Resource Summary Report

Generated by NIF on Apr 21, 2025

HISAT2

RRID:SCR_015530
Type: Tool

Proper Citation

HISAT2 (RRID:SCR_015530)

Resource Information

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

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

Synonyms: HISAT

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

Defining Citation: PMID:25751142, DOI: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: 20250421T054054+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 NIF.

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.

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

Lengyel M, et al. (2025) Zymogen granule protein 16B (ZG16B) is a druggable epigenetic target to modulate the mammary extracellular matrix. Cancer science, 116(1), 81.

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

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

Yang N, et al. (2025) Silver-quercetin-loaded honeycomb-like Ti-based interface combats infection-triggered excessive inflammation via specific bactericidal and macrophage reprogramming. Bioactive materials, 43, 48.

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.

Li Y, et al. (2025) A gain-of-function mutation at the C-terminus of FT-D1 promotes heading by interacting with 14-3-3A and FDL6 in wheat. Plant biotechnology journal, 23(1), 20.

Suppiah J, et al. (2025) Unraveling potential gene biomarkers for dengue infection through RNA sequencing. Virus genes, 61(1), 26.

Wu L, et al. (2025) RNALocate v3.0: Advancing the Repository of RNA Subcellular Localization with Dynamic Analysis and Prediction. Nucleic acids research, 53(D1), D284.

Schöneberg Y, et al. (2025) Three Novel Spider Genomes Unveil Spidroin Diversification and Hox Cluster Architecture: Ryuthela nishihirai (Liphistiidae), Uloborus plumipes (Uloboridae) and Cheiracanthium punctorium (Cheiracanthiidae). Molecular ecology resources, 25(1), e14038.

Sun Y, et al. (2025) Quercetin ameliorates senescence and promotes osteogenesis of BMSCs by suppressing the repetitive element?triggered RNA sensing pathway. International journal of molecular medicine, 55(1).

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.

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.