

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

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: 20260728T043502+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 17595 mentions in open access literature.

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

Dunn LN, et al. (2026) Altered hepatic metabolism in Down syndrome. Cell reports, 45(1), 116835.

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.

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

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

Devapatla P, et al. (2026) Multi-Target Effects of Novel Synthetic Indanedione-Based Spirotransdicalinol Compound 4I in Autosomal Dominant Polycystic Kidney Disease. FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 40(1), e71409.

Yang W, et al. (2026) Multi-omics reveals co-regulation of hepatic bile acid metabolism in laying hens by host genetics and the cecal Anaerostipes. Poultry science, 105(3), 106388.

Liu RX, et al. (2026) MdHMGB15-MdXERICO-MdNRP module mediates salt tolerance of apple by regulating the expression of salt stress-related genes. Journal of advanced research, 79, 61.

Chen Q, et al. (2026) SAMD4A inhibits abdominal aortic aneurysm development and VSMC phenotypic transformation through targeting KDM2B. Journal of advanced research, 79, 223.

Bao Z, et al. (2026) Transcriptomic analysis identifies CXCL12 as a novel candidate gene for litter size in rabbits. Animal bioscience, 39(1), 240640.

Yan X, et al. (2026) Targeting LOXL1-expressing Hepatic Stellate Cell Inhibits Fibrogenesis and Sinusoid Angiogenesis via LOXL1/RUNX1/VEGFA Axis During

Progression of Liver Fibrosis. Cellular and molecular gastroenterology and hepatology, 20(2), 101637.

Lv L, et al. (2026) Zinc finger protein 514 promotes esophageal cancer progression by enhancing cell proliferation, migration and invasion. Molecular medicine reports, 33(1).

Xie H, et al. (2026) Ubc9-Mediated SUMOylation of RPL3, an Unappreciated Mechanism against Hepatocyte Senescence by Repressing the DHX9-p16 Axis. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(1), e10240.

Park S, et al. (2026) Chronic PET-Microplastic Exposure: Disruption of Gut-Liver Homeostasis and Risk of Hepatic Steatosis. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(1), e12030.

García JF, et al. (2026) Intraspecies sequence-graph analysis of the *Phytophthora theobromicola* genome reveals a dynamic structure and variable effector repertoires. G3 (Bethesda, Md.), 16(1).

Bultinck J, et al. (2026) NLRP3 inhibition by VTX3232 tempers inflammation resulting in reduced body weight, hyperglycemia, and hepatic steatosis in obese male mice. Molecular metabolism, 103, 102282.

Zhang B, et al. (2026) Human papillomavirus E7 inhibits immune responses in keratinocytes by activating HTRA1-mediated mitophagy. International journal of molecular medicine, 57(1).

Zhao Z, et al. (2026) Dietary Bazhen San solid-state fermentation product improves laying performance, antioxidant capacity, and ovarian function in laying hens during the late laying period. Poultry science, 105(1), 106193.

Medvedeva S, et al. (2026) Widespread and intron-rich mirusviruses are predicted to reproduce in nuclei of unicellular eukaryotes. Nature microbiology, 11(1), 228.

Sun B, et al. (2026) CDK1-induced regulation of p53 phosphorylation at Ser315 mediates cell cycle arrest and apoptosis of macrophages infected with clinical isolates of *Mycobacterium tuberculosis*. Molecular medicine reports, 33(1).

Zhu W, et al. (2026) Secreted Glycoside Hydrolase BcGH61 From *Botrytis cinerea* Induces Cell Death by the Apoplastic Location and Triggers Intracellular Immune Perception. Molecular plant pathology, 27(1), e70199.