

Resource Summary Report

Generated by [NIF](#) on Aug 30, 2026

HMCan

RRID:SCR_010858

Type: Tool

Proper Citation

HMCan (RRID:SCR_010858)

Resource Information

URL: <http://www.cbrc.kaust.edu.sa/hmcan/>

Proper Citation: HMCan (RRID:SCR_010858)

Description: A Hidden Markov Model based software tool that is developed to detect histone modification in cancer ChIP-seq data.

Abbreviations: HMCan

Synonyms: Histone Modification in Cancer

Resource Type: software resource

Defining Citation: [PMID:24021381](#)

Keywords: bio.tools

Resource Name: HMCan

Resource ID: SCR_010858

Alternate IDs: biotools:hmcan, OMICS_00443

Alternate URLs: <https://bio.tools/hmcan>

Record Creation Time: 20220129T080301+0000

Record Last Update: 20260829T182356+0000

Ratings and Alerts

No rating or validation information has been found for HMCan.

No alerts have been found for HMCan.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 14 mentions in open access literature.

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

Gautier M, et al. (2026) A regulatory circuitry driving a noradrenergic to mesenchymal transition highlights YAP/TAZ as critical players in neuroblastoma plasticity. *Cell reports*, 45(5), 117351.

Zamuner FT, et al. (2025) Epigenetic profiling reveals key super-enhancer networks driving oncogenesis in HPV-positive HNSCC. *iScience*, 28(11), 113911.

Jin J, et al. (2025) ICMC: An Interpretable Cross-domain Multi-modal Classification model for grading teaching plan. *PloS one*, 20(9), e0330684.

Mondal S, et al. (2025) The Super Enhancer-Driven Long Noncoding RNA PRKCQ-AS1 Promotes Neuroblastoma Tumorigenesis by Interacting With MSI2 Protein and Is Targetable by Small Molecule Compounds. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 12(18), e2412520.

Thirant C, et al. (2023) Reversible transitions between noradrenergic and mesenchymal tumor identities define cell plasticity in neuroblastoma. *Nature communications*, 14(1), 2575.

Mohammed Ismail W, et al. (2023) MacroH2A histone variants modulate enhancer activity to repress oncogenic programs and cellular reprogramming. *Communications biology*, 6(1), 215.

Jdeed S, et al. (2022) The Role of ARID1A in the Nonestrogenic Modulation of IGF-1 Signaling. *Molecular cancer research : MCR*, 20(7), 1071.

Gregoricchio S, et al. (2022) HDAC1 and PRC2 mediate combinatorial control in SPI1/PU.1-dependent gene repression in murine erythroleukaemia. *Nucleic acids research*, 50(14), 7938.

Liehrmann A, et al. (2021) Increased peak detection accuracy in over-dispersed ChIP-seq data with supervised segmentation models. *BMC bioinformatics*, 22(1), 323.

Jarroux J, et al. (2021) HOTAIR lncRNA promotes epithelial-mesenchymal transition by redistributing LSD1 at regulatory chromatin regions. *EMBO reports*, 22(7), e50193.

Kaukonen D, et al. (2020) Analysis of H3K4me3 and H3K27me3 bivalent promoters in HER2+ breast cancer cell lines reveals variations depending on estrogen receptor status and significantly correlates with gene expression. *BMC medical genomics*, 13(1), 92.

Erd??s E, et al. (2020) NR2F2 Orphan Nuclear Receptor is Involved in Estrogen Receptor Alpha-Mediated Transcriptional Regulation in Luminal A Breast Cancer Cells. *International journal of molecular sciences*, 21(6).

Lopez-Delisle L, et al. (2018) Activated ALK signals through the ERK-ETV5-RET pathway to drive neuroblastoma oncogenesis. *Oncogene*, 37(11), 1417.

Ashoor H, et al. (2017) HMCAn-diff: a method to detect changes in histone modifications in cells with different genetic characteristics. *Nucleic acids research*, 45(8), e58.