

Manolis Kellis

List of Publications by Citations

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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.

284
papers

93,859
citations

107
h-index

306
g-index

334
ext. papers

118,058
ext. citations

21.3
avg, IF

8.81
L-index

#	Paper	IF	Citations
284	An integrated encyclopedia of DNA elements in the human genome. <i>Nature</i> , 2012 , 489, 57-74	50.4	11449
283	The Genotype-Tissue Expression (GTEx) project. <i>Nature Genetics</i> , 2013 , 45, 580-5	36.3	4179
282	Integrative analysis of 111 reference human epigenomes. <i>Nature</i> , 2015 , 518, 317-30	50.4	3849
281	Human genomics. The Genotype-Tissue Expression (GTEx) pilot analysis: multitissue gene regulation in humans. <i>Science</i> , 2015 , 348, 648-60	33.3	3242
280	Chromatin signature reveals over a thousand highly conserved large non-coding RNAs in mammals. <i>Nature</i> , 2009 , 458, 223-7	50.4	3230
279	GENCODE: the reference human genome annotation for The ENCODE Project. <i>Genome Research</i> , 2012 , 22, 1760-74	9.7	3142
278	Mapping and analysis of chromatin state dynamics in nine human cell types. <i>Nature</i> , 2011 , 473, 43-9	50.4	2153
277	Genetic effects on gene expression across human tissues. <i>Nature</i> , 2017 , 550, 204-213	50.4	2086
276	Histone modifications at human enhancers reflect global cell-type-specific gene expression. <i>Nature</i> , 2009 , 459, 108-12	50.4	1832
275	Genome sequence, comparative analysis and haplotype structure of the domestic dog. <i>Nature</i> , 2005 , 438, 803-19	50.4	1809
274	Discrete small RNA-generating loci as master regulators of transposon activity in <i>Drosophila</i> . <i>Cell</i> , 2007 , 128, 1089-103	56.2	1802
273	Transcriptional regulatory code of a eukaryotic genome. <i>Nature</i> , 2004 , 431, 99-104	50.4	1732
272	HaploReg: a resource for exploring chromatin states, conservation, and regulatory motif alterations within sets of genetically linked variants. <i>Nucleic Acids Research</i> , 2012 , 40, D930-4	20.1	1630
271	Evolution of genes and genomes on the <i>Drosophila</i> phylogeny. <i>Nature</i> , 2007 , 450, 203-18	50.4	1586
270	Systematic discovery of regulatory motifs in human promoters and 3' UTRs by comparison of several mammals. <i>Nature</i> , 2005 , 434, 338-45	50.4	1551
269	Genome duplication in the teleost fish <i>Tetraodon nigroviridis</i> reveals the early vertebrate proto-karyotype. <i>Nature</i> , 2004 , 431, 946-57	50.4	1543
268	Sequencing and comparison of yeast species to identify genes and regulatory elements. <i>Nature</i> , 2003 , 423, 241-54	50.4	1468

