

# Jan O Korbel

## 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.

183  
papers

50,647  
citations

73  
h-index

202  
g-index

202  
ext. papers

62,692  
ext. citations

19.6  
avg, IF

6.74  
L-index

#	Paper	IF	Citations
183	Somatic structural variant formation is guided by and influences genome architecture.. <i>Genome Research</i> , <b>2022</b> ,	9.7	1
182	Pangenome-based genome inference allows efficient and accurate genotyping across a wide spectrum of variant classes.. <i>Nature Genetics</i> , <b>2022</b> ,	36.3	1
181	Recurrent inversion polymorphisms in humans associate with genetic instability and genomic disorders.. <i>Cell</i> , <b>2022</b> ,	56.2	2
180	The genomic and transcriptional landscape of primary central nervous system lymphoma.. <i>Nature Communications</i> , <b>2022</b> , 13, 2558	17.4	4
179	TP53 and KRAS Variants at Initial Diagnosis Identify an Ultra-High Risk Group of Pediatric T-Lymphoblastic Leukemia (T-ALL). <i>Blood</i> , <b>2021</b> , 138, 1315-1315	2.2	
178	Chromothripsis followed by circular recombination drives oncogene amplification in human cancer. <i>Nature Genetics</i> , <b>2021</b> , 53, 1673-1685	36.3	7
177	Versatile workflow for cell type-resolved transcriptional and epigenetic profiles from cryopreserved human lung. <i>JCI Insight</i> , <b>2021</b> , 6,	9.9	2
176	ASHLEYS: automated quality control for single-cell Strand-seq data. <i>Bioinformatics</i> , <b>2021</b> ,	7.2	2
175	Haplotype-resolved diverse human genomes and integrated analysis of structural variation. <i>Science</i> , <b>2021</b> , 372,	33.3	100
174	Expectations and blind spots for structural variation detection from long-read assemblies and short-read genome sequencing technologies. <i>American Journal of Human Genetics</i> , <b>2021</b> , 108, 919-928	11	13
173	Mutational mechanisms shaping the coding and noncoding genome of germinal center derived B-cell lymphomas. <i>Leukemia</i> , <b>2021</b> , 35, 2002-2016	10.7	3
172	Fully phased human genome assembly without parental data using single-cell strand sequencing and long reads. <i>Nature Biotechnology</i> , <b>2021</b> , 39, 302-308	44.5	42
171	The X chromosome from telomere to telomere: key achievements and future opportunities.. <i>Faculty Reviews</i> , <b>2021</b> , 10, 63	1.2	1
170	Systems approaches identify the consequences of monosomy in somatic human cells. <i>Nature Communications</i> , <b>2021</b> , 12, 5576	17.4	5
169	The Porto European Cancer Research Summit 2021. <i>Molecular Oncology</i> , <b>2021</b> , 15, 2507-2543	7.9	1
168	VISOR: a versatile haplotype-aware structural variant simulator for short- and long-read sequencing. <i>Bioinformatics</i> , <b>2020</b> , 36, 1267-1269	7.2	8
167	Targeted Perturb-seq enables genome-scale genetic screens in single cells. <i>Nature Methods</i> , <b>2020</b> , 17, 629-635	21.6	41

166	Recurrent inversion toggling and great ape genome evolution. <i>Nature Genetics</i> , <b>2020</b> , 52, 849-858	36.3	13
165	Acquisition of chromosome instability is a mechanism to evade oncogene addiction. <i>EMBO Molecular Medicine</i> , <b>2020</b> , 12, e10941	12	22
164	Germline Elongator mutations in Sonic Hedgehog medulloblastoma. <i>Nature</i> , <b>2020</b> , 580, 396-401	50.4	47
163	Genomics: data sharing needs an international code of conduct. <i>Nature</i> , <b>2020</b> , 578, 31-33	50.4	17
162	Eleven grand challenges in single-cell data science. <i>Genome Biology</i> , <b>2020</b> , 21, 31	18.3	274
161	Patterns of somatic structural variation in human cancer genomes. <i>Nature</i> , <b>2020</b> , 578, 112-121	50.4	232
160	Genomic basis for RNA alterations in cancer. <i>Nature</i> , <b>2020</b> , 578, 129-136	50.4	148
159	Pan-cancer analysis of whole genomes identifies driver rearrangements promoted by LINE-1 retrotransposition. <i>Nature Genetics</i> , <b>2020</b> , 52, 306-319	36.3	122
158	Comprehensive analysis of chromothripsis in 2,658 human cancers using whole-genome sequencing. <i>Nature Genetics</i> , <b>2020</b> , 52, 331-341	36.3	168
157	Genome-wide Screens Implicate Loss of Cullin Ring Ligase 3 in Persistent Proliferation and Genome Instability in TP53-Deficient Cells. <i>Cell Reports</i> , <b>2020</b> , 31, 107465	10.6	11
156	Genomic data sharing in Europe is stumbling-Could a code of conduct prevent its fall?. <i>EMBO Molecular Medicine</i> , <b>2020</b> , 12, e11421	12	11
155	Butler enables rapid cloud-based analysis of thousands of human genomes. <i>Nature Biotechnology</i> , <b>2020</b> , 38, 288-292	44.5	9
154	Single-cell analysis of structural variations and complex rearrangements with tri-channel processing. <i>Nature Biotechnology</i> , <b>2020</b> , 38, 343-354	44.5	17
153	TRiCoLOR: tandem repeat profiling using whole-genome long-read sequencing data. <i>GigaScience</i> , <b>2020</b> , 9,	7.6	7
152	Chromatin accessibility landscape of pediatric T-lymphoblastic leukemia and human T-cell precursors. <i>EMBO Molecular Medicine</i> , <b>2020</b> , 12, e12104	12	3
151	A scalable CRISPR/Cas9-based fluorescent reporter assay to study DNA double-strand break repair choice. <i>Nature Communications</i> , <b>2020</b> , 11, 4077	17.4	15
150	Single-cell strand sequencing of a macaque genome reveals multiple nested inversions and breakpoint reuse during primate evolution. <i>Genome Research</i> , <b>2020</b> , 30, 1680-1693	9.7	4
149	Sequence diversity analyses of an improved rhesus macaque genome enhance its biomedical utility. <i>Science</i> , <b>2020</b> , 370,	33.3	28

148	Germline Mutations Predispose to Pediatric Medulloblastoma. <i>Journal of Clinical Oncology</i> , <b>2020</b> , 38, 43-50	2.2	28
147	Leveraging European infrastructures to access 1 million human genomes by 2022. <i>Nature Reviews Genetics</i> , <b>2019</b> , 20, 693-701	30.1	36
146	The NSL complex maintains nuclear architecture stability via lamin A/C acetylation. <i>Nature Cell Biology</i> , <b>2019</b> , 21, 1248-1260	23.4	34
145	InTAD: chromosome conformation guided analysis of enhancer target genes. <i>BMC Bioinformatics</i> , <b>2019</b> , 20, 60	3.6	8
144	Multi-platform discovery of haplotype-resolved structural variation in human genomes. <i>Nature Communications</i> , <b>2019</b> , 10, 1784	17.4	346
143	Genomic and transcriptomic changes complement each other in the pathogenesis of sporadic Burkitt lymphoma. <i>Nature Communications</i> , <b>2019</b> , 10, 1459	17.4	49
142	Highly rearranged chromosomes reveal uncoupling between genome topology and gene expression. <i>Nature Genetics</i> , <b>2019</b> , 51, 1272-1282	36.3	145
141	Enriched power of disease-concordant twin-case-only design in detecting interactions in genome-wide association studies. <i>European Journal of Human Genetics</i> , <b>2019</b> , 27, 631-636	5.3	2
140	The molecular landscape of ETMR at diagnosis and relapse. <i>Nature</i> , <b>2019</b> , 576, 274-280	50.4	46
139	Comprehensive Analysis of Chromatin States in Atypical Teratoid/Rhabdoid Tumor Identifies Diverging Roles for SWI/SNF and Polycomb in Gene Regulation. <i>Cancer Cell</i> , <b>2019</b> , 35, 95-110.e8	24.3	40
138	Alfred: interactive multi-sample BAM alignment statistics, feature counting and feature annotation for long- and short-read sequencing. <i>Bioinformatics</i> , <b>2019</b> , 35, 2489-2491	7.2	29
137	The landscape of genomic alterations across childhood cancers. <i>Nature</i> , <b>2018</b> , 555, 321-327	50.4	603
136	Strand-seq enables reliable separation of long reads by chromosome via expectation maximization. <i>Bioinformatics</i> , <b>2018</b> , 34, i115-i123	7.2	17
135	Spectrum and prevalence of genetic predisposition in medulloblastoma: a retrospective genetic study and prospective validation in a clinical trial cohort. <i>Lancet Oncology</i> , <b>2018</b> , 19, 785-798	21.7	159
134	Genomic structural variations lead to dysregulation of important coding and non-coding RNA species in dilated cardiomyopathy. <i>EMBO Molecular Medicine</i> , <b>2018</b> , 10, 107-120	12	29
133	Chromatin modifiers Mdm2 and RNF2 prevent RNA:DNA hybrids that impair DNA replication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E11311-E11320	11.5	30
132	PDX models recapitulate the genetic and epigenetic landscape of pediatric T-cell leukemia. <i>EMBO Molecular Medicine</i> , <b>2018</b> , 10,	12	20
131	Molecular Evolution of Early-Onset Prostate Cancer Identifies Molecular Risk Markers and Clinical Trajectories. <i>Cancer Cell</i> , <b>2018</b> , 34, 996-1011.e8	24.3	89

130	Risk-adapted therapy for young children with medulloblastoma (SJYC07): therapeutic and molecular outcomes from a multicentre, phase 2 trial. <i>Lancet Oncology, The</i> , <b>2018</b> , 19, 768-784	21.7	95
129	Pan-cancer analysis distinguishes transcriptional changes of aneuploidy from proliferation. <i>Genome Research</i> , <b>2017</b> , 27, 501-511	9.7	31
128	Systematic Identification of Determinants for Single-Strand Annealing-Mediated Deletion Formation in. <i>G3: Genes, Genomes, Genetics</i> , <b>2017</b> , 7, 3269-3279	3.2	1
127	Mitochondrial mutations drive prostate cancer aggression. <i>Nature Communications</i> , <b>2017</b> , 8, 656	17.4	66
126	The whole-genome landscape of medulloblastoma subtypes. <i>Nature</i> , <b>2017</b> , 547, 311-317	50.4	472
125	Dense and accurate whole-chromosome haplotyping of individual genomes. <i>Nature Communications</i> , <b>2017</b> , 8, 1293	17.4	60
124	Computing patient data in the cloud: practical and legal considerations for genetics and genomics research in Europe and internationally. <i>Genome Medicine</i> , <b>2017</b> , 9, 58	14.4	17
123	Genomes of early onset prostate cancer. <i>Current Opinion in Urology</i> , <b>2017</b> , 27, 481-487	2.8	7
122	Pan-cancer analysis of somatic copy-number alterations implicates IRS4 and IGF2 in enhancer hijacking. <i>Nature Genetics</i> , <b>2017</b> , 49, 65-74	36.3	220
121	Deletion lengthening at chromosomes 6q and 16q targets multiple tumor suppressor genes and is associated with an increasingly poor prognosis in prostate cancer. <i>Oncotarget</i> , <b>2017</b> , 8, 108923-108935	3.3	21
120	Genetic code expansion for multiprotein complex engineering. <i>Nature Methods</i> , <b>2016</b> , 13, 997-1000	21.6	48
119	Heterogeneity of ERG expression in prostate cancer: a large section mapping study of entire prostatectomy specimens from 125 patients. <i>BMC Cancer</i> , <b>2016</b> , 16, 641	4.8	19
118	Next-generation sequencing-based detection of germline L1-mediated transductions. <i>BMC Genomics</i> , <b>2016</b> , 17, 342	4.5	7
117	Active medulloblastoma enhancers reveal subgroup-specific cellular origins. <i>Nature</i> , <b>2016</b> , 530, 57-62	50.4	234
116	Atypical Teratoid/Rhabdoid Tumors Are Comprised of Three Epigenetic Subgroups with Distinct Enhancer Landscapes. <i>Cancer Cell</i> , <b>2016</b> , 29, 379-393	24.3	319
115	Shadow Enhancers Are Pervasive Features of Developmental Regulatory Networks. <i>Current Biology</i> , <b>2016</b> , 26, 38-51	6.3	121
114	Immortalization capacity of HPV types is inversely related to chromosomal instability. <i>Oncotarget</i> , <b>2016</b> , 7, 37608-37621	3.3	17
113	Using large-scale genome variation cohorts to decipher the molecular mechanism of cancer. <i>Comptes Rendus - Biologies</i> , <b>2016</b> , 339, 308-13	1.4	4

112	Identification of ZCCHC8 as fusion partner of ROS1 in a case of congenital glioblastoma multiforme with a t(6;12)(q21;q24.3). <i>Genes Chromosomes and Cancer</i> , <b>2016</b> , 55, 677-87	5	22
111	Alterations of microRNA and microRNA-regulated messenger RNA expression in germinal center B-cell lymphomas determined by integrative sequencing analysis. <i>Haematologica</i> , <b>2016</b> , 101, 1380-1389	6.6	31
110	Negative Selection and Chromosome Instability Induced by Mad2 Overexpression Delay Breast Cancer but Facilitate Oncogene-Independent Outgrowth. <i>Cell Reports</i> , <b>2016</b> , 15, 2679-91	10.6	43
109	Toward understanding and exploiting tumor heterogeneity. <i>Nature Medicine</i> , <b>2015</b> , 21, 846-53	50.5	441
108	Genomics and drug profiling of fatal TCF3-HLF-positive acute lymphoblastic leukemia identifies recurrent mutation patterns and therapeutic options. <i>Nature Genetics</i> , <b>2015</b> , 47, 1020-1029	36.3	127
107	Comprehensive genomic profiles of small cell lung cancer. <i>Nature</i> , <b>2015</b> , 524, 47-53	50.4	1061
106	Assembly and diploid architecture of an individual human genome via single-molecule technologies. <i>Nature Methods</i> , <b>2015</b> , 12, 780-6	21.6	383
105	A global reference for human genetic variation. <i>Nature</i> , <b>2015</b> , 526, 68-74	50.4	8599
104	An integrated map of structural variation in 2,504 human genomes. <i>Nature</i> , <b>2015</b> , 526, 75-81	50.4	1368
103	Pediatric T-cell lymphoblastic leukemia evolves into relapse by clonal selection, acquisition of mutations and promoter hypomethylation. <i>Haematologica</i> , <b>2015</b> , 100, 1442-50	6.6	50
102	BAZ2A (TIP5) is involved in epigenetic alterations in prostate cancer and its overexpression predicts disease recurrence. <i>Nature Genetics</i> , <b>2015</b> , 47, 22-30	36.3	99
101	A cell-based model system links chromothripsis with hyperploidy. <i>Molecular Systems Biology</i> , <b>2015</b> , 11, 828	12.2	88
100	Data analysis: Create a cloud commons. <i>Nature</i> , <b>2015</b> , 523, 149-51	50.4	71
99	Analysis of deletion breakpoints from 1,092 humans reveals details of mutation mechanisms. <i>Nature Communications</i> , <b>2015</b> , 6, 7256	17.4	56
98	Exome sequencing of osteosarcoma reveals mutation signatures reminiscent of BRCA deficiency. <i>Nature Communications</i> , <b>2015</b> , 6, 8940	17.4	175
97	Prevalence of chromosomal rearrangements involving non-ETS genes in prostate cancer. <i>International Journal of Oncology</i> , <b>2015</b> , 46, 1637-42	4.4	9
96	Gene Panel Sequencing of Primary and Relapsed Pediatric T-ALL Shows That Relapse-Specific Mutations Are Diverse and Mostly Non-Recurrent. <i>Blood</i> , <b>2015</b> , 126, 1428-1428	2.2	
95	Epigenomic alterations define lethal CIMP-positive ependymomas of infancy. <i>Nature</i> , <b>2014</b> , 506, 445-50	50.4	434

94	Genome sequencing of SHH medulloblastoma predicts genotype-related response to smoothed inhibition. <i>Cancer Cell</i> , <b>2014</b> , 25, 393-405	24.3	469
93	Comprehensive characterization of complex structural variations in cancer by directly comparing genome sequence reads. <i>Nature Biotechnology</i> , <b>2014</b> , 32, 1106-12	44.5	62
92	TMPRSS2-ERG fusions are strongly linked to young patient age in low-grade prostate cancer. <i>European Urology</i> , <b>2014</b> , 66, 978-81	10.2	48
91	Intratumor DNA methylation heterogeneity reflects clonal evolution in aggressive prostate cancer. <i>Cell Reports</i> , <b>2014</b> , 8, 798-806	10.6	177
90	Enhancer hijacking activates GFI1 family oncogenes in medulloblastoma. <i>Nature</i> , <b>2014</b> , 511, 428-34	50.4	377
89	Natural variation in genome architecture among 205 <i>Drosophila melanogaster</i> Genetic Reference Panel lines. <i>Genome Research</i> , <b>2014</b> , 24, 1193-208	9.7	372
88	Clinical significance of different types of p53 gene alteration in surgically treated prostate cancer. <i>International Journal of Cancer</i> , <b>2014</b> , 135, 1369-80	7.5	85
87	A common microdeletion affecting a hippocampus- and amygdala-specific isoform of tryptophan hydroxylase 2 is not associated with affective disorders. <i>Bipolar Disorders</i> , <b>2014</b> , 16, 764-8	3.8	2
86	Targeted Deep Sequencing of Genetic Alterations Identified By Whole Exome Sequencing Reveals Clonal Evolution in Pediatric T-Lymphoblastic Leukemia. <i>Blood</i> , <b>2014</b> , 124, 491-491	2.2	
85	Recurrent somatic alterations of FGFR1 and NTRK2 in pilocytic astrocytoma. <i>Nature Genetics</i> , <b>2013</b> , 45, 927-32	36.3	550
84	Primate genome architecture influences structural variation mechanisms and functional consequences. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 15764-9	11.5	69
83	Whole-exome sequencing links caspase recruitment domain 11 (CARD11) inactivation to severe combined immunodeficiency. <i>Journal of Allergy and Clinical Immunology</i> , <b>2013</b> , 131, 1376-83.e3	11.5	103
82	Phenotypic impact of genomic structural variation: insights from and for human disease. <i>Nature Reviews Genetics</i> , <b>2013</b> , 14, 125-38	30.1	340
81	Identification of a Ninein (NIN) mutation in a family with spondyloepimetaphyseal dysplasia with joint laxity (leptodactylic type)-like phenotype. <i>Matrix Biology</i> , <b>2013</b> , 32, 387-92	11.4	12
80	Integrative genomic analyses reveal an androgen-driven somatic alteration landscape in early-onset prostate cancer. <i>Cancer Cell</i> , <b>2013</b> , 23, 159-70	24.3	259
79	Criteria for inference of chromothripsis in cancer genomes. <i>Cell</i> , <b>2013</b> , 152, 1226-36	56.2	342
78	Genomic deletion of MAP3K7 at 6q12-22 is associated with early PSA recurrence in prostate cancer and absence of TMPRSS2:ERG fusions. <i>Modern Pathology</i> , <b>2013</b> , 26, 975-83	9.8	121
77	The genomic and transcriptomic landscape of a HeLa cell line. <i>G3: Genes, Genomes, Genetics</i> , <b>2013</b> , 3, 1213-24	3.2	269



76	Impact of genomic structural variation in <i>Drosophila melanogaster</i> based on population-scale sequencing. <i>Genome Research</i> , <b>2013</b> , 23, 568-79	9.7	53
75	Whole Exome Sequencing Identifies Novel Lyst-Missense Mutations In Incomplete Childhood Chediak-Higashi-Syndrome Presenting As Hemphagocytic Lymphohistiocytosis (HLH). <i>Blood</i> , <b>2013</b> , 122, 3479-3479	2.2	
74	Whole Exome Sequencing In Relapsed Pediatric T-ALL: Progression Into Relapse Is Characterized By An Increased Number Of Somatic Mutations and a Conservation Of Mutations In Leukemogenic Driver Genes. <i>Blood</i> , <b>2013</b> , 122, 228-228	2.2	
73	A 15q24 microdeletion in transient myeloproliferative disease (TMD) and acute megakaryoblastic leukaemia (AMKL) implicates PML and SUMO3 in the leukaemogenesis of TMD/AMKL. <i>British Journal of Haematology</i> , <b>2012</b> , 157, 180-7	4.5	6
72	DELLY: structural variant discovery by integrated paired-end and split-read analysis. <i>Bioinformatics</i> , <b>2012</b> , 28, i333-i339	7.2	1069
71	Genome sequencing of pediatric medulloblastoma links catastrophic DNA rearrangements with TP53 mutations. <i>Cell</i> , <b>2012</b> , 148, 59-71	56.2	600
70	An integrated map of genetic variation from 1,092 human genomes. <i>Nature</i> , <b>2012</b> , 491, 56-65	50.4	6049
69	High-resolution genomic profiling of chronic lymphocytic leukemia reveals new recurrent genomic alterations. <i>Blood</i> , <b>2012</b> , 120, 4783-94	2.2	156
68	Recurrent mutation of the ID3 gene in Burkitt lymphoma identified by integrated genome, exome and transcriptome sequencing. <i>Nature Genetics</i> , <b>2012</b> , 44, 1316-20	36.3	317
67	Driver mutations in histone H3.3 and chromatin remodelling genes in paediatric glioblastoma. <i>Nature</i> , <b>2012</b> , 482, 226-31	50.4	1655
66	ICGC PedBrain - dissecting the genomic complexity underlying medulloblastoma using whole-genome sequencing. <i>BMC Proceedings</i> , <b>2012</b> , 6,	2.3	1
65	Dissecting the genomic complexity underlying medulloblastoma. <i>Nature</i> , <b>2012</b> , 488, 100-5	50.4	623
64	Subgroup-specific structural variation across 1,000 medulloblastoma genomes. <i>Nature</i> , <b>2012</b> , 488, 49-56	50.4	596
63	Whole-Exome Sequencing Links CARD11 Inactivation with SCID. <i>Blood</i> , <b>2012</b> , 120, 258-258	2.2	
62	Mapping copy number variation by population-scale genome sequencing. <i>Nature</i> , <b>2011</b> , 470, 59-65	50.4	833
61	Challenges in studying genomic structural variant formation mechanisms: the short-read dilemma and beyond. <i>BioEssays</i> , <b>2011</b> , 33, 840-50	4.1	30
60	Relating CNVs to transcriptome data at fine resolution: assessment of the effect of variant size, type, and overlap with functional regions. <i>Genome Research</i> , <b>2011</b> , 21, 2004-13	9.7	80
59	A comprehensive map of mobile element insertion polymorphisms in humans. <i>PLoS Genetics</i> , <b>2011</b> , 7, e1002236	6	218



58	International network of cancer genome projects. <i>Nature</i> , <b>2010</b> , 464, 993-8	50.4	1613
57	A map of human genome variation from population-scale sequencing. <i>Nature</i> , <b>2010</b> , 467, 1061-73	50.4	6142
56	Nucleotide-resolution analysis of structural variants using BreakSeq and a breakpoint library. <i>Nature Biotechnology</i> , <b>2010</b> , 28, 47-55	44.5	136
55	The baker@yeast diploid genome is remarkably stable in vegetative growth and meiosis. <i>PLoS Genetics</i> , <b>2010</b> , 6, e1001109	6	79
54	Systematic inference of copy-number genotypes from personal genome sequencing data reveals extensive olfactory receptor gene content diversity. <i>PLoS Computational Biology</i> , <b>2010</b> , 6, e1000988	5	54
53	Variation in transcription factor binding among humans. <i>Science</i> , <b>2010</b> , 328, 232-5	33.3	447
52	Potenzial und Herausforderungen der personalisierten Genomik und des 1000-Genom-Projekts. <i>Medizinische Genetik</i> , <b>2010</b> , 22, 242-247	0.5	
51	Quantifying environmental adaptation of metabolic pathways in metagenomics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 1374-9	11.5	148
50	Distinct genomic aberrations associated with ERG rearranged prostate cancer. <i>Genes Chromosomes and Cancer</i> , <b>2009</b> , 48, 366-80	5	72
49	The genetic architecture of Down syndrome phenotypes revealed by high-resolution analysis of human segmental trisomies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 12031-6	11.5	280
48	PEMer: a computational framework with simulation-based error models for inferring genomic structural variants from massive paired-end sequencing data. <i>Genome Biology</i> , <b>2009</b> , 10, R23	18.3	201
47	MSB: a mean-shift-based approach for the analysis of structural variation in the genome. <i>Genome Research</i> , <b>2009</b> , 19, 106-17	9.7	29
46	The current excitement about copy-number variation: how it relates to gene duplications and protein families. <i>Current Opinion in Structural Biology</i> , <b>2008</b> , 18, 366-74	8.1	78
45	Analysis of copy number variation in the rhesus macaque genome identifies candidate loci for evolutionary and human disease studies. <i>Human Molecular Genetics</i> , <b>2008</b> , 17, 1127-36	5.6	96
44	Analysis of copy number variants and segmental duplications in the human genome: Evidence for a change in the process of formation in recent evolutionary history. <i>Genome Research</i> , <b>2008</b> , 18, 1865-74	9.7	114
43	High-resolution copy-number variation map reflects human olfactory receptor diversity and evolution. <i>PLoS Genetics</i> , <b>2008</b> , 4, e1000249	6	87
42	What is a gene, post-ENCODE? History and updated definition. <i>Genome Research</i> , <b>2007</b> , 17, 669-81	9.7	417
41	Global identification and characterization of transcriptionally active regions in the rice genome. <i>PLoS ONE</i> , <b>2007</b> , 2, e294	3.7	63

