

Resource Summary Report

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HISAT2

RRID:SCR_015530

Type: Tool

Proper Citation

HISAT2 (RRID:SCR_015530)

Resource Information

URL: <http://ccb.jhu.edu/software/hisat2/index.shtml>

Proper Citation: HISAT2 (RRID:SCR_015530)

Description: Graph-based alignment of next generation sequencing reads to a population of genomes.

Synonyms: HISAT

Resource Type: source code, sequence analysis software, data processing software, software resource, software application, data analysis software

Defining Citation: [PMID:25751142](https://pubmed.ncbi.nlm.nih.gov/25751142/), [DOI:10.1038/s41587-019-0201-4](https://doi.org/10.1038/s41587-019-0201-4)

Keywords: alignment program, mapping reads, population genomics, human genome, bio.tools

Funding: NLM R01-LM06845;
NIGMS R01-GM083873;
NSF CCF-0347992

Availability: Available for download

Resource Name: HISAT2

Resource ID: SCR_015530

Alternate IDs: OMICS_07225, biotools:hisat2

Alternate URLs: <https://github.com/infphilo/hisat2>, <https://bio.tools/hisat2>,

<https://sources.debian.org/src/hisat2/>

Record Creation Time: 20220129T080326+0000

Record Last Update: 20250412T055946+0000

Ratings and Alerts

No rating or validation information has been found for HISAT2.

No alerts have been found for HISAT2.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 13616 mentions in open access literature.

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

Sasaki M, et al. (2025) Efficacy of CBP/p300 Dual Inhibitors against Derepression of KREMEN2 in cBAF-Deficient Cancers. *Cancer research communications*, 5(1), 24.

Bryan E, et al. (2025) Nucleosomal asymmetry shapes histone mark binding and promotes poising at bivalent domains. *Molecular cell*, 85(3), 471.

Wang K, et al. (2025) Exploring the Role of Ccn3 in Type III Cell of Mice Taste Buds. *Journal of neurochemistry*, 169(1), e16291.

Wright SS, et al. (2025) Transplantation of gasdermin pores by extracellular vesicles propagates pyroptosis to bystander cells. *Cell*, 188(2), 280.

Luo Y, et al. (2025) Exploring the impacts of senescence on implantation and early embryonic development using totipotent cell-derived blastoids. *Journal of advanced research*, 68, 115.

Liu Z, et al. (2025) SoIR: a comprehensive Solanaceae information resource for comparative and functional genomic study. *Nucleic acids research*, 53(D1), D1623.

Li H, et al. (2025) Integrated multi-omics demonstrates enhanced antitumor efficacy of donafenib combined with FADS2 inhibition in hepatocellular carcinoma. *Translational oncology*, 51, 102142.

Meng X, et al. (2025) GTO: a comprehensive gene therapy omnibus. *Nucleic acids research*, 53(D1), D1393.

Polinski JM, et al. (2025) Chromosome-level reference genome for the Jonah crab, *Cancer borealis*. *G3 (Bethesda, Md.)*, 15(1).

Cheng Q, et al. (2025) shRNA-interfered of Nrf2 reveals a critical role for Keap1-Nrf2 signaling pathway during effects of zearalenone induced oxidative stress in IPEC-J2 cells. *Animal bioscience*, 38(2), 303.

Truong AD, et al. (2025) Identification of immune-associated genes with altered expression in the spleen of mice enriched with probiotic *Lactobacillus* species using RNA-seq profiling. *Animal bioscience*, 38(2), 336.

Mao X, et al. (2025) Single-Cell Simultaneous Metabolome and Transcriptome Profiling Revealing Metabolite-Gene Correlation Network. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 12(4), e2411276.

Zhao L, et al. (2025) m6A demethylase CpALKBH regulates CpZap1 mRNA stability to modulate the development and virulence of chestnut blight fungus. *mBio*, 16(1), e0184424.

Tihagam RD, et al. (2025) The TRIM37 variant rs57141087 contributes to triple-negative breast cancer outcomes in Black women. *EMBO reports*, 26(1), 245.

Nishimura A, et al. (2025) Non-thermal atmospheric pressure plasma-irradiated cysteine protects cardiac ischemia/reperfusion injury by preserving supersulfides. *Redox biology*, 79, 103445.

Qiu J, et al. (2025) Ucp1 Ablation Improves Skeletal Muscle Glycolytic Function in Aging Mice. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 12(2), e2411015.

Huang Y, et al. (2025) ZNF37A downregulation promotes TNFRSF6B expression and leads to therapeutic resistance to concurrent chemoradiotherapy in rectal cancer patients. *Translational oncology*, 51, 102203.

Kim W, et al. (2025) Transcription factor-dependent regulatory networks of sexual reproduction in *Fusarium graminearum*. *mBio*, 16(1), e0303024.

Wen X, et al. (2025) Inhibition of the neddylation E2 enzyme UBE2M in macrophages protects against *E. coli*-induced sepsis. *The Journal of biological chemistry*, 301(1), 108085.

Ma C, et al. (2025) Chromosome-level Genome Assembly and Annotation of the Arctic Moss *Ptychostomum knowltonii*. *Genome biology and evolution*, 17(1).