

Resource Summary Report

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Vienna RNA

RRID:SCR_008550

Type: Tool

Proper Citation

Vienna RNA (RRID:SCR_008550)

Resource Information

URL: <http://rna.tbi.univie.ac.at/cgi-bin/RNAfold.cgi>

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Description: This server provides programs, web services, and databases, related to our work on RNA secondary structures. For general information and other offerings from our group see the main TBI web server. With the 1st of May 2009 we updated our servers to the Vienna RNA package version 1.8.2! The Vienna RNA Servers: * RNAfold server predicts minimum free energy structures and base pair probabilities from single RNA or DNA sequences. * RNAalifold server predicts consensus secondary structures from an alignment of several related RNA or DNA sequences. You need to upload an alignment. * RNAinverse server allows you to design RNA sequences for any desired target secondary structure. * RNAcifold server allows you to predict the secondary structure of a dimer. * RNAup server allows you to predict the accessibility of a target region. * LocARNA server generates structural alignments from a set of sequences. In collaboration with the Bioinformatics Group Freiburg. * barriers server allows you to get insights into RNA folding kinetics. * RNAz server will assist you in detecting thermodynamically stable and evolutionarily conserved RNA secondary structures in multiple sequence alignments. * Structure conservation analysis server will assist you in detecting evolutionarily conserved RNA secondary structures in multiple sequence alignments. * RNAstrand server allows you to predict the reading direction of evolutionarily conserved RNA secondary structures. * RNAsX server assists you in siRNA design. * Bcheck predicts rnpB genes Downloads Get the Source code for: * the Vienna RNA Package, our basic RNA secondary structure analysis software. * The ALIDOT package for finding conserved structure motifs (add-on) * The barriers program for analysis of RNA folding landscapes. Databases * Atlas of conserved Viral RNA Structures found by ALIDOT

Synonyms: Vienna RNA

Resource Type: data or information resource, database, software resource

Defining Citation: [DOI:10.1186/1748-7188-6-26](https://doi.org/10.1186/1748-7188-6-26)

Keywords: bio.tools, FASEB list

Resource Name: Vienna RNA

Resource ID: SCR_008550

Alternate IDs: biotools:vienna_rna_package, nif-0000-31411, OMICS_09351

Alternate URLs: https://bio.tools/vienna_rna_package,
<https://sources.debian.org/src/vienna-rna/>

Record Creation Time: 20220129T080248+0000

Record Last Update: 20260829T182331+0000

Ratings and Alerts

No rating or validation information has been found for Vienna RNA.

No alerts have been found for Vienna RNA.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 425 mentions in open access literature.

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

Wu Y, et al. (2025) Integrated protein and metabolic engineering enable high-yield biosynthesis of resveratrol derivatives in *Yarrowia lipolytica*. *Synthetic and systems biotechnology*, 10(4), 1368.

Zhang J, et al. (2025) The infection of mycovirus down regulates Aa-miR13 to weaken the pathogenicity of the *Alternaria alternata* f. sp. mali. *Frontiers in plant science*, 16, 1598183.

Zhang J, et al. (2025) Long Non-Coding RNA IGFRIL Couples with PTBP1 to Destabilize IGFBP3 mRNA to Promote the IGF1R-AKT-mTOR Axis and Hepatocellular Carcinoma. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 12(39), e07676.

Sultana N, et al. (2025) SCGB1A1 rs3741240 variant downregulates CC16: a molecular insight into COPD pathogenesis in Indian population. *Frontiers in immunology*, 16, 1689340.

Kumar S, et al. (2025) Integrated multi-omics analyses of synaptosomes revealed synapse-associated novel targets in Alzheimer's disease. *Molecular psychiatry*, 30(11), 5121.

Zhou Y, et al. (2025) LINC01088 prevents ferroptosis in glioblastoma by enhancing SLC7A11 via HLTF/USP7 axis. *Clinical and translational medicine*, 15(3), e70257.

Ahmed SF, et al. (2025) Computational analysis of miRNA mediated KDR gene regulation and natural VEGFR2 inhibitors from *Persicaria hydropiper* in hepatocellular carcinoma. *Scientific reports*, 15(1), 38071.

Alessandrini F, et al. (2025) TDP-43 dysfunction compromises UPF1-dependent mRNA metabolism in ALS. *Neuron*.

Lewis CJT, et al. (2025) Quantitative profiling of human translation initiation reveals elements that potently regulate endogenous and therapeutically modified mRNAs. *Molecular cell*, 85(2), 445.

Zhang S, et al. (2024) Interfamily Grafted Hybrids *Vitis vinifera*/*Schisandra chinensis* Resulted in Transcriptomic, Phenotypic, and Metabolic Changes. *Plants (Basel, Switzerland)*, 13(12).

Leong LEX, et al. (2024) Identification of the mechanism for dehalorespiration of monofluoroacetate in the phylum Synergistota. *Animal bioscience*, 37(2), 396.

Kang K, et al. (2024) Curcumin Changed the Number, Particle Size, and miRNA Profile of Serum Exosomes in Roman Laying Hens under Heat Stress. *Genes*, 15(2).

Srivastava A, et al. (2024) In silico identification of papaya genome-encoded microRNAs to target begomovirus genes in papaya leaf curl disease. *Frontiers in microbiology*, 15, 1340275.

Li X, et al. (2024) Comparative Analysis of mRNA, microRNA of Transcriptome, and Proteomics on CIK Cells Responses to GCRV and *Aeromonas hydrophila*. *International journal of molecular sciences*, 25(12).

Gallagher LT, et al. (2024) Dysregulation of miRNA-mRNA expression in fetal growth restriction in a caloric restricted mouse model. *Scientific reports*, 14(1), 5579.

Xiong W, et al. (2024) The mitochondrial long non-coding RNA lncMtloop regulates mitochondrial transcription and suppresses Alzheimer's disease. *The EMBO journal*, 43(23), 6001.

Gao J, et al. (2024) Integrated mRNA and miRNA analysis reveals the regulatory network of oxidative stress and inflammation in *Coilia nasus* brains during air exposure and salinity mitigation. *BMC genomics*, 25(1), 446.

Wang J, et al. (2024) Vascular endothelial cells-derived exosomes synergize with curcumin to prevent osteoporosis development. *iScience*, 27(4), 109608.

Deng K, et al. (2024) Ythdf2 facilitates precursor miR-378/miR-378-5p maturation to support myogenic differentiation. *Cellular and molecular life sciences : CMLS*, 81(1), 445.

Chen DY, et al. (2024) Transcriptome profiling of foxtail millet (*Setaria italica*) pollen and anther. *BMC plant biology*, 24(1), 1221.