

Resource Summary Report

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BWA-MEM2

RRID:SCR_022192

Type: Tool

Proper Citation

BWA-MEM2 (RRID:SCR_022192)

Resource Information

URL: <https://github.com/bwa-mem2/bwa-mem2>

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Description: Software tool for sequence mapping. The next version of BWA-MEM. Used for aligning sequencing reads against large reference genome.

Synonyms: BWA-MEM

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

Defining Citation: [DOI:10.1109/IPDPS.2019.00041](https://doi.org/10.1109/IPDPS.2019.00041)

Keywords: Intel Corporation, sequence mapping, aligning sequencing reads, large reference genome, Burrows-Wheeler Aligner,

Availability: Free, Available for download, Freely available

Resource Name: BWA-MEM2

Resource ID: SCR_022192

License: MIT License

Record Creation Time: 20220427T191217+0000

Record Last Update: 20260905T132952+0000

Ratings and Alerts

No rating or validation information has been found for BWA-MEM2.

No alerts have been found for BWA-MEM2.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 5566 mentions in open access literature.

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

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.

Gatz SA, et al. (2026) Phase I/II Study of the PARP Inhibitor Olaparib and Irinotecan in Children and Young Adults with Recurrent/Refractory Malignancies: Arm D of the AcS??-ESMART Trial. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 32(7), 1210.

Houl JH, et al. (2026) Role of the ETV5/p38 Signaling Axis in Aggressive Thyroid Cancer Cells. *Molecular cancer therapeutics*, 25(5), 844.

Srinivasan T, et al. (2026) The gut microbiota directs vitamin A flux to regulate intestinal T cell development. *Cell host & microbe*.

Takahashi J, et al. (2026) Spatial Multiomic Analyses Reveal Carcinogenic Pathways in End-Stage Renal Disease. *Cancer discovery*, 16(3), 478.

Buckley KH, et al. (2026) Gastric Epithelium from BRCA1 and BRCA2 Carriers Harbors Increased Double-Stranded DNA Damage and Enhanced Growth Potential. *Molecular cancer research : MCR*, 24(7), 589.

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.

Vlachos G, et al. (2026) Functional footprints of homologous recombination deficiency in prostate cancer revealed by ctDNA fragmentation and transcription factor accessibility. *British journal of cancer*.

Sharma M, et al. (2026) Improved reference assembly and core collection resequencing to facilitate exploration of important agronomical traits for the improvement of oilseed crop, *Carthamus tinctorius* L. *GigaScience*, 15.

Garralda E, et al. (2026) Broad Utility of Ultrasensitive Analysis of ctDNA Dynamics across Solid Tumors Treated with Immunotherapy. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 32(2), 333.

Roush SM, et al. (2026) Mutational profiling of HIV+ diffuse large B-cell lymphoma reveals distinct mutational features with evidence of genomic instability. *AIDS (London, England)*,

40(6), 719.

Sigalova OM, et al. (2026) Modeling cis-regulatory variation in human brain enhancers across a large Parkinson's Disease cohort. *bioRxiv : the preprint server for biology*.

Salazar YEAR, et al. (2026) MalDeepSeq panel: A targeted ultra-deep sequencing approach to trace drug resistance markers in *Plasmodium falciparum*. *Cell reports methods*, 101509.

Yang Q, et al. (2026) Molecular mechanism of resistance to lonafarnib conferred by mutations in the cysteine-rich region of respiratory syncytial virus fusion glycoprotein and discovery of a lonafarnib-derived antiviral PROTAC. *Journal of virology*, 100(1), e0148725.

Zhu C, et al. (2026) Identification of non-canonical peptides with moPepGen. *Nature biotechnology*, 44(4), 568.

Han SY, et al. (2026) Hearing loss phenotypes in Alport syndrome: experience in a tertiary referral center. *Kidney research and clinical practice*, 45(3), 357.

Droll SH, et al. (2026) Skin Epidermal Progenitor Maintenance by the SRCAP-H2A.Z Axis Downstream to Extracellular Signal-Regulated Kinase and mTOR Signaling. *The Journal of investigative dermatology*, 146(2), 509.

Pennington LK, et al. (2026) A reference genome for Colusa grass, *Neostapfia colusana*, a threatened and endangered California vernal pool plant. *The Journal of heredity*, 117(3), 459.

Adedokun AA, et al. (2026) Exploring the First Draft Genome of the Oribatid Mite, *Oppia nitens*: A Standardized Model Invertebrate in Soil Ecotoxicology. *Genome biology and evolution*, 18(2).

Li Y, et al. (2026) Mutations in sugar metabolism-related genes driving global drug-resistant *Mycobacterium tuberculosis* transmission revealed by whole-genome sequencing. *BMC infectious diseases*, 26(1).