neighbors. BMC Bioinformatics, 2021, 22, 569.  | 1.2  | 12        |

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|----|---|------|-----------|
| 19 | Haplotype-aware graph indexes. <i>Bioinformatics</i> , 2020, 36, 400-407.   | 1.8  | 59        |
| 20 | Efficiently Inferring the Demographic History of Many Populations With Allele Count Data. <i>Journal of the American Statistical Association</i> , 2020, 115, 1472-1487.      | 1.8  | 90        |
| 21 | A haplotype-aware <i>de novo</i> assembly of related individuals using pedigree sequence graph. <i>Bioinformatics</i> , 2020, 36, 2385-2392.                                  | 1.8  | 22        |
| 22 | Ancestral Hybridization Facilitated Species Diversification in the Lake Malawi Cichlid Fish Adaptive Radiation. <i>Molecular Biology and Evolution</i> , 2020, 37, 1100-1113. | 3.5  | 98        |
| 23 | 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.             | 3.8  | 44        |
| 24 | A haplotype-resolved, <i>de novo</i> genome assembly for the wood tiger moth ( <i>Arctia</i> ) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf, 50 542 Td</i>                            | 3.3  | 20        |
| 25 | Souporcell: robust clustering of single-cell RNA-seq data by genotype without reference genotypes. <i>Nature Methods</i> , 2020, 17, 615-620.                                 | 9.0  | 232       |
| 26 | Insights into human genetic variation and population history from 929 diverse genomes. <i>Science</i> , 2020, 367, .  | 6.0  | 534       |
| 27 | Identifying and removing haplotypic duplication in primary genome assemblies. <i>Bioinformatics</i> , 2020, 36, 2896-2898.  | 1.8  | 1,221     |
| 28 | The genome sequence of the Eurasian red squirrel, <i>Sciurus vulgaris</i> Linnaeus 1758. <i>Wellcome Open Research</i> , 2020, 5, 18.   | 0.9  | 3         |
| 29 | The genome sequence of the eastern grey squirrel, <i>Sciurus carolinensis</i> Gmelin, 1788. <i>Wellcome Open Research</i> , 2020, 5, 27.                                      | 0.9  | 4         |
| 30 | Population-scale proteome variation in human induced pluripotent stem cells. <i>ELife</i> , 2020, 9, .  | 2.8  | 40        |
| 31 | The genome sequence of the Eurasian river otter, <i>Lutra lutra</i> Linnaeus 1758. <i>Wellcome Open Research</i> , 2020, 5, 33.   | 0.9  | 6         |
| 32 | htsget: a protocol for securely streaming genomic data. <i>Bioinformatics</i> , 2019, 35, 119-121.  | 1.8  | 23        |
| 33 | Crumble: reference free lossy compression of sequence quality values. <i>Bioinformatics</i> , 2019, 35, 337-339.  | 1.8  | 21        |
| 34 | Viral coinfection analysis using a MinHash toolkit. <i>BMC Bioinformatics</i> , 2019, 20, 389.  | 1.2  | 3         |
| 35 | A High-Quality De novo Genome Assembly from a Single Mosquito Using PacBio Sequencing. <i>Genes</i> , 2019, 10, 62.   | 1.0  | 121       |
| 36 | The population history of northeastern Siberia since the Pleistocene. <i>Nature</i> , 2019, 570, 182-188.   | 13.7 | 259       |

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|----|--|------|-----------|
| 37 | 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.                          | 2.9  | 36        |
| 38 | GFAKluge: A C++ library and command line utilities for the Graphical Fragment Assembly formats. <i>Journal of Open Source Software</i> , 2019, 4, 1083.                                      | 2.0  | 4         |
| 39 | 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.              | 3.3  | 652       |
