

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

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: 20260808T042844+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 73 mentions in open access literature.

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

Wang J, et al. (2026) Neutrophil-derived exosomes inhibit gastric cancer progression via miR-101-3p-mediated suppression of MCL1. *Cancer cell international*, 26(1), 88.

Xu X, et al. (2026) A-to-I RNA editing impairs miR-376b-3p repression of RYBP in skeletal muscle satellite cells. *The Journal of biological chemistry*, 302(1), 111006.

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).

Zapata García JA, et al. (2025) Alterations in the Expression of a Set of miRNAs in Endometrial Cancer and Their Correlation with Clinical Variables and the p53 Signaling Pathway. *International journal of molecular sciences*, 26(11).

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.

Sun Y, et al. (2025) Reduction of alternative polarization of macrophages by short-term activated hepatic stellate cell-derived small extracellular vesicles. *Journal of experimental & clinical cancer research : CR*, 44(1), 117.

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.

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

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.

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.

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

Li GB, et al. (2024) Hsa-miR-483-5p/mRNA network that regulates chemotherapy resistance in locally advanced rectal cancer identified through plasma exosome transcriptomics. World journal of clinical oncology, 15(8), 1061.

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.