267	ChromHMM: automating chromatin-state discovery and characterization. <i>Nature Methods</i> , 2012 , 9, 215-216	21.6	1413
266	The genome sequence of the filamentous fungus <i>Neurospora crassa</i> . <i>Nature</i> , 2003 , 422, 859-68	50.4	1323
265	The NIH Roadmap Epigenomics Mapping Consortium. <i>Nature Biotechnology</i> , 2010 , 28, 1045-8	44.5	1284
264	ChIP-seq guidelines and practices of the ENCODE and modENCODE consortia. <i>Genome Research</i> , 2012 , 22, 1813-31	9.7	1211
263	Proof and evolutionary analysis of ancient genome duplication in the yeast <i>Saccharomyces cerevisiae</i> . <i>Nature</i> , 2004 , 428, 617-24	50.4	1158
262	GENCODE reference annotation for the human and mouse genomes. <i>Nucleic Acids Research</i> , 2019 , 47, D766-D773	20.1	1140
261	Wisdom of crowds for robust gene network inference. <i>Nature Methods</i> , 2012 , 9, 796-804	21.6	1097
260	A user's guide to the encyclopedia of DNA elements (ENCODE). <i>PLoS Biology</i> , 2011 , 9, e1001046	9.7	1060
259	A comparative encyclopedia of DNA elements in the mouse genome. <i>Nature</i> , 2014 , 515, 355-64	50.4	1026
258	Extensive and coordinated transcription of noncoding RNAs within cell-cycle promoters. <i>Nature Genetics</i> , 2011 , 43, 621-9	36.3	902
257	Identification of functional elements and regulatory circuits by <i>Drosophila</i> modENCODE. <i>Science</i> , 2010 , 330, 1787-97	33.3	892
256	Pan-cancer analysis of whole genomes. <i>Nature</i> , 2020 , 578, 82-93	50.4	840
255	FTO Obesity Variant Circuitry and Adipocyte Browning in Humans. <i>New England Journal of Medicine</i> , 2015 , 373, 895-907	59.2	821
254	A high-resolution map of human evolutionary constraint using 29 mammals. <i>Nature</i> , 2011 , 478, 476-82	50.4	802
253	Evolution of pathogenicity and sexual reproduction in eight <i>Candida</i> genomes. <i>Nature</i> , 2009 , 459, 657-62	50.4	764
252	Discovery and characterization of chromatin states for systematic annotation of the human genome. <i>Nature Biotechnology</i> , 2010 , 28, 817-25	44.5	757
251	The tissue-specific lncRNA <i>Fendrr</i> is an essential regulator of heart and body wall development in the mouse. <i>Developmental Cell</i> , 2013 , 24, 206-14	10.2	718
250	Single-cell transcriptomic analysis of Alzheimer's disease. <i>Nature</i> , 2019 , 570, 332-337	50.4	682

249	Comprehensive analysis of the chromatin landscape in <i>Drosophila melanogaster</i> . <i>Nature</i> , 2011 , 471, 480-504	50.4	641
248	PhyloCSF: a comparative genomics method to distinguish protein coding and non-coding regions. <i>Bioinformatics</i> , 2011 , 27, i275-82	7.2	637
247	Unlocking the secrets of the genome. <i>Nature</i> , 2009 , 459, 927-30	50.4	620
246	RNA polymerase stalling at developmental control genes in the <i>Drosophila melanogaster</i> embryo. <i>Nature Genetics</i> , 2007 , 39, 1512-6	36.3	589
245	Alzheimer's disease: early alterations in brain DNA methylation at ANK1, BIN1, RHBDF2 and other loci. <i>Nature Neuroscience</i> , 2014 , 17, 1156-63	25.5	579
244	Genome-wide probing of RNA structure reveals active unfolding of mRNA structures in vivo. <i>Nature</i> , 2014 , 505, 701-5	50.4	560
243	Genome analysis of the platypus reveals unique signatures of evolution. <i>Nature</i> , 2008 , 453, 175-83	50.4	545
242	An endogenous small interfering RNA pathway in <i>Drosophila</i> . <i>Nature</i> , 2008 , 453, 798-802	50.4	542
241	HaploReg v4: systematic mining of putative causal variants, cell types, regulators and target genes for human complex traits and disease. <i>Nucleic Acids Research</i> , 2016 , 44, D877-81	20.1	522
240	Multiple knockout mouse models reveal lincRNAs are required for life and brain development. <i>ELife</i> , 2013 , 2, e01749	8.9	516
239	Association studies of up to 1.2 million individuals yield new insights into the genetic etiology of tobacco and alcohol use. <i>Nature Genetics</i> , 2019 , 51, 237-244	36.3	516
238	Discovery of functional elements in 12 <i>Drosophila</i> genomes using evolutionary signatures. <i>Nature</i> , 2007 , 450, 219-32	50.4	506
237	Defining functional DNA elements in the human genome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 6131-8	11.5	490
236	Evolution, biogenesis, expression, and target predictions of a substantially expanded set of <i>Drosophila</i> microRNAs. <i>Genome Research</i> , 2007 , 17, 1850-64	9.7	462
235	Distinguishing protein-coding and noncoding genes in the human genome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 19428-33	11.5	440
234	A Novel Approach to High-Quality Postmortem Tissue Procurement: The GTEx Project. <i>Biopreservation and Biobanking</i> , 2015 , 13, 311-9	2.1	432
233	Systematic dissection and optimization of inducible enhancers in human cells using a massively parallel reporter assay. <i>Nature Biotechnology</i> , 2012 , 30, 271-7	44.5	431
232	Landscape of X chromosome inactivation across human tissues. <i>Nature</i> , 2017 , 550, 244-248	50.4	417