| 40 | Whole-genome sequences of Malawi cichlids reveal multiple radiations interconnected by gene flow. <i>Nature Ecology and Evolution</i> , 2018, 2, 1940-1955.                                  | 3.4  | 358       |
| 41 | Sixteen diverse laboratory mouse reference genomes define strain-specific haplotypes and novel functional loci. <i>Nature Genetics</i> , 2018, 50, 1574-1583.                                | 9.4  | 169       |
| 42 | Detecting archaic introgression using an unadmixed outgroup. <i>PLoS Genetics</i> , 2018, 14, e1007641.  | 1.5  | 78        |
| 43 | A graph-based approach to diploid genome assembly. <i>Bioinformatics</i> , 2018, 34, i105-i114.  | 1.8  | 59        |
| 44 | 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.   | 4.2  | 315       |
| 45 | The first horse herders and the impact of early Bronze Age steppe expansions into Asia. <i>Science</i> , 2018, 360, .  | 6.0  | 262       |
| 46 | Variation graph toolkit improves read mapping by representing genetic variation in the reference. <i>Nature Biotechnology</i> , 2018, 36, 875-879.   | 9.4  | 435       |
| 47 | Abstract 3273: rkmh: A MinHash toolbox for analyzing HPV coinfections. , 2018, , .   |      | 0         |
| 48 | 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. | 1.4  | 60        |
| 49 | Whole-exome sequencing of 228 patients with sporadic Parkinson's disease. <i>Scientific Reports</i> , 2017, 7, 41188.  | 1.6  | 27        |
| 50 | 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.                          | 2.4  | 728       |
| 51 | Contrasting evolutionary genome dynamics between domesticated and wild yeasts. <i>Nature Genetics</i> , 2017, 49, 913-924.   | 9.4  | 340       |
| 52 | Common genetic variation drives molecular heterogeneity in human iPSCs. <i>Nature</i> , 2017, 546, 370-375.  | 13.7 | 491       |
| 53 | De novo yeast genome assemblies from MinION, PacBio and MiSeq platforms. <i>Scientific Reports</i> , 2017, 7, 3935.  | 1.6  | 146       |
| 54 | Whole-Genome Sequencing Coupled to Imputation Discovers Genetic Signals for Anthropometric Traits. <i>American Journal of Human Genetics</i> , 2017, 100, 865-884.                           | 2.6  | 131       |

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|----|---|------|-----------|
| 55 | Using reference-free compressed data structures to analyze sequencing reads from thousands of human genomes. <i>Genome Research</i> , 2017, 27, 300-309.  | 2.4  | 19        |
| 56 | Estimating the human mutation rate from autozygous segments reveals population differences in human mutational processes. <i>Nature Communications</i> , 2017, 8, 303.  | 5.8  | 81        |
| 57 | No evidence for maintenance of a sympatric <i>Heliconius</i> species barrier by chromosomal inversions. <i>Evolution Letters</i> , 2017, 1, 138-154.  | 1.6  | 90        |
| 58 | Enrichment of low-frequency functional variants revealed by whole-genome sequencing of multiple isolated European populations. <i>Nature Communications</i> , 2017, 8, 15927.   | 5.8  | 64        |
| 59 | BCFtools/RoH: a hidden Markov model approach for detecting autozygosity from next-generation sequencing data. <i>Bioinformatics</i> , 2016, 32, 1749-1751.  | 1.8  | 506       |
| 60 | Reference-based phasing using the Haplotype Reference Consortium panel. <i>Nature Genetics</i> , 2016, 48, 1443-1448.   | 9.4  | 1,357     |
| 61 | 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, 460-469. | 2.6  | 88        |
| 62 | A reference panel of 64,976 haplotypes for genotype imputation. <i>Nature Genetics</i> , 2016, 48, 1279-1283.   | 9.4  | 2,421     |
| 63 | A genomic history of Aboriginal Australia. <i>Nature</i> , 2016, 538, 207-214.  | 13.7 | 439       |
