

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: 20260904T000312+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 169 mentions in open access literature.

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

Arthisri AS, et al. (2026) Serum and Salivary microRNA Biomarkers Reveal Oxidative Stress Dysregulation in Coronary Artery Disease. International dental journal, 76(2), 109391.

Zhang Q, et al. (2026) LncRNA GAS5 regulates osteogenic differentiation of human periodontal ligament stem cells through miR-23b-3p/STAT5B axis. Biochemistry and biophysics reports, 45, 102516.

Zhao H, et al. (2026) Integrated spatial transcriptomics and pan-cancer XGBoost modeling uncover spatial drivers of immune exclusion and predict immunotherapy response. Cancer immunology, immunotherapy : CII, 75(4).

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.

Ting W, et al. (2026) Identification of NF- κ B pathway-related biomarkers in myocardial ischemia-reperfusion injury: based on transcriptomics analysis and RT-qPCR validation. Scientific reports, 16(1).

Loria M, et al. (2026) Long non-coding RNA H19 transported by colorectal cancer small extracellular vesicles promotes alternative splicing in healthy hepatocytes: new insights on liver pre-metastatic niche formation. Cell communication and signaling : CCS, 24(1).

Yang L, et al. (2026) IMMT downregulation promotes osteoarthritis development by inducing mitochondrial dysfunction. Journal of orthopaedic surgery and research, 21(1).

Zheng F, et al. (2026) Transcriptome data combined with two-sample Mendelian randomization reveal IRF1 and PRKD1 as UPR-related key regulators in intervertebral disc degeneration. Medicine, 105(14), e48213.

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.

Alanazi IM, et al. (2025) Integrative Metabolomic, Network Pharmacology, and Experimental Evidence for *Lepidium sativum* Seed Extract as a Natural Modulator of Pulmonary Fibrosis via the ncNRFR/Let-7d Regulatory Pathway. *Pharmaceuticals (Basel, Switzerland)*, 18(12).

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.

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.

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.

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.

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).

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.