

# Resource Summary Report

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## DIANA Tools

RRID:SCR\_018425

Type: Tool

### Proper Citation

DIANA Tools (RRID:SCR\_018425)

### Resource Information

**URL:** <http://diana.imis.athena-innovation.gr/DianaTools>

**Proper Citation:** DIANA Tools (RRID:SCR\_018425)

**Description:** Collection of tools to provide algorithms, databases and software for interpreting and archiving data in systematic framework ranging from analysis of expression regulation from deep sequencing data, annotation of miRNA regulatory elements and targets to interpretation of role of ncRNAs in various diseases and pathways. Includes target prediction algorithms microT v4 and microT-CDS, databases of experimentally verified miRNA targets on coding and non-coding RNAs like TarBase v7.0 and LncBase, and software capable of identifying potentially altered molecular pathways by expression of single or multiple miRNAs, mirPath. Provides Web Server (v5.0) to support series of workflows enabling users to perform miRNA analyses.

**Resource Type:** algorithm resource, data or information resource, database, portal, project portal, service resource, software resource

**Keywords:** miRNA data, miRNA regulatory element, miRNA target annotation, ncRNA, target prediction algorithm, miRNA target database, miRNA analysis

**Availability:** Free, Freely available

**Resource Name:** DIANA Tools

**Resource ID:** SCR\_018425

**Record Creation Time:** 20220129T080340+0000

**Record Last Update:** 20260912T195901+0000

### Ratings and Alerts

No rating or validation information has been found for DIANA Tools.

No alerts have been found for DIANA Tools.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 47 mentions in open access literature.

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

Li Q, et al. (2023) Stable Expression of dmiR-283 in the Brain Promises Positive Effects in Endurance Exercise on Sleep-Wake Behavior in Aging Drosophila. International journal of molecular sciences, 24(4).

Abou El Qassim L, et al. (2022) Variation of miRNA Content in Cow Raw Milk Depending on the Dairy Production System. International journal of molecular sciences, 23(19).

Vega-Benedetti AF, et al. (2022) Colorectal cancer promoter methylation alteration affects the expression of glutamate ionotropic receptor AMPA type subunit 4 alternative isoforms potentially relevant in colon tissue. Human cell, 35(1), 310.

Chen J, et al. (2022) LINC00152 acts as a competing endogenous RNA of HMGA1 to promote the growth of gastric cancer cells. Journal of clinical laboratory analysis, 36(2), e24192.

Chen D, et al. (2022) Exosomes-derived miR-125-5p from cartilage endplate stem cells regulates autophagy and ECM metabolism in nucleus pulposus by targeting SUV38H1. Experimental cell research, 414(1), 113066.

Zhang X, et al. (2022) Hsa\_circ\_0003748 promotes disease progression in rheumatic valvular heart disease by sponging miR-577. Journal of clinical laboratory analysis, 36(6), e24487.

Pan C, et al. (2022) Microarray data reveal potential genes that regulate triple-negative breast cancer. The Journal of international medical research, 50(10), 3000605221130188.

Li X, et al. (2021) NR2F1-AS1/miR-140/HK2 Axis Regulates Hypoxia-Induced Glycolysis and Migration in Hepatocellular Carcinoma. Cancer management and research, 13, 427.

Kim H, et al. (2021) Ginsenoside Rg3 Prevents Oncogenic Long Noncoding RNA ATXN8OS from Inhibiting Tumor-Suppressive microRNA-424-5p in Breast Cancer Cells. Biomolecules, 11(1).

Wang X, et al. (2021) A Novel Identified Long Non-coding RNA, lncRNA MEF2C-AS1, Inhibits Cervical Cancer via Regulation of miR-592/RSPO1. Frontiers in molecular biosciences, 8, 687113.

Lu X, et al. (2021) The miRNA-15b/USP7/KDM6B axis engages in the initiation of osteoporosis by modulating osteoblast differentiation and autophagy. Journal of cellular

and molecular medicine, 25(4), 2069.

Wei C, et al. (2021) miR-221-3p regulates apoptosis of ovarian granulosa cells via targeting FOXO1 in older women with diminished ovarian reserve (DOR). *Molecular reproduction and development*, 88(4), 251.

Guan Y, et al. (2021) LINC00461 facilitates HNSCC development and reduces chemosensitivity by impairing miR-195-mediated inhibition of HOXA10. *Molecular therapy oncolytics*, 21, 74.

Stuani L, et al. (2021) Mitochondrial metabolism supports resistance to IDH mutant inhibitors in acute myeloid leukemia. *The Journal of experimental medicine*, 218(5).

Huang PY, et al. (2021) Bioinformatics analysis of miRNA and mRNA expression profiles to reveal the key miRNAs and genes in osteoarthritis. *Journal of orthopaedic surgery and research*, 16(1), 63.

Cui Y, et al. (2021) Lead DEAD/H box helicase biomarkers with the therapeutic potential identified by integrated bioinformatic approaches in lung cancer. *Computational and structural biotechnology journal*, 19, 261.

Kamens HM, et al. (2021) Adolescent Stress Reduces Adult Morphine-Induced Behavioral Sensitization in C57BL/6J Mice. *Frontiers in behavioral neuroscience*, 15, 678102.

Zhang H, et al. (2021) MicroRNA-194 acts as a suppressor during abdominal aortic aneurysm via inhibition of KDM3A-mediated BNIP3. *Life sciences*, 277, 119309.

Liu J, et al. (2021) Extracellular vesicles-encapsulated let-7i shed from bone mesenchymal stem cells suppress lung cancer via KDM3A/DCLK1/FXYD3 axis. *Journal of cellular and molecular medicine*, 25(4), 1911.

Zhou B, et al. (2021) Long noncoding RNA LINC00284 facilitates cell proliferation in papillary thyroid cancer via impairing miR-3127-5p targeted E2F7 suppression. *Cell death discovery*, 7(1), 156.