| 64 | Deficient methylation and formylation of mt-tRNAMet wobble cytosine in a patient carrying mutations in NSUN3. <i>Nature Communications</i> , 2016, 7, 12039.  | 5.8  | 178       |
| 65 | Whole-exome sequencing in an isolated population from the Dalmatian island of Vis. <i>European Journal of Human Genetics</i> , 2016, 24, 1479-1487.   | 1.4  | 11        |
| 66 | Iron Age and Anglo-Saxon genomes from East England reveal British migration history. <i>Nature Communications</i> , 2016, 7, 10408.   | 5.8  | 144       |
| 67 | Bi-allelic Truncating Mutations in TANGO2 Cause Infancy-Onset Recurrent Metabolic Crises with Encephalocardiomyopathy. <i>American Journal of Human Genetics</i> , 2016, 98, 358-362.                                     | 2.6  | 77        |
| 68 | Health and population effects of rare gene knockouts in adult humans with related parents. <i>Science</i> , 2016, 352, 474-477.   | 6.0  | 272       |
| 69 | 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, 213-224.                       | 1.4  | 107       |
| 70 | A high-content platform to characterise human induced pluripotent stem cell lines. <i>Methods</i> , 2016, 96, 85-96.  | 1.9  | 41        |
| 71 | A Method for Checking Genomic Integrity in Cultured Cell Lines from SNP Genotyping Data. <i>PLoS ONE</i> , 2016, 11, e0155014.  | 1.1  | 26        |
| 72 | Deficiency of <i>ECHS1</i> causes mitochondrial encephalopathy with cardiac involvement. <i>Annals of Clinical and Translational Neurology</i> , 2015, 2, 492-509.  | 1.7  | 90        |

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|----|---|------|-----------|
| 73 | Whole-genome sequence-based analysis of thyroid function. <i>Nature Communications</i> , 2015, 6, 5681.   | 5.8  | 75        |
| 74 | Immunofluorescence Analysis and Diagnosis of Primary Ciliary Dyskinesia with Radial Spoke Defects. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2015, 53, 563-573. | 1.4  | 120       |
| 75 | 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, 986-991.        | 2.6  | 152       |
| 76 | Homozygous loss-of-function variants in European cosmopolitan and isolate populations. <i>Human Molecular Genetics</i> , 2015, 24, 5464-5474.   | 1.4  | 27        |
| 77 | Genomic islands of speciation separate cichlid ecomorphs in an East African crater lake. <i>Science</i> , 2015, 350, 1493-1498.   | 6.0  | 330       |
| 78 | The genomic and phenotypic diversity of <i>Schizosaccharomyces pombe</i> . <i>Nature Genetics</i> , 2015, 47, 235-241.  | 9.4  | 174       |
| 79 | Genomic evidence for the Pleistocene and recent population history of Native Americans. <i>Science</i> , 2015, 349, aab3884.  | 6.0  | 449       |
| 80 | Extending reference assembly models. <i>Genome Biology</i> , 2015, 16, 13.  | 3.8  | 139       |
| 81 | Pathway-Based Factor Analysis of Gene Expression Data Produces Highly Heritable Phenotypes That Associate with Age. <i>G3: Genes, Genomes, Genetics</i> , 2015, 5, 839-847.               | 0.8  | 7         |
| 82 | A global reference for human genetic variation. <i>Nature</i> , 2015, 526, 68-74.   | 13.7 | 13,998    |
| 83 | Whole-genome sequencing identifies EN1 as a determinant of bone density and fracture. <i>Nature</i> , 2015, 526, 112-117.   | 13.7 | 483       |
| 84 | The UK10K project identifies rare variants in health and disease. <i>Nature</i> , 2015, 526, 82-90.   | 13.7 | 1,014     |
| 85 | Improved imputation of low-frequency and rare variants using the UK10K haplotype reference panel. <i>Nature Communications</i> , 2015, 6, 8111.   | 5.8  | 300       |
