# **Resource Summary Report**

Generated by NIF on Apr 19, 2025

## 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.

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

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

**Defining Citation: PMID:18158296** 

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

**FASEB** list

Funding: NIGMS; Atlantic Philanthropies;

Alfred W. Bressler Scholars Endowment Fund

Availability: Free, Freely available

Resource Name: miRanda

Resource ID: SCR\_017496

Alternate URLs: http://www.microrna.org/microrna/home.do

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

**Record Last Update:** 20250416T063825+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 183 mentions in open access literature.

**Listed below are recent publications.** The full list is available at <u>NIF</u>.

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.

Huang S, et al. (2025) hsa\_circ\_0008305 facilitates the malignant progression of hepatocellular carcinoma by regulating AKR1C3 expression and sponging miR-379-5p. Scientific reports, 15(1), 1309.

Shen Y, et al. (2024) MicroRNA-877-5p promotes osteoblast differentiation by targeting EIF4G2 expression. Journal of orthopaedic surgery and research, 19(1), 134.

Sun J, et al. (2024) MicroRNA?17?5p alleviates sepsis?related acute kidney injury in mice by modulating inflammation and apoptosis. Molecular medicine reports, 30(2).

Liu J, et al. (2024) Microstructure changes and miRNA-mRNA network in a developmental dysplasia of the hip rat model. iScience, 27(4), 109449.

Sun Y, et al. (2024) Analysis of miRNAs involved in mouse brain injury upon Coxsackievirus A6 infection. Frontiers in cellular and infection microbiology, 14, 1405689.

Zhang W, et al. (2024) Deregulation of circRNA hsa\_circ\_0009109 promotes tumor growth and initiates autophagy by sponging miR-544a-3p in gastric cancer. Gastroenterology report,

12, goae008.

Lin H, et al. (2024) Unraveling the role of microRNAs: potential biomarkers for gestational diabetes mellitus revealed through RNA sequencing analysis. Archives of gynecology and obstetrics, 310(2), 1255.

Li W, et al. (2024) Whole transcriptome sequencing reveals key genes and ceRNA regulatory networks associated with pimpled eggs in hens. Poultry science, 103(6), 103715.

Song Y, et al. (2024) Long noncoding RNA UNC5B-AS1 suppresses cell proliferation by sponging miR-24-3p in glioblastoma multiforme. BMC medical genomics, 17(1), 83.

Xie S, et al. (2024) Noncoding RNA-associated competing endogenous RNA networks in trastuzumab-induced cardiotoxicity. Non-coding RNA research, 9(3), 744.

Yang W, et al. (2024) Blocking CCL3-mediated neutrophil recruitment into the brain alleviates immunopathology following severe enterovirus 71 infection. iScience, 27(12), 111388.

Wu F, et al. (2024) Exosomes derived from BMSCs in osteogenic differentiation promote type H blood vessel angiogenesis through miR-150-5p mediated metabolic reprogramming of endothelial cells. Cellular and molecular life sciences: CMLS, 81(1), 344.

Zhang Y, et al. (2024) Identification of atrial fibrillation-related genes through transcriptome data analysis and Mendelian randomization. Frontiers in cardiovascular medicine, 11, 1414974.

Lodde V, et al. (2024) Identification of hsa\_circ\_0018905 as a New Potential Biomarker for Multiple Sclerosis. Cells, 13(19).

Zhang X, et al. (2024) Downregulation of microRNA?221?3p promotes angiogenesis of lipoprotein(a)?injured endothelial progenitor cells by targeting silent information regulator 1 to activate the RAF/MEK/ERK signaling pathway. Molecular medicine reports, 30(6).

Yan J, et al. (2024) Analysis of Potential Circular RNAs in Regulating Imatinib Resistance of Gastrointestinal Stromal Tumor. Combinatorial chemistry & high throughput screening, 27(9), 1371.

Mosaad H, et al. (2024) LncRNA ANRIL Promotes Glucose Metabolism and Proliferation of Colon Cancer in a High-Glucose Environment and is Associated with Worse Outcome in Diabetic Colon Cancer Patients. Asian Pacific journal of cancer prevention: APJCP, 25(4), 1371.

Ma N, et al. (2024) Relationship between circulating thrombospondin-1 messenger ribonucleic acid and microribonucleic acid-194 levels in Chinese patients with type?2 diabetic kidney disease: The outcomes of a case-control study. Journal of diabetes investigation, 15(9), 1248.

Yu J, et al. (2024) Identification of hsa-miR-193a-5p-SURF4 axis related to the gut microbiota-metabolites- cytokines in lung cancer based on Mendelian randomization study

and bioinformatics analysis. Discover oncology, 15(1), 475.