

Resource Summary Report

Generated by [ASWG](#) on Aug 3, 2026

DBCAT

RRID:SCR_012014

Type: Tool

Proper Citation

DBCAT (RRID:SCR_012014)

Resource Information

URL: <http://dbcat.cgm.ntu.edu.tw/>

Proper Citation: DBCAT (RRID:SCR_012014)

Description: A database of CpG islands and analytical tools for identifying comprehensive methylation profiles in cancer cells.

Abbreviations: DBCAT

Resource Type: data or information resource, database

Defining Citation: [PMID:21214365](#)

Related Condition: Cancer

Resource Name: DBCAT

Resource ID: SCR_012014

Alternate IDs: OMICS_01837

Record Creation Time: 20220129T080308+0000

Record Last Update: 20260804T043502+0000

Ratings and Alerts

No rating or validation information has been found for DBCAT.

No alerts have been found for DBCAT.

Data and Source Information

Usage and Citation Metrics

We found 40 mentions in open access literature.

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

Mondal I, et al. (2024) ALDH5A1/miR-210 axis plays a key role in reprogramming cellular metabolism and has a significant correlation with glioblastoma patient survival. *Cancer cell international*, 24(1), 259.

Momajadi L, et al. (2024) Designing a multi-epitope influenza vaccine: an immunoinformatics approach. *Scientific reports*, 14(1), 25382.

Tang Z, et al. (2023) Combined inhibition of histone deacetylase and cytidine deaminase improves epigenetic potency of decitabine in colorectal adenocarcinomas. *Clinical epigenetics*, 15(1), 89.

Gardner CC, et al. (2023) Common as well as unique methylation-sensitive DNA regulatory elements in three mammalian SLC9C1 genes. *bioRxiv : the preprint server for biology*.

Worku D, et al. (2023) Genetic variation in promoter region of the bovine LAP3 gene associated with estimated breeding values of milk production traits and clinical mastitis in dairy cattle. *PloS one*, 18(5), e0277156.

Henry S, et al. (2023) Polycomb protein RYBP activates transcription factor Plagl1 during in vitro cardiac differentiation of mouse embryonic stem cells. *Open biology*, 13(2), 220305.

Sutus E, et al. (2022) RYBP regulates Pax6 during in vitro neural differentiation of mouse embryonic stem cells. *Scientific reports*, 12(1), 2364.

Abera B, et al. (2022) MAGE genes encoding for embryonic development in cattle is mainly regulated by zinc finger transcription factor family and slightly by CpG Islands. *BMC genomic data*, 23(1), 19.

Hamde F, et al. (2022) In silico analysis of promoter regions to identify regulatory elements in TetR family transcriptional regulatory genes of *Mycobacterium colombiense* CECT 3035. *Journal, genetic engineering & biotechnology*, 20(1), 53.

Mohanad M, et al. (2022) Epigenetic inactivation of DNA repair genes as promising prognostic and predictive biomarkers in urothelial bladder carcinoma patients. *Molecular genetics and genomics : MGG*, 297(6), 1671.

Sánchez-Navarro A, et al. (2021) Vegfa promoter gene hypermethylation at HIF1 α binding site is an early contributor to CKD progression after renal ischemia. *Scientific reports*, 11(1), 8769.

Dai YC, et al. (2021) The correlation of epithelial-mesenchymal transition-related gene expression and the clinicopathologic features of colorectal cancer patients in Taiwan. *PloS one*, 16(7), e0254000.

Luo HL, et al. (2021) Hypomethylated RRBP1 Potentiates Tumor Malignancy and Chemoresistance in Upper Tract Urothelial Carcinoma. *International journal of molecular sciences*, 22(16).

Villalba GC, et al. (2021) Fantastic databases and where to find them: Web applications for researchers in a rush. *Genetics and molecular biology*, 44(2), e20200203.

Senbeta D, et al. (2021) Investigation of promoter regions, motifs, and CpG islands in the regulation of gene expression in *Trametes hirsuta* strain 072. *Journal, genetic engineering & biotechnology*, 19(1), 160.

Khongsti K, et al. (2021) MAPK pathway and SIRT1 are involved in the down-regulation of secreted osteopontin expression by genistein in metastatic cancer cells. *Life sciences*, 265, 118787.

Cortés-Sarabia K, et al. (2021) Significant decrease of a master regulator of genes (REST/NRSF) in high-grade squamous intraepithelial lesion and cervical cancer. *Biomedical journal*, 44(6 Suppl 2), S171.

Ma Y, et al. (2021) Fibulin 2 Is Hypermethylated and Suppresses Tumor Cell Proliferation through Inhibition of Cell Adhesion and Extracellular Matrix Genes in Non-Small Cell Lung Cancer. *International journal of molecular sciences*, 22(21).

Du MG, et al. (2021) The Absence of PTEN in Breast Cancer Is a Driver of MLN4924 Resistance. *Frontiers in cell and developmental biology*, 9, 667435.

Sun CC, et al. (2020) FOXC1-mediated LINC00301 facilitates tumor progression and triggers an immune-suppressing microenvironment in non-small cell lung cancer by regulating the HIF1 α pathway. *Genome medicine*, 12(1), 77.