

Resource Summary Report

Generated by [PRECISE-TBI](#) on Sep 7, 2026

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

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

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 [PRECISE-TBI](#) .

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.

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.

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.

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.

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.

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

Tang Y, et al. (2026) Intestinal metabolite TMAO promotes CKD progression by stimulating macrophage M2 polarization through histone H4 lysine 12 lactylation. *Cell death and differentiation*, 33(2), 314.

Huang R, et al. (2026) PCsRNadb: a comprehensive resource of small noncoding RNAs across cancers. *Nucleic acids research*, 54(D1), D1545.

Xiao W, et al. (2026) An absolute quantification atlas of small non-coding RNAs across diverse mammalian tissues and cell lines. *Nature communications*, 17(1).

Huang Y, et al. (2026) MerTK-triggered TGF β 1 autocrine signal regulates microglial response to neurodegeneration. *Nature communications*, 17(1).

Stokes MS, et al. (2026) NAD⁺ sensing by PARP7 regulates the C/EBP β -dependent transcription program during adipogenesis. *Cell reports*, 45(2), 116929.

Cai J, et al. (2026) Dietary α -hydroxy- β -methyl butyrate supplementation improves intestinal health and growth performance in Tibetan sheep lambs via modulating small intestinal microbiota. *Journal of animal science and biotechnology*, 17(1), 25.

Bukhanets V, et al. (2026) Germline fate determination by a single ARGONAUTE protein in *Ectocarpus*. *Proceedings of the National Academy of Sciences of the United States of America*, 123(5), e2518712123.

Porcari S, et al. (2026) Fecal microbiota transplantation plus pembrolizumab and axitinib in metastatic renal cell carcinoma: the randomized phase 2 TACITO trial. *Nature medicine*, 32(4), 1316.

Fernandes R, et al. (2026) Fecal microbiota transplantation plus immunotherapy in metastatic renal cell carcinoma: the phase 1 PERFORM trial. *Nature medicine*, 32(4), 1325.

Sargen MR, et al. (2026) A prophage-encoded abortive infection protein preserves host and prophage spread. *Nature*, 652(8108), 201.