Paul Medvedev

List of Publications by Year in descending order

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DALII MEDVEDEV

#	Article	IF	CITATIONS
1	Towards complete and error-free genome assemblies of all vertebrate species. Nature, 2021, 592, 737-746.	27.8	1,139
2	Informed and automated <i>k</i> -mer size selection for genome assembly. Bioinformatics, 2014, 30, 31-37.	4.1	623
3	Computational methods for discovering structural variation with next-generation sequencing. Nature Methods, 2009, 6, S13-S20.	19.0	473
4	Compacting de Bruijn graphs from sequencing data quickly and in low memory. Bioinformatics, 2016, 32, i201-i208.	4.1	170
5	Detecting copy number variation with mated short reads. Genome Research, 2010, 20, 1613-1622.	5.5	150
6	A time- and cost-effective strategy to sequence mammalian Y Chromosomes: an application to the de novo assembly of gorilla Y. Genome Research, 2016, 26, 530-540.	5.5	99
7	Y and W Chromosome Assemblies: Approaches and Discoveries. Trends in Genetics, 2017, 33, 266-282.	6.7	95
8	Error correction enables use of Oxford Nanopore technology for reference-free transcriptome analysis. Nature Communications, 2021, 12, 2.	12.8	94
9	Maximum Likelihood Genome Assembly. Journal of Computational Biology, 2009, 16, 1101-1116.	1.6	87
10	Accurate typing of short tandem repeats from genome-wide sequencing data and its applications. Genome Research, 2015, 25, 736-749.	5.5	87
11	Data structures based on <i>k</i> -mers for querying large collections of sequencing data sets. Genome Research, 2021, 31, 1-12.	5.5	67
12	TwoPaCo: an efficient algorithm to build the compacted de Bruijn graph from many complete genomes. Bioinformatics, 2017, 33, 4024-4032.	4.1	64
13	Paired de Bruijn Graphs: A Novel Approach for Incorporating Mate Pair Information into Genome Assemblers. Journal of Computational Biology, 2011, 18, 1625-1634.	1.6	60
14	De Novo Clustering of Long-Read Transcriptome Data Using a Greedy, Quality Value-Based Algorithm. Journal of Computational Biology, 2020, 27, 472-484.	1.6	55
15	Deciphering highly similar multigene family transcripts from Iso-Seq data with IsoCon. Nature Communications, 2018, 9, 4601.	12.8	54
16	Giraffe genome sequence reveals clues to its unique morphology and physiology. Nature Communications, 2016, 7, 11519.	12.8	47
17	On the Representation of De Bruijn Graphs. Journal of Computational Biology, 2015, 22, 336-352.	1.6	44
18	Scalable multiple whole-genome alignment and locally collinear block construction with SibeliaZ. Nature Communications, 2020, 11, 6327.	12.8	39

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19	Improved representation of sequence bloom trees. Bioinformatics, 2020, 36, 721-727.	4.1	36
20	AllSome Sequence Bloom Trees. Journal of Computational Biology, 2018, 25, 467-479.	1.6	25
21	Toward fast and accurate SNP genotyping from whole genome sequencing data for bedside diagnostics. Bioinformatics, 2019, 35, 415-420.	4.1	24
22	Dynamic evolution of great ape Y chromosomes. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26273-26280.	7.1	22
23	Safe and Complete Contig Assembly Through Omnitigs. Journal of Computational Biology, 2017, 24, 590-602.	1.6	20
24	Dosage regulation, and variation in gene expression and copy number ofÂhuman Y chromosome ampliconic genes. PLoS Genetics, 2019, 15, e1008369.	3.5	19
25	kmtricks: efficient and flexible construction of Bloom filters for large sequencing data collections. Bioinformatics Advances, 2022, 2, .	2.4	19
26	The Statistics of <i>k</i> -mers from a Sequence Undergoing a Simple Mutation Process Without Spurious Matches. Journal of Computational Biology, 2022, 29, 155-168.	1.6	17
27	Correcting palindromes in long reads after whole-genome amplification. BMC Genomics, 2018, 19, 798.	2.8	16
28	DiscoverY: a classifier for identifying Y chromosome sequences in male assemblies. BMC Genomics, 2019, 20, 641.	2.8	16
29	VarMatch: robust matching of small variant datasets using flexible scoring schemes. Bioinformatics, 2017, 33, 1301-1308.	4.1	15
30	RecoverY: <i>k</i> -mer-based read classification for Y-chromosome-specific sequencing and assembly. Bioinformatics, 2018, 34, 1125-1131.	4.1	15
31	Ampliconic Genes on the Great Ape Y Chromosomes: Rapid Evolution of Copy Number but Conservation of Expression Levels. Genome Biology and Evolution, 2020, 12, 842-859.	2.5	13
32	Representation of \$\$k\$\$-mer Sets Using Spectrum-Preserving String Sets. Lecture Notes in Computer Science, 2020, , 152-168.	1.3	12
33	The minimizer Jaccard estimator is biased and inconsistent. Bioinformatics, 2022, 38, i169-i176.	4.1	12
34	De Novo Clustering of Long-Read Transcriptome Data Using a Greedy, Quality-Value Based Algorithm. Lecture Notes in Computer Science, 2019, , 227-242.	1.3	11
35	Modeling biological problems in computer science: a case study in genome assembly. Briefings in Bioinformatics, 2019, 20, 1376-1383.	6.5	11
36	Scalable Pairwise Whole-Genome Homology Mapping of Long Genomes with BubbZ. IScience, 2020, 23, 101224.	4.1	11

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37	Disk compression of k-mer sets. Algorithms for Molecular Biology, 2021, 16, 10.	1.2	8
38	Reprever: resolving low-copy duplicated sequences using template driven assembly. Nucleic Acids Research, 2013, 41, e128-e128.	14.5	7
39	What do Eulerian and Hamiltonian cycles have to do with genome assembly?. PLoS Computational Biology, 2021, 17, e1008928.	3.2	7
40	Improving the Power of Structural Variation Detection by Augmenting the Reference. PLoS ONE, 2015, 10, e0136771.	2.5	6
41	Rearrangement Models and Single-Cut Operations. Journal of Computational Biology, 2010, 17, 1213-1225.	1.6	5
42	A combinatorial approach to the design of vaccines. Journal of Mathematical Biology, 2015, 70, 1327-1358.	1.9	5
43	The plane-width of graphs. Journal of Graph Theory, 2011, 68, 229-245.	0.9	2
44	Recombination Marks the Evolutionary Dynamics of a Recently Endogenized Retrovirus. Molecular Biology and Evolution, 2021, 38, 5423-5436.	8.9	2
45	Ten Simple Rules for writing algorithmic bioinformatics conference papers. PLoS Computational Biology, 2020, 16, e1007742.	3.2	0
46	Markov chains improve the significance computation of overlapping genome annotations. Bioinformatics, 2022, 38, i203-i211.	4.1	0