

# Resource Summary Report

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## 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:** 20260729T044258+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 [nidm-terms](#) .

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 $\alpha$  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 $\alpha$  pathway. *Genome medicine*, 12(1), 77.