

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: 20260905T132502+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 1717 mentions in open access literature.

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

Yu X, et al. (2026) miR-339-5p impairs myogenic proliferation and differentiation by repressing contractile gene programs in skeletal muscle. American journal of physiology. Cell physiology, 331(2), C425.

Wang Z, et al. (2026) COPD airway epithelial cells-derived extracellular vesicles contribute to endothelial dysfunction and atherosclerosis via the miR-141-3p/PDCD4 axis. Journal of nanobiotechnology, 24(1).

Shrestha A, et al. (2026) Sperm RNA landscape during sexual maturation in Duroc boars. BMC genomics, 27(1), 197.

Zhao W, et al. (2026) C1RL-AS1/microRNA-424-5p/adrenoceptor $\alpha 2$ axis: A novel regulatory mechanism in lung adenocarcinoma associated with immune infiltration and prognosis. PloS one, 21(3), e0343805.

Cabiati M, et al. (2026) Exosomal CNP and CNP-Related microRNAs: An Open Window into Brugada Syndrome? Biomedicines, 14(5).

Zhang X, et al. (2026) Identification and Analysis of Biomarkers Associated With Lipid Metabolism and Ferroptosis in Ulcerative Colitis. Journal of immunology research, 2026(1), e9283449.

Hong TW, et al. (2026) Mesenchymal Stromal Cells Improve Islet β -Cell Functional Survival: Analysis of Extracellular Vesicle-Trafficked Proteins and miRNAs. Cells, 15(11).

Allegra A, et al. (2026) Proteome and miRNAs Expression in Medication-Related Osteonecrosis of the Jaw. International journal of molecular sciences, 27(11).

Stella C, et al. (2026) Biological underpinnings and genetic predisposition to schizophrenia within microrna-137 regulatory pathways across brain development. Translational psychiatry, 16(1).

Wu E, et al. (2026) The exosomal miR-26b-3p derived from Crohn's disease-associated mesenteric adipose tissue induces M1 macrophage polarization and exacerbates

ileocolonic anastomosis inflammation via the p38-MAPK signaling pathway. *Frontiers in immunology*, 17, 1754302.

Puente-Rivera J, et al. (2026) Transcriptomic Insights into lncRNA-miRNA-mRNA Networks Regulating Angiogenesis and Metastasis in Prostate Cancer. *Biotech (Basel (Switzerland))*, 15(1).

Saini K, et al. (2026) MicroRNA Signatures of Prostate Cancer Spheroids in Microfluidic Culture Under Hormone-Deprivation Conditions. *Bioengineering (Basel, Switzerland)*, 13(2).

Lang A, et al. (2026) Tumor-suppressive role of miR-216b impacts cell cycle regulation in high-grade glioma. *Acta neuropathologica communications*, 14(1).

Wang L, et al. (2026) Therapeutic potential of ADAR1-regulated macrophage exosomes for improving myocardial damage in septic cardiomyopathy. *Journal of nanobiotechnology*, 24(1).

Qiu S, et al. (2026) EGR1/miR-4306/MAT2A axis aggravates pyroptosis and extracellular matrix degradation of nucleus pulposus cells in intervertebral disc degeneration. *Cell biology and toxicology*, 42(1), 37.

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.

Chandra H, et al. (2026) Exosomal microRNAs from Alveolar Macrophages Reveal a Protective Role of the Lung Microbiome Against Oncogenic Signaling During PAH Exposure. *Cells*, 15(8).

Soliman B, et al. (2026) Let-7a and miR-34a Interplay Potent Suppressive Roles in Hepatocellular Carcinoma via Co-Targeting FNDC3B, IGF2 and SOX4. *International journal of molecular sciences*, 27(4).

Luo S, et al. (2026) Identification of prognostic genes associated with tolerogenic dendritic cells in gastric cancer based on transcriptomic data. *PloS one*, 21(3), e0343688.

Dai J, et al. (2026) Collagen type I alpha 2 acts as a potential diagnostic biomarker and therapeutic targets for the prognosis in gastric cancer. *Discover oncology*, 17(1).