231	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
230	Fine mapping of type 1 diabetes susceptibility loci and evidence for colocalization of causal variants with lymphoid gene enhancers. <i>Nature Genetics</i> , 2015 , 47, 381-6	36.3	414
229	Conserved epigenomic signals in mice and humans reveal immune basis of Alzheimer's disease. <i>Nature</i> , 2015 , 518, 365-9	50.4	390
228	A cis-regulatory map of the Drosophila genome. <i>Nature</i> , 2011 , 471, 527-31	50.4	390
227	Activity-Induced DNA Breaks Govern the Expression of Neuronal Early-Response Genes. <i>Cell</i> , 2015 , 161, 1592-605	56.2	386
226	Integrative annotation of chromatin elements from ENCODE data. <i>Nucleic Acids Research</i> , 2013 , 41, 827-40.1	40.1	383
225	Mosquito genomics. Highly evolvable malaria vectors: the genomes of 16 Anopheles mosquitoes. <i>Science</i> , 2015 , 347, 1258522	33.3	372
224	Comparative functional genomics of the fission yeasts. <i>Science</i> , 2011 , 332, 930-6	33.3	364
223	Expanded encyclopaedias of DNA elements in the human and mouse genomes. <i>Nature</i> , 2020 , 583, 699-710.4	10.4	360
222	Interpreting noncoding genetic variation in complex traits and human disease. <i>Nature Biotechnology</i> , 2012 , 30, 1095-106	44.5	347
221	Long noncoding RNAs regulate adipogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 3387-92	11.5	315
220	Common genetic variants modulate pathogen-sensing responses in human dendritic cells. <i>Science</i> , 2014 , 343, 1246980	33.3	309
219	Systematic discovery and characterization of regulatory motifs in ENCODE TF binding experiments. <i>Nucleic Acids Research</i> , 2014 , 42, 2976-87	20.1	302
218	Constitutive nuclear lamina-genome interactions are highly conserved and associated with A/T-rich sequence. <i>Genome Research</i> , 2013 , 23, 270-80	9.7	301
217	Dynamic landscape and regulation of RNA editing in mammals. <i>Nature</i> , 2017 , 550, 249-254	50.4	286
216	Extensive variation in chromatin states across humans. <i>Science</i> , 2013 , 342, 750-2	33.3	276
215	Genomic evidence for ameiotic evolution in the bdelloid rotifer <i>Adineta vaga</i> . <i>Nature</i> , 2013 , 500, 453-7	50.4	274
214	Comparative analysis of metazoan chromatin organization. <i>Nature</i> , 2014 , 512, 449-52	50.4	265

213	Combinatorial patterning of chromatin regulators uncovered by genome-wide location analysis in human cells. <i>Cell</i> , 2011 , 147, 1628-39	56.2	265
212	Genomic analyses identify hundreds of variants associated with age at menarche and support a role for puberty timing in cancer risk. <i>Nature Genetics</i> , 2017 , 49, 834-841	36.3	257
211	Chromatin-state discovery and genome annotation with ChromHMM. <i>Nature Protocols</i> , 2017 , 12, 2478-2493	24.8	257
210	A comprehensive map of insulator elements for the Drosophila genome. <i>PLoS Genetics</i> , 2010 , 6, e1000814	14	255
209	Large-scale imputation of epigenomic datasets for systematic annotation of diverse human tissues. <i>Nature Biotechnology</i> , 2015 , 33, 364-76	44.5	252
208	Evolutionary dynamics and tissue specificity of human long noncoding RNAs in six mammals. <i>Genome Research</i> , 2014 , 24, 616-28	9.7	250
207	BRCA1 recruitment to transcriptional pause sites is required for R-loop-driven DNA damage repair. <i>Molecular Cell</i> , 2015 , 57, 636-647	17.6	245
206	Systematic discovery of regulatory motifs in conserved regions of the human genome, including thousands of CTCF insulator sites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 7145-50	11.5	242
205	Using an atlas of gene regulation across 44 human tissues to inform complex disease- and trait-associated variation. <i>Nature Genetics</i> , 2018 , 50, 956-967	36.3	239
204	Whole-genome CHIP-chip analysis of Dorsal, Twist, and Snail suggests integration of diverse patterning processes in the Drosophila embryo. <i>Genes and Development</i> , 2007 , 21, 385-90	12.6	232
203	Common variants at 9p21 and 8q22 are associated with increased susceptibility to optic nerve degeneration in glaucoma. <i>PLoS Genetics</i> , 2012 , 8, e1002654	6	227
202	Analyses of non-coding somatic drivers in 2,658 cancer whole genomes. <i>Nature</i> , 2020 , 578, 102-111	50.4	220
201	An epigenetic signature for monoallelic olfactory receptor expression. <i>Cell</i> , 2011 , 145, 555-70	56.2	218
200	CHD8 regulates neurodevelopmental pathways associated with autism spectrum disorder in neural progenitors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E4468-77	11.5	210
199	Tissue-specific regulatory circuits reveal variable modular perturbations across complex diseases. <i>Nature Methods</i> , 2016 , 13, 366-70	21.6	201
198	Genetic association study of QT interval highlights role for calcium signaling pathways in myocardial repolarization. <i>Nature Genetics</i> , 2014 , 46, 826-36	36.3	199
197	Systematic dissection of regulatory motifs in 2000 predicted human enhancers using a massively parallel reporter assay. <i>Genome Research</i> , 2013 , 23, 800-11	9.7	191
196	The Tasmanian devil transcriptome reveals Schwann cell origins of a clonally transmissible cancer. <i>Science</i> , 2010 , 327, 84-7	33.3	188

