

Resource Summary Report

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DIANA-LncBase

RRID:SCR_010840

Type: Tool

Proper Citation

DIANA-LncBase (RRID:SCR_010840)

Resource Information

URL: <http://diana.imis.athena-innovation.gr/DianaTools/index.php?r=IncBase/index>

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Description: Database that hosts elaborated information for both predicted and experimentally verified, miRNA-lncRNA interactions. The database consists of two distinct modules. The Experimental Module contains detailed information for more than 5,000 interactions, between 2,958 lncRNAs and 120 miRNAs, ranging from miRNA and lncRNA related facts to information specific to their interaction, the experimental validation methodologies and their outcomes. The Prediction Module, which is based on the latest version of DIANA-microT target prediction algorithm (DIANA-microT-CDS), contains detailed information for more than 10 million interactions, between 56,097 lncRNAs and 3,078 miRNAs, ranging from miRNA and lncRNA related details to specific information regarding their interaction sites, graphical representation of their binding and the predicted score. This module exhibits a unique feature for searching the database. Users are able to add genomic locations to their queries thus browsing every miRNA-lncRNA interaction that has at least one MRE located inside the queried locus.

Abbreviations: LncBase

Resource Type: data or information resource, database

Defining Citation: [PMID:23193281](#)

Keywords: bio.tools

Resource Name: DIANA-LncBase

Resource ID: SCR_010840

Alternate IDs: biotools:diana-lncbase, OMICS_00396

Alternate URLs: <https://bio.tools/diana-lncbase>

Record Creation Time: 20220129T080301+0000

Record Last Update: 20260804T043449+0000

Ratings and Alerts

No rating or validation information has been found for DIANA-LncBase.

No alerts have been found for DIANA-LncBase.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 161 mentions in open access literature.

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

Zeng L, et al. (2026) Long noncoding RNA GAS5 acts as a competitive endogenous RNA to regulate GSK-3 β and PTEN expression by sponging miR-23b-3p in Alzheimer's disease. Neural regeneration research, 21(1), 392.

Xie J, et al. (2025) Multi-omics analysis of the anti-cancer effects of curcumol in endometrial carcinoma. Frontiers in pharmacology, 16, 1565959.

Li T, et al. (2025) Identification of metabolic reprogramming-related key genes in hepatocellular carcinoma after transcatheter arterial chemoembolization treatment. Discover oncology, 16(1), 861.

Bu T, et al. (2025) LncRNA of peripheral blood mononuclear cells: HYMAI acts as a potential diagnostic and therapeutic biomarker for female major depressive disorder. Frontiers in psychiatry, 16, 1241089.

Filippova EA, et al. (2025) LncRNA interactomes and co-methylation in breast cancer regulation. Biomolecules & biomedicine, 25(11), 2481.

Huang L, et al. (2025) LncRNA B4GALT 1-AS1/miR-144-3p axis suppresses cytotoxicity of CD8 $^{+}$ T cells in lung adenocarcinoma by modulating PD-L1 expression. Discover oncology, 16(1), 1718.

Zhou R, et al. (2025) Identification of FGF14-AS2/MPP2 axis as prognostic biomarkers in colorectal cancer based on CeRNA network. Discover oncology, 16(1), 2307.

Cui Y, et al. (2025) Identification of a PANoptosis-related long noncoding rna risk signature for prognosis and immunology in colon adenocarcinoma. BMC cancer, 25(1), 662.

de la Cruz-Ojeda P, et al. (2025) In silico analysis of lncRNA-miRNA-mRNA signatures related to Sorafenib effectiveness in liver cancer cells. *World journal of gastroenterology*, 31(3), 95207.

Rezaei A, et al. (2025) Navigating The CeRNA Axis by Bioinformatics and Experimental Validation: Identification of ADIRF-AS1, miR-191-5p, and EGR1 as Key Players in Endometrial Carcinoma Progression. *International journal of fertility & sterility*, 19(4), 421.

Li Y, et al. (2024) Comprehensive multi-omics analysis reveals a combination of lncRNAs that synergistically regulate glycolysis and immunotherapeutic effects in renal clear cell carcinoma. *Aging*, 16(16), 11955.

Zacharopoulou E, et al. (2024) microT-CNN: an avant-garde deep convolutional neural network unravels functional miRNA targets beyond canonical sites. *Briefings in bioinformatics*, 26(1).

Pan Y, et al. (2024) Developing a prognostic model using machine learning for disulfidptosis related lncRNA in lung adenocarcinoma. *Scientific reports*, 14(1), 13113.

Sahebnasagh R, et al. (2024) Identification of key lncRNAs associated with oxaliplatin resistance in colorectal cancer cells and isolated exosomes: From In-Silico prediction to In-Vitro validation. *PloS one*, 19(10), e0311680.

Cai Q, et al. (2024) Exploring the mechanism of lncRNA CASC15 affecting hepatocellular carcinoma through miRNA. *Medicine*, 103(5), e35859.

Chattopadhyay P, et al. (2024) RNA editing in host lncRNAs as potential modulator in SARS-CoV-2 variants-host immune response dynamics. *iScience*, 27(6), 109846.

Shakeri F, et al. (2024) Identification of ASMTL-AS1 and LINC02604 lncRNAs as novel biomarkers for diagnosis of colorectal cancer. *International journal of colorectal disease*, 39(1), 112.

Zhang Y, et al. (2024) YTHDF1 promotes the viability and self-renewal of glioma stem cells by enhancing LINC00900 stability. *International journal of oncology*, 64(5).

Firoozi Z, et al. (2024) Evaluation of the Expression of Infection-Related Long Noncoding RNAs among COVID-19 Patients: A Case-Control Study. *Genetics research*, 2024, 3391054.

Yang J, et al. (2024) Identification of genes related to fatty acid metabolism in type 2 diabetes mellitus. *Biochemistry and biophysics reports*, 40, 101849.