

Resource Summary Report

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miRWalk

RRID:SCR_016509

Type: Tool

Proper Citation

miRWalk (RRID:SCR_016509)

Resource Information

URL: <http://mirwalk.umm.uni-heidelberg.de/>

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Description: Software tool to store the predicted and the experimentally validated microRNA (miRNA)-target interaction pairs. Predictions within the complete sequence of genes of human, mouse, and rat genomes. Integrates a comparative platform of miRNA-binding sites resulting from ten different prediction datasets.

Resource Type: data or information resource, database

Defining Citation: [PMID:26226356](https://pubmed.ncbi.nlm.nih.gov/26226356/)

Keywords: microRNA, target, interaction, pair, binding, site, sequence, gene, data, FASEB list

Funding:

Availability: Free, Available for download, Freely available

Resource Name: miRWalk

Resource ID: SCR_016509

Record Creation Time: 20220129T080331+0000

Record Last Update: 20250331T061448+0000

Ratings and Alerts

No rating or validation information has been found for miRWalk.

No alerts have been found for miRWalk.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 998 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Liu Y, et al. (2025) miR-143-3p/TET1 Axis Regulates GPC1 Through DNA Methylation and Impairs the Malignant Biological Behaviour of HCC via the Hippo Signalling Pathway. *Journal of cellular and molecular medicine*, 29(2), e70282.

Hou SM, et al. (2025) NGF-TrkA Axis Enhances PDGF-C-Mediated Angiogenesis in Osteosarcoma via miR-29b-3p Suppression: A Potential Therapeutic Strategy Using Larotrectinib. *Life (Basel, Switzerland)*, 15(1).

Du W, et al. (2025) Integrated bioinformatics and experimental analysis of CHAF1B as a novel biomarker and immunotherapy target in LUAD. *Discover oncology*, 16(1), 43.

Zhou J, et al. (2025) Discovery and validation of Hsa-microRNA-3665 promoter methylation as a potential biomarker for the prognosis of esophageal squamous cell carcinoma. *International journal of clinical oncology*, 30(2), 309.

De Leo I, et al. (2025) Transcriptomic-Based Identification of miR-125a Novel Targets in Human Hepatocarcinoma Cells. *Biomolecules*, 15(1).

Wei X, et al. (2025) CircUCK2(2,3) promotes cancer progression and enhances synergistic cytotoxicity of lenvatinib with EGFR inhibitors via activating CNIH4-TGF β -EGFR signaling. *Cellular & molecular biology letters*, 30(1), 15.

Huang T, et al. (2025) Macrophage Infiltration and ITGB2 Expression in ESCC: A Novel Correlation. *Cancer medicine*, 14(2), e70604.

Ahmadi M, et al. (2025) Bioinformatics analysis of mitochondrial metabolism-related genes demonstrates their importance in renal cell carcinoma. *Discover oncology*, 16(1), 28.

Zhao Y, et al. (2025) Mir-615-5p inhibits cervical cancer progression by targeting TMIGD2. *Hereditas*, 162(1), 4.

Zhang S, et al. (2025) Integrative mRNA and miRNA Expression Profiles from Developing Zebrafish Head Highlight Brain-Preference Genes and Regulatory Networks. *Molecular*

neurobiology, 62(2), 2148.

Lv A, et al. (2025) Upregulation of miR-6747-3p affects red blood cell lineage development and induces fetal hemoglobin expression by targeting BCL11A in β -thalassemia. *Molecular medicine reports*, 31(1).

Chen G, et al. (2025) Identification of prognostic biomarkers of sepsis and construction of ceRNA regulatory networks. *Scientific reports*, 15(1), 2850.

Hart M, et al. (2025) Expanding the immune-related targetome of miR-155-5p by integrating time-resolved RNA patterns into miRNA target prediction. *RNA biology*, 22(1), 1.

Wang M, et al. (2025) Hypoxic BMSC-derived exosomal miR-210-3p promotes progression of triple-negative breast cancer cells via NFIX-Wnt/ β -catenin signaling axis. *Journal of translational medicine*, 23(1), 39.

Liu N, et al. (2024) LncRNA CARMN m6A demethylation by ALKBH5 inhibits mutant p53-driven tumour progression through miR-5683/FGF2. *Clinical and translational medicine*, 14(7), e1777.

Wu H, et al. (2024) METTL14/miR-29c-3p axis drives aerobic glycolysis to promote triple-negative breast cancer progression through TRIM9-mediated PKM2 ubiquitination. *Journal of cellular and molecular medicine*, 28(3), e18112.

Jin Q, et al. (2024) Prognostic and immunological role of adaptor related protein complex 3 subunit mu2 in colon cancer. *Scientific reports*, 14(1), 483.

Paim LR, et al. (2024) Profile of serum microRNAs in heart failure with reduced and preserved ejection fraction: Correlation with myocardial remodeling. *Heliyon*, 10(6), e27206.

Arderiu G, et al. (2024) Differentiation of Adipose Tissue Mesenchymal Stem Cells into Endothelial Cells Depends on Fat Depot Conditions: Regulation by miRNA. *Cells*, 13(6).

Zhou M, et al. (2024) LncRNA PTPRG-AS1 Promotes Breast Cancer Progression by Modulating the miR-4659a-3p/QPCT Axis. *OncoTargets and therapy*, 17, 805.