

Resource Summary Report

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CentroidFold

RRID:SCR_017253

Type: Tool

Proper Citation

CentroidFold (RRID:SCR_017253)

Resource Information

URL: <http://rtools.cbrc.jp/centroidfold/>

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Description: Web server for RNA secondary structure prediction. Predicts RNA secondary structure from RNA sequence. Based on generalized centroid estimator.

Resource Type: data access protocol, simulation software, software application, software resource, web service

Defining Citation: [PMID:19435882](#)

Keywords: RNA, secondary, structure, prediction, centroid, estimator, sequecne, data, alignment, bio.tools

Funding: Internal fund of Computational Biology Research Center ;
Ministry of Education ;
Culture ;
Sports ;
Science and Technology of Japan ;
New Energy and Industrial Technology Development Organization of Japan

Availability: Free, Freely available

Resource Name: CentroidFold

Resource ID: SCR_017253

Alternate IDs: biotools:centroidfold, OMICS_03449

Alternate URLs: <https://bio.tools/centroidfold>

Record Creation Time: 20220129T080334+0000

Record Last Update: 20260829T182532+0000

Ratings and Alerts

No rating or validation information has been found for CentroidFold.

No alerts have been found for CentroidFold.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 17 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Shim SH, et al. (2026) Identification and Functional Characterization of Anthocyanidin 3-O-Glucosyltransferases OsA3GT1 and OsA3GT2 in Black Rice. Rice (New York, N.Y.), 19(1).

Kobayashi D, et al. (2025) Deglycosylation and truncation in the neuraminidase stalk are functionally equivalent in enhancing the pathogenicity of a high pathogenicity avian influenza virus in chickens. Journal of virology, 99(3), e0147824.

Izumikawa K, et al. (2025) Molecular basis of the autoregulatory mechanism of motor neuron-related splicing factor 30. The Journal of biological chemistry, 301(9), 110522.

Shimizu T, et al. (2024) A cytidine deaminase regulates axon regeneration by modulating the functions of the Caenorhabditis elegans HGF/plasminogen family protein SVH-1. PLoS genetics, 20(7), e1011367.

Kida Y, et al. (2021) Structural Requirements in the Hemagglutinin Cleavage Site-Coding RNA Region for the Generation of Highly Pathogenic Avian Influenza Virus. Pathogens (Basel, Switzerland), 10(12).

Kuwano Y, et al. (2021) Overexpression of the transcribed ultraconserved region Uc.138 accelerates colon cancer progression. Scientific reports, 11(1), 8667.

Takahashi M, et al. (2021) Nucleic acid ligands act as a PAM and agonist depending on the intrinsic ligand binding state of P2RY2. Proceedings of the National Academy of Sciences of the United States of America, 118(18).

James S, et al. (2021) A positive Selection Escherichia Coli Recombinant Protein Expression Vector for One-Step Cloning. Frontiers in bioengineering and biotechnology, 9, 776828.

Amano R, et al. (2021) Specific inhibition of FGF5-induced cell proliferation by RNA aptamers. Scientific reports, 11(1), 2976.

Monshi FI, et al. (2020) Structure and diversity of 13S globulin zero-repeat subunit, the trypsin-resistant storage protein of common buckwheat (*Fagopyrum esculentum* M.) seeds. *Breeding science*, 70(1), 118.

Wakida H, et al. (2020) Stability of RNA sequences derived from the coronavirus genome in human cells. *Biochemical and biophysical research communications*, 527(4), 993.

Nakata M, et al. (2020) Thermosensitive pilus production by FCT type 3 *Streptococcus pyogenes* controlled by *Nra* regulator translational efficiency. *Molecular microbiology*, 113(1), 173.

Ohmori S, et al. (2020) RNA Aptamers for a tRNA-Binding Protein from *Aeropyrum pernix* with Homologous Counterparts Distributed Throughout Evolution. *Life* (Basel, Switzerland), 10(2).

Abaeva IS, et al. (2020) The Halastavi ϕ rva Virus Intergenic Region IRES Promotes Translation by the Simplest Possible Initiation Mechanism. *Cell reports*, 33(10), 108476.

Shim SH, et al. (2019) Loss of Function of Rice Plastidic Glycolate/Glycerate Translocator 1 Impairs Photorespiration and Plant Growth. *Frontiers in plant science*, 10, 1726.

Wang F, et al. (2019) TabZIP74 Acts as a Positive Regulator in Wheat Stripe Rust Resistance and Involves Root Development by mRNA Splicing. *Frontiers in plant science*, 10, 1551.

Hamada M, et al. (2011) CentroidHomfold-LAST: accurate prediction of RNA secondary structure using automatically collected homologous sequences. *Nucleic acids research*, 39(Web Server issue), W100.