Kiyoshi Asai

List of Publications by Year in descending order

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66343 42399 9,195 123 42 92 citations h-index g-index papers 129 129 129 9664 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	ConsAlifold: considering RNA structural alignments improves prediction accuracy of RNA consensus secondary structures. Bioinformatics, 2022, 38, 710-719.	4.1	6
2	QRNAstruct: a method for extracting secondary structural features of RNA via regression with biological activity. Nucleic Acids Research, 2022, , .	14.5	O
3	A streamlined strain engineering workflow with genome-wide screening detects enhanced protein secretion in Komagataella phaffii. Communications Biology, 2022, 5, .	4.4	6
4	PBSIM2: a simulator for long-read sequencers with a novel generative model of quality scores. Bioinformatics, 2021, 37, 589-595.	4.1	81
5	m ⁶ A modification of HSATIII lncRNAs regulates temperatureâ€dependent splicing. EMBO Journal, 2021, 40, e107976.	7.8	36
6	A robust model for quantitative prediction of the silencing efficacy of wild-type and A-to-I edited miRNAs. RNA Biology, 2020, 17, 264-280.	3.1	1
7	Lnc <scp>RNA</scp> â€dependent nuclear stress bodies promote intron retention through <scp>SR</scp> protein phosphorylation. EMBO Journal, 2020, 39, e102729.	7.8	99
8	Free-Energy Calculation of Ribonucleic Inosines and Its Application to Nearest-Neighbor Parameters. Journal of Chemical Theory and Computation, 2020, 16, 5923-5935.	5.3	5
9	Finding the direct optimal RNA barrier energy and improving pathways with an arbitrary energy model. Bioinformatics, 2020, 36, i227-i235.	4.1	2
10	Exchange of endogenous and heterogeneous yeast terminators in <i>Pichia pastoris</i> to tune mRNA stability and gene expression. Nucleic Acids Research, 2020, 48, 13000-13012.	14.5	37
11	COSMO: A dynamic programming algorithm for multicriteria codon optimization. Computational and Structural Biotechnology Journal, 2020, 18, 1811-1818.	4.1	6
12	RintC: fast and accuracy-aware decomposition of distributions of RNA secondary structures with extended logsumexp. BMC Bioinformatics, 2020, 21, 210.	2.6	0
13	Improving the prediction accuracy of protein abundance in Escherichia coli using mRNA accessibility. Nucleic Acids Research, 2020, 48, e81-e81.	14.5	20
14	RNA Structure Prediction. , 2019, , 575-584.		1
15	Estimating Energy Parameters for RNA Secondary Structure Predictions Using Both Experimental and Computational Data. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 16, 1645-1655.	3.0	4
16	Secure Division Protocol and Applications to Privacy-preserving Chi-squared Tests. , 2018, , .		8
17	Jointly aligning a group of DNA reads improves accuracy of identifying large deletions. Nucleic Acids Research, 2018, 46, e18-e18.	14.5	3
18	Combining probabilistic alignments with read pair information improves accuracy of split-alignments. Bioinformatics, 2018, 34, 3631-3637.	4.1	0

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19	Capturing alternative secondary structures of RNA by decomposition of base-pairing probabilities. BMC Bioinformatics, 2018, 19, 38.	2.6	8
20	Training alignment parameters for arbitrary sequencers with LAST-TRAIN. Bioinformatics, 2017, 33, 926-928.	4.1	70
21	Evolutionary design of multiple genes encoding the same protein. Bioinformatics, 2017, 33, 1613-1620.	4.1	10
22	Genome Sequence of $\langle i \rangle$ Ustilaginoidea virens $\langle i \rangle$ IPU010, a Rice Pathogenic Fungus Causing False Smut. Genome Announcements, 2016, 4, .	0.8	22
