

Resource Summary Report

Generated by [ASWG](#) on Aug 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: production service resource, data analysis service, analysis 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: 20260804T043216+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 477 mentions in open access literature.

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

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.

Cheng S, et al. (2025) Identification and characterization of microRNAs in the liver of yak (*Bos grunniens*) associated with energy deficiency at high-altitude. Animal bioscience, 38(7), 1372.

Tripathi S, et al. (2025) LncRNA JINR1 regulates miR-216b-5p/GRP78 and miR-1-3p/DDX5 axis to promote JEV infection and cell death. Journal of virology, 99(5), e0006625.

Ariyachet C, et al. (2025) MicroRNA-885-5p regulates cell cycle progression in liver cancer cells. International journal of molecular medicine, 56(5).

He L, et al. (2025) sRNA113 regulates *Pseudomonas plecoglossicida* motility to affect immune response against infection in pearl gentian grouper. Zoological research, 46(1), 152.

Tiwari H, et al. (2025) In Silico Hybridization and Molecular Dynamics Simulations for the Identification of Candidate Human MicroRNAs for Inhibition of Virulent Proteins' Expression in *Staphylococcus aureus*. Journal of cellular biochemistry, 126(1), e30684.

Farrokhnazar E, et al. (2025) MiR-3664-3p through suppressing ABCG2, CYP3A4, MCL1, and MLH1 increases the sensitivity of colorectal cancer cells to irinotecan. Heliyon, 11(3), e41933.

Chen Z, et al. (2025) Placental whole transcriptome expression profile in patients with early-onset, late-onset preeclampsia and gestational diabetes mellitus. Scientific reports, 15(1), 19476.

Shao L, et al. (2025) Let-7a-5p derived from parathyroid hormone (1-34)-preconditioned BMSCs exosomes delays the progression of osteoarthritis by promoting chondrocyte proliferation and migration. Stem cell research & therapy, 16(1), 299.

Jiang Y, et al. (2025) miR-17-5p-PD-L1 pathway is a potential mechanism by which stress inhibits immune response to NDV vaccine in chickens. Poultry science, 104(9), 105480.

- Guelfi G, et al. (2025) A miR-30 Guided Molecular Profiling of Canine Osteosarcoma and Extraskkeletal Osteosarcoma Reveals Non-Seed Regulatory Divergence. *Cells*, 14(16).
- Shen L, et al. (2025) RNase P generated tRFSer-GCT promotes fat storage in adipocytes via Adrb2 signaling. *The Journal of biological chemistry*, 301(12), 110820.
- Xie MQ, et al. (2025) Regulatory networks of mRNAs and miRNAs involved in the immune response of diamondback moth, *Plutella xylostella* to fungal infection. *BMC genomics*, 26(1), 15.
- Alatawi FS, et al. (2025) Rutin attenuates bleomycin-induced acute lung injury via miR-9-5p mediated NF- κ B signaling inhibition: network pharmacology analysis and experimental evidence. *Frontiers in pharmacology*, 16, 1522690.
- Yang S, et al. (2025) Identification of sex-biased and gonadal developmental miRNAs during critical windows of early gonadal differentiation in the Chinese giant salamander (*Andrias davidianus*). *BMC genomics*, 26(1), 238.
- Wei W, et al. (2025) Exosomal miR-3681-3p from M2-polarized macrophages confers cisplatin resistance to gastric cancer cells by targeting MLH1. *Molecular medicine reports*, 31(4).
- Han T, et al. (2025) In-depth single-cell transcriptomic exploration of the regenerative dynamics in stony coral. *Communications biology*, 8(1), 652.
- Wang Y, et al. (2025) Reconstruction of the lncRNA-miRNA-mRNA network based on competitive endogenous RNA reveals functional miRNAs and lncRNAs in burns and keloids. *PloS one*, 20(4), e0320855.
- Yang Y, et al. (2025) Mechanism of microRNA-152 Regulating Decidual Natural Killer Cell Viability and Affecting Trophoblast Cell Invasiveness via the HLA-G/KIR2DL4 Axis. *The Kaohsiung journal of medical sciences*, 41(5), e70019.
- Yuan C, et al. (2025) *Haemaphysalis longicornis* subolesin controls the infection and transmission of severe fever with thrombocytopenia syndrome virus. *NPJ vaccines*, 10(1), 17.