Resource Summary Report

Generated by NIF on May 16, 2025

UNAFold

RRID:SCR_001360

Type: Tool

Proper Citation

UNAFold (RRID:SCR_001360)

Resource Information

URL: http://mfold.rna.albany.edu/

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Description: Software package for nucleic acid folding and hybridization prediction. It has capabilities to predict folding for single-stranded RNA or DNA through a combination of free energy minimization, partition function calculations and stochastic sampling. The program runs on Unix and Linux platforms as well as Mac OS X and Windows.

Synonyms: The UNAFold Web Server, UNAFold Web Server

Resource Type: software resource, data analysis software, software application, data processing software

Keywords: software, nucleic acid, folding, hybridization, prediction, rna, dna, stochastic sampling, bio.tools

Funding:

Availability: Available for download with a nominal \$50 processing fee for academic and other non-commercial use, License required for commercial use

Resource Name: UNAFold

Resource ID: SCR_001360

Alternate IDs: biotools:unafold, nif-0000-07753

Alternate URLs: https://bio.tools/unafold/

Record Creation Time: 20220129T080207+0000

Record Last Update: 20250514T061201+0000

Ratings and Alerts

No rating or validation information has been found for UNAFold.

No alerts have been found for UNAFold.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 290 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Zhou Y, et al. (2025) Serum assisted PD-L1 aptamer screening for improving its stability. Scientific reports, 15(1), 1848.

Zeng X, et al. (2025) The complete mitochondrial genome of Gyrodactylus pseudorasborae (Platyhelminthes: Monogenea) with a phylogeny of Gyrodactylidae parasites. BMC genomics, 26(1), 34.

Shen Y, et al. (2025) Improving the generalization of protein expression models with mechanistic sequence information. Nucleic acids research, 53(3).

Seto R, et al. (2024) Pseudomonas fluorescens 15 small RNA Pfs1 mediates transgenerational epigenetic inheritance of pathogen avoidance in C. elegans through the Ephrin receptor VAB-1. bioRxiv: the preprint server for biology.

Zhang Y, et al. (2024) Model-guided metabolic rewiring to bypass pyruvate oxidation for pyruvate derivative synthesis by minimizing carbon loss. mSystems, 9(3), e0083923.

Li R, et al. (2023) A structural and functional analysis of opal stop codon translational readthrough during Chikungunya virus replication. The Journal of general virology, 104(10).

Zarudnaya MI, et al. (2023) Structural diversity of the region encompassing DIS, SD and Psi hairpins in HIV and SIV genomes. Virus research, 336, 199197.

Ruiz-Padilla A, et al. (2023) Molecular characterization of a tetra segmented ssDNA virus infecting Botrytis cinerea worldwide. Virology journal, 20(1), 306.

Ortega JA, et al. (2023) CLIP-Seq analysis enables the design of protective ribosomal RNA bait oligonucleotides against C9ORF72 ALS/FTD poly-GR pathophysiology. Science advances, 9(45), eadf7997.

Garewal N, et al. (2022) Identification of Pseudo-R genes in Vitis vinifera and characterization of their role as immunomodulators in host-pathogen interactions. Journal of advanced research, 42, 17.

Villa A, et al. (2022) DNA aptamers masking angiotensin converting enzyme 2 as an innovative way to treat SARS-CoV-2 pandemic. Pharmacological research, 175, 105982.

Bellassai N, et al. (2022) Isothermal circular strand displacement-based assay for microRNA detection in liquid biopsy. Analytical and bioanalytical chemistry, 414(22), 6431.

Zhao W, et al. (2021) Characterization of the complete mitochondrial genome of Myrmuslateralis (Heteroptera, Rhopalidae) and its implication for phylogenetic analyses. ZooKeys, 1070, 13.

Morlion A, et al. (2021) Custom long non-coding RNA capture enhances detection sensitivity in different human sample types. RNA biology, 18(sup1), 215.

Asmani F, et al. (2021) In Silico designing and immunogenic production of the multimeric CfaB*ST, CfaE, LTB antigen as a peptide vaccine against Enterotoxigenic Escherichia coli. Microbial pathogenesis, 158, 105087.

Yang HC, et al. (2021) Single Step In Situ Detection of Surface Protein and MicroRNA in Clustered Extracellular Vesicles Using Flow Cytometry. Journal of clinical medicine, 10(2).

Yang HC, et al. (2021) Single-step equipment-free extracellular vesicle concentration using super absorbent polymer beads. Journal of extracellular vesicles, 10(4), e12074.

Zabaleta N, et al. (2021) An AAV-based, room-temperature-stable, single-dose COVID-19 vaccine provides durable immunogenicity and protection in non-human primates. Cell host & microbe, 29(9), 1437.

Muslu T, et al. (2021) Pan-Genome miRNomics in Brachypodium. Plants (Basel, Switzerland), 10(5).

K?dzierska B, et al. (2021) Minigene as a Novel Regulatory Element in Toxin-Antitoxin Systems. International journal of molecular sciences, 22(24).