195	A single Hox locus in <i>Drosophila</i> produces functional microRNAs from opposite DNA strands. <i>Genes and Development</i> , 2008 , 22, 8-13	12.6	188
194	N-methyladenosine RNA modification regulates embryonic neural stem cell self-renewal through histone modifications. <i>Nature Neuroscience</i> , 2018 , 21, 195-206	25.5	185
193	Network deconvolution as a general method to distinguish direct dependencies in networks. <i>Nature Biotechnology</i> , 2013 , 31, 726-33	44.5	174
192	Human genomics. Effect of predicted protein-truncating genetic variants on the human transcriptome. <i>Science</i> , 2015 , 348, 666-9	33.3	170
191	RFECs: a random-forest based algorithm for enhancer identification from chromatin state. <i>PLoS Computational Biology</i> , 2013 , 9, e1002968	5	160
190	Systematic discovery and characterization of fly microRNAs using 12 <i>Drosophila</i> genomes. <i>Genome Research</i> , 2007 , 17, 1865-79	9.7	158
189	Evidence of abundant purifying selection in humans for recently acquired regulatory functions. <i>Science</i> , 2012 , 337, 1675-8	33.3	151
188	Evidence of abundant stop codon readthrough in <i>Drosophila</i> and other metazoa. <i>Genome Research</i> , 2011 , 21, 2096-113	9.7	139
187	Efficient algorithms for the reconciliation problem with gene duplication, horizontal transfer and loss. <i>Bioinformatics</i> , 2012 , 28, i283-91	7.2	138
186	Comparative analysis of regulatory information and circuits across distant species. <i>Nature</i> , 2014 , 512, 453-6	50.4	135
185	Evidence of efficient stop codon readthrough in four mammalian genes. <i>Nucleic Acids Research</i> , 2014 , 42, 8928-38	20.1	130
184	Network Motif Discovery Using Subgraph Enumeration and Symmetry-Breaking 2007 , 92-106		124
183	Reliable prediction of regulator targets using 12 <i>Drosophila</i> genomes. <i>Genome Research</i> , 2007 , 17, 1919-31	9.7	123
182	Revisiting the protein-coding gene catalog of <i>Drosophila melanogaster</i> using 12 fly genomes. <i>Genome Research</i> , 2007 , 17, 1823-36	9.7	121
181	Unified modeling of gene duplication, loss, and coalescence using a locus tree. <i>Genome Research</i> , 2012 , 22, 755-65	9.7	117
180	Position specific variation in the rate of evolution in transcription factor binding sites. <i>BMC Evolutionary Biology</i> , 2003 , 3, 19	3	114
179	The NF- κ B genomic landscape in lymphoblastoid B cells. <i>Cell Reports</i> , 2014 , 8, 1595-606	10.6	112
178	Discovery of human sORF-encoded polypeptides (SEPs) in cell lines and tissue. <i>Journal of Proteome Research</i> , 2014 , 13, 1757-65	5.6	111

