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=lncBase/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

Funding:

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: 20250410T070024+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 152 mentions in open access literature.

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

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.

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.

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.

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).

Cai Q, et al. (2024) Exploring the mechanism of LncRNA CASC15 affecting hepatocellular

carcinoma through miRNA. Medicine, 103(5), e35859.

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.

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.

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.

Sahebnasagh R, et al. (2024) In-Silico and In-Vitro Investigation of Key Long Non-coding RNAs Involved in 5-Fluorouracil Resistance in Colorectal Cancer Cells: Analyses Highlighting NEAT1 and MALAT1 as Contributors. Cureus, 16(8), e66393.

Li Z, et al. (2023) NcPath: a novel platform for visualization and enrichment analysis of human non-coding RNA and KEGG signaling pathways. Bioinformatics (Oxford, England), 39(1).

Tastsoglou S, et al. (2023) DIANA-miRPath v4.0: expanding target-based miRNA functional analysis in cell-type and tissue contexts. Nucleic acids research, 51(W1), W154.

Liao Y, et al. (2023) RGN as a prognostic biomarker with immune infiltration and ceRNA in lung squamous cell carcinoma. Scientific reports, 13(1), 7553.

Zhong X, et al. (2023) Repurposing Niclosamide as a Therapeutic Drug against Acute Liver Failure by Suppressing Ferroptosis. Pharmaceutics, 15(7).

Wang T, et al. (2023) Identification of immune-related lncRNA in sepsis by construction of ceRNA network and integrating bioinformatic analysis. BMC genomics, 24(1), 484.

Zhou F, et al. (2023) Prognostic value of CASC15 and LINC01600 as competitive endogenous RNAs in lung adenocarcinoma: An observational study. Medicine, 102(45), e36026.

Tan K, et al. (2023) Construction of an anoikis-associated lncRNA-miRNA-mRNA network reveals the prognostic role of ?-elemene in non-small cell lung cancer. Scientific reports, 13(1), 20185.

Hoffmann M, et al. (2023) circRNA-sponging: a pipeline for extensive analysis of circRNA expression and their role in miRNA sponging. bioRxiv : the preprint server for biology.