

# Cedric Notredame

## List of Publications by Year in descending order

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Version: 2024-02-01

100  
papers

40,423  
citations

46984

47  
h-index

37183

96  
g-index

110  
all docs

110  
docs citations

110  
times ranked

65411  
citing authors

#	ARTICLE	IF	CITATIONS
1	An integrated encyclopedia of DNA elements in the human genome. <i>Nature</i> , 2012, 489, 57-74.	13.7	15,516
2	T-coffee: a novel method for fast and accurate multiple sequence alignment 1 Edited by J. Thornton. <i>Journal of Molecular Biology</i> , 2000, 302, 205-217.	2.0	6,404
3	The GENCODE v7 catalog of human long noncoding RNAs: Analysis of their gene structure, evolution, and expression. <i>Genome Research</i> , 2012, 22, 1775-1789.	2.4	4,428
4	Nextflow enables reproducible computational workflows. <i>Nature Biotechnology</i> , 2017, 35, 316-319.	9.4	1,867
5	Long Noncoding RNAs with Enhancer-like Function in Human Cells. <i>Cell</i> , 2010, 143, 46-58.	13.5	1,664
6	A comparative encyclopedia of DNA elements in the mouse genome. <i>Nature</i> , 2014, 515, 355-364.	13.7	1,444
7	T-Coffee: a web server for the multiple sequence alignment of protein and RNA sequences using structural information and homology extension. <i>Nucleic Acids Research</i> , 2011, 39, W13-W17.	6.5	982
8	M-Coffee: combining multiple sequence alignment methods with T-Coffee. <i>Nucleic Acids Research</i> , 2006, 34, 1692-1699.	6.5	533
9	Expresso: automatic incorporation of structural information in multiple sequence alignments using 3D-Coffee. <i>Nucleic Acids Research</i> , 2006, 34, W604-W608.	6.5	448
10	SAGA: sequence alignment by genetic algorithm. <i>Nucleic Acids Research</i> , 1996, 24, 1515-1524.	6.5	416
11	Multi-Platform Next-Generation Sequencing of the Domestic Turkey ( <i>Meleagris gallopavo</i> ): Genome Assembly and Analysis. <i>PLoS Biology</i> , 2010, 8, e1000475.	2.6	348
12	Coordinated international action to accelerate genome-to-phenome with FAANG, the Functional Annotation of Animal Genomes project. <i>Genome Biology</i> , 2015, 16, 57.	3.8	331
13	Epistasis as the primary factor in molecular evolution. <i>Nature</i> , 2012, 490, 535-538.	13.7	325
14	3DCoffee: Combining Protein Sequences and Structures within Multiple Sequence Alignments. <i>Journal of Molecular Biology</i> , 2004, 340, 385-395.	2.0	302
15	Recent progress in multiple sequence alignment: a survey. <i>Pharmacogenomics</i> , 2002, 3, 131-144.	0.6	289
16	CARMEN, a human super enhancer-associated long noncoding RNA controlling cardiac specification, differentiation and homeostasis. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 89, 98-112.	0.9	223
17	Identification of a novel microRNA (miRNA) from rice that targets an alternatively spliced transcript of the <i>ramp6</i> (natural) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 5 <i>Phytologist</i> , 2013, 199, 212-227.	3.5	221
18	Tcoffee@igs: a web server for computing, evaluating and combining multiple sequence alignments. <i>Nucleic Acids Research</i> , 2003, 31, 3503-3506.	6.5	214