177	Sharing and Specificity of Co-expression Networks across 35 Human Tissues. <i>PLoS Computational Biology</i> , 2015 , 11, e1004220	5	104
176	Deep learning for regulatory genomics. <i>Nature Biotechnology</i> , 2015 , 33, 825-6	44.5	103
175	Single-cell transcriptomic atlas of the human retina identifies cell types associated with age-related macular degeneration. <i>Nature Communications</i> , 2019 , 10, 4902	17.4	100
174	Dynamics of the epigenetic landscape during erythroid differentiation after GATA1 restoration. <i>Genome Research</i> , 2011 , 21, 1659-71	9.7	100
173	Genomic RNA Elements Drive Phase Separation of the SARS-CoV-2 Nucleocapsid. <i>Molecular Cell</i> , 2020 , 80, 1078-1091.e6	17.6	98
172	Comparative validation of the D. melanogaster modENCODE transcriptome annotation. <i>Genome Research</i> , 2014 , 24, 1209-23	9.7	95
171	A Bayesian approach for fast and accurate gene tree reconstruction. <i>Molecular Biology and Evolution</i> , 2011 , 28, 273-90	8.3	95
170	Three periods of regulatory innovation during vertebrate evolution. <i>Science</i> , 2011 , 333, 1019-24	33.3	92
169	Deep-coverage whole genome sequences and blood lipids among 16,324 individuals. <i>Nature Communications</i> , 2018 , 9, 3391	17.4	90
168	Spatial expression of transcription factors in Drosophila embryonic organ development. <i>Genome Biology</i> , 2013 , 14, R140	18.3	87
167	Linking DNA methyltransferases to epigenetic marks and nucleosome structure genome-wide in human tumor cells. <i>Cell Reports</i> , 2012 , 2, 1411-24	10.6	86
166	Genome-scale high-resolution mapping of activating and repressive nucleotides in regulatory regions. <i>Nature Biotechnology</i> , 2016 , 34, 1180-1190	44.5	85
165	RNA folding with soft constraints: reconciliation of probing data and thermodynamic secondary structure prediction. <i>Nucleic Acids Research</i> , 2012 , 40, 4261-72	20.1	84
164	Reconstruction of the human blood-brain barrier in vitro reveals a pathogenic mechanism of APOE4 in pericytes. <i>Nature Medicine</i> , 2020 , 26, 952-963	50.5	83
163	GENCODE 2021. <i>Nucleic Acids Research</i> , 2021 , 49, D916-D923	20.1	82
162	Core and region-enriched networks of behaviorally regulated genes and the singing genome. <i>Science</i> , 2014 , 346, 1256780	33.3	81
161	TreeFix: statistically informed gene tree error correction using species trees. <i>Systematic Biology</i> , 2013 , 62, 110-20	8.4	80
160	Predictive regulatory models in Drosophila melanogaster by integrative inference of transcriptional networks. <i>Genome Research</i> , 2012 , 22, 1334-49	9.7	79