23	Class of cyclic ribosomal peptide synthetic genes in filamentous fungi. Fungal Genetics and Biology, 2016, 86, 58-70.	2.1	84
24	Genome sequence of <i>Aspergillus luchuensis </i> NBRC 4314. DNA Research, 2016, 23, 507-515.	3.4	48
25	Improved Accuracy in RNA–Protein Rigid Body Docking by Incorporating Force Field for Molecular Dynamics Simulation into the Scoring Function. Journal of Chemical Theory and Computation, 2016, 12, 4688-4697.	5. 3	23
26	Comprehensive prediction of lncRNA–RNA interactions in human transcriptome. BMC Genomics, 2016, 17, 12.	2.8	54
27	<tt>Rtools</tt> : a web server for various secondary structural analyses on single RNA sequences. Nucleic Acids Research, 2016, 44, W302-W307.	14.5	21
28	CDSfold: an algorithm for designing a protein-coding sequence with the most stable secondary structure. Bioinformatics, 2016, 32, 828-834.	4.1	10
29	Bioinformatics tools for lncRNA research. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2016, 1859, 23-30.	1.9	45
30	Privacy-preserving search for chemical compound databases. BMC Bioinformatics, 2015, 16, S6.	2.6	10
31	Learning chromatin states with factorized information criteria. Bioinformatics, 2015, 31, 2426-2433.	4.1	14
32	Guest Editorial for the 25th International Conference on Genome Informatics (GIW/ISCB-Asia 2014). IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2015, 12, 761-762.	3.0	1
33	A semi-supervised learning approach for RNA secondary structure prediction. Computational Biology and Chemistry, 2015, 57, 72-79.	2.3	12
34	Ustiloxins, fungal cyclic peptides, are ribosomally synthesized in <i>Ustilaginoidea virens</i> Bioinformatics, 2015, 31, 981-985.	4.1	62
35	Predicting RNA Duplex Dimerization Free-Energy Changes upon Mutations Using Molecular Dynamics Simulations. Journal of Physical Chemistry Letters, 2015, 6, 4348-4351.	4.6	19
36	Hybrid De Novo Genome Assembly Using MiSeq and SOLiD Short Read Data. PLoS ONE, 2015, 10, e0126289.	2.5	6

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37	CapR: revealing structural specificities of RNA-binding protein target recognition using CLIP-seq data. Genome Biology, 2014, 15, R16.	9.6	80
38	Motif-Independent Prediction of a Secondary Metabolism Gene Cluster Using Comparative Genomics: Application to Sequenced Genomes of Aspergillus and Ten Other Filamentous Fungal Species. DNA Research, 2014, 21, 447-457.	3.4	44
39	Tertiary Structure Prediction of RNA–RNA Complexes Using a Secondary Structure and Fragment-Based Method. Journal of Chemical Information and Modeling, 2014, 54, 672-682.	5.4	6
40	Reference-free prediction of rearrangement breakpoint reads. Bioinformatics, 2014, 30, 2559-2567.	4.1	5
41	Efficient calculation of exact probability distributions of integer features on RNA secondary structures. BMC Genomics, 2014, 15, S6.	2.8	11
42	RNA Structural Alignments, Part II: Non-Sankoff Approaches for Structural Alignments. Methods in Molecular Biology, 2014, 1097, 291-301.	0.9	14
43	The 3rd DBCLS BioHackathon: improving life science data integration with Semantic Web technologies. Journal of Biomedical Semantics, 2013, 4, 6.	1.6	26
44	Analysis of base-pairing probabilities of RNA molecules involved in protein–RNA interactions. Bioinformatics, 2013, 29, 2524-2528.	4.1	10
45	CentroidAlign-Web: A Fast and Accurate Multiple Aligner for Long Non-Coding RNAs. International Journal of Molecular Sciences, 2013, 14, 6144-6156.	4.1	4
