Resource Summary Report

Generated by kravitz2 on Sep 4, 2026

RNAhybrid

RRID:SCR_003252
Type: Tool

Proper Citation

RNAhybrid (RRID:SCR_003252)

Resource Information

URL: http://bibiserv.techfak.uni-bielefeld.de/rnahybrid/

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Description: Software tool for finding the minimum free energy hybridization of a long and a short RNA. The hybridization is performed in a kind of domain mode, i.e., the short sequence is hybridized to the best fitting part of the long one. The tool is primarily meant as a means for microRNA target prediction.

Abbreviations: RNAhybrid

Resource Type: analysis service resource, data analysis service, production service resource, service resource, software resource

Defining Citation: PMID:15383676, DOI:10.1261/rna.5248604

Keywords: microrna, target prediction, free energy, rna, bio.tools

Availability: Free, Available for download, Freely available

Resource Name: RNAhybrid

Resource ID: SCR_003252

Alternate IDs: OMICS_00416, biotools:rnahybrid, nif-0000-31412

Alternate URLs: https://bio.tools/rnahybrid, https://sources.debian.org/src/rnahybrid/

Record Creation Time: 20220129T080218+0000

Record Last Update: 20260903T234603+0000

Ratings and Alerts

No rating or validation information has been found for RNAhybrid.

No alerts have been found for RNAhybrid.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 517 mentions in open access literature.

Listed below are recent publications. The full list is available at kravitz2 .

Xin Q, et al. (2026) Novel miR-290 regulates melanogenesis in Liancheng white ducks via the PI3K/AKT signaling pathway. Poultry science, 105(1), 106216.

Hassan M, et al. (2026) Assessment of miRNAs as transcriptional regulators in respiratory syncytial virus infection through computational analysis and molecular docking studies. PloS one, 21(3), e0345571.

Zhang YY, et al. (2026) Wolbachia-driven host miRNAs mediate arthropod reproduction in a Wolbachia density-dependent manner. Communications biology, 9(1).

Pasculli E, et al. (2026) Apple-derived miR-482a-3p decreases c-MYB expression and proliferation of human intestinal cell lines. PloS one, 21(4), e0347565.

Li H, et al. (2026) Study on Regulatory Mechanism of Gastrodia elata Specific microRNA Targeting JNK3 in Alzheimer's Disease. Molecules (Basel, Switzerland), 31(12).

Chen Y, et al. (2026) Fibroblast circSamd4 promotes cardiac fibrosis via activating plasminogen activator inhibitor-1. Redox biology, 90, 104018.

He J, et al. (2026) Pan-tissue transcriptomic profiling of dairy cattle. Journal of animal science and biotechnology, 17(1).

Zeng L, et al. (2026) Functional genomics reveals key gene families and molecular pathways for extreme cold survival in the khapra beetle. BMC biology, 24(1).

Goswami S, et al. (2026) miRNA-Mediated Signaling Networks in Non-Small Cell Lung Cancer: Linking Tumor Progression to Sarcopenia. International journal of molecular sciences, 27(11).

Lang X, et al. (2026) FungiSNC: An integrated database for fungi small non-coding RNAs based on high-throughput sequencing. Journal of advanced research, 84, 187.

Cao Y, et al. (2026) A Dual-Regulatory Mechanism of Estrogen on MTTPL-Mediated Hepatic Lipid Transport in Chickens: Involvement of PPAR?? and miR-7439-3p. Journal of agricultural and food chemistry, 74(7), 6463.

Cheng X, et al. (2026) gga-let-7c-3p Inhibits Chicken Abdominal Adipogenesis by Regulating PPARD Gene. Biomolecules, 16(2).

Kong D, et al. (2026) The Role of lncRNA GAS5 in Oxidative Stress and Mitochondrial Dysfunction in Age-Related Cataracts: Insights From Transcriptome Profiling. Investigative ophthalmology & visual science, 67(6), 7.

Wang M, et al. (2026) Construction of TF-lncRNA-miRNA-mRNA Regulatory Network Affecting Sow Reproduction Based on QTLs for Corpus Luteum Number. Animals : an open access journal from MDPI, 16(11).

Liu S, et al. (2026) miR-26a-5p inhibits the proliferation and myogenic differentiation of chicken BMSCs by targeting MDFIC. Poultry science, 105(10), 107181.

Zhao Y, et al. (2026) Thermal Plasticity is Regulated by a Key MicroRNA During Range Expansion of an Invasive Fruit Fly. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(23), e07662.

Chen S, et al. (2026) Engineered bone-targeting Lycium barbarum L.-derived extracellular vesicle-like nanoparticles deliver miR167a-5p to regulate mitochondrial dynamics and metabolic reprogramming in alleviating osteoporosis. Materials today. Bio, 38, 103312.

Zhao H, et al. (2026) Time-Resolved Whole-Transcriptome Analysis Suggests Candidate Non-Coding RNA Regulatory Networks Associated with PBAN-Induced Pheromone Biosynthesis in Ostrinia furnacalis. Insects, 17(6).

Yang J, et al. (2026) Integrative transcriptomic analysis uncovers the microRNA-centric regulation of Japanese encephalitis virus infection in porcine trophoblast cells. Virulence, 17(1), 2690825.

Ren Y, et al. (2026) Shengjiangsan Upregulates miR-328-3p to Inhibit MAP3K9 in the Treatment of Sjogren Disease: A Bioinformatics Analysis. Journal of inflammation research, 19, 573255.