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19	The M-Coffee web server: a meta-method for computing multiple sequence alignments by combining alternative alignment methods. <i>Nucleic Acids Research</i> , 2007, 35, W645-W648.	6.5	209
20	A field guide for the compositional analysis of any-omics data. <i>GigaScience</i> , 2019, 8, .	3.3	187
21	TCS: A New Multiple Sequence Alignment Reliability Measure to Estimate Alignment Accuracy and Improve Phylogenetic Tree Reconstruction. <i>Molecular Biology and Evolution</i> , 2014, 31, 1625-1637.	3.5	183
22	Upcoming challenges for multiple sequence alignment methods in the high-throughput era. <i>Bioinformatics</i> , 2009, 25, 2455-2465.	1.8	181
23	Recent Evolutions of Multiple Sequence Alignment Algorithms. <i>PLoS Computational Biology</i> , 2007, 3, e123.	1.5	171
24	Genome and transcriptome analysis of the Mesoamerican common bean and the role of gene duplications in establishing tissue and temporal specialization of genes. <i>Genome Biology</i> , 2016, 17, 32.	3.8	166
25	Multiple sequence alignment modeling: methods and applications. <i>Briefings in Bioinformatics</i> , 2016, 17, 1009-1023.	3.2	153
26	Accurate multiple sequence alignment of transmembrane proteins with PSI-Coffee. <i>BMC Bioinformatics</i> , 2012, 13, S1.	1.2	148
27	3DCoffee@igs: a web server for combining sequences and structures into a multiple sequence alignment. <i>Nucleic Acids Research</i> , 2004, 32, W37-W40.	6.5	143
28	AMPA: an automated web server for prediction of protein antimicrobial regions. <i>Bioinformatics</i> , 2012, 28, 130-131.	1.8	140
29	Extreme genomic erosion after recurrent demographic bottlenecks in the highly endangered Iberian lynx. <i>Genome Biology</i> , 2016, 17, 251.	3.8	131
30	Exploring the gonad transcriptome of two extreme male pigs with RNA-seq. <i>BMC Genomics</i> , 2011, 12, 552.	1.2	127
31	R-Coffee: a method for multiple alignment of non-coding RNA. <i>Nucleic Acids Research</i> , 2008, 36, e52-e52.	6.5	116
32	Alignathon: a competitive assessment of whole-genome alignment methods. <i>Genome Research</i> , 2014, 24, 2077-2089.	2.4	102
33	The impact of Docker containers on the performance of genomic pipelines. <i>PeerJ</i> , 2015, 3, e1273.	0.9	101
34	Third Report on Chicken Genes and Chromosomes 2015. <i>Cytogenetic and Genome Research</i> , 2015, 145, 78-179.	0.6	97
35	Haplotype selection as an adaptive mechanism in the protozoan pathogen <i>Leishmania donovani</i> . <i>Nature Ecology and Evolution</i> , 2017, 1, 1961-1969.	3.4	95
36	CaspR: a web server for automated molecular replacement using homology modelling. <i>Nucleic Acids Research</i> , 2004, 32, W606-W609.	6.5	87

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37	Using the T-Coffee package to build multiple sequence alignments of protein, RNA, DNA sequences and 3D structures. <i>Nature Protocols</i> , 2011, 6, 1669-1682.	5.5	87
38	How should we measure proportionality on relative gene expression data?. <i>Theory in Biosciences</i> , 2016, 135, 21-36.	0.6	77
39	The Rhizome of Life: The Sympatric <i>Rickettsia felis</i> Paradigm Demonstrates the Random Transfer of DNA Sequences. <i>Molecular Biology and Evolution</i> , 2011, 28, 3213-3223.	3.5	73
40	Enhanced transcriptome maps from multiple mouse tissues reveal evolutionary constraint in gene expression. <i>Nature Communications</i> , 2015, 6, 5903.	5.8	73
41	Evolutionary Footprints Reveal Insights into Plant MicroRNA Biogenesis. <i>Plant Cell</i> , 2017, 29, 1248-1261.	3.1	69
42	How Much Does It Cost?. <i>Sociological Methods and Research</i> , 2009, 38, 197-231.	4.3	67
43	APDB: a novel measure for benchmarking sequence alignment methods without reference alignments. <i>Bioinformatics</i> , 2003, 19, i215-i221.	1.8	62
44	Structural genomics of highly conserved microbial genes of unknown function in search of new antibacterial targets. <i>Journal of Structural and Functional Genomics</i> , 2003, 4, 141-157.	1.2	56
45	T-Coffee: Tree-Based Consistency Objective Function for Alignment Evaluation. <i>Methods in Molecular Biology</i> , 2014, 1079, 117-129.	0.4	56
46	Fibroblast-Derived Induced Pluripotent Stem Cells Show No Common Retroviral Vector Insertions. <i>Stem Cells</i> , 2009, 27, 300-306.	1.4	55
47	PSI/TM-Coffee: a web server for fast and accurate multiple sequence alignments of regular and transmembrane proteins using homology extension on reduced databases. <i>Nucleic Acids Research</i> , 2016, 44, W339-W343.	6.5	55
48	R-Coffee: a web server for accurately aligning noncoding RNA sequences. <i>Nucleic Acids Research</i> , 2008, 36, W10-W13.	6.5	53
49	Expression Divergence of Chemosensory Genes between <i>Drosophila sechellia</i> and Its Sibling Species and Its Implications for Host Shift. <i>Genome Biology and Evolution</i> , 2015, 7, 2843-2858.	1.1	51
50	Segment-based multiple sequence alignment. <i>Bioinformatics</i> , 2008, 24, i187-i192.	1.8	44
51	Pharmacological Assessment Defines <i>Leishmania donovani</i> Casein Kinase 1 as a Drug Target and Reveals Important Functions in Parasite Viability and Intracellular Infection. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 1501-1515.	1.4	44
52	Principal Component Analysis of the Effects of Environmental Enrichment and (-)-epigallocatechin-3-gallate on Age-Associated Learning Deficits in a Mouse Model of Down Syndrome. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 330.	1.0	44
53	TCS: a web server for multiple sequence alignment evaluation and phylogenetic reconstruction: Figure 1.. <i>Nucleic Acids Research</i> , 2015, 43, W3-W6.	6.5	44
54	Combined Treatment With Environmental Enrichment and (-)-Epigallocatechin-3-Gallate Ameliorates Learning Deficits and Hippocampal Alterations in a Mouse Model of Down Syndrome. <i>ENEURO</i> , 2016, 3, ENEURO.0103-16.2016.	0.9	42

