Resource Summary Report

Generated by Kravitz on Sep 10, 2026

miRanda

RRID:SCR_017496
Type: Tool

Proper Citation

miRanda (RRID:SCR_017496)

Resource Information

URL: http://www.mirtoolsgallery.org/miRToolsGallery/node/1055

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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 ;
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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: 20260905T133215+0000

Ratings and Alerts

No rating or validation information has been found for miRanda.

No alerts have been found for miRanda.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 281 mentions in open access literature.

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

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).

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.

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.

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.

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.

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

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

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?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.

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.

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.

Chen B, et al. (2025) Machine learning identifies potential diagnostic biomarkers associated with ferroptosis in obstructive sleep apnea. Experimental and therapeutic medicine, 29(5), 95.

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.