

Resource Summary Report

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DriverDB

RRID:SCR_007736

Type: Tool

Proper Citation

DriverDB (RRID:SCR_007736)

Resource Information

URL: <http://driverdb.ym.edu.tw/DriverDB/intranet/init.do>

Proper Citation: DriverDB (RRID:SCR_007736)

Description: A database for cancer driver gene/mutation that incorporates a huge amount of exome-seq data, annotation databases (such as dbSNP, 1000 Genome and Cosmic), and published bioinformatics algorithms dedicated to driver gene/mutation identification.

Abbreviations: DriverDB

Synonyms: DriverDB: A database for cancer driver gene/mutation

Resource Type: database, data or information resource

Defining Citation: [PMID:24214964](https://pubmed.ncbi.nlm.nih.gov/24214964/)

Keywords: gene, mutation

Related Condition: Cancer

Funding:

Resource Name: DriverDB

Resource ID: SCR_007736

Alternate IDs: OMICS_00268

Record Creation Time: 20220129T080243+0000

Record Last Update: 20250420T015558+0000

Ratings and Alerts

No rating or validation information has been found for DriverDB.

No alerts have been found for DriverDB.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 22 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Yari AH, et al. (2024) Novel bioinformatic approaches show the role of driver genes in the progression of cervical cancer: An in-silico study. Heliyon, 10(22), e40179.

Zhang LT, et al. (2023) IL23R as an indicator of immune infiltration and poor prognosis in intrahepatic cholangiocarcinoma: a bioinformatics analysis. Translational cancer research, 12(10), 2461.

Lin YZ, et al. (2022) miR-4759 suppresses breast cancer through immune checkpoint blockade. Computational and structural biotechnology journal, 20, 241.

Chao JY, et al. (2021) Using bioinformatics approaches to investigate driver genes and identify BCL7A as a prognostic gene in colorectal cancer. Computational and structural biotechnology journal, 19, 3922.

Liao TT, et al. (2021) The microRNA-210-Stathmin1 Axis Decreases Cell Stiffness to Facilitate the Invasiveness of Colorectal Cancer Stem Cells. Cancers, 13(8).

Huo Q, et al. (2021) Inhibiting of TACC3 Promotes Cell Proliferation, Cell Invasion and the EMT Pathway in Breast Cancer. Frontiers in genetics, 12, 640078.

Huo Q, et al. (2021) VWCE as a potential biomarker associated with immune infiltrates in breast cancer. Cancer cell international, 21(1), 272.

Qi Y, et al. (2020) Identification and validation of a miRNA-based prognostic signature for cervical cancer through an integrated bioinformatics approach. Scientific reports, 10(1), 22270.

Chang Z, et al. (2020) Identification and Characterization of the Copy Number Dosage-Sensitive Genes in Colorectal Cancer. Molecular therapy. Methods & clinical development, 18, 501.

- Liu L, et al. (2020) Identification of Early Warning Signals at the Critical Transition Point of Colorectal Cancer Based on Dynamic Network Analysis. *Frontiers in bioengineering and biotechnology*, 8, 530.
- Han Y, et al. (2019) DriverML: a machine learning algorithm for identifying driver genes in cancer sequencing studies. *Nucleic acids research*, 47(8), e45.
- Huang CY, et al. (2018) Clinical significance of glutamate metabotropic receptors in renal cell carcinoma risk and survival. *Cancer medicine*, 7(12), 6104.
- Cava C, et al. (2018) Integration of multiple networks and pathways identifies cancer driver genes in pan-cancer analysis. *BMC genomics*, 19(1), 25.
- Peterson LE, et al. (2017) Progression inference for somatic mutations in cancer. *Heliyon*, 3(4), e00277.
- Zhou W, et al. (2017) Identification of driver copy number alterations in diverse cancer types and application in drug repositioning. *Molecular oncology*, 11(10), 1459.
- Wang T, et al. (2017) Mutational analysis of driver genes with tumor suppressive and oncogenic roles in gastric cancer. *PeerJ*, 5, e3585.
- Zhang X, et al. (2017) Extracting Fitness Relationships and Oncogenic Patterns among Driver Genes in Cancer. *Molecules (Basel, Switzerland)*, 23(1).
- Chang WC, et al. (2017) Cholesterol import and steroidogenesis are biosignatures for gastric cancer patient survival. *Oncotarget*, 8(1), 692.
- Gellert P, et al. (2016) Impact of mutational profiles on response of primary oestrogen receptor-positive breast cancers to oestrogen deprivation. *Nature communications*, 7, 13294.
- Palaniappan A, et al. (2016) Computational Identification of Novel Stage-Specific Biomarkers in Colorectal Cancer Progression. *PloS one*, 11(5), e0156665.