

Resource Summary Report

Generated by SPARC SAWG on Jul 30, 2026

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: data or information resource, database

Defining Citation: [PMID:24214964](#)

Keywords: gene, mutation

Related Condition: Cancer

Resource Name: DriverDB

Resource ID: SCR_007736

Alternate IDs: OMICS_00268

Record Creation Time: 20220129T080243+0000

Record Last Update: 20260729T044212+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 24 mentions in open access literature.

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

Lin YZ, et al. (2025) Memory-promoting function of miR-379-5p attenuates CD8+ T cell exhaustion by targeting immune checkpoints. *Journal for immunotherapy of cancer*, 13(4).

Yu J, et al. (2025) Transcriptome-wide decoding the roles of aberrant splicing in melanoma MAPK-targeted resistance evolution. *EMBO reports*, 26(16), 4180.

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.

Chang WC, et al. (2017) Cholesterol import and steroidogenesis are biosignatures for gastric cancer patient survival. *Oncotarget*, 8(1), 692.

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).