

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>

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

Synonyms: HISAT

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

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: 20260829T182501+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 20753 mentions in open access literature.

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

He P, et al. (2027) Key molecular networks underlying retinol's biphasic effects on cell proliferation through multi-omics integrative analysis using genome-scale metabolic modeling. *Synthetic and systems biotechnology*, 15, 43.

Lee D, et al. (2026) Microglial VRK2 Regulates Astrocytic GABA Synthesis and Tonic Inhibition in the Thalamus. *Glia*, 74(1), e70101.

D'Alessio A, et al. (2026) Neurometabolic adaptations to intestinal inflammation in a mouse model of colitis. *American journal of physiology. Gastrointestinal and liver physiology*, 330(2), G98.

Zheng L, et al. (2026) PEX5 integrates the p38 MAPK signaling pathway and taurine metabolism to regulate senescence in lung fibroblasts. *Experimental cell research*, 458(1), 114973.

Weerasopon K, et al. (2026) Loss of Ezh2 promotes M2-like macrophage polarization in hepatocellular carcinoma. *iScience*, 29(4), 115180.

van der Elst A, et al. (2026) Molecular and Immune Landscape of Recurrent and/or Distant Metastatic Squamous Cell Carcinoma of the Head and Neck: An EORTC/IMMUCAN Project. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 32(13), 2732.

Wang R, et al. (2026) Constructing the spatiotemporal atlas of single-cell lineage trajectories in stereotypic biological structures. *iScience*, 29(1), 114307.

Hirano H, et al. (2026) ARID1A Deficiency in Diffuse-Type Gastric Cancer Promotes a Pyrimidine Metabolic Vulnerability. *Molecular cancer research : MCR*, 24(6), 518.

Lehmann AE, et al. (2026) Aneuploidy promotes transient stress adaptation and metabolic flexibility in the human fungal pathogen *Aspergillus fumigatus*. *Current biology : CB*, 36(13), 3258.

- Liu H, et al. (2026) C9orf72 hexanucleotide repeat RNA drives transcriptional dysregulation through genome-wide DNA:RNA hybrid G-quadruplexes. *Neuron*, 114(6), 1045.
- Gauthier J, et al. (2026) B cell-intrinsic IL-2 signaling regulates inflammation by promoting IL-10 expression in CD25⁺ age-associated B cells. *Immunity*, 59(2), 354.
- Dunn LN, et al. (2026) Altered hepatic metabolism in Down syndrome. *Cell reports*, 45(1), 116835.
- Gui S, et al. (2026) Multiomics Profiling Reveals Distinct Immunosuppression and Metabolic Dysregulation in Aggressive Subtypes of Thyroid Cancer. *Molecular & cellular proteomics : MCP*, 25(3), 101513.
- Bloomfield M, et al. (2026) Cell and Nuclear Size Is Associated with Chromosomal Instability and Tumorigenicity in Cancer Cells That Undergo Whole Genome Doubling. *Cancer research*, 86(9), 2126.
- Zhao Y, et al. (2026) IDH1 Reprograms Nucleotide Metabolism by Inducing Chromatin Remodeling and DHODH Transcription to Drive Chemoresistance in Nasopharyngeal Carcinoma. *Cancer research*, 86(8), 2004.
- Ji Y, et al. (2026) Serotonin Modulates Lineage Plasticity in Neuroendocrine Prostate Cancer via Epigenetic Reprogramming. *Cancer discovery*, 16(4), 760.
- Shi R, et al. (2026) Tumor-intrinsic FDFT1 determines coordinated macrophage anti-tumor immunity. *Developmental cell*, 61(6), 1238.
- Ferreira S, et al. (2026) Inactivation of CDKN2AARF Promotes p53-Independent Remodeling of the PDAC Tumor Microenvironment. *Cancer research*, 86(13), 3109.
- Budnik N, et al. (2026) Nucleoli-localized KANSL2 as an epigenetic regulator of ribosome biogenesis in glioblastoma cells. *Communications biology*, 9(1).
- Mao C, et al. (2026) Chromosome-level genome assembly and transcriptomes of the leaf insect *Cryptophyllum westwoodii* provide insights into the evolution of leaf-like masquerade. *GigaScience*, 15.