| 86 | Gene-gene and gene-environment interactions detected by transcriptome sequence analysis in twins. <i>Nature Genetics</i> , 2015, 47, 88-91.   | 9.4  | 215       |
| 87 | Quantitative Genetics of CTCF Binding Reveal Local Sequence Effects and Different Modes of X-Chromosome Association. <i>PLoS Genetics</i> , 2014, 10, e1004798.                           | 1.5  | 55        |
| 88 | Distribution and Medical Impact of Loss-of-Function Variants in the Finnish Founder Population. <i>PLoS Genetics</i> , 2014, 10, e1004494.  | 1.5  | 351       |
| 89 | Estimation of Epistatic Variance Components and Heritability in Founder Populations and Crosses. <i>Genetics</i> , 2014, 198, 1405-1416.  | 1.2  | 27        |
| 90 | Estimating telomere length from whole genome sequence data. <i>Nucleic Acids Research</i> , 2014, 42, e75-e75.  | 6.5  | 151       |

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|-----|--|------|-----------|
| 91  | Efficient haplotype matching and storage using the positional Burrows-Wheeler transform (PBWT). <i>Bioinformatics</i> , 2014, 30, 1266-1272.   | 1.8  | 387       |
| 92  | A High-Definition View of Functional Genetic Variation from Natural Yeast Genomes. <i>Molecular Biology and Evolution</i> , 2014, 31, 872-888.   | 3.5  | 328       |
| 93  | A rare variant in APOC3 is associated with plasma triglyceride and VLDL levels in Europeans. <i>Nature Communications</i> , 2014, 5, 4871.   | 5.8  | 62        |
| 94  | Managing clinically significant findings in research: the UK10K example. <i>European Journal of Human Genetics</i> , 2014, 22, 1100-1104.  | 1.4  | 38        |
| 95  | Inferring human population size and separation history from multiple genome sequences. <i>Nature Genetics</i> , 2014, 46, 919-925.   | 9.4  | 870       |
| 96  | Human genomic regions with exceptionally high levels of population differentiation identified from 911 whole-genome sequences. <i>Genome Biology</i> , 2014, 15, R88.  | 13.9 | 72        |
| 97  | Genetic interactions affecting human gene expression identified by variance association mapping. <i>ELife</i> , 2014, 3, e01381.   | 2.8  | 137       |
| 98  | The anatomy of successful computational biology software. <i>Nature Biotechnology</i> , 2013, 31, 894-897.   | 9.4  | 25        |
| 99  | Assemblathon 2: evaluating de novo methods of genome assembly in three vertebrate species. <i>GigaScience</i> , 2013, 2, 10.   | 3.3  | 582       |
| 100 | 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, 876-890. | 2.6  | 330       |
| 101 | High-Resolution Mapping of Complex Traits with a Four-Parent Advanced Intercross Yeast Population. <i>Genetics</i> , 2013, 195, 1141-1155.   | 1.2  | 164       |
| 102 | Gene expression changes with age in skin, adipose tissue, blood and brain. <i>Genome Biology</i> , 2013, 14, R75.  | 13.9 | 263       |
| 103 | A Genome-Wide Survey of Genetic Variation in Gorillas Using Reduced Representation Sequencing. <i>PLoS ONE</i> , 2013, 8, e65066.  | 1.1  | 23        |
| 104 | WormBase. <i>Worm</i> , 2012, 1, 15-21.  | 1.0  | 14        |
| 105 | Extent, Causes, and Consequences of Small RNA Expression Variation in Human Adipose Tissue. <i>PLoS Genetics</i> , 2012, 8, e1002704.  | 1.5  | 48        |
| 106 | Patterns of Cis Regulatory Variation in Diverse Human Populations. <i>PLoS Genetics</i> , 2012, 8, e1002639.   | 1.5  | 439       |
| 107 | Efficient de novo assembly of large genomes using compressed data structures. <i>Genome Research</i> , 2012, 22, 549-556.  | 2.4  | 649       |
| 108 | WormBase 2012: more genomes, more data, new website. <i>Nucleic Acids Research</i> , 2012, 40, D735-D741.  | 6.5  | 175       |

