SAMTOOLS
RRID:SCR_002105
Type: Tool

Proper Citation

SAMTOOLS (RRID:SCR_002105)

Resource Information

URL: http://htslib.org/

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Description: Original SAMTOOLS package has been split into three separate repositories including Samtools, BCFtools and HTSlib. Samtools for manipulating next generation sequencing data used for reading, writing, editing, indexing, viewing nucleotide alignments in SAM, BAM, CRAM format. BCFtools used for reading, writing BCF2, VCF, gVCF files and calling, filtering, summarising SNP and short indel sequence variants. HTSlib used for reading, writing high throughput sequencing data.

Abbreviations: SAMtools

Synonyms: samtools, Samtools, Sequence Alignment Map TOOLS, SAMtools, SAM tools

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

Defining Citation: PMID:19505943, PMID:21903627, DOI:10.1093/bioinformatics/btp352

Keywords: Samtools, BCFtools, HTSlib, next generation sequencing, nucleotide alignments, sequence variant, genomic, c, perl, read, alignment, nucleotide, sