

# Vineet Bafna

## 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.

184  
papers

38,431  
citations

56  
h-index

196  
g-index

211  
ext. papers

46,241  
ext. citations

9.7  
avg, IF

6.49  
L-index

#	Paper	IF	Citations
184	Optical genome mapping identifies rare structural variations as predisposition factors associated with severe COVID-19.. <i>iScience</i> , <b>2022</b> , 103760	6.1	1
183	Mapping clustered mutations in cancer reveals APOBEC3 mutagenesis of ecDNA.. <i>Nature</i> , <b>2022</b> ,	50.4	5
182	Uncertainty Quantification Using Subsampling for Assembly-Free Estimates of Genomic Distance and Phylogenetic Relationships. <i>Lecture Notes in Computer Science</i> , <b>2022</b> , 366-368	0.9	
181	FastViFi: Fast and accurate detection of (Hybrid) Viral DNA and RNA.. <i>NAR Genomics and Bioinformatics</i> , <b>2022</b> , 4, lqac032	3.7	
180	Estimating repeat spectra and genome length from low-coverage genome skims with RESPECT. <i>PLoS Computational Biology</i> , <b>2021</b> , 17, e1009449	5	4
179	Extrachromosomal DNA: An Emerging Hallmark in Human Cancer. <i>Annual Review of Pathology: Mechanisms of Disease</i> , <b>2021</b> ,	34	5
178	ecDNA hubs drive cooperative intermolecular oncogene expression. <i>Nature</i> , <b>2021</b> ,	50.4	18
177	Variable number tandem repeats mediate the expression of proximal genes. <i>Nature Communications</i> , <b>2021</b> , 12, 2075	17.4	10
176	FaNDOM: Fast nested distance-based seeding of optical maps. <i>Patterns</i> , <b>2021</b> , 2, 100248	5.1	4
175	CONSULT: accurate contamination removal using locality-sensitive hashing. <i>NAR Genomics and Bioinformatics</i> , <b>2021</b> , 3, lqab071	3.7	2
174	Extrachromosomal DNA (ecDNA) in cancer pathogenesis. <i>Current Opinion in Genetics and Development</i> , <b>2021</b> , 66, 78-82	4.9	9
173	Multiple mechanisms drive genomic adaptation to extreme O levels in <i>Drosophila melanogaster</i> . <i>Nature Communications</i> , <b>2021</b> , 12, 997	17.4	3
172	Extrachromosomal DNA in HPV-Mediated Oropharyngeal Cancer Drives Diverse Oncogene Transcription. <i>Clinical Cancer Research</i> , <b>2021</b> ,	12.9	3
171	Plasticity of extrachromosomal and intrachromosomal BRAF amplifications in overcoming targeted therapy dosage challenges.. <i>Cancer Discovery</i> , <b>2021</b> ,	24.4	1
170	The impact of contaminants on the accuracy of genome skimming and the effectiveness of exclusion read filters. <i>Molecular Ecology Resources</i> , <b>2020</b> , 20, 649	8.4	6
169	Longitudinal assessment of tumor development using cancer avatars derived from genetically engineered pluripotent stem cells. <i>Nature Communications</i> , <b>2020</b> , 11, 550	17.4	23
168	AmpliconReconstructor integrates NGS and optical mapping to resolve the complex structures of focal amplifications. <i>Nature Communications</i> , <b>2020</b> , 11, 4374	17.4	14

167	Extrachromosomal DNA is associated with oncogene amplification and poor outcome across multiple cancers. <i>Nature Genetics</i> , <b>2020</b> , 52, 891-897	36.3	79
166	Exploring the landscape of focal amplifications in cancer using AmpliconArchitect. <i>Nature Communications</i> , <b>2019</b> , 10, 392	17.4	59
165	NAD metabolic dependency in cancer is shaped by gene amplification and enhancer remodelling. <i>Nature</i> , <b>2019</b> , 569, 570-575	50.4	81
164	Proteogenomic Annotation of Chinese Hamsters Reveals Extensive Novel Translation Events and Endogenous Retroviral Elements. <i>Journal of Proteome Research</i> , <b>2019</b> , 18, 2433-2445	5.6	12
163	Extrachromosomal oncogene amplification in tumour pathogenesis and evolution. <i>Nature Reviews Cancer</i> , <b>2019</b> , 19, 283-288	31.3	108
162	Skmer: assembly-free and alignment-free sample identification using genome skims. <i>Genome Biology</i> , <b>2019</b> , 20, 34	18.3	37
161	Computing the Statistical Significance of Overlap between Genome Annotations with iStat. <i>Cell Systems</i> , <b>2019</b> , 8, 523-529.e4	10.6	2
160	EcSeg: Semantic Segmentation of Metaphase Images Containing Extrachromosomal DNA. <i>IScience</i> , <b>2019</b> , 21, 428-435	6.1	12
159	Circular ecDNA promotes accessible chromatin and high oncogene expression. <i>Nature</i> , <b>2019</b> , 575, 699-703	30.4	134
158	Novel insight into the genetic basis of high-altitude pulmonary hypertension in Kyrgyz highlanders. <i>European Journal of Human Genetics</i> , <b>2019</b> , 27, 150-159	5.3	7
157	Identifying the favored mutation in a positive selective sweep. <i>Nature Methods</i> , <b>2018</b> , 15, 279-282	21.6	33
156	MHC class I loaded ligands from breast cancer cell lines: A potential HLA-I-typed antigen collection. <i>Journal of Proteomics</i> , <b>2018</b> , 176, 13-23	3.9	17
155	ViFi: accurate detection of viral integration and mRNA fusion reveals indiscriminate and unregulated transcription in proximal genomic regions in cervical cancer. <i>Nucleic Acids Research</i> , <b>2018</b> , 46, 3309-3325	20.1	23
154	ProteoStorm: An Ultrafast Metaproteomics Database Search Framework. <i>Cell Systems</i> , <b>2018</b> , 7, 463-467.e6	6.6	18
153	Targeted genotyping of variable number tandem repeats with advNTR. <i>Genome Research</i> , <b>2018</b> , 28, 1709-1719	26	26
152	Extrachromosomal oncogene amplification drives tumour evolution and genetic heterogeneity. <i>Nature</i> , <b>2017</b> , 543, 122-125	50.4	260
151	Clear: Composition of Likelihoods for Evolve and Resequencing Experiments. <i>Genetics</i> , <b>2017</b> , 206, 1011-1023	17	17
150	HapCUT2: robust and accurate haplotype assembly for diverse sequencing technologies. <i>Genome Research</i> , <b>2017</b> , 27, 801-812	9.7	161

149	Ultraaccurate genome sequencing and haplotyping of single human cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 12512-12517	11.5	27
148	High-altitude adaptation in humans: from genomics to integrative physiology. <i>Journal of Molecular Medicine</i> , <b>2017</b> , 95, 1269-1282	5.5	43
147	The Antibody Repertoire of Colorectal Cancer. <i>Molecular and Cellular Proteomics</i> , <b>2017</b> , 16, 2111-2124	7.6	3
146	New Insights into the Genetic Basis of Monge's Disease and Adaptation to High-Altitude. <i>Molecular Biology and Evolution</i> , <b>2017</b> , 34, 3154-3168	8.3	19
145	Senp1 drives hypoxia-induced polycythemia via GATA1 and Bcl-xL in subjects with Monge's disease. <i>Journal of Experimental Medicine</i> , <b>2016</b> , 213, 2729-2744	16.6	22
144	Integrated Proteogenomic Characterization of Human High-Grade Serous Ovarian Cancer. <i>Cell</i> , <b>2016</b> , 166, 755-765	56.2	544
143	Diversity, Productivity, and Stability of an Industrial Microbial Ecosystem. <i>Applied and Environmental Microbiology</i> , <b>2016</b> , 82, 2494-2505	4.8	34
142	InPhaDel: integrative shotgun and proximity-ligation sequencing to phase deletions with single nucleotide polymorphisms. <i>Nucleic Acids Research</i> , <b>2016</b> , 44, e111	20.1	1
141	Endothelin receptor B, a candidate gene from human studies at high altitude, improves cardiac tolerance to hypoxia in genetically engineered heterozygote mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 10425-30	11.5	35
140	Advanced Proteogenomic Analysis Reveals Multiple Peptide Mutations and Complex Immunoglobulin Peptides in Colon Cancer. <i>Journal of Proteome Research</i> , <b>2015</b> , 14, 3555-67	5.6	22
139	Haplotype Allele Frequency (HAF) Score: Predicting Carriers of Ongoing Selective Sweeps Without Knowledge of the Adaptive Allele. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 276-280	0.9	1
138	A global reference for human genetic variation. <i>Nature</i> , <b>2015</b> , 526, 68-74	50.4	8599
137	Reconstructing breakage fusion bridge architectures using noisy copy numbers. <i>Journal of Computational Biology</i> , <b>2015</b> , 22, 577-94	1.7	7
136	Next-Generation Sequencing of Plasmodium vivax Patient Samples Shows Evidence of Direct Evolution in Drug-Resistance Genes. <i>ACS Infectious Diseases</i> , <b>2015</b> , 1, 367-79	5.5	22
135	Genetic simulation tools for post-genome wide association studies of complex diseases. <i>Genetic Epidemiology</i> , <b>2015</b> , 39, 11-19	2.6	15
134	Predicting Carriers of Ongoing Selective Sweeps without Knowledge of the Favored Allele. <i>PLoS Genetics</i> , <b>2015</b> , 11, e1005527	6	13
133	The TGF $\beta$ Promoter SNP C-509T and Food Sensitization Promote Esophageal Remodeling in Pediatric Eosinophilic Esophagitis. <i>PLoS ONE</i> , <b>2015</b> , 10, e0144651	3.7	20
132	Using Genome Query Language to uncover genetic variation. <i>Bioinformatics</i> , <b>2014</b> , 30, 1-8	7.2	82

131	An automated proteogenomic method uses mass spectrometry to reveal novel genes in <i>Zea mays</i> . <i>Molecular and Cellular Proteomics</i> , <b>2014</b> , 13, 157-67	7.6	69
130	Annotation of the zebrafish genome through an integrated transcriptomic and proteomic analysis. <i>Molecular and Cellular Proteomics</i> , <b>2014</b> , 13, 3184-98	7.6	40
129	Proteogenomic database construction driven from large scale RNA-seq data. <i>Journal of Proteome Research</i> , <b>2014</b> , 13, 21-8	5.6	90
128	The genetic basis of chronic mountain sickness. <i>Physiology</i> , <b>2014</b> , 29, 403-12	9.8	21
127	Proteogenomic strategies for identification of aberrant cancer peptides using large-scale next-generation sequencing data. <i>Proteomics</i> , <b>2014</b> , 14, 2719-30	4.8	47
126	Amplification and thrifty single-molecule sequencing of recurrent somatic structural variations. <i>Genome Research</i> , <b>2014</b> , 24, 318-28	9.7	15
125	The elusive evidence for chromothripsis. <i>Nucleic Acids Research</i> , <b>2014</b> , 42, 8231-42	20.1	30
124	Inferring gene ontologies from pairwise similarity data. <i>Bioinformatics</i> , <b>2014</b> , 30, i34-42	7.2	57
123	Whole genome sequencing of Ethiopian highlanders reveals conserved hypoxia tolerance genes. <i>Genome Biology</i> , <b>2014</b> , 15, R36	18.3	59
122	Reconstructing Breakage Fusion Bridge Architectures Using Noisy Copy Numbers. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 400-417	0.9	1
121	Evaluating genome architecture of a complex region via generalized bipartite matching. <i>BMC Bioinformatics</i> , <b>2013</b> , 14 Suppl 5, S13	3.6	1
120	Whole-genome sequencing uncovers the genetic basis of chronic mountain sickness in Andean highlanders. <i>American Journal of Human Genetics</i> , <b>2013</b> , 93, 452-62	11	90
119	Learning natural selection from the site frequency spectrum. <i>Genetics</i> , <b>2013</b> , 195, 181-93	4	78
118	Virmid: accurate detection of somatic mutations with sample impurity inference. <i>Genome Biology</i> , <b>2013</b> , 14, R90	18.3	50
117	On the design of clone-based haplotyping. <i>Genome Biology</i> , <b>2013</b> , 14, R100	18.3	17
116	An algorithmic approach for breakage-fusion-bridge detection in tumor genomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 5546-51	11.5	39
115	Reprever: resolving low-copy duplicated sequences using template driven assembly. <i>Nucleic Acids Research</i> , <b>2013</b> , 41, e128	20.1	5
114	Wessim: a whole-exome sequencing simulator based on in silico exome capture. <i>Bioinformatics</i> , <b>2013</b> , 29, 1076-7	7.2	26

113	Abstractions for Genomics. <i>Communications of the ACM</i> , <b>2013</b> , 56, 83-93	2.5	9
112	Cerulean: A Hybrid Assembly Using High Throughput Short and Long Reads. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 349-363	0.9	21
111	Learning Natural Selection from the Site Frequency Spectrum. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 230-233	0.9	0
110	An integrated map of genetic variation from 1,092 human genomes. <i>Nature</i> , <b>2012</b> , 491, 56-65	50.4	6049
109	De novo somatic mutations in components of the PI3K-AKT3-mTOR pathway cause hemimegalencephaly. <i>Nature Genetics</i> , <b>2012</b> , 44, 941-5	36.3	505
108	Global DNA hypomethylation coupled to repressive chromatin domain formation and gene silencing in breast cancer. <i>Genome Research</i> , <b>2012</b> , 22, 246-58	9.7	385
107	Protein identification using top-down. <i>Molecular and Cellular Proteomics</i> , <b>2012</b> , 11, M111.008524	7.6	112
106	Accurate mass spectrometry based protein quantification via shared peptides. <i>Journal of Computational Biology</i> , <b>2012</b> , 19, 337-48	1.7	31
105	Combinatorics of the breakage-fusion-bridge mechanism. <i>Journal of Computational Biology</i> , <b>2012</b> , 19, 662-78	1.7	14
104	Speeding up tandem mass spectral identification using indexes. <i>Bioinformatics</i> , <b>2012</b> , 28, 1692-7	7.2	10
103	Exome sequencing can improve diagnosis and alter patient management. <i>Science Translational Medicine</i> , <b>2012</b> , 4, 138ra78	17.5	191
102	iDASH: integrating data for analysis, anonymization, and sharing. <i>Journal of the American Medical Informatics Association: JAMIA</i> , <b>2012</b> , 19, 196-201	8.6	114
101	Sample reproducibility of genetic association using different multimer TDTs in genome-wide association studies: characterization and a new approach. <i>PLoS ONE</i> , <b>2012</b> , 7, e29613	3.7	4
100	Automated querying and identification of novel peptides using MALDI mass spectrometric imaging. <i>Journal of Proteome Research</i> , <b>2011</b> , 10, 1915-28	5.6	28
99	AMASS: algorithm for MSI analysis by semi-supervised segmentation. <i>Journal of Proteome Research</i> , <b>2011</b> , 10, 4734-43	5.6	22
98	Tests of selection in pooled case-control data: an empirical study. <i>Frontiers in Genetics</i> , <b>2011</b> , 2, 83	4.5	3
97	Strobe sequence design for haplotype assembly. <i>BMC Bioinformatics</i> , <b>2011</b> , 12 Suppl 1, S24	3.6	15
96	Resurrection of a clinical antibody: template proteogenomic de novo proteomic sequencing and reverse engineering of an anti-lymphotoxin- $\beta$ antibody. <i>Proteomics</i> , <b>2011</b> , 11, 395-405	4.8	25

95	TCLUST: a fast method for clustering genome-scale expression data. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2011</b> , 8, 808-18	3	12
94	On the Approximability of Reachability-Preserving Network Orientations. <i>Internet Mathematics</i> , <b>2011</b> , 7, 209-232	0	5
93	Practical 4Sphosphopantetheine active site discovery from proteomic samples. <i>Journal of Proteome Research</i> , <b>2011</b> , 10, 320-9	5.6	14
92	Compressing genomic sequence fragments using SlimGene. <i>Journal of Computational Biology</i> , <b>2011</b> , 18, 401-13	1.7	57
91	Experimental selection of hypoxia-tolerant <i>Drosophila melanogaster</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 2349-54	11.5	85
90	Sensitive gene fusion detection using ambiguously mapping RNA-Seq read pairs. <i>Bioinformatics</i> , <b>2011</b> , 27, 1068-75	7.2	48
89	Deconvolution and database search of complex tandem mass spectra of intact proteins: a combinatorial approach. <i>Molecular and Cellular Proteomics</i> , <b>2010</b> , 9, 2772-82	7.6	130
88	Template proteogenomics: sequencing whole proteins using an imperfect database. <i>Molecular and Cellular Proteomics</i> , <b>2010</b> , 9, 1260-70	7.6	40
87	Protein-protein interaction network evaluation for identifying potential drug targets. <i>Journal of Computational Biology</i> , <b>2010</b> , 17, 669-84	1.7	24
86	A covering method for detecting genetic associations between rare variants and common phenotypes. <i>PLoS Computational Biology</i> , <b>2010</b> , 6, e1000954	5	73
85	RAPID detection of gene-gene interactions in genome-wide association studies. <i>Bioinformatics</i> , <b>2010</b> , 26, 2856-62	7.2	28
84	Population sequencing of two endocannabinoid metabolic genes identifies rare and common regulatory variants associated with extreme obesity and metabolite level. <i>Genome Biology</i> , <b>2010</b> , 11, R118	18.3	23
83	Deciphering the genetic basis of common diseases by integrated functional annotation of common and rare variants. <i>Genome Biology</i> , <b>2010</b> , 11,	18.3	78
82	Expansion of the mycobacterial "PUPylome". <i>Molecular BioSystems</i> , <b>2010</b> , 6, 376-85		75
81	Optimizing PCR assays for DNA-based cancer diagnostics. <i>Journal of Computational Biology</i> , <b>2010</b> , 17, 369-81	1.7	4
80	Designing deep sequencing experiments: detecting structural variation and estimating transcript abundance. <i>BMC Genomics</i> , <b>2010</b> , 11, 385	4.5	20
79	Construction of a medicinal leech transcriptome database and its application to the identification of leech homologs of neural and innate immune genes. <i>BMC Genomics</i> , <b>2010</b> , 11, 407	4.5	44
78	Proteogenomics to discover the full coding content of genomes: a computational perspective. <i>Journal of Proteomics</i> , <b>2010</b> , 73, 2124-35	3.9	132

77	Compressing Genomic Sequence Fragments Using SlimGene. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 310-324	0.9	7
76	Fast and accurate alignment of multiple protein networks. <i>Journal of Computational Biology</i> , <b>2009</b> , 16, 989-99	1.7	47
75	Sequence and structural variation in a human genome uncovered by short-read, massively parallel ligation sequencing using two-base encoding. <i>Genome Research</i> , <b>2009</b> , 19, 1527-41	9.7	401
74	Shared Peptides in Mass Spectrometry Based Protein Quantification. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 356-371	0.9	4
73	Optimizing PCR Assays for DNA Based Cancer Diagnostics. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 220-235	0.9	4
72	Accurate annotation of peptide modifications through unrestrictive database search. <i>Journal of Proteome Research</i> , <b>2008</b> , 7, 170-81	5.6	47
71	Phosphorylation-specific MS/MS scoring for rapid and accurate phosphoproteome analysis. <i>Journal of Proteome Research</i> , <b>2008</b> , 7, 3373-81	5.6	45
70	HapCUT: an efficient and accurate algorithm for the haplotype assembly problem. <i>Bioinformatics</i> , <b>2008</b> , 24, i153-9	7.2	198
69	A multidimensional chromatography technology for in-depth phosphoproteome analysis. <i>Molecular and Cellular Proteomics</i> , <b>2008</b> , 7, 1389-96	7.6	392
68	QNet: a tool for querying protein interaction networks. <i>Journal of Computational Biology</i> , <b>2008</b> , 15, 913-25	1.7	18
67	Discovery and revision of Arabidopsis genes by proteogenomics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 21034-8	11.5	226
66	Evaluation of paired-end sequencing strategies for detection of genome rearrangements in cancer. <i>PLoS Computational Biology</i> , <b>2008</b> , 4, e1000051	5	63
65	Comparative proteogenomics: combining mass spectrometry and comparative genomics to analyze multiple genomes. <i>Genome Research</i> , <b>2008</b> , 18, 1133-42	9.7	90
64	An MCMC algorithm for haplotype assembly from whole-genome sequence data. <i>Genome Research</i> , <b>2008</b> , 18, 1336-46	9.7	88
63	Structural alignment of pseudoknotted RNA. <i>Journal of Computational Biology</i> , <b>2008</b> , 15, 489-504	1.7	18
62	Fast and Accurate Alignment of Multiple Protein Networks <b>2008</b> , 246-256		28
61	An Algorithm for Orienting Graphs Based on Cause-Effect Pairs and Its Applications to Orienting Protein Networks. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 222-232	0.9	23
60	Whole proteome analysis of post-translational modifications: applications of mass-spectrometry for proteogenomic annotation. <i>Genome Research</i> , <b>2007</b> , 17, 1362-77	9.7	155



59	The Sorcerer II Global Ocean Sampling expedition: expanding the universe of protein families. <i>PLoS Biology</i> , <b>2007</b> , 5, e16	9.7	638
58	Evidence for large inversion polymorphisms in the human genome from HapMap data. <i>Genome Research</i> , <b>2007</b> , 17, 219-30	9.7	51
57	The diploid genome sequence of an individual human. <i>PLoS Biology</i> , <b>2007</b> , 5, e254	9.7	1249
56	A decomposition theory for phylogenetic networks and incompatible characters. <i>Journal of Computational Biology</i> , <b>2007</b> , 14, 1247-72	1.7	36
55	Optimization of primer design for the detection of variable genomic lesions in cancer. <i>Bioinformatics</i> , <b>2007</b> , 23, 2807-15	7.2	16
54	Improving gene annotation using peptide mass spectrometry. <i>Genome Research</i> , <b>2007</b> , 17, 231-9	9.7	144
53	QNet: A Tool for Querying Protein Interaction Networks. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 1-15	0.9	26
52	A sequence-based filtering method for ncRNA identification and its application to searching for riboswitch elements. <i>Bioinformatics</i> , <b>2006</b> , 22, e557-65	7.2	23
51	Structural Alignment of Pseudoknotted RNA. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 143-158	0.9	2
50	Consensus folding of unaligned RNA sequences revisited. <i>Journal of Computational Biology</i> , <b>2006</b> , 13, 283-95	1.7	23
49	Inference about recombination from haplotype data: lower bounds and recombination hotspots. <i>Journal of Computational Biology</i> , <b>2006</b> , 13, 501-21	1.7	13
48	Age-related changes in human crystallins determined from comparative analysis of post-translational modifications in young and aged lens: does deamidation contribute to crystallin insolubility?. <i>Journal of Proteome Research</i> , <b>2006</b> , 5, 2554-66	5.6	224
47	Unrestrictive identification of post-translational modifications through peptide mass spectrometry. <i>Nature Protocols</i> , <b>2006</b> , 1, 67-72	18.8	32
46	Searching genomes for noncoding RNA using FastR. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2005</b> , 2, 366-79	3	37
45	Identification of post-translational modifications via blind search of mass-spectra <b>2005</b> , 157-66		13
44	Peptide sequence tags for fast database search in mass-spectrometry. <i>Journal of Proteome Research</i> , <b>2005</b> , 4, 1287-95	5.6	103
43	InsPecT: identification of posttranslationally modified peptides from tandem mass spectra. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 4626-39	7.8	502
42	Identification of post-translational modifications by blind search of mass spectra. <i>Nature Biotechnology</i> , <b>2005</b> , 23, 1562-7	44.5	231

41	Polynomial and APX-hard cases of the individual haplotyping problem. <i>Theoretical Computer Science</i> , <b>2005</b> , 335, 109-125	1.1	36
40	Improved Recombination Lower Bounds for Haplotype Data. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 569-584	0.9	7
39	Orthologous repeats and mammalian phylogenetic inference. <i>Genome Research</i> , <b>2005</b> , 15, 998-1006	9.7	32
38	A note on efficient computation of haplotypes via perfect phylogeny. <i>Journal of Computational Biology</i> , <b>2004</b> , 11, 858-66	1.7	25
37	Optimal haplotype block-free selection of tagging SNPs for genome-wide association studies. <i>Genome Research</i> , <b>2004</b> , 14, 1633-40	9.7	84
36	FastR: fast database search tool for non-coding RNA <b>2004</b> , 52-61		13
35	The number of recombination events in a sample history: conflict graph and lower bounds. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2004</b> , 1, 78-90	3	31
34	Shotgun protein sequencing by tandem mass spectra assembly. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 7221-33	7.8	44
33	A Survey of Computational Methods for Determining Haplotypes. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 26-47	0.9	55
32	The dog genome: survey sequencing and comparative analysis. <i>Science</i> , <b>2003</b> , 301, 1898-903	33.3	422
31	Haplotyping as perfect phylogeny: a direct approach. <i>Journal of Computational Biology</i> , <b>2003</b> , 10, 323-40	1.7	91
30	Robustness of inference of haplotype block structure. <i>Journal of Computational Biology</i> , <b>2003</b> , 10, 13-9	1.7	51
29	Haplotypes and informative SNP selection algorithms <b>2003</b> ,		33
28	Combinatorial Problems Arising in SNP and Haplotype Analysis. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 26-47	0.9	11
27	Practical Algorithms and Fixed-Parameter Tractability for the Single Individual SNP Haplotyping Problem. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 29-43	0.9	38
26	The sequence of the human genome. <i>Science</i> , <b>2001</b> , 291, 1304-51	33.3	10609
25	SCOPE: a probabilistic model for scoring tandem mass spectra against a peptide database. <i>Bioinformatics</i> , <b>2001</b> , 17 Suppl 1, S13-21	7.2	134
24	SNPs Problems, Complexity, and Algorithms. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 182-193	0.9	80

23	Ligand-receptor pairing via tree comparison. <i>Journal of Computational Biology</i> , <b>2000</b> , 7, 59-70	1.7	10
22	A Polynomial-Time Approximation Scheme for Minimum Routing Cost Spanning Trees. <i>SIAM Journal on Computing</i> , <b>2000</b> , 29, 761-778	1.1	78
21	A 2-Approximation Algorithm for the Undirected Feedback Vertex Set Problem. <i>SIAM Journal on Discrete Mathematics</i> , <b>1999</b> , 12, 289-297	0.7	215
20	Sorting by Transpositions. <i>SIAM Journal on Discrete Mathematics</i> , <b>1998</b> , 11, 224-240	0.7	258
19	On the Approximability of Numerical Taxonomy (Fitting Distances by Tree Metrics). <i>SIAM Journal on Computing</i> , <b>1998</b> , 28, 1073-1085	1.1	52
18	Detecting non-adjointing correlations with signals in DNA <b>1998</b> ,		12
17	Human beta-defensin 2 is a salt-sensitive peptide antibiotic expressed in human lung. <i>Journal of Clinical Investigation</i> , <b>1998</b> , 102, 874-80	15.9	449
16	Approximation algorithms for multiple sequence alignment. <i>Theoretical Computer Science</i> , <b>1997</b> , 182, 233-244	1.1	29
15	Genome Rearrangements and Sorting by Reversals. <i>SIAM Journal on Computing</i> , <b>1996</b> , 25, 272-289	1.1	252
14	Nonoverlapping local alignments (weighted independent sets of axis-parallel rectangles). <i>Discrete Applied Mathematics</i> , <b>1996</b> , 71, 41-53	1	45
13	Sorting by Reversals: Genome Rearrangements in Plant Organelles and Evolutionary History of X Chromosome. <i>Molecular Biology and Evolution</i> , <b>1995</b> ,	8.3	1
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11	Computing similarity between RNA strings. <i>Lecture Notes in Computer Science</i> , <b>1995</b> , 1-16	0.9	30
10	Parallel implementation of logic languages. <i>Lecture Notes in Computer Science</i> , <b>1990</b> , 154-165	0.9	
9	Targeted profiling of human extrachromosomal DNA by CRISPR-CATCH		1
8	Frequent extrachromosomal oncogene amplification drives aggressive tumors		1
7	AmpliconReconstructor: Integrated analysis of NGS and optical mapping resolves the complex structures of focal amplifications in cancer		1
6	Fine-mapping the Favored Mutation in a Positive Selective Sweep		4

5	Variable Number Tandem Repeats mediate the expression of proximal genes	2
4	EcDNA hubs drive cooperative intermolecular oncogene expression	3
3	Assembly-free and alignment-free sample identification using genome skims	1
2	Principles of ecDNA random inheritance drive rapid genome change and therapy resistance in human cancers	4
1	Estimating repeat spectra and genome length from low-coverage genome skims with RESPECT	2