

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](#)

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

Availability: Free, Available for download, Freely available

Resource Name: miRWalk

Resource ID: SCR_016509

Record Creation Time: 20220129T080331+0000

Record Last Update: 20260912T200217+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

Usage and Citation Metrics

We found 1741 mentions in open access literature.

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

Jeng AC, et al. (2026) Elevated zygotic let-7f-5p alters developmental trajectories and sex-specific somatic growth. *iScience*, 29(6), 116115.

Pasbola K, et al. (2026) Transcriptome profiling reveals the role of XIST/miR-335-5p regulatory axis as a crucial mediator of chemoresistance in esophageal cancer by influencing EMT and Ferroptosis. *Functional & integrative genomics*, 26(1).

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

Anwar M, et al. (2026) Human Left Ventricle circRNA-miRNA-mRNA Network Analyses Reveal a Novel Proangiogenic Role for circNPHP1 Under Ischemic Conditions. *JACC. Basic to translational science*, 11(2), 101468.

Cai Z, et al. (2026) Exploring the key molecular mechanisms and immune microenvironment of oxidative stress-related pathways in pancreatic neuroendocrine tumor combining scRNA-seq and bulk RNA. *Discover oncology*, 17(1), 342.

Georgiou G, et al. (2026) Integrative Network Analysis of Single-Cell RNA Findings and a Priori Knowledge Highlights Gene Regulators in Multiple Myeloma Progression. *International journal of molecular sciences*, 27(2).

Li Z, et al. (2026) Potential of SP1 as a prognostic marker and therapeutic target in acute myocardial infarction: a bioinformatics, Mendelian randomization and experimental validation study. *Frontiers in immunology*, 17, 1742618.

Ni Q, et al. (2026) TMT proteomics reveals that miR-425-5p promotes proliferation and metastasis of malignant melanoma by inhibiting SCARA5. *Cancer cell international*, 26(1).

Matboli M, et al. (2026) Identification of NFKB1, miR-342-5p, -5192, and - 15b as diagnostic biomarkers for periodontitis in type 2 diabetes mellitus: a cross-sectional and experimental study. *BMC oral health*, 26(1).

Parvaz N, et al. (2026) Integrative bioinformatics and molecular analysis revealed the roles of mTOR/S6K Axis, CASC15, and miR-30a-3p in laryngeal squamous cell carcinoma. *Scientific reports*, 16(1).

Kumar R, et al. (2026) Identifying regulatory driver motifs in non-small cell lung carcinoma via a systematic approach. *PloS one*, 21(2), e0340798.

Zhou J, et al. (2026) Cadmium exposure induces renal fibrosis by inhibiting hsa_circ_0075684/miR-363-3p/KLF4 signaling pathway. *Scientific reports*, 16(1).

Soliman B, et al. (2026) Let-7a and miR-34a Interplay Potent Suppressive Roles in Hepatocellular Carcinoma via Co-Targeting FNDC3B, IGF2 and SOX4. International journal of molecular sciences, 27(4).

Sukor ANA, et al. (2026) Regulatory Role of miR-196a-5p in Angiogenesis-Related Markers in Endothelial Cells Exposed to Hypertensive Pregnancies. International journal of molecular sciences, 27(4).

Ghilardi S, et al. (2026) Identification of altered salivary microRNAs in Cavalier King Charles Spaniels affected by mitral valve disease at different ACVIM stages. Scientific reports, 16(1).

Li J, et al. (2026) Circ_0001428 regulates erythropoiesis and β -globin expression via activating the ATF4-BCL11A axis in β -thalassemia. Cellular and molecular life sciences : CMLS, 83(1).

Xia C, et al. (2026) Circular RNA hsa_circ_0003472 Promotes Pancreatic Ductal Adenocarcinoma Progression and Gemcitabine Resistance Via the mir-1253/ERCC1 Axis. Biological procedures online, 28(1).

Saleri S, et al. (2026) Alterations of microRNAs across human and mouse limbic brain areas: molecular mechanisms and biological processes involved in major depressive disorder. Neurobiology of stress, 42, 100816.

Matboli M, et al. (2026) Machine learning-based prediction model for drug target identification and MASH improvement: a comprehensive analysis of biochemical and ferroptosis/autophagy biomarkers. Journal of physiology and biochemistry, 82(1).

Shi D, et al. (2026) miR-30b-5p suppresses prostate cancer progression by targeting FLVCR1 through the cAMP/PKA/CREB pathway. Scientific reports, 16(1).