

Resource Summary Report

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PicTar

RRID:SCR_003343

Type: Tool

Proper Citation

PicTar (RRID:SCR_003343)

Resource Information

URL: <http://www.pictar.org>

Proper Citation: PicTar (RRID:SCR_003343)

Description: An algorithm for the identification of microRNA targets. Details are provided (3' UTR alignments with predicted sites, links to various public databases etc) regarding: # microRNA target predictions in vertebrates (Krek et al, Nature Genetics 37:495-500 (2005)) # microRNA target predictions in seven Drosophila species (Grn et al, PLoS Comp. Biol. 1:e13 (2005)) # microRNA targets in three nematode species (Lall et al, Current Biology 16, 1-12 (2006)) # human microRNA targets that are not conserved but co-expressed (i.e. the microRNA and mRNA are expressed in the same tissue) (Chen and Rajewsky, Nat Genet 38, 1452-1456 (2006)) co-expressed targets

Abbreviations: PicTar

Resource Type: software resource

Defining Citation: [PMID:15806104](#)

Keywords: microrna target, microrna, bio.tools, FASEB list

Availability: Free, Available for download, Freely available

Resource Name: PicTar

Resource ID: SCR_003343

Alternate IDs: OMICS_00411, biotools:pictar, nif-0000-31983

Alternate URLs: <http://pictar.mdc-berlin.de/>, <https://bio.tools/pictar>

Record Creation Time: 20220129T080218+0000

Record Last Update: 20260725T190540+0000

Ratings and Alerts

No rating or validation information has been found for PicTar.

No alerts have been found for PicTar.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1636 mentions in open access literature.

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

Kim M, et al. (2026) Prognostic Implications of Exosomal miRNA Networks Regulating TGF β 1-induced Epithelial-Mesenchymal Transition Signature in Oral Squamous Cell Carcinoma. *Cancer genomics & proteomics*, 23(1), 50.

Zhai K, et al. (2025) Extracellular vesicle-derived miR-146a as a novel crosstalk mechanism for high-fat induced atherosclerosis by targeting SMAD4. *Journal of advanced research*, 73, 729.

Ding B, et al. (2025) Resveratrol contributes to NK cell-mediated breast cancer cytotoxicity by upregulating ULBP2 through miR-17-5p downmodulation and activation of MINK1/JNK/c-Jun signaling. *Frontiers in immunology*, 16, 1515605.

Liu L, et al. (2025) Multi-omics dissection of CPNE1 reveals its prognostic value and immune-regulatory function in liver cancer. *Discover oncology*, 16(1), 1499.

Zhang J, et al. (2025) Helicobacter pylori induced miR-362-5p upregulation drives gastric cancer progression and links hepatocellular carcinoma through an exosome-dependent pathway. *Frontiers in cellular and infection microbiology*, 15, 1582131.

Pereira-Hernández M, et al. (2025) A comparative proteomic, transcriptomic and glycomic analysis of extracellular vesicle isolation techniques highlights ExoGAG efficiency for a more complete identification of breast milk molecular signaling pathways. *Cell communication and signaling : CCS*, 23(1), 412.

Luxen M, et al. (2025) Sepsis-associated acute kidney injury in mice and humans elicits heterogeneous renal microvascular microRNA responses. *Scientific reports*, 15(1), 34397.

Wang Y, et al. (2025) Trillin inhibits MAP3K11/NF- κ B/COX-2 signaling pathways through upregulation of miR-145-5p in castration-resistant prostate cancer. *iScience*, 28(2), 111505.

Wu Y, et al. (2025) The Biological Role of the Signal Transducer and Activator of Transcription 1 (STAT1)-miR-221/222-3p-p21 Activated Kinase 1 (PAK1) Axis in Experimental Periodontitis. *Inflammation*, 48(6), 4110.

Zhai Z, et al. (2025) Identification of CircRNAs that promote cancer and their potential contribution to hepatocellular carcinoma (HCC) pathogenesis. *Clinical and experimental medicine*, 25(1), 60.

Khadra E, et al. (2025) Integrated analysis of post-transcriptional regulations reveals insights into acute myeloid leukemia. *Communications biology*, 8(1), 1768.

Dieter C, et al. (2025) Circular RNAs in diabetes mellitus and its complications: a systematic review and in silico analyses. *Endocrine connections*, 14(12).

Qiu AW, et al. (2025) Retinal Müller Cell-Released Exosomal MiR-92a-3p Delivers Interleukin-17A Signal by Targeting Notch-1 to Promote Diabetic Retinopathy. *Investigative ophthalmology & visual science*, 66(1), 1.

Wang Y, et al. (2025) Clinical significance and immune infiltration analyses of the coagulation factor V gene in brain lower grade glioma. *Discover oncology*, 16(1), 535.

Chiu Y, et al. (2025) Time-resolved miRNA-mRNA integrated analysis reveals the miRNA-mRNA networks underlying plasma membrane damage-dependent senescence and DNA damage response-dependent senescence in WI-38 normal human fibroblasts. *RNA biology*, 22(1), 1.

Zhao YQ, et al. (2025) A comprehensive pan-cancer analysis of the prognostic role and immunotherapy efficacy evaluation of Glyoxalase 1. *Discover oncology*, 16(1), 2326.

Kim JY, et al. (2025) MicroRNA-18b regulates cell cycle progression in papillary thyroid carcinoma by targeting CDK2: an in vitro experimental study. *Annals of surgical treatment and research*, 108(6), 374.

Hou Y, et al. (2025) Down-regulation of miR-125b by HPV16 E6 might promote cervical cancer progression through TAZ/TEAD. *Frontiers in oncology*, 15, 1444874.

Liu FF, et al. (2025) The Abnormal ER?-miRNA Cross-Talk in AD-Affected Human Hippocampus: A Bioinformatics Perspective. *Molecular neurobiology*, 62(6), 7998.

Gao Y, et al. (2025) Recent advances in investigation of circRNA/lncRNA-miRNA-mRNA networks through RNA sequencing data analysis. *Briefings in functional genomics*, 24.