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55	Transcript profiling of jasmonate-elicited <i>Taxus</i> cells reveals a $\beta$ -phenylalanine-CoA ligase. <i>Plant Biotechnology Journal</i> , 2016, 14, 85-96.	4.1	41
56	Gearing up to handle the mosaic nature of life in the quest for orthologs. <i>Bioinformatics</i> , 2018, 34, 323-329.	1.8	36
57	The iRMSD: a local measure of sequence alignment accuracy using structural information. <i>Bioinformatics</i> , 2006, 22, e35-e39.	1.8	34
58	Cyclosporin A Treatment of <i>Leishmania donovani</i> Reveals Stage-Specific Functions of Cyclophilins in Parasite Proliferation and Viability. <i>PLoS Neglected Tropical Diseases</i> , 2010, 4, e729.	1.3	34
59	Improved definition of the mouse transcriptome via targeted RNA sequencing. <i>Genome Research</i> , 2016, 26, 705-716.	2.4	33
60	An improved understanding of TNFL/TNFR interactions using structure-based classifications. <i>Trends in Biochemical Sciences</i> , 2012, 37, 353-363.	3.7	31
61	A novel, noncanonical mechanism of cytoplasmic polyadenylation operates in <i>Drosophila</i> embryogenesis. <i>Genes and Development</i> , 2010, 24, 129-134.	2.7	30
62	Cloud-Coffee: implementation of a parallel consistency-based multiple alignment algorithm in the T-Coffee package and its benchmarking on the Amazon Elastic-Cloud. <i>Bioinformatics</i> , 2010, 26, 1903-1904.	1.8	30
63	BlastR <sup>2</sup> : fast and accurate database searches for non-coding RNAs. <i>Nucleic Acids Research</i> , 2011, 39, 6886-6895.	6.5	28
64	Computing Multiple Sequence/Structure Alignments with the T-Coffee Package. <i>Current Protocols in Bioinformatics</i> , 2010, 29, Unit 3.8.1-25.	25.8	25
65	Large multiple sequence alignments with a root-to-leaf regressive method. <i>Nature Biotechnology</i> , 2019, 37, 1466-1470.	9.4	25
66	STRIKE: evaluation of protein MSAs using a single 3D structure. <i>Bioinformatics</i> , 2011, 27, 3385-3391.	1.8	23
67	Use of ChIP-Seq data for the design of a multiple promoter-alignment method. <i>Nucleic Acids Research</i> , 2012, 40, e52-e52.	6.5	23
68	Detecting and Comparing Non-Coding RNAs in the High-Throughput Era. <i>International Journal of Molecular Sciences</i> , 2013, 14, 15423-15458.	1.8	22
69	Using tertiary structure for the computation of highly accurate multiple RNA alignments with the SARA-Coffee package. <i>Bioinformatics</i> , 2013, 29, 1112-1119.	1.8	20
70	Predicting phenotypic traits of prokaryotes from protein domain frequencies. <i>BMC Bioinformatics</i> , 2010, 11, 481.	1.2	14
71	PROTOGENE: turning amino acid alignments into bona fide CDS nucleotide alignments. <i>Nucleic Acids Research</i> , 2006, 34, W600-W603.	6.5	13
72	Vertebrate conserved non coding DNA regions have a high persistence length and a short persistence time. <i>BMC Genomics</i> , 2007, 8, 398.	1.2	13

