Resource Summary Report

Generated by NIF on Apr 21, 2025

miRBase

RRID:SCR_003152
Type: Tool

Proper Citation

miRBase (RRID:SCR_003152)

Resource Information

URL: http://www.mirbase.org/

Proper Citation: miRBase (RRID:SCR_003152)

Description: Central online repository for microRNA nomenclature, sequence data, annotation and target prediction.Collection of published miRNA sequences and annotation.

Abbreviations: miRBase

Synonyms: microRNA database

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

Defining Citation: PMID:24275495, PMID:21037258, PMID:20205188, PMID:17991681, PMID:16957372, PMID:16381832, PMID:14681370

Keywords: gene, annotation, hairpin, microrna, nomenclature, rna, sequence, target, transcript, unique name, mirna registry, genetics, bio.tools, FASEB list

Funding: BBSRC ;
Wellcome Trust Sanger Institute

Availability: Free, Available for download, Freely available

Resource Name: miRBase

Resource ID: SCR_003152

Alternate IDs: SCR_017497, nif-0000-03134, biotools:mirbase

Alternate URLs: http://microrna.sanger.ac.uk/, https://bio.tools/mirbase

Record Creation Time: 20220129T080217+0000

Record Last Update: 20250421T053345+0000

Ratings and Alerts

No rating or validation information has been found for miRBase.

No alerts have been found for miRBase.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 9203 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Zhang S, et al. (2025) Integrative mRNA and miRNA Expression Profiles from Developing Zebrafish Head Highlight Brain-Preference Genes and Regulatory Networks. Molecular neurobiology, 62(2), 2148.

Hirohata R, et al. (2025) Prediction of Pathologic Complete Response in Esophageal Squamous Cell Carcinoma Using Preoperative Serum Small Ribonucleic Acid Obtained After Neoadjuvant Chemoradiotherapy. Annals of surgical oncology, 32(1), 570.

Shi L, et al. (2025) Upregulated let-7 expression in the follicular fluid of patients with endometriomas leads to dysfunction of granulosa cells through targeting of IGF1R. Human reproduction (Oxford, England), 40(1), 119.

Tokunaga T, et al. (2025) Role of long non?coding RNA leucine?rich repeat containing 75 A?antisense RNA1 in the invasion and progression of renal cell carcinoma. Oncology reports, 53(1).

Tiwari H, et al. (2025) In Silico Hybridization and Molecular Dynamics Simulations for the Identification of Candidate Human MicroRNAs for Inhibition of Virulent Proteins' Expression in Staphylococcus aureus. Journal of cellular biochemistry, 126(1), e30684.

Sun Z, et al. (2025) hsa_circ_0001508 as a new gene that may promote breast cancer progression via the miR?505?3p/HMGB1, VGLL3 axis. Molecular and clinical oncology,

22(2), 13.

Fahim SA, et al. (2025) Interaction Between Malat1 and miR-499-5p Regulates Meis1 Expression and Function with a Net Impact on Cell Proliferation. Cells, 14(2).

Zhang S, et al. (2025) CD63-high macrophage-derived exosomal miR-6876-5p promotes hepatocellular carcinoma stemness via PTEN/Akt-mediated EMT pathway. Hepatology communications, 9(1).

Zhao N, et al. (2025) TSC complex decrease the expression of mTOR by regulated miR-199b-3p. Scientific reports, 15(1), 1892.

Yu F, et al. (2025) Sinomenine attenuates uremia vascular calcification by miR-143-5p. Scientific reports, 15(1), 1798.

Wu J, et al. (2025) Whole-transcriptome analysis reveals the profiles and roles of coding and non-coding RNAs during hair follicle cycling in Rex rabbits. BMC genomics, 26(1), 74.

Baqi A, et al. (2025) Computational identification and experimental validation of novel Saccharum officinarum microRNAs along with their targets through RT-PCR approach. Plant signaling & behavior, 20(1), 2452334.

Lim B, et al. (2025) Single-cell transcriptomics of bronchoalveolar lavage during PRRSV infection with different virulence. Nature communications, 16(1), 1112.

Wang S, et al. (2025) Diagnostic Value of Glycosylated Extracellular Vesicle microRNAs in Gastric Cancer. Cancer management and research, 17, 145.

Huang Z, et al. (2025) Impact of Maternal BPA Exposure during Pregnancy on Obesity in Male Offspring: A Mechanistic Mouse Study of Adipose-Derived Exosomal miRNA. Environmental health perspectives, 133(1), 17011.

Sulaiman F, et al. (2025) Characterizing Circulating microRNA Signatures of Type 2 Diabetes Subtypes. International journal of molecular sciences, 26(2).

Tong X, et al. (2025) Genome-Wide Characterization of Extrachromosomal Circular DNA in the Midgut of BmCPV-Infected Silkworms and Its Potential Role in Antiviral Responses. International journal of molecular sciences, 26(2).

Palazzo C, et al. (2025) Neuropilin1-dependent paracrine signaling of cancer cells mediated by miRNA exosomal cargo. Cell communication and signaling : CCS, 23(1), 54.

Joshi M, et al. (2025) In Silico Prediction of Maize microRNA as a Xanthine Oxidase Inhibitor: A New Approach to Treating Hyperuricemia Patients. Non-coding RNA, 11(1).

Mitsunaga S, et al. (2025) Robust circulating microRNA signature for the diagnosis and early detection of pancreatobiliary cancer. BMC medicine, 23(1), 23.