46	PBSIM: PacBio reads simulatorâ€"toward accurate genome assembly. Bioinformatics, 2013, 29, 119-121.	4.1	279
47	Finding Protein-Coding Genes through Human Polymorphisms. PLoS ONE, 2013, 8, e54210.	2.5	3
48	MIDDAS-M: Motif-Independent De Novo Detection of Secondary Metabolite Gene Clusters through the Integration of Genome Sequencing and Transcriptome Data. PLoS ONE, 2013, 8, e84028.	2.5	106
49	Shape-based alignment of genomic landscapes in multi-scale resolution. Nucleic Acids Research, 2012, 40, 6435-6448.	14.5	7
50	DAFS: simultaneous aligning and folding of RNA sequences via dual decomposition. Bioinformatics, 2012, 28, 3218-3224.	4.1	40
51	Transformations for the compression of FASTQ quality scores of next-generation sequencing data. Bioinformatics, 2012, 28, 628-635.	4.1	45
52	Rtips: fast and accurate tools for RNA 2D structure prediction using integer programming. Nucleic Acids Research, 2012, 40, W29-W34.	14.5	17
53	A mostly traditional approach improves alignment of bisulfite-converted DNA. Nucleic Acids Research, 2012, 40, e100-e100.	14.5	55
54	RecountDB: a database of mapped and count corrected transcribed sequences. Nucleic Acids Research, 2012, 40, D1089-D1092.	14.5	0

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55	A Classification of Bioinformatics Algorithms from the Viewpoint of Maximizing Expected Accuracy (MEA). Journal of Computational Biology, 2012, 19, 532-549.	1.6	13
56	Prediction of Conserved Precursors of miRNAs and Their Mature Forms by Integrating Position-Specific Structural Features. PLoS ONE, 2012, 7, e44314.	2.5	12
57	Rchange: algorithms for computing energy changes of RNA secondary structures in response to base mutations. Bioinformatics, 2012, 28, 1093-1101.	4.1	17
58	Antagonistic RNA aptamer specific to a heterodimeric form of human interleukin-17A/F. Biochimie, 2011, 93, 1081-1088.	2.6	18
59	Generalized Centroid Estimators in Bioinformatics. PLoS ONE, 2011, 6, e16450.	2.5	15
60	Probabilistic alignments with quality scores: an application to short-read mapping toward accurate SNP/indel detection. Bioinformatics, 2011, 27, 3085-3092.	4.1	16
61	IPknot: fast and accurate prediction of RNA secondary structures with pseudoknots using integer programming. Bioinformatics, 2011, 27, i85-i93.	4.1	253
62	Improving the accuracy of predicting secondary structure for aligned RNA sequences. Nucleic Acids Research, 2011, 39, 393-402.	14.5	59
63	A detailed investigation of accessibilities around target sites of siRNAs and miRNAs. Bioinformatics, 2011, 27, 1788-1797.	4.1	62
64	CentroidHomfold-LAST: accurate prediction of RNA secondary structure using automatically collected homologous sequences. Nucleic Acids Research, 2011, 39, W100-W106.	14.5	22
65	Prediction of RNA secondary structure by maximizing pseudo-expected accuracy. BMC Bioinformatics, 2010, 11, 586.	2.6	24
66	The DBCLS BioHackathon: standardization and interoperability for bioinformatics web services and workflows. Journal of Biomedical Semantics, 2010, 1, 8.	1.6	31
67	Discovery of short pseudogenes derived from messenger RNAs. Nucleic Acids Research, 2010, 38, 1163-1171.	14.5	15
68	A NON-PARAMETRIC BAYESIAN APPROACH FOR PREDICTING RNA SECONDARY STRUCTURES. Journal of Bioinformatics and Computational Biology, 2010, 08, 727-742.	0.8	11
69	RactIP: fast and accurate prediction of RNA-RNA interaction using integer programming. Bioinformatics, 2010, 26, i460-i466.	4.1	99
70	Conic Programming for Multitask Learning. IEEE Transactions on Knowledge and Data Engineering, 2010, 22, 957-968.	5.7	49
