Resource Summary Report

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miRNAMap

RRID:SCR_003156
Type: Tool

Proper Citation

miRNAMap (RRID:SCR_003156)

Resource Information

URL: http://mirnamap.mbc.nctu.edu.tw

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Description: A database of experimentally verified microRNAs and miRNA target genes in human, mouse, rat, and other metazoan genomes. In addition to known miRNA targets, three computational tools previously developed, such as miRanda, RNAhybrid and TargetScan, were applied for identifying miRNA targets in 3'-UTR of genes. In order to reduce the false positive prediction of miRNA targets, several criteria are supported for filtering the putative miRNA targets. Furthermore, miRNA expression profiles can provide valuable clues for investigating the properties of miRNAs, such tissue specificity and differential expression in cancer/normal cell. Therefore, we performed the Q-PCR experiments for monitoring the expression profiles of 224 human miRNAs in eighteen major normal tissues in human. The cross-reference between the miRNA expression profiles and the expression profiles of its target genes can provide effective viewpoint to understand the regulatory functions of the miRNA.

Abbreviations: miRNAMap

Resource Type: database, data or information resource

Defining Citation: PMID:18029362, PMID:16381831

Keywords: microrna, genome, FASEB list

Funding:

Availability: Acknowledgement requested

Resource Name: miRNAMap

Resource ID: SCR_003156

Alternate IDs: nif-0000-03138, OMICS_00408

Record Creation Time: 20220129T080217+0000

Record Last Update: 20250412T054806+0000

Ratings and Alerts

No rating or validation information has been found for miRNAMap.

No alerts have been found for miRNAMap.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 244 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Cheng J, et al. (2025) MiR- 146b-5p inhibits Candida albicans-induced inflammatory response through targeting HMGB1 in mouse primary peritoneal macrophages. Heliyon, 11(1), e41464.

Li T, et al. (2024) PMAIP1, a novel diagnostic and potential therapeutic biomarker in osteoporosis. Aging, 16(4), 3694.

Yan G, et al. (2024) Hsa_circ_0064636 regulates voltage dependent anion channel 1/ubiquitination factor E4A through miR?326/miR?503?5 in osteosarcoma. Oncology letters, 28(2), 374.

Rong X, et al. (2024) CircMEF2C(2, 3) modulates proliferation and adipogenesis of porcine intramuscular preadipocytes by miR-383/671-3p/MEF2C axis. iScience, 27(5), 109710.

Yan H, et al. (2024) Gastric cancer cell-derived exosomal miRNA-128-3p promotes angiogenesis by targeting SASH1. Frontiers in oncology, 14, 1440996.

Talluri B, et al. (2024) Adult zymosan re-exposure exacerbates the molecular alterations in the brainstem rostral ventromedial medulla of rats with early life zymosan-induced cystitis. Neurobiology of pain (Cambridge, Mass.), 16, 100160.

Wang X, et al. (2023) Integrated aqueous humor ceRNA and miRNA-TF-mRNA network analysis reveals potential molecular mechanisms governing primary open-angle glaucoma pathogenesis. Indian journal of ophthalmology, 71(2), 553.

Ayaz H, et al. (2023) Mapping CircRNA-miRNA-mRNA regulatory axis identifies hsa_circ_0080942 and hsa_circ_0080135 as a potential theranostic agents for SARS-CoV-2 infection. PloS one, 18(4), e0283589.

El Bezawy R, et al. (2022) miR-550a-3p is a prognostic biomarker and exerts tumor-suppressive functions by targeting HSP90AA1 in diffuse malignant peritoneal mesothelioma. Cancer gene therapy, 29(10), 1394.

Zhang X, et al. (2022) Identification of serum MiRNAs as candidate biomarkers for non-small cell lung cancer diagnosis. BMC pulmonary medicine, 22(1), 479.

Tian D, et al. (2022) Tanshinone IIA protects against chronic obstructive pulmonary disease via exosome?shuttled miR?486?5p. International journal of molecular medicine, 50(1).

Kern F, et al. (2021) Validation of human microRNA target pathways enables evaluation of target prediction tools. Nucleic acids research, 49(1), 127.

Wu J, et al. (2021) Analysis of differential expression of long non?coding RNAs in exosomes derived from mature and immature dendritic cells. Molecular medicine reports, 23(2).

He Y, et al. (2021) Identification of a circRNA-miRNA-mRNA regulatory network for exploring novel therapeutic options for glioma. PeerJ, 9, e11894.

Hromadnikova I, et al. (2021) Postnatal Expression Profile of MicroRNAs Associated with Cardiovascular Diseases in 3- to 11-Year-Old Preterm-Born Children. Biomedicines, 9(7).

Hromadnikova I, et al. (2021) A History of Preterm Delivery Is Associated with Aberrant Postpartal MicroRNA Expression Profiles in Mothers with an Absence of Other Pregnancy-Related Complications. International journal of molecular sciences, 22(8).

Wang L, et al. (2021) CircWAC induces chemotherapeutic resistance in triple-negative breast cancer by targeting miR-142, upregulating WWP1 and activating the PI3K/AKT pathway. Molecular cancer, 20(1), 43.

Ning W, et al. (2021) Blocking exosomal miRNA-153-3p derived from bone marrow mesenchymal stem cells ameliorates hypoxia-induced myocardial and microvascular damage by targeting the ANGPT1-mediated VEGF/PI3k/Akt/eNOS pathway. Cellular signalling, 77, 109812.

Yang LJ, et al. (2021) Upregulation of microRNA miR-141-3p and its prospective targets in

endometrial carcinoma: a comprehensive study. Bioengineered, 12(1), 2941.

Jiang R, et al. (2021) Long-non-coding RNA RUSC1-AS1 accelerates osteosarcoma development by miR-101-3p-mediated Notch1 signalling pathway. Journal of bone oncology, 30, 100382.