Resource Summary Report

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miRGator

RRID:SCR_007793
Type: Tool

Proper Citation

miRGator (RRID:SCR_007793)

Resource Information

URL: http://mirgator.kobic.re.kr/

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Description: Database of compiled, public, deep sequencing miRNA data and several novel tools to facilitate exploration of massive data. The miR-seq browser supports users to examine short read alignment with the secondary structure and read count information available in concurrent windows. Features such as sequence editing, sorting, ordering, import and export of user data are of great utility for studying iso-miRs, miRNA editing and modifications. miRNA??????target relation is essential for understanding miRNA function. Coexpression analysis of miRNA and target mRNAs, based on miRNA-seq and RNA-seq data from the same sample, is visualized in the heat-map and network views where users can investigate the inverse correlation of gene expression and target relations, compiled from various databases of predicted and validated targets.

Abbreviations: miRGator

Synonyms: miRGator: an integrated system for functional annotation of microRNAs

Resource Type: database, data or information resource

Defining Citation: PMID:23193297, PMID:21062822, PMID:17942429

Keywords: genome, functional annotation, microrna, expression profile, mir-seq, mirna-mrna target relation, expression correlation, FASEB list

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Resource Name: miRGator

Resource ID: SCR_007793

Alternate IDs: nif-0000-03136, OMICS_00363

Alternate URLs: http://203.255.191.19/MEXWebApp/, http://genome.ewha.ac.kr/miRGator/miRGator.html

Record Creation Time: 20220129T080243+0000

Record Last Update: 20250430T055530+0000

Ratings and Alerts

No rating or validation information has been found for miRGator.

No alerts have been found for miRGator.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 48 mentions in open access literature.

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

Wang Y, et al. (2025) hAMSCs regulate EMT in the progression of experimental pulmonary fibrosis through delivering miR-181a-5p targeting TGFBR1. Stem cell research & therapy, 16(1), 2.

Miao PD, et al. (2024) Celestial Insights: Unraveling the Role of miR-3682-3p in Hepatocellular Carcinoma. Clinical and translational gastroenterology, 15(4), e00690.

Liu YC, et al. (2024) The disruption of NEAT1-miR-125b-5p-SLC1A5 cascade defines the oncogenicity and differential immune profile in head and neck squamous cell carcinoma. Cell death discovery, 10(1), 392.

Shan B, et al. (2024) miR-184, a downregulated ovary-elevated miRNA transcriptionally activated by SREBF2, exerts anti-apoptotic properties in ovarian granulosa cells through inducing SMAD3 expression. Cell death & disease, 15(12), 892.

Loganathan T, et al. (2023) Non-coding RNAs in human health and disease: potential function as biomarkers and therapeutic targets. Functional & integrative genomics, 23(1), 33.

Lu X, et al. (2022) MicroRNA-320b Modulates Cholesterol Efflux and Atherosclerosis. Journal of atherosclerosis and thrombosis, 29(2), 200.

Enwald M, et al. (2021) Human Prostate Tissue MicroRNAs and Their Predicted Target Pathways Linked to Prostate Cancer Risk Factors. Cancers, 13(14).

Cai Y, et al. (2021) circ-NOL10 regulated by MTDH/CASC3 inhibits breast cancer progression and metastasis via multiple miRNAs and PDCD4. Molecular therapy. Nucleic acids, 26, 773.

Shi T, et al. (2021) Aspirin inhibits cholangiocarcinoma cell proliferation via cell cycle arrest in vitro and in vivo. International journal of oncology, 58(2), 199.

Pan X, et al. (2021) MicroRNA-1182 and let-7a exert synergistic inhibition on invasion, migration and autophagy of cholangiocarcinoma cells through down-regulation of NUAK1. Cancer cell international, 21(1), 161.

Bagheri M, et al. (2021) Diagnostic Value of Plasma miR-145 and miR-185 as Targeting of the APRIL Oncogene in the B-cell Chronic Lymphocytic Leukemia. Asian Pacific journal of cancer prevention : APJCP, 22(1), 111.

Yavropoulou MP, et al. (2021) Circulating microRNAs Related to Bone Metabolism in HIV-Associated Bone Loss. Biomedicines, 9(4).

Challagundla N, et al. (2021) microRNAs (miR 9, 124, 155 and 224) transdifferentiate mouse macrophages to neurons. Experimental cell research, 402(1), 112563.

Nazarov PV, et al. (2021) Integrative approaches for analysis of mRNA and microRNA high-throughput data. Computational and structural biotechnology journal, 19, 1154.

Yao B, et al. (2020) Hypoxia-induced miR-3677-3p promotes the proliferation, migration and invasion of hepatocellular carcinoma cells by suppressing SIRT5. Journal of cellular and molecular medicine, 24(15), 8718.

van der Kwast RVCT, et al. (2020) Adenosine-to-Inosine Editing of Vasoactive MicroRNAs Alters Their Targetome and Function in Ischemia. Molecular therapy. Nucleic acids, 21, 932.

Yao B, et al. (2020) High-matrix-stiffness induces promotion of hepatocellular carcinoma proliferation and suppression of apoptosis via miR-3682-3p-PHLDA1-FAS pathway. Journal of Cancer, 11(21), 6188.

Morenikeji OB, et al. (2020) Integrative Network Analysis of Predicted miRNA-Targets Regulating Expression of Immune Response Genes in Bovine Coronavirus Infection. Frontiers in genetics, 11, 584392.

van der Kwast RVCT, et al. (2020) MicroRNA-411 and Its 5'-IsomiR Have Distinct Targets and Functions and Are Differentially Regulated in the Vasculature under Ischemia. Molecular therapy : the journal of the American Society of Gene Therapy, 28(1), 157.

Ye Y, et al. (2020) miR-100-5p Downregulates mTOR to Suppress the Proliferation, Migration, and Invasion of Prostate Cancer Cells. Frontiers in oncology, 10, 578948.