

Resource Summary Report

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miRecords

RRID:SCR_013021

Type: Tool

Proper Citation

miRecords (RRID:SCR_013021)

Resource Information

URL: <http://c1.accurascience.com/miRecords/>

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Description: A resource for animal miRNA-target interactions consisting of the Validated Targets component, a large, high-quality database of experimentally validated miRNA targets resulting from meticulous literature curation, and the Predicted Targets component, an integration of predicted miRNA targets produced by 11 established miRNA target prediction programs. April 27, 2013, the Validated Targets component of miRecords hosts 2705 records of interactions between 644 miRNAs and 1901 target genes in 9 animal species. Among these records, 2028 were curated from low throughput experiments. The Predicted Targets component of miRecords integrates the predicted targets of the following miRNA target prediction tools: DIANA-microT, MicroInspector, miRanda, MirTarget2, miTarget, NBmiRTar, PicTar, PITA, RNA22, RNAhybrid, and TargetScan/TargetScanS. We would be glad to include your experimentally validated miRNA target data (published or unpublished) into miRecords.

Abbreviations: miRecords

Resource Type: data repository, data or information resource, storage service resource, service resource, database

Defining Citation: [PMID:18996891](#)

Keywords: FASEB list

Funding:

Availability: The community can contribute to this resource

Resource Name: miRecords

Resource ID: SCR_013021

Alternate IDs: OMICS_00405

Alternate URLs: <https://omictools.com/mirecords-tool>

Old URLs: <http://mirecords.umn.edu/miRecords/>

Record Creation Time: 20220129T080313+0000

Record Last Update: 20250421T053917+0000

Ratings and Alerts

No rating or validation information has been found for miRecords.

No alerts have been found for miRecords.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 438 mentions in open access literature.

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

Lin S, et al. (2025) Predicting microRNA target genes using pan-cancer correlation patterns. BMC genomics, 26(1), 77.

Zárate-Segura PB, et al. (2025) Changes in miRNA Pattern Expression Associated With COVID-19 Severity. In vivo (Athens, Greece), 39(1), 482.

Wu J, et al. (2024) IDMIR: identification of dysregulated miRNAs associated with disease based on a miRNA-miRNA interaction network constructed through gene expression data. Briefings in bioinformatics, 25(4).

Sultana T, et al. (2024) Computational exploration of SLC14A1 genetic variants through structure modeling, protein-ligand docking, and molecular dynamics simulation. Biochemistry and biophysics reports, 38, 101703.

Ge J, et al. (2024) New HCC Subtypes Based on CD8 Tex-Related lncRNA Signature Could Predict Prognosis, Immunological and Drug Sensitivity Characteristics of Hepatocellular

Carcinoma. Journal of hepatocellular carcinoma, 11, 1331.

Wei X, et al. (2024) Exploration of a miRNA-mRNA network shared between acute pancreatitis and Epstein-Barr virus infection by integrated bioinformatics analysis. PloS one, 19(11), e0311130.

Yuan Y, et al. (2024) Astragali radix vesicle-like nanoparticles improve energy metabolism disorders by repairing the intestinal mucosal barrier and regulating amino acid metabolism in sleep-deprived mice. Journal of nanobiotechnology, 22(1), 768.

Cui Y, et al. (2024) Identification and Validation of the Pyroptosis-Related Hub Gene Signature and the Associated Regulation Axis in Diabetic Keratopathy. Journal of diabetes research, 2024, 2920694.

Lv ZB, et al. (2024) GDF10 and IDO1 as a thyroid cancer prognostic biomarker associated with immune infiltration. Heliyon, 10(6), e27651.

Gaugel J, et al. (2024) Picalm, a novel regulator of GLUT4-trafficking in adipose tissue. Molecular metabolism, 88, 102014.

Vanamamalai VK, et al. (2024) Breed and timepoint-based analysis of chicken harderian gland transcriptome during Newcastle disease virus challenge. Frontiers in molecular biosciences, 11, 1365888.

Lawarde A, et al. (2024) ExplORRNet: An interactive web tool to explore stage-wise miRNA expression profiles and their interactions with mRNA and lncRNA in human breast and gynecological cancers. Non-coding RNA research, 9(1), 125.

Gan M, et al. (2024) A dataset of hidden small non-coding RNA in the testis of heat-stressed models revealed by Pandora-seq. Scientific data, 11(1), 747.

Li G, et al. (2024) Mining bone metastasis related key genes of prostate cancer from the STING pathway based on machine learning. Frontiers in medicine, 11, 1372495.

Cossu AM, et al. (2024) MiR-449a antagonizes EMT through IL-6-mediated trans-signaling in laryngeal squamous cancer. Molecular therapy. Nucleic acids, 35(1), 102140.

Ismail MT, et al. (2024) HUVECs-derived exosomes increase neovascularization and decrease limb necrosis in hindlimb ischemia. Narra J, 4(3), e1358.

Sharma R, et al. (2024) Circulating microRNAs associated with bronchodilator response in childhood asthma. BMC pulmonary medicine, 24(1), 553.

Wang T, et al. (2024) Investigation of key miRNAs and Target-mRNA in Kaposi's sarcoma using bioinformatic methods. Heliyon, 10(8), e29502.

Tran F, et al. (2024) Dynamic changes in extracellular vesicle-associated miRNAs elicited by ultrasound in inflammatory bowel disease patients. Scientific reports, 14(1), 10925.

Fan L, et al. (2024) Unraveling the H19/GAS1 axis in recurrent implantation failure: A

potential biomarker for diagnosis and insight into immune microenvironment alteration. *PloS one*, 19(7), e0306244.