Resource Summary Report

Generated by NIF on Apr 20, 2025

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

Record Last Update: 20250420T014252+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 12328 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Ramponi V, et al. (2025) H4K20me3-Mediated Repression of Inflammatory Genes Is a Characteristic and Targetable Vulnerability of Persister Cancer Cells. Cancer research, 85(1), 32.

Meng X, et al. (2025) Metabolic rewiring controlled by HIF-1? tunes IgA-producing B-cell differentiation and intestinal inflammation. Cellular & molecular immunology, 22(1), 54.

Jacobs E, et al. (2025) A method for authenticating the fidelity of Cryptococcus neoformans knockout collections. bioRxiv : the preprint server for biology.

Berardi A, et al. (2025) The C-terminal PHDVC5HCH tandem domain of NSD2 is a combinatorial reader of unmodified H3K4 and tri-methylated H3K27 that regulates transcription of cell adhesion genes in multiple myeloma. Nucleic acids research, 53(1).

Hassan AM, et al. (2025) Ongoing Evolution of Middle East Respiratory Syndrome Coronavirus, Saudi Arabia, 2023-2024. Emerging infectious diseases, 31(1), 57.

Priego N, et al. (2025) TIMP1 Mediates Astrocyte-Dependent Local Immunosuppression in Brain Metastasis Acting on Infiltrating CD8+ T Cells. Cancer discovery, 15(1), 179.

Lechon T, et al. (2025) Regulation of meristem and hormone function revealed through analysis of directly-regulated SHOOT MERISTEMLESS target genes. Scientific reports, 15(1), 240.

Kashchenko G, et al. (2025) Investigating Aerobic Hive Microflora: Role of Surface Microbiome of Apis Mellifera. Biology, 14(1).

Al Abo M, et al. (2025) Genetic ancestry concordant RNA splicing in prostate cancer involves oncogenic genes and associates with recurrence. NPJ precision oncology, 9(1), 30.

Taggart JC, et al. (2025) A high-resolution view of RNA endonuclease cleavage in Bacillus subtilis. Nucleic acids research, 53(3).

Zhu Z, et al. (2025) Integrative multi-omics analysis reveals the translational landscape of the plant-parasitic nematode Meloidogyne incognita. Communications biology, 8(1), 140.

Fricker AD, et al. (2025) A Pilot Study Exploring the Relationship Between Milk Composition and Microbial Capacity in Breastfed Infants. Nutrients, 17(2).

Li Z, et al. (2025) Transcriptomic profiling and machine learning reveal novel RNA signatures for enhanced molecular characterization of Hashimoto's thyroiditis. Scientific reports, 15(1), 677.

Tavallaee G, et al. (2025) Mapping the 3D genome architecture. Computational and structural biotechnology journal, 27, 89.

D'aes J, et al. (2025) Metagenomics-based tracing of genetically modified microorganism contaminations in commercial fermentation products. Food chemistry. Molecular sciences, 10, 100236.

de la Cruz-Ojeda P, et al. (2025) In silico analysis of lncRNA-miRNA-mRNA signatures related to Sorafenib effectiveness in liver cancer cells. World journal of gastroenterology, 31(3), 95207.

Xu M, et al. (2025) Construction of an lncRNA-mediated ceRNA network to investigate the inflammatory regulatory mechanisms of ischemic stroke. PloS one, 20(1), e0317710.

Li T, et al. (2025) Free-caged rearing modes regulate chicken intestinal metabolism by influencing gut microbial homeostasis. Poultry science, 104(1), 104381.

Bernaleau L, et al. (2025) CCDC134 controls TLR biogenesis through the ER chaperone Gp96. The Journal of experimental medicine, 222(3).

Bayam E, et al. (2025) Bi-allelic variants in WDR47 cause a complex neurodevelopmental syndrome. EMBO molecular medicine, 17(1), 129.