

Resource Summary Report

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UNAFold

RRID:SCR_001360

Type: Tool

Proper Citation

UNAFold (RRID:SCR_001360)

Resource Information

URL: <https://www.unafold.org/>

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

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

Availability: Free, Available for download, Freely available

Resource Name: UNAFold

Resource ID: SCR_001360

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

Alternate URLs: <http://mfold.rna.albany.edu/>

Record Creation Time: 20220129T080207+0000

Record Last Update: 20260818T043125+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 373 mentions in open access literature.

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

Xu Y, et al. (2026) Magnetic-Assisted Aptamer Selection and Isolation of Migrasomes for Application in Lung Adenocarcinoma Proteomic Analysis. *Journal of extracellular vesicles*, 15(4), e70283.

Katzir I, et al. (2026) Programmable DNA Folding Modulates Phase Behavior and Dynamics of DNA/Peptide Condensates. *ACS nano*, 20(20), 14813.

Da Silva Amaral S, et al. (2026) Effect of TAR hairpin stabilization on HIV-1 reverse transcription. *Journal of virology*, 100(5), e0184025.

Yuan L, et al. (2026) A distinct class of conjugative megaplasmsids includes potential vehicles for prophage dissemination. *bioRxiv : the preprint server for biology*.

Zhao Z, et al. (2026) Comparative genomics of different haplotypes in *Ditylenchus destructor* provides insights into their host preferences. *Communications biology*, 9(1).

Zhang Y, et al. (2026) A versatile CRISPR-associated transposases-mediated toolkit for transcriptional regulation library. *Nucleic acids research*, 54(7).

Wang H, et al. (2026) High-Resolution Mapping of RNA-RNA Interactions Across the HIV-1 Genome With HicapR. *Bio-protocol*, 16(12), e5575.

Dong H, et al. (2026) Regulatory paradigm of Dscam1 stochastic alternative splicing through conserved long-range RNA structures. *Nucleic acids research*, 54(5).

Li X, et al. (2026) Exploration of endogenous signal peptides and tandem linkage strategies for enhanced heterologous protein secretion in *Lactococcus lactis*. *Synthetic and systems biotechnology*, 13, 25.

Guo J, et al. (2026) A new contribution to the subclass Ciliophora (Protista, Ciliophora): a brief revision of Chilodonellidae, including reports of three species and one new genus. *Marine life science & technology*, 8(2), 237.

Zhang T, et al. (2026) Morpho-molecular characterization of *Trichodina chlorophora* Richards, 1948 (Protista: Ciliophora), a central component in the 'snail?ciliate? zoochlorellae' hyper-symbiotic system. *Marine life science & technology*, 8(2), 371.

Xu B, et al. (2026) Enhanced SfaTnpB enables single-base-specific, one-pot nucleic acid detection for high-sensitivity diagnostics. *Nucleic acids research*, 54(1).

Fabian-Jessing BK, et al. (2026) AAV-mediated multiple gene therapy combining VEGFA-targeting miR-agshRNAs and PEDF for the suppression of choroidal neovascularization. *Molecular therapy. Nucleic acids*, 37(1), 102833.

Ross AC, et al. (2026) Modulating Galectin-1 in human osteoblast-like cells alters mineralisation and influences the expression of genes associated with osteoblasts and osteocytes. *Bioscience reports*, 46(3).

Bu K, et al. (2026) Porcine reproductive and respiratory syndrome virus antagonizes the host restriction factor SHFL to sustain viral programmed ribosomal frameshifting and replication. *Journal of virology*, 100(5), e0011926.

O'Hanlon R, et al. (2026) Visualizing Diverse RNA Functions in Living Cells With SpinachTM Family of Fluorogenic Aptamers. *Bio-protocol*, 16(12), e5504.

Takahashi M, et al. (2025) Cleavage of MALAT1 RNA by 14-nt sgRNA-guided tRNase ZL. *PloS one*, 20(9), e0318968.

Paget-Bailly P, et al. (2025) Translation of the downstream ORF from bicistronic mRNAs by human cells: Impact of codon usage and splicing in the upstream ORF. *Protein science : a publication of the Protein Society*, 34(2), e70036.

Shekfeh M, et al. (2025) Prevalence and impact of molecular variation in the three-prime repair exonuclease 1 TREX1 and its implications for oncology. *Human genomics*, 19(1), 73.

Vondrášková A, et al. (2025) Molecular characterization of the type species of Kyrtothrix (Rivulariaceae, Cyanobacteriota) with comparison to Nunduva: Morphologically different but molecularly cryptic genera. *Journal of phycology*, 61(5), 1274.