71	Sorting next generation sequencing data improves compression effectiveness. , $2010, , .$		4
72	In search of true reads: A classification approach to next generation sequencing data selection. , 2010, , .		0

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73	CENTROIDFOLD: a web server for RNA secondary structure prediction. Nucleic Acids Research, 2009, 37, W277-W280.	14.5	279
74	Prediction of RNA secondary structure using generalized centroid estimators. Bioinformatics, 2009, 25, 465-473.	4.1	203
75	CentroidAlign: fast and accurate aligner for structured RNAs by maximizing expected sum-of-pairs score. Bioinformatics, 2009, 25, 3236-3243.	4.1	45
76	Predictions of RNA secondary structure by combining homologous sequence information. Bioinformatics, 2009, 25, i330-i338.	4.1	51
77	Transcripts of unknown function in multiple-signaling pathways involved in human stem cell differentiation. Nucleic Acids Research, 2009, 37, 4987-5000.	14.5	51
78	A local multiple alignment method for detection of non-coding RNA sequences. Bioinformatics, 2009, 25, 1498-1505.	4.1	16
79	The Functional RNA Database 3.0: databases to support mining and annotation of functional RNAs. Nucleic Acids Research, 2009, 37, D89-D92.	14.5	119
80	A regulatory circuit for piwi by the large Maf gene traffic jam in Drosophila. Nature, 2009, 461, 1296-1299.	27.8	387
81	Large Scale Similarity Search for Locally Stable Secondary Structures among RNA Sequences. IPSJ Transactions on Bioinformatics, 2009, 2, 36-46.	0.2	1
82	A Non-parametric Bayesian Approach for Predicting RNA Secondary Structures. Lecture Notes in Computer Science, 2009, , 286-297.	1.3	1
83	Drosophila endogenous small RNAs bind to Argonaute 2 in somatic cells. Nature, 2008, 453, 793-797.	27.8	417
84	Directed acyclic graph kernels for structural RNA analysis. BMC Bioinformatics, 2008, 9, 318.	2.6	14
85	A fast structural multiple alignment method for long RNA sequences. BMC Bioinformatics, 2008, 9, 33.	2.6	95
86	Expansion of signaling genes for adaptive immune system evolution in early vertebrates. BMC Genomics, 2008, 9, 218.	2.8	9
87	Retention of genes involved in the adenohypophysis-mediated endocrine system in early vertebrates. Gene, 2008, 412, 71-83.	2.2	1
88	Software.ncrna.org: web servers for analyses of RNA sequences. Nucleic Acids Research, 2008, 36, W75-W78.	14.5	5
89	Characterization of endogenous human Argonautes and their miRNA partners in RNA silencing. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7964-7969.	7.1	221
90	Rfold: an exact algorithm for computing local base pairing probabilities. Bioinformatics, 2008, 24, 367-373.	4.1	53

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91	STEM KERNELS FOR RNA SEQUENCE ANALYSES. Journal of Bioinformatics and Computational Biology, 2007, 05, 1103-1122.	0.8	18
92	miRRim: A novel system to find conserved miRNAs with high sensitivity and specificity. Rna, 2007, 13, 2081-2090.	3.5	51
93	Murlet: a practical multiple alignment tool for structural RNA sequences. Bioinformatics, 2007, 23, 1588-1598.	4.1	69
94	Genomics of <i>Aspergillus oryzae </i> . Bioscience, Biotechnology and Biochemistry, 2007, 71, 646-670.	1.3	163
95	Robust prediction of consensus secondary structures using averaged base pairing probability matrices. Bioinformatics, 2007, 23, 434-441.	4.1	51
96	A New Direction for the Computational Biology Research Center. Asia Pacific Biotech News, 2007, 11, 1027-1029.	0.0	0
