

# Resource Summary Report

Generated by [dkNET](#) on Aug 24, 2026

## miRanda

RRID:SCR\_017496

Type: Tool

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### Proper Citation

miRanda (RRID:SCR\_017496)

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### Resource Information

**URL:** <http://www.mirtoolsgallery.org/miRToolsGallery/node/1055>

**Proper Citation:** miRanda (RRID:SCR\_017496)

**Description:** Comprehensive resource of microRNA target predictions and expression profiles. Used for whole genome prediction of miRNA target genes. For each miRNA, target genes are selected on basis of sequence complementarity using position weighted local alignment algorithm, free energies of RNA-RNA duplexes, and conservation of target sites in related genomes. Provides information about set of genes potentially regulated by particular microRNA, co-occurrence of predicted target sites for multiple microRNAs in mRNA and microRNA expression profiles in tissues. Users are allowed to customize algorithm, numerical parameters, and position-specific rules., THIS RESOURCE IS NO LONGER IN SERVICE. Documented on September 16,2025.

**Synonyms:** MicroRNA.org. microrna.org

**Resource Type:** data or information resource, database, service resource

**Defining Citation:** [PMID:18158296](#)

**Keywords:** Whole, genome, prediction, miRNA, target, gene, expression, profile, data, FASEB list

**Funding:** Alfred W. Bressler Scholars Endowment Fund ;  
Atlantic Philanthropies ;  
NIGMS

**Availability:** THIS RESOURCE IS NO LONGER IN SERVICE

**Resource Name:** miRanda

**Resource ID:** SCR\_017496

**Alternate URLs:** <http://www.microrna.org/microrna/home.do>

**Record Creation Time:** 20220129T080335+0000

**Record Last Update:** 20260821T194118+0000

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## Ratings and Alerts

No rating or validation information has been found for miRanda.

No alerts have been found for miRanda.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 281 mentions in open access literature.

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

Alsaweed M, et al. (2026) Human Milk MiRNA Acts on Infections in Both the Maternal Body and the Child During Breastfeeding. Life (Basel, Switzerland), 16(6).

Yuan Y, et al. (2026) Exosomal miR-373-3p Derived from Docetaxel-Resistant Lung Cancer Cells Targets PDCD4 to Promote Proliferation and Inhibit Apoptosis in Lung Cancer Cells. Biomedicines, 14(5).

Chen P, et al. (2026) MicroRNA-375-3p Targets Fatty Acid Synthase and Relish to Regulate Energy Allocation During Pupal Metamorphosis and Starvation. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(20), e13486.

Zhang K, et al. (2026) Novel\_circ\_002651 regulates the immune defense of eastern honeybee larvae against fungal invasion through sponging miR-6001-y. Virulence, 17(1), 2656530.

Ye Q, et al. (2026) mmu\_circ\_0012122/mmu-miR-1843-5p/Sertad2 axis: A novel regulatory pathway in rabies virus infection. Virulence, 17(1), 2690777.

Wang A, et al. (2026) Exosomes derived from stem cells from apical papilla reduce Th17 cell differentiation and hyposalivation in a murine model of Sjögren's disease. BMC oral health, 26(1).

Feng Q, et al. (2025) Innate Immune Evasion of Porcine Epidemic Diarrhea Virus Through miRNA-193a-5p/IL22/pBD1 Pathway in Intestinal Epithelium. Transboundary and emerging diseases, 2025, 7421187.

Khairy E, et al. (2025) Insights into the role of miR-877 and histidine-rich glycoprotein in preeclampsia. Archives of medical science : AMS, 21(2), 675.

Dai X, et al. (2025) Estradiol and vitamin D exert a synergistic effect on preventing osteoporosis via the miR-351-5p/IRS1 axis and mTOR/NF- $\kappa$ B signaling pathway. *Scientific reports*, 15(1), 18678.

Li H, et al. (2025) Cardiomyocyte-derived exosomes carrying miR-181a-5p facilitate heart-brain crosstalk and exacerbate methamphetamine dependence in rats. *Frontiers in pharmacology*, 16, 1541442.

Biswas T, et al. (2025) Differentially expressed miRNAs offer new perspective into cave adaptation of *Astyanax mexicanus*. *Annals of the New York Academy of Sciences*, 1546(1), 173.

Zhang K, et al. (2025) Identification and validation of palmitoylation-related biomarkers in gestational diabetes mellitus. *Scientific reports*, 15(1), 8019.

Godden AM, et al. (2025) Environmentally induced variation in sperm sRNAs is linked to gene expression and transposable elements in zebrafish offspring. *Heredity*, 134(3-4), 234.

Zhang Q, et al. (2025) Identification of potential anti aging drugs and targets in chronic kidney disease. *Scientific reports*, 15(1), 15545.

Ullah K, et al. (2025) Target miRNA identification for the LPL gene in large yellow croaker (*Larimichthys crocea*). *Scientific reports*, 15(1), 4164.

Sheng B, et al. (2025) Exosomes-mediated delivery of miR-486-3p alleviates neuroinflammation via SIRT2-mediated inhibition of mitophagy after subarachnoid hemorrhage. *Stroke and vascular neurology*, 10(3), 335.

Abudoureyimu M, et al. (2025) Aurora-A promotes lenvatinib resistance experimentally through hsa-circ-0058046/miR-424-5p/FGFR1 axis in hepatocellular carcinoma. *International journal of immunopathology and pharmacology*, 39, 3946320251316692.

Cheng J, et al. (2025) MiR-146b-5p inhibits *Candida albicans*-induced inflammatory response through targeting HMGB1 in mouse primary peritoneal macrophages. *Heliyon*, 11(1), e41464.

Wu X, et al. (2025) Genome-wide identification of WRKY gene family and expression analysis of key WRKY genes in response to *Fusarium solani* infection in *Lycium barbarum*. *Frontiers in plant science*, 16, 1543373.

Zhang Y, et al. (2025) Integrated bioinformatics identifies ferroptosis biomarkers and therapeutic targets in idiopathic pulmonary arterial hypertension. *Scientific reports*, 15(1), 25187.