

Resource Summary Report

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Bowtie

RRID:SCR_005476

Type: Tool

Proper Citation

Bowtie (RRID:SCR_005476)

Resource Information

URL: <http://bowtie-bio.sourceforge.net/index.shtml>

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Description: Software ultrafast memory efficient tool for aligning sequencing reads. Bowtie is short read aligner.

Resource Type: sequence analysis software, image analysis software, alignment software, software resource, data analysis software, software application, data processing software

Defining Citation: [PMID:19261174](#), [DOI:10.1186/gb-2009-10-3-r25](#)

Keywords: sequence, analysis, long, reference, read, alignment, gap, local, pair, end, rna, rnaseq, bio.tools

Funding: NHGRI R01 HG006102;
NIGMS R01 GM083873;
Amazon Web Services in Education Research

Availability: Free, Available for download, Freely available

Resource Name: Bowtie

Resource ID: SCR_005476

Alternate IDs: biotools:bowtie, OMICS_00653

Alternate URLs: <https://github.com/BenLangmead/bowtie>, <https://bio.tools/bowtie>, <https://sources.debian.org/src/bowtie/>

License: GNU GPL v3.0

Record Creation Time: 20220129T080230+0000

Ratings and Alerts

No rating or validation information has been found for Bowtie.

No alerts have been found for Bowtie.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 13799 mentions in open access literature.

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

Lee SM, et al. (2026) Host microRNA-31-5p regulates KHDRBS3 expression and modulates viral gene expression during KSHV lytic reactivation. Cell reports, 45(4), 117160.

Tickman BI, et al. (2026) The response to kidney injury is epigenetically regulated through the activation of bivalent genes. American journal of physiology. Renal physiology, 330(2), F238.

Begnel ER, et al. (2026) Comparison of gut virome in Kenyan infants born to women with and without HIV. iScience, 29(3), 114900.

Gadad SS, et al. (2026) X-linked cancer-associated polypeptide (XCP) from lncRNA1456 modulates PHF8 histone demethylase activity to regulate the epigenome, gene expression, and cellular pathways in breast cancer. Oncogene, 45(17), 1557.

Alvaro-Espinosa L, et al. (2026) MIF-Induced CD74+ Microglia and Macrophages Promote Progression of Brain Metastasis and Are Clinically Relevant across Central Nervous System Disorders. Cancer research, 86(13), 3249.

Harris Snell P, et al. (2026) Coordinated regulation of mRNA translation and stability by ZC3H7A and ZC3H7B RNA-binding proteins. Cell reports, 45(6), 117511.

Lassila M, et al. (2026) Progressive intestinal tumor cell plasticity, Myc activation, and loss of Lgr5+ tumor stem cell lineage commitment upon Wnt depletion. Science advances, 12(28), eaeb8564.

Crnovrsanin N, et al. (2026) Combining cell-free DNA fragmentomes and total tumour volume improves prognostication and tumour response evaluation in patients with colorectal cancer liver metastases. EBioMedicine, 123, 106081.

Kim J, et al. (2026) Electromagnetic field-inducible in vivo gene switch for remote spatiotemporal control of gene expression. Cell, 189(11), 3465.

Friske JD, et al. (2026) A Conserved Enhancer Locus in Extrachromosomal DNA and Homogeneously Staining Regions Activates MYC Transcription in Group 3 Medulloblastoma. *Cancer research*, 86(13), 3160.

Tanida M, et al. (2026) Carbonic Anhydrase 12 as a Novel Prognostic Biomarker and Therapeutic Target for High-Risk Follicular Thyroid Carcinoma. *Cancer science*, 117(1), 257.

LaVigne CA, et al. (2026) Plagl1 and Lrrc58 control mammalian body size by triggering target-directed microRNA degradation of miR-322 and miR-503. *Genes & development*, 40(3-4), 215.

Kunzelman GW, et al. (2026) Chromatin Profiling Reveals Distinct Male and Female Trajectories for Developmental Learning Potential. *Developmental neurobiology*, 86(1), e23017.

Wang J, et al. (2026) Neutrophil-derived exosomes inhibit gastric cancer progression via miR-101-3p-mediated suppression of MCL1. *Cancer cell international*, 26(1), 88.

St John E, et al. (2026) Global deep-sea hydrothermal deposit metagenomes and metagenome-assembled genomes over time and space. *Scientific data*, 13(1), 283.

Li Y, et al. (2026) Comprehensive profiling of chromatin occupancy dynamics through the cell cycle. *Nucleic acids research*, 54(2).

Lee HK, et al. (2026) STAT3 SH2 Domain Aspartic Acid 661 Mutations Activate Immune Gene Programs. *Journal of cellular and molecular medicine*, 30(1), e71015.

Yang H, et al. (2026) Schwann cell-derived extracellular vesicles inhibit osteoclastogenesis through the PTEN/AKT axis in peripheral nerve-bone crosstalk. *Journal of nanobiotechnology*, 24(1), 144.

Akla N, et al. (2026) CRISPR-based chemogenomic profiling reveals redox vulnerabilities to epigallocatechin-3-gallate and green tea polyphenol extract. *Redox biology*, 90, 104047.

Wang K, et al. (2026) Silencing of BCL11A by disrupting enhancer-dependent epigenetic insulation. *Blood*, 147(13), 1470.