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73	Timeâ€™course and dynamics of obesityâ€™related behavioral changes induced by energyâ€™dense foods in mice. <i>Addiction Biology</i> , 2018, 23, 531-543.	1.4	13
74	High Performance computing improvements on bioinformatics consistency-based multiple sequence alignment tools. <i>Parallel Computing</i> , 2015, 42, 18-34.	1.3	12
75	Generalized Bootstrap Supports for Phylogenetic Analyses of Protein Sequences Incorporating Alignment Uncertainty. <i>Systematic Biology</i> , 2018, 67, 997-1009.	2.7	12
76	A long noncoding RNA promotes parasite differentiation in African trypanosomes. <i>Science Advances</i> , 2022, 8, .	4.7	12
77	Breen et al. reply. <i>Nature</i> , 2013, 497, E2-E3.	13.7	11
78	Extinction and reinstatement of an operant responding maintained by food in different models of obesity. <i>Addiction Biology</i> , 2018, 23, 544-555.	1.4	11
79	Improving multiple sequence alignment biological accuracy through genetic algorithms. <i>Journal of Supercomputing</i> , 2013, 65, 1076-1088.	2.4	9
80	Exploiting parallelism on progressive alignment methods. <i>Journal of Supercomputing</i> , 2011, 58, 186-194.	2.4	7
81	Incorporating alignment uncertainty into Felsensteinâ€™s phylogenetic bootstrap to improve its reliability. <i>Bioinformatics</i> , 2021, 37, 1506-1514.	1.8	7
82	Efficient and Interpretable Prediction of Protein Functional Classes by Correspondence Analysis and Compact Set Relations. <i>PLoS ONE</i> , 2013, 8, e75542.	1.1	7
83	Enhancing the Scalability of Consistency-based Progressive Multiple Sequences Alignment Applications. , 2012, , .		6
84	Multiple Sequence Alignment Computation Using the T-Coffee Regressive Algorithm Implementation. <i>Methods in Molecular Biology</i> , 2021, 2231, 89-97.	0.4	6
85	Computing Multiple Sequence/Structure Alignments with the T â€™Coffee Package. <i>Current Protocols in Bioinformatics</i> , 2003, 4, Unit3.8.	25.8	5
86	T-RMSD: A Fine-grained, Structure-based Classification Method and its Application to the Functional Characterization of TNF Receptors. <i>Journal of Molecular Biology</i> , 2010, 400, 605-617.	2.0	5
87	A user-friendly web portal for T-Coffee on supercomputers. <i>BMC Bioinformatics</i> , 2011, 12, 150.	1.2	5
88	Scalability and accuracy improvements of consistency-based multiple sequence alignment tools. , 2013, , .		5
89	Pergola: Boosting Visualization and Analysis of Longitudinal Data by Unlocking Genomic Analysis Tools. <i>IScience</i> , 2018, 9, 244-257.	1.9	5
90	Performance analysis of computational approaches to solve Multiple Sequence Alignment. <i>Journal of Supercomputing</i> , 2013, 64, 69-78.	2.4	4

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91	Improving the Alignment Quality of Consistency Based Aligners with an Evaluation Function Using Synonymous Protein Words. PLoS ONE, 2011, 6, e27872.	1.1	4
92	T-RMSD: a web server for automated fine-grained protein structural classification. Nucleic Acids Research, 2013, 41, W358-W362.	6.5	3
93	SARA-Coffee web server, a tool for the computation of RNA sequence and structure multiple alignments. Nucleic Acids Research, 2014, 42, W356-W360.	6.5	3
94	Using Genetic Algorithms for Pairwise and Multiple Sequence Alignments. , 2003, , 87-111.		2
95	Pergola-web: a web server for the visualization and analysis of longitudinal behavioral data using repurposed genomics tools and standards. Nucleic Acids Research, 2019, 47, W600-W604.	6.5	2
96	APDB: a web server to evaluate the accuracy of sequence alignments using structural information. Bioinformatics, 2006, 22, 2439-2440.	1.8	1
97	Recovering accuracy methods for scalable consistency library. Journal of Supercomputing, 2015, 71, 1833-1845.	2.4	1
98	Approaches for containerized scientific workflows in cloud environments with applications in life science. F1000Research, 0, 10, 513.	0.8	1
99	Computing Multiple Sequence Alignment with Template-Based Methods. , 2009, , 54-69.		1
100	Protocol for Measuring Compulsive-like Feeding Behavior in Mice. Bio-protocol, 2019, 9, e3308.	0.2	1