

Resource Summary Report

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[miRpathDB](#)

RRID:SCR_017356

Type: Tool

Proper Citation

miRpathDB (RRID:SCR_017356)

Resource Information

URL: <https://mpd.bioinf.uni-sb.de/>

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Description: Collection of single miRNAs that regulate pathways, gene ontologies and other categories, hence complementing available miRNA target enrichment programs, tailored for miRNA sets. New dictionary on microRNAs and target pathways. Database to augment available target pathway web-servers by providing researches access to information which pathways are regulated by miRNA, which miRNAs target pathway and how specific regulations are.

Synonyms: miRNA Pathway Dictionary Database

Resource Type: database, web service, software resource, data access protocol, data or information resource

Defining Citation: [PMID:27742822](#)

Keywords: Collection, miRNA, data, pathway, gene, ontology, dataset, dictionary, target, regulation, bio.tools

Funding: Saarland University ;
Germany

Resource Name: miRpathDB

Resource ID: SCR_017356

Alternate IDs: biotools:miRPathDb

Alternate URLs: <https://bio.tools/miRPathDB>

Record Creation Time: 20220129T080334+0000

Record Last Update: 20260728T043532+0000

Ratings and Alerts

No rating or validation information has been found for miRpathDB.

No alerts have been found for miRpathDB.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 52 mentions in open access literature.

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

He Y, et al. (2025) Hsa_circ_0001492 regulates the hsa-miR-145-5p/ovarian carcinoma immunoreactive antigen domain 2 axis to promote the progression of lung adenocarcinoma. *Biomolecules & biomedicine*, 25(4), 940.

Kamal E, et al. (2025) In Silico Prioritization of STAT1 3' UTR SNPs Identifies rs190542524 as a miRNA-Linked Variant with Potential Oncogenic Impact. *Non-coding RNA*, 11(3).

Shao X, et al. (2025) Extracellular vesicle-derived miRNA-mediated cell-cell communication inference for single-cell transcriptomic data with miRTalk. *Genome biology*, 26(1), 95.

Mi Y, et al. (2025) circEFR3A promotes breast cancer progression by sponging miR-590-3p to upregulate androgen receptor expression. *Oncology letters*, 30(3), 446.

Senousy MA, et al. (2025) Serum expression signature of TUG1, MALAT1, miR-483, and miR-141 and their targets TGF- β 1 and STAT3 in severe male factor infertility. *Scientific reports*, 15(1), 18529.

Trakarnsanga K, et al. (2025) MicroRNA profiles of four induced pluripotent stem cell lines derived from distinct tissues. *BMC research notes*, 18(1), 356.

Ariyelo S, et al. (2025) HIF1 α controls steroidogenesis under acute hypoxic stress. *Cell communication and signaling : CCS*, 23(1), 86.

Koyama Y, et al. (2025) Hsa-miR-155-5p expression in primary breast tissue may have the potential for prediction of breast cancer brain recurrence: results from the multi-institutional exploratory cohort study. *Breast cancer research : BCR*, 27(1), 169.

Zhang H, et al. (2025) Unveiling the potential of MSC extracellular vesicles: MiR-122-5p enhancing chondrocyte regeneration in osteoarthritis via autophagy mechanism. *Stem cell research & therapy*, 16(1), 289.

Bertola N, et al. (2025) miR-29a-3p and TGF- β Axis in Fanconi anemia: mechanisms driving metabolic dysfunction and genome stability. Cellular and molecular life sciences : CMLS, 82(1), 255.

Zhou W, et al. (2024) Hypoxia promotes metastasis by relieving miR-598-3p-restricted glycolysis in gastric cancer. Journal of translational medicine, 22(1), 283.

Rahdan F, et al. (2024) Deciphering the multifaceted role of microRNAs in hepatocellular carcinoma: Integrating literature review and bioinformatics analysis for therapeutic insights. Heliyon, 10(20), e39489.

Gecaj RM, et al. (2024) Validation of Selected MicroRNA Transcriptome Data in the Bovine Corpus Luteum during Early Pregnancy by RT-qPCR. Current issues in molecular biology, 46(7), 6620.

Zhang R, et al. (2024) [Application Research of Serum miR-4646-5p, miR-3654 Combined with Traditional Lung Cancer Tumor Markers in the Diagnosis of Lung Cancer in Xuanwei, Yunnan Province]. Zhongguo fei ai za zhi = Chinese journal of lung cancer, 27(9), 654.

Osaki T, et al. (2024) Early differential impact of MeCP2 mutations on functional networks in Rett syndrome patient-derived human cerebral organoids. bioRxiv : the preprint server for biology.

Wu Y, et al. (2024) Exosomal miR-1470 is a diagnostic biomarker and promotes cell proliferation and metastasis in colorectal cancer. Cancer medicine, 13(7), e7117.

Escalante PI, et al. (2024) Exploring the impact of MiR-92a-3p on FOLFOX chemoresistance biomarker genes in colon cancer cell lines. Frontiers in pharmacology, 15, 1376638.

Su H, et al. (2024) Impact of miR-29c-3p in the Nucleus Accumbens on Methamphetamine-Induced Behavioral Sensitization and Neuroplasticity-Related Proteins. International journal of molecular sciences, 25(2).

Sartorius K, et al. (2024) Serum microRNA Profiles and Pathways in Hepatitis B-Associated Hepatocellular Carcinoma: A South African Study. International journal of molecular sciences, 25(2).

Joshi R, et al. (2024) Noncoding RNA landscape and their emerging roles as biomarkers and therapeutic targets in meningioma. Molecular therapy. Oncology, 32(1), 200782.