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|-----|---|------|-----------|
| 109 | High levels of RNA-editing site conservation amongst 15 laboratory mouse strains. <i>Genome Biology</i> , 2012, 13, R26.  | 13.9 | 149       |
| 110 | Using probabilistic estimation of expression residuals (PEER) to obtain increased power and interpretability of gene expression analyses. <i>Nature Protocols</i> , 2012, 7, 500-507. | 5.5  | 799       |
| 111 | Ensembl 2012. <i>Nucleic Acids Research</i> , 2012, 40, D84-D90.  | 6.5  | 840       |
| 112 | An integrated map of genetic variation from 1,092 human genomes. <i>Nature</i> , 2012, 491, 56-65.  | 13.7 | 7,199     |
| 113 | Revising the human mutation rate: implications for understanding human evolution. <i>Nature Reviews Genetics</i> , 2012, 13, 745-753.   | 7.7  | 483       |
| 114 | Mapping cis- and trans-regulatory effects across multiple tissues in twins. <i>Nature Genetics</i> , 2012, 44, 1084-1089.   | 9.4  | 701       |
| 115 | Insights into hominid evolution from the gorilla genome sequence. <i>Nature</i> , 2012, 483, 169-175.   | 13.7 | 663       |
| 116 | Dindel: Accurate indel calls from short-read data. <i>Genome Research</i> , 2011, 21, 961-973.  | 2.4  | 383       |
| 117 | The variant call format and VCFtools. <i>Bioinformatics</i> , 2011, 27, 2156-2158.  | 1.8  | 11,326    |
| 118 | Inference of human population history from individual whole-genome sequences. <i>Nature</i> , 2011, 475, 493-496.   | 13.7 | 2,053     |
| 119 | Mouse genomic variation and its effect on phenotypes and gene regulation. <i>Nature</i> , 2011, 477, 289-294.   | 13.7 | 1,461     |
| 120 | Identity-by-descent-based phasing and imputation in founder populations using graphical models. <i>Genetic Epidemiology</i> , 2011, 35, 853-860.                                      | 0.6  | 31        |
| 121 | Revealing the genetic structure of a trait by sequencing a population under selection. <i>Genome Research</i> , 2011, 21, 1131-1138.  | 2.4  | 263       |
| 122 | Assemblathon 1: A competitive assessment of de novo short read assembly methods. <i>Genome Research</i> , 2011, 21, 2224-2241.  | 2.4  | 443       |
| 123 | Ensembl 2011. <i>Nucleic Acids Research</i> , 2011, 39, D800-D806.  | 6.5  | 630       |
| 124 | SNP detection and genotyping from low-coverage sequencing data on multiple diploid samples. <i>Genome Research</i> , 2011, 21, 952-960.   | 2.4  | 142       |
| 125 | Joint Genetic Analysis of Gene Expression Data with Inferred Cellular Phenotypes. <i>PLoS Genetics</i> , 2011, 7, e1001276.   | 1.5  | 76        |
| 126 | The Architecture of Gene Regulatory Variation across Multiple Human Tissues: The MuTHER Study. <i>PLoS Genetics</i> , 2011, 7, e1002003.  | 1.5  | 392       |



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|-----|---|------|-----------|
| 127 | Trait Variation in Yeast Is Defined by Population History. PLoS Genetics, 2011, 7, e1002111.  | 1.5  | 311       |
| 128 | Phenotypic profiling of the human genome by time-lapse microscopy reveals cell division genes. Nature, 2010, 464, 721-727.  | 13.7 | 768       |
| 129 | A map of human genome variation from population-scale sequencing. Nature, 2010, 467, 1061-1073.   | 13.7 | 7,209     |
| 130 | Efficient construction of an assembly string graph using the FM-index. Bioinformatics, 2010, 26, i367-i373.   | 1.8  | 198       |
| 131 | WormBase: a comprehensive resource for nematode research. Nucleic Acids Research, 2010, 38, D463-D467.  | 6.5  | 325       |
| 132 | Ensembl's 10th year. Nucleic Acids Research, 2010, 38, D557-D562.   | 6.5  | 251       |
