

Resource Summary Report

Generated by SPARC SAWG on Sep 12, 2026

miRTarBase

RRID:SCR_017355

Type: Tool

Proper Citation

miRTarBase (RRID:SCR_017355)

Resource Information

URL: <http://mirtarbase.mbc.nctu.edu.tw/>

Proper Citation: miRTarBase (RRID:SCR_017355)

Description: Web based manually curated experimentally validated database of microRNA-Target interactions. Collection of MTIs data validated experimentally by reporter assays, western blot, or microarray experiments with overexpression or knockdown of miRNAs.

Synonyms: microRNA-Target interactions Base

Resource Type: data or information resource, database

Defining Citation: [PMID:29126174](#)

Keywords: Manually, curated, experimentally, validated, database, microRNA, target, interaction, collection, data, MTI, FASEB list

Funding: Ministry of Science and Technology ;
Taiwan

Availability: Free, Available for download, Freely available

Resource Name: miRTarBase

Resource ID: SCR_017355

Alternate URLs: <http://mirtarbase.mbc.nctu.edu.tw/php/index.php>

Record Creation Time: 20220129T080334+0000

Record Last Update: 20260912T200218+0000

Ratings and Alerts

No rating or validation information has been found for miRTarBase.

No alerts have been found for miRTarBase.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 432 mentions in open access literature.

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

Gao J, et al. (2026) MiR-181a-5p/CDK6 axis attenuates cell proliferation, migration and glycolytic reprogramming in oral squamous cell carcinoma. *Cancer cell international*, 26(1).

Liu B, et al. (2026) Shared molecular features and candidate pathways underlying gastric cancer-depression comorbidity: a systems biology analysis. *Frontiers in bioinformatics*, 6, 1836419.

Lai YH, et al. (2026) Fibrotic microRNAs in the suppression of HSC activation and ECM deposition to facilitate the regression of hepatic fibrosis in zebrafish. *Journal of molecular medicine (Berlin, Germany)*, 104(1).

Liang H, et al. (2026) Integrative Bioinformatics Analyses Reveal X Chromosome Inactivation Escape Genes Dosage Dysregulation Is the Primary Contributor to Turner Syndrome. *Iranian journal of biotechnology*, 24(2).

Manoochehri H, et al. (2026) Identifying Prognostic Biomarkers and Key Pathways in Renal Clear Cell Carcinoma: A Pilot Study Using Integrated miRNA and Gene Expression Analysis. *Biochemistry research international*, 2026, 3213941.

Matos VUS, et al. (2026) AAV-Driven miR-146a Promotes Neurite Outgrowth and Axonal Regeneration in Cortical Neurons. *Journal of neurochemistry*, 170(2), e70372.

Li M, et al. (2026) ITPG: an immune-related transcriptomic predictive model for gastric cancer prognosis. *Translational cancer research*, 15(2), 125.

Cando LF, et al. (2026) Targeting microRNA let-7b-5p-mediated aberrant androgen receptor signaling for prevention of hormone receptor-negative breast cancer. *NPJ breast cancer*.

Flores-Fortis M, et al. (2026) Loss of miR-122 promotes cell migration and poor prognosis in triple-negative breast cancer treated by neoadjuvant chemotherapy. *Clinical & translational oncology : official publication of the Federation of Spanish Oncology Societies and of the National Cancer Institute of Mexico*, 28(4), 1285.

Wang G, et al. (2026) Development of a prognostic model for thyroid cancer based on mitochondrial metabolism-related genes and immune profiling. *World journal of surgical oncology*, 24(1), 67.

Wang X, et al. (2026) circMRPL35 promotes gastric cancer progression through the miR-6809-3p/ZNF90 axis and affects the EMT process and TGF- β 1/SMAD2/3 signaling. *Non-coding RNA research*, 16, 79.

Yasmin MF, et al. (2026) Gene expression and metadata based identification of key genes for lung cancer, COPD, and IPF using machine learning and statistical models. *PloS one*, 21(3), e0344666.

Mokhtari A, et al. (2025) Using multiomic integration to improve blood biomarkers of major depressive disorder: a case-control study. *EBioMedicine*, 113, 105569.

Wei W, et al. (2025) Deciphering the role of lncRNA-mediated ceRNA network in disuse osteoporosis: insights from bone marrow mesenchymal stem cells under simulated microgravity. *Frontiers in medicine*, 12, 1444165.

Wang Z, et al. (2025) The up-regulation of TGF- β 1 by miRNA-132-3p/WT1 is involved in inducing leukemia cells to differentiate into macrophages. *PloS one*, 20(5), e0306150.

Lao C, et al. (2025) Screening biomarkers related to cholesterol metabolism in osteoarthritis based on transcriptomics. *Scientific reports*, 15(1), 21218.

Xing N, et al. (2025) Alzheimer's disease: an integrative bioinformatics and machine learning analysis reveals glutamine metabolism-associated gene biomarkers. *BMC pharmacology & toxicology*, 26(1), 19.

Wang Y, et al. (2025) Trillin inhibits MAP3K11/NF- κ B/COX-2 signaling pathways through upregulation of miR-145-5p in castration-resistant prostate cancer. *iScience*, 28(2), 111505.

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.

Cui Y, et al. (2025) DEP domain containing 1: a potential oncogenic driver. *Biological research*, 58(1), 64.