

Resource Summary Report

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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: database, data or information resource

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: 20260725T191212+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 321 mentions in open access literature.

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

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

Nie H, et al. (2025) Transcriptome Data Combined With Mendelian Randomization Analysis Identifies Key Genes Associated With Mitochondria and Programmed Cell Death in Intervertebral Disc Degeneration. *JOR spine*, 8(1), e70057.

Luo X, et al. (2025) *Ardisia japonica* (Thunb.) Blume and *Lespedeza cuneata* G. Don may treat chronic obstructive pulmonary disease by targeting HK2 and PTAFR. *Frontiers in medicine*, 12, 1527632.

Zhou X, et al. (2025) The working mechanism of biomarkers related to sumoylation modification in coronary artery disease. *Scientific reports*, 15(1), 17055.

Ouyang ML, et al. (2025) Imaging and RNA sequencing-based radiogenomic analysis of occult lymph node metastasis and survival in lung adenocarcinoma staged non-metastatic. *Communications medicine*, 5(1), 517.

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.

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.

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.

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.

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

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

Li L, et al. (2025) Identification and validation of PANoptosis-related biomarkers in Alzheimer's disease via single-cell RNA sequencing and machine learning. *European journal of medical research*, 30(1), 1170.

Morales AE, et al. (2025) Bat genomes illuminate adaptations to viral tolerance and disease resistance. *Nature*, 638(8050), 449.

Xing Y, et al. (2025) Transcriptome associated with single-cell analysis reveal the role of S-palmitoylation in coronary artery disease. *Scientific reports*, 15(1), 15144.

Wang S, et al. (2025) Based exploration of the diagnostic value of oxidative stress-related key genes in chronic obstructive pulmonary disease. *Cell biology and toxicology*, 41(1), 69.

Wang X, et al. (2025) Lactate-related gene signatures predict prognosis and immune profiles in esophageal squamous cell carcinoma. *Scientific reports*, 15(1), 24032.

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

Yang H, et al. (2025) Targeting ferroptosis in prostate cancer management: molecular mechanisms, multidisciplinary strategies and translational perspectives. *Journal of translational medicine*, 23(1), 166.

Zhao Q, et al. (2025) Identification of mitophagy-related genes impacting patient survival in glioma. *Discover oncology*, 16(1), 140.