159	Survey of variation in human transcription factors reveals prevalent DNA binding changes. <i>Science</i> , 2016 , 351, 1450-1454	33.3	78
158	52 Genetic Loci Influencing Myocardial Mass. <i>Journal of the American College of Cardiology</i> , 2016 , 68, 1435-1448	15.1	76
157	New families of human regulatory RNA structures identified by comparative analysis of vertebrate genomes. <i>Genome Research</i> , 2011 , 21, 1929-43	9.7	76
156	Joint profiling of DNA methylation and chromatin architecture in single cells. <i>Nature Methods</i> , 2019 , 16, 991-993	21.6	75
155	Improved Identification and Analysis of Small Open Reading Frame Encoded Polypeptides. <i>Analytical Chemistry</i> , 2016 , 88, 3967-75	7.8	73
154	A Quantitative Proteome Map of the Human Body. <i>Cell</i> , 2020 , 183, 269-283.e19	56.2	73
153	Interplay between chromatin state, regulator binding, and regulatory motifs in six human cell types. <i>Genome Research</i> , 2013 , 23, 1142-54	9.7	72
152	Methods in comparative genomics: genome correspondence, gene identification and regulatory motif discovery. <i>Journal of Computational Biology</i> , 2004 , 11, 319-55	1.7	72
151	Analysis of variation at transcription factor binding sites in Drosophila and humans. <i>Genome Biology</i> , 2012 , 13, R49	18.3	71
150	Locating protein-coding sequences under selection for additional, overlapping functions in 29 mammalian genomes. <i>Genome Research</i> , 2011 , 21, 1916-28	9.7	71
149	Intermediate DNA methylation is a conserved signature of genome regulation. <i>Nature Communications</i> , 2015 , 6, 6363	17.4	67
148	Discovery and validation of sub-threshold genome-wide association study loci using epigenomic signatures. <i>ELife</i> , 2016 , 5,	8.9	64
147	Analyses of mRNA structure dynamics identify embryonic gene regulatory programs. <i>Nature Structural and Molecular Biology</i> , 2018 , 25, 677-686	17.6	61
146	Accurate gene-tree reconstruction by learning gene- and species-specific substitution rates across multiple complete genomes. <i>Genome Research</i> , 2007 , 17, 1932-42	9.7	61
145	Perspectives on ENCODE. <i>Nature</i> , 2020 , 583, 693-698	50.4	61
144	Soft X-Ray Tomography Reveals Gradual Chromatin Compaction and Reorganization during Neurogenesis In Vivo. <i>Cell Reports</i> , 2016 , 17, 2125-2136	10.6	59
143	Joint Bayesian inference of risk variants and tissue-specific epigenomic enrichments across multiple complex human diseases. <i>Nucleic Acids Research</i> , 2016 , 44, e144	20.1	58
142	Deep coverage whole genome sequences and plasma lipoprotein(a) in individuals of European and African ancestries. <i>Nature Communications</i> , 2018 , 9, 2606	17.4	53

141	Disruption of a large intergenic noncoding RNA in subjects with neurodevelopmental disabilities. <i>American Journal of Human Genetics</i> , 2012 , 91, 1128-34	11	53
140	SARS-CoV-2 gene content and COVID-19 mutation impact by comparing 44 Sarbecovirus genomes. <i>Nature Communications</i> , 2021 , 12, 2642	17.4	52
139	High-resolution genome-wide functional dissection of transcriptional regulatory regions and nucleotides in human. <i>Nature Communications</i> , 2018 , 9, 5380	17.4	52
138	Molecular Transducers of Physical Activity Consortium (MoTrPAC): Mapping the Dynamic Responses to Exercise. <i>Cell</i> , 2020 , 181, 1464-1474	56.2	51
137	SubMAP: aligning metabolic pathways with subnetwork mappings. <i>Journal of Computational Biology</i> , 2011 , 18, 219-35	1.7	51
136	Evolutionary principles of modular gene regulation in yeasts. <i>ELife</i> , 2013 , 2, e00603	8.9	50
135	Allele-specific epigenome maps reveal sequence-dependent stochastic switching at regulatory loci. <i>Science</i> , 2018 , 361,	33.3	48
134	PRC2 Is Required to Maintain Expression of the Maternal Gtl2-Rian-Mirg Locus by Preventing De Novo DNA Methylation in Mouse Embryonic Stem Cells. <i>Cell Reports</i> , 2015 , 12, 1456-70	10.6	46
133	Most parsimonious reconciliation in the presence of gene duplication, loss, and deep coalescence using labeled coalescent trees. <i>Genome Research</i> , 2014 , 24, 475-86	9.7	46
132	The evolutionary dynamics of the <i>Saccharomyces cerevisiae</i> protein interaction network after duplication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 950-4	11.5	46
131	Cell Type-Specific Transcriptomics Reveals that Mutant Huntingtin Leads to Mitochondrial RNA Release and Neuronal Innate Immune Activation. <i>Neuron</i> , 2020 , 107, 891-908.e8	13.9	46
130	Reconciliation revisited: handling multiple optima when reconciling with duplication, transfer, and loss. <i>Journal of Computational Biology</i> , 2013 , 20, 738-54	1.7	45
129	Computational analysis of noncoding RNAs. <i>Wiley Interdisciplinary Reviews RNA</i> , 2012 , 3, 759-78	9.3	44
128	Human Primordial Germ Cells Are Specified from Lineage-Primed Progenitors. <i>Cell Reports</i> , 2019 , 29, 4568-4582.e5	10.6	44
127	Regulatory genomic circuitry of human disease loci by integrative epigenomics. <i>Nature</i> , 2021 , 590, 300-307.	17.4	43
126	Systematic chromatin state comparison of epigenomes associated with diverse properties including sex and tissue type. <i>Nature Communications</i> , 2015 , 6, 7973	17.4	42
125	Alzheimer's loci: epigenetic associations and interaction with genetic factors. <i>Annals of Clinical and Translational Neurology</i> , 2015 , 2, 636-47	5.3	42
124	Pareto-optimal phylogenetic tree reconciliation. <i>Bioinformatics</i> , 2014 , 30, i87-95	7.2	41

