Resource Summary Report

Generated by NIF on Apr 27, 2025

GSNAP

RRID:SCR 005483

Type: Tool

Proper Citation

GSNAP (RRID:SCR_005483)

Resource Information

URL: http://research-pub.gene.com/gmap/

Proper Citation: GSNAP (RRID:SCR_005483)

Description: Software to align single and paired end reads as short as 14 nt and of arbitrarily long length. Can detect short and long distance splicing, including interchromosomal splicing, in individual reads, using probabilistic models or database of known splice sites. Permits SNP-tolerant alignment to reference space of all possible combinations of major and minor alleles, and can align reads from bisulfite-treated DNA for study of methylation state.

Abbreviations: GSNAP

Synonyms: Genomic Short-read Nucleotide Alignment Program

Resource Type: data processing software, alignment software, image analysis software,

software resource, software application

Defining Citation: PMID:20147302

Keywords: next-generation sequencing, bio.tools, FASEB list

Funding:

Resource Name: GSNAP

Resource ID: SCR_005483

Alternate IDs: OMICS_00665, biotools:gsnap

Alternate URLs: https://bio.tools/gsnap

Record Creation Time: 20220129T080230+0000

Record Last Update: 20250426T055758+0000

Ratings and Alerts

No rating or validation information has been found for GSNAP.

No alerts have been found for GSNAP.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 744 mentions in open access literature.

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

Patterson E, et al. (2025) Developmental constraint underlies the replicated evolution of grass awns. The New phytologist, 245(2), 835.

Jallow MM, et al. (2025) Genetic and Molecular Characterization of Avian Influenza A(H9N2) Viruses from Live Bird Markets (LBM) in Senegal. Viruses, 17(1).

Nakano Y, et al. (2025) Genome-wide profiling of tRNA modifications by Induro-tRNAseq reveals coordinated changes. Nature communications, 16(1), 1047.

Montibus B, et al. (2024) The Nucleosome Remodelling and Deacetylation complex coordinates the transcriptional response to lineage commitment in pluripotent cells. Biology open, 13(1).

Kapur P, et al. (2024) Molecular underpinnings of dedifferentiation and aggressiveness in chromophobe renal cell carcinoma. JCI insight, 9(10).

Roller A, et al. (2024) Tumor-agnostic transcriptome-based classifier identifies spatial infiltration patterns of CD8+T cells in the tumor microenvironment and predicts clinical outcome in early-phase and late-phase clinical trials. Journal for immunotherapy of cancer, 12(4).

Herault A, et al. (2024) NKG2D-bispecific enhances NK and CD8+ T cell antitumor immunity. Cancer immunology, immunotherapy: CII, 73(10), 209.

Schauer SP, et al. (2024) Primate cerebrospinal fluid CHI3L1 reflects brain TREM2 agonism. Alzheimer's & dementia: the journal of the Alzheimer's Association, 20(9), 5861.

Li Y, et al. (2024) Dissection of a rapidly evolving wheat resistance gene cluster by long-read genome sequencing accelerated the cloning of Pm69. Plant communications, 5(1), 100646.

Guan X, et al. (2024) Anti-TIGIT antibody improves PD-L1 blockade through myeloid and Treg cells. Nature, 627(8004), 646.

Rayamajhi D, et al. (2024) The forkhead transcription factor Foxj1 controls vertebrate olfactory cilia biogenesis and sensory neuron differentiation. PLoS biology, 22(1), e3002468.

Konuma J, et al. (2024) Odd-Paired is Involved in Morphological Divergence of Snail-Feeding Beetles. Molecular biology and evolution, 41(6).

Rajab SAS, et al. (2024) Combinatorial metabolomic and transcriptomic analysis of muscle growth in hybrid striped bass (female white bass Morone chrysops x male striped bass M. saxatilis). BMC genomics, 25(1), 580.

Solon M, et al. (2024) ZBP1 and TRIF trigger lethal necroptosis in mice lacking caspase-8 and TNFR1. Cell death and differentiation, 31(5), 672.

Rodvold JJ, et al. (2024) ATF6 Promotes Colorectal Cancer Growth and Stemness by Regulating the Wnt Pathway. Cancer research communications, 4(10), 2734.

Henick BS, et al. (2024) Neoadjuvant atezolizumab + chemotherapy for resectable NSCLC: 3-year clinical update of phase II clinical trial results and translational findings. Journal for immunotherapy of cancer, 12(12).

Grabowski PP, et al. (2024) Relics of interspecific hybridization retained in the genome of a drought-adapted peanut cultivar. G3 (Bethesda, Md.), 14(11).

Armendariz I, et al. (2024) Rhytidome- and cork-type barks of holm oak, cork oak and their hybrids highlight processes leading to cork formation. BMC plant biology, 24(1), 488.

Lim J, et al. (2024) The Exonuclease TREX1 Constitutes an Innate Immune Checkpoint Limiting cGAS/STING-Mediated Antitumor Immunity. Cancer immunology research, 12(6), 663.

Trzaskoma P, et al. (2024) 3D chromatin architecture, BRD4, and Mediator have distinct roles in regulating genome-wide transcriptional bursting and gene network. Science advances, 10(32), eadl4893.