| 133 | Copy number variant detection in inbred strains from short read sequence data. Bioinformatics, 2010, 26, 565-567.   | 1.8  | 47        |
| 134 | A Bayesian Framework to Account for Complex Non-Genetic Factors in Gene Expression Levels Greatly Increases Power in eQTL Studies. PLoS Computational Biology, 2010, 6, e1000770.   | 1.5  | 408       |
| 135 | Systematic Analysis of Human Protein Complexes Identifies Chromosome Segregation Proteins. Science, 2010, 328, 593-599.   | 6.0  | 465       |
| 136 | Fast and accurate long-read alignment with Burrows-Wheeler transform. Bioinformatics, 2010, 26, 589-595.  | 1.8  | 10,002    |
| 137 | EnsemblCompara GeneTrees: Complete, duplication-aware phylogenetic trees in vertebrates. Genome Research, 2009, 19, 327-335.  | 2.4  | 1,058     |
| 138 | The consensus coding sequence (CCDS) project: Identifying a common protein-coding gene set for the human and mouse genomes. Genome Research, 2009, 19, 1316-1323.   | 2.4  | 476       |
| 139 | Population genomics of domestic and wild yeasts. Nature, 2009, 458, 337-341.  | 13.7 | 1,391     |
| 140 | Prepublication data sharing. Nature, 2009, 461, 168-170.  | 13.7 | 243       |
| 141 | The Sequence Alignment/Map format and SAMtools. Bioinformatics, 2009, 25, 2078-2079.  | 1.8  | 49,124    |
| 142 | Fast and accurate short read alignment with Burrows-Wheeler transform. Bioinformatics, 2009, 25, 1754-1760.   | 1.8  | 43,062    |
| 143 | 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. Genome Biology, 2009, 10, R112. | 13.9 | 36        |
| 144 | The diploid genome sequence of an Asian individual. Nature, 2008, 456, 60-65.   | 13.7 | 834       |

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|-----|--|------|-----------|
| 145 | Accurate whole human genome sequencing using reversible terminator chemistry. <i>Nature</i> , 2008, 456, 53-59.  | 13.7 | 3,118     |
| 146 | A Bayesian deconvolution strategy for immunoprecipitation-based DNA methylome analysis. <i>Nature Biotechnology</i> , 2008, 26, 779-785.   | 9.4  | 619       |
| 147 | Identification of somatically acquired rearrangements in cancer using genome-wide massively parallel paired-end sequencing. <i>Nature Genetics</i> , 2008, 40, 722-729.  | 9.4  | 736       |
| 148 | BAC TransgeneOmics: a high-throughput method for exploration of protein function in mammals. <i>Nature Methods</i> , 2008, 5, 409-415.   | 9.0  | 568       |
| 149 | A large genome center's improvements to the Illumina sequencing system. <i>Nature Methods</i> , 2008, 5, 1005-1010.  | 9.0  | 656       |
| 150 | Mapping short DNA sequencing reads and calling variants using mapping quality scores. <i>Genome Research</i> , 2008, 18, 1851-1858.  | 2.4  | 2,275     |
| 151 | Accounting for Non-genetic Factors Improves the Power of eQTL Studies. <i>Lecture Notes in Computer Science</i> , 2008, , 411-422.   | 1.0  | 16        |
| 152 | Inferring Selection on Amino Acid Preference in Protein Domains. <i>Molecular Biology and Evolution</i> , 2008, 26, 527-536.   | 3.5  | 9         |
| 153 | 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, 17713-17718. | 3.3  | 62        |
| 154 | Genomix: a method for combining gene-finders' predictions, which uses evolutionary conservation of sequence and intron/exon structure. <i>Bioinformatics</i> , 2007, 23, 1468-1475.  | 1.8  | 12        |
| 155 | WormBase: new content and better access. <i>Nucleic Acids Research</i> , 2007, 35, D506-D510.  | 6.5  | 80        |
| 156 | WormBase 2007. <i>Nucleic Acids Research</i> , 2007, 36, D612-D617.  | 6.5  | 95        |
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