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: 20260729T044416+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 1180 mentions in open access literature.

Listed below are recent publications. The full list is available at kravitz2 .

Yang S, et al. (2026) Identification of Notch pathway-related biomarkers in patients with idiopathic pulmonary fibrosis. PloS one, 21(1), e0339287.

Cui Y, et al. (2026) MicroRNA?199a?3p suppresses non?small cell lung cancer progression by targeting FTO to enhance m6A?mediated downregulation of MZF1 and its transcriptional activation of CLDND1. Molecular medicine reports, 33(1).

Hou CH, et al. (2026) FGF-23 facilitates osteosarcoma metastasis by modulating the miR-4463/LOXL2 axis expression via the ERK, p38, and JNK signaling pathway. International journal of medical sciences, 23(1), 12.

Wang GS, et al. (2026) WISP-3 facilitates CCL4-dependent monocyte migration and M1 polarization in rheumatoid arthritis by inhibiting miR-6894-5p. International journal of medical sciences, 23(1), 301.

Sun W, et al. (2026) Targeting of CIRP attenuates osteoarthritis progression via suppressing TLR4/NF??B/NLRP3 signaling axis. International journal of molecular medicine, 57(1).

Alemi M, et al. (2025) Suppression of mTOR Signaling by miR-302/367 Cluster in Breast Cancer Cells. FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 39(16), e70943.

Kang S, et al. (2025) Dicer is essential for proper maturation, composition, and function in the postnatal retina. iScience, 28(11), 113794.

Li M, et al. (2025) SLC43A2-mediated immune cell infiltration: a potential therapeutic target in acute myeloid leukemia. Frontiers in immunology, 16, 1655766.

Rhim WK, et al. (2025) Multiplexed PLGA scaffolds with nitric oxide-releasing zinc oxide and melatonin-modulated extracellular vesicles for severe chronic kidney disease. Journal of advanced research, 69, 75.

Tobaruela-Resola AL, et al. (2025) Circulating miR-122-5p, miR-151a-3p, miR-126-5p and miR-21-5p as potential predictive biomarkers for Metabolic Dysfunction-Associated Steatotic Liver Disease assessment. Journal of physiology and biochemistry, 81(4), 1275.

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).

Chen R, et al. (2025) PRKD2 as a novel target for targeting the diabetes-osteoporosis nexus. Scientific reports, 15(1), 4703.

Ming J, et al. (2025) Long non-coding RNA H19 promotes cervical cancer development via targeting the microRNA-140/ALDH1A1 axis. European journal of medical research, 30(1), 95.

Song X, et al. (2025) BANCR-containing extracellular vesicles enhance breast cancer resistance. The Journal of biological chemistry, 301(4), 108304.

Zhou X, et al. (2025) Association of MiRNA Polymorphisms Involved in the PI3K/ATK/GSK3? Pathway with T2DM in a Chinese Population. Pharmacogenomics and personalized medicine, 18, 71.

Jing X, et al. (2025) Identification and Experimental Validation of Biomarkers Related to MiR-125a-5p in Chronic Obstructive Pulmonary Disease. International journal of chronic obstructive pulmonary disease, 20, 581.

Lin K, et al. (2025) Plasma exosomal miRNA expression and gut microbiota dysbiosis are associated with cognitive impairment in Alzheimer's disease. Frontiers in neuroscience, 19, 1545690.

Shang Z, et al. (2025) Comprehensive analysis of the LINC01122/TPD52 axis as a predictive biomarker in prostate adenocarcinoma. Scientific reports, 15(1), 16122.

Lederer EM, et al. (2025) Impact of miR-181a on SIRT1 Expression and Senescence in Hutchinson-Gilford Progeria Syndrome. Diseases (Basel, Switzerland), 13(8).