123	Performance and scalability of discriminative metrics for comparative gene identification in 12 <i>Drosophila</i> genomes. <i>PLoS Computational Biology</i> , 2008 , 4, e1000067	5	41
122	Arboretum: reconstruction and analysis of the evolutionary history of condition-specific transcriptional modules. <i>Genome Research</i> , 2013 , 23, 1039-50	9.7	40
121	Phylogenetically and spatially conserved word pairs associated with gene-expression changes in yeasts. <i>Genome Biology</i> , 2003 , 4, R43	18.3	40
120	Integrating and mining the chromatin landscape of cell-type specificity using self-organizing maps. <i>Genome Research</i> , 2013 , 23, 2136-48	9.7	39
119	Pan-cancer screen for mutations in non-coding elements with conservation and cancer specificity reveals correlations with expression and survival. <i>Npj Genomic Medicine</i> , 2018 , 3, 1	6.2	38
118	Improved gene tree error correction in the presence of horizontal gene transfer. <i>Bioinformatics</i> , 2015 , 31, 1211-8	7.2	37
117	Loose ends: almost one in five human genes still have unresolved coding status. <i>Nucleic Acids Research</i> , 2018 , 46, 7070-7084	20.1	36
116	Optimization of parameters for coverage of low molecular weight proteins. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 2867-81	4.4	36
115	Challenges in IBD Research: Environmental Triggers. <i>Inflammatory Bowel Diseases</i> , 2019 , 25, S13-S23	4.5	35
114	disrupts intracellular lipid homeostasis in human iPSC-derived glia. <i>Science Translational Medicine</i> , 2021 , 13,	17.5	35
113	Evolution at the subgene level: domain rearrangements in the <i>Drosophila</i> phylogeny. <i>Molecular Biology and Evolution</i> , 2012 , 29, 689-705	8.3	34
112	Conservation of small RNA pathways in platypus. <i>Genome Research</i> , 2008 , 18, 995-1004	9.7	34
111	Evolutionary Dynamics of Abundant Stop Codon Readthrough. <i>Molecular Biology and Evolution</i> , 2016 , 33, 3108-3132	8.3	32
110	FRESCo: finding regions of excess synonymous constraint in diverse viruses. <i>Genome Biology</i> , 2015 , 16, 38	18.3	30
109	Stop codon readthrough generates a C-terminally extended variant of the human vitamin D receptor with reduced calcitriol response. <i>Journal of Biological Chemistry</i> , 2018 , 293, 4434-4444	5.4	30
108	Evolution of enhanced innate immune evasion by SARS-CoV-2.. <i>Nature</i> , 2021 ,	50.4	30
107	MicroRNA and gene expression changes in unruptured human cerebral aneurysms. <i>Journal of Neurosurgery</i> , 2016 , 125, 1390-1399	3.2	29
106	Chromatin Accessibility Impacts Transcriptional Reprogramming in Oocytes. <i>Cell Reports</i> , 2018 , 24, 304-316	31.6	29

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24	Evidence for secondary-variant genetic burden and non-random distribution across biological modules in a recessive ciliopathy		2
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13	Simultaneous profiling of DNA methylation and chromatin architecture in mixed populations and in single cells		1
12	Analysis of Genetically Regulated Gene Expression identifies a trauma type specific PTSD gene, SNRNP35		1
11	Evidence of a recombination rate valley in human regulatory domains		1
10	Genome-wide regulatory model from MPRA data predicts functional regions, eQTLs, and GWAS hits		1
9	Pan-cancer screen for mutations in non-coding elements with conservation and cancer specificity reveals correlations with expression and survival		1
8	Structural variant selection for high-altitude adaptation using single-molecule long-read sequencing		1
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