40	Identification and analysis of functional elements in 1% of the human genome by the ENCODE pilot project. <i>Nature</i> , <b>2007</b> , 447, 799-816	50.4	4121
39	Paired-end mapping reveals extensive structural variation in the human genome. <i>Science</i> , <b>2007</b> , 318, 420-6	33.3	895
38	Systematic prediction and validation of breakpoints associated with copy-number variants in the human genome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 10110-5	11.5	70
37	The DART classification of unannotated transcription within the ENCODE regions: associating transcription with known and novel loci. <i>Genome Research</i> , <b>2007</b> , 17, 732-45	9.7	21
36	Structured RNAs in the ENCODE selected regions of the human genome. <i>Genome Research</i> , <b>2007</b> , 17, 852-64	9.7	131
35	Positive selection at the protein network periphery: evaluation in terms of structural constraints and cellular context. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 20274-9	11.5	111
34	Use of pathway analysis and genome context methods for functional genomics of <i>Mycoplasma pneumoniae</i> nucleotide metabolism. <i>Gene</i> , <b>2007</b> , 396, 215-25	3.8	13
33	Prediction of effective genome size in metagenomic samples. <i>Genome Biology</i> , <b>2007</b> , 8, R10	18.3	219
32	Similar gene expression profiles do not imply similar tissue functions. <i>Trends in Genetics</i> , <b>2006</b> , 22, 132-88.5		49
31	A supervised hidden markov model framework for efficiently segmenting tiling array data in transcriptional and chip-chip experiments: systematically incorporating validated biological knowledge. <i>Bioinformatics</i> , <b>2006</b> , 22, 3016-24	7.2	31
30	High-resolution mapping of DNA copy alterations in human chromosome 22 using high-density tiling oligonucleotide arrays. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 4534-9	11.5	112
29	Systematic association of genes to phenotypes by genome and literature mining. <i>PLoS Biology</i> , <b>2005</b> , 3, e134	9.7	119
28	The Helmholtz Network for Bioinformatics: an integrative web portal for bioinformatics resources. <i>Bioinformatics</i> , <b>2004</b> , 20, 268-70	7.2	6
27	Analysis of genomic context: prediction of functional associations from conserved bidirectionally transcribed gene pairs. <i>Nature Biotechnology</i> , <b>2004</b> , 22, 911-7	44.5	142
26	Transgene methylation in mice reflects copy number but not expression level. <i>Molecular Biotechnology</i> , <b>2004</b> , 26, 215-20	3	5
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23	Combining frequency and positional information to predict transcription factor binding sites. <i>Bioinformatics</i> , <b>2001</b> , 17, 1019-26	7.2	37

22	Extracting information from cDNA arrays. <i>Chaos</i> , <b>2001</b> , 11, 98-107	3.3	17
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- 3 Systems approaches identify the consequences of monosomy in somatic human cells 2
- 2 Automated assembly of high-quality diploid human reference genomes 3
- 1 Haplotype-resolved inversion landscape reveals hotspots of mutational recurrence associated with genomic disorders 2