97	fRNAdb: a platform for mining/annotating functional RNA candidates from non-coding RNA sequences. Nucleic Acids Research, 2007, 35, D145-D148.	14.5	134
98	Coordinated expression of ncRNAs and HOX mRNAs in the human HOXA locus. Biochemical and Biophysical Research Communications, 2007, 357, 724-730.	2.1	32
99	Identification and characterization of human non-coding RNAs with tissue-specific expression. Biochemical and Biophysical Research Communications, 2007, 357, 991-996.	2.1	33
100	Identification of Glycosyltransferases Focusing on Golgi Transmembrane Region. Trends in Glycoscience and Glycotechnology, 2007, 19, 41-47.	0.1	3
101	FLOW MODEL OF THE PROTEIN-PROTEIN INTERACTION NETWORK FOR FINDING CREDIBLE INTERACTIONS. , 2007, , .		1
102	Learning Kernels from Distance Constraints. IPSJ Digital Courier, 2006, 2, 441-451.	0.3	0
103	Network-based de-noising improves prediction from microarray data. BMC Bioinformatics, 2006, 7, S4.	2.6	13
104	Mining frequent stem patterns from unaligned RNA sequences. Bioinformatics, 2006, 22, 2480-2487.	4.1	40
105	SCARNA: fast and accurate structural alignment of RNA sequences by matching fixed-length stem fragments. Bioinformatics, 2006, 22, 1723-1729.	4.1	45
106	Genome sequencing and analysis of Aspergillus oryzae. Nature, 2005, 438, 1157-1161.	27.8	1,128
107	Genomic sequence of the pathogenic and allergenic filamentous fungus Aspergillus fumigatus. Nature, 2005, 438, 1151-1156.	27.8	1,272
108	Sequencing of Aspergillus nidulans and comparative analysis with A. fumigatus and A. oryzae. Nature, 2005, 438, 1105-1115.	27.8	1,250

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109	Extracting relations between promoter sequences and their strengths from microarray data. Bioinformatics, 2005, 21, 1062-1068.	4.1	27
110	Accurate extraction of functional associations between proteins based on common interaction partners and common domains. Bioinformatics, 2005, 21, 2043-2048.	4.1	17
111	Selective integration of multiple biological data for supervised network inference. Bioinformatics, 2005, 21, 2488-2495.	4.1	58
112	Statistical evaluation of a bottom-up clustering for single particle molecular images. Genome Informatics, 2005, 16, 125-35.	0.4	2
113	Minimizing the Cross Validation Error to Mix Kernel Matrices of Heterogeneous Biological Data. Neural Processing Letters, 2004, 19, 63-72.	3.2	6
114	A New Variational Framework for Rigid-Body Alignment. Lecture Notes in Computer Science, 2004, , 171-179.	1.3	3
115	Inference of Euler angles for single-particle analysis by means of evolutionary algorithms. BioSystems, 2003, 72, 43-55.	2.0	1
116	Processing sequence annotation data using the Lua programming language. Genome Informatics, 2003, 14, 154-63.	0.4	7
117	Marginalized kernels for biological sequences. Bioinformatics, 2002, 18, S268-S275.	4.1	112
118	Modeling splicing sites with pairwise correlations. Bioinformatics, 2002, 18, S27-S34.	4.1	23
119	MOSBY: a molecular structure viewer program with portability and extensibility. Journal of Molecular Graphics and Modelling, 2002, 20, 411-413.	2.4	4
120	Marginalized kernels for RNA sequence data analysis. Genome Informatics, 2002, 13, 112-22.	0.4	10
121	Inference of Euler angles for single particle analysis by using Genetic Algorithms. Genome Informatics, 2002, 13, 133-42.	0.4	0
122	The voltage-sensitive sodium channel is a bell-shaped molecule with several cavities. Nature, 2001, 409, 1047-1051.	27.8	255
123	Prediction of protein secondary structure by the hidden Markov model. Bioinformatics, 1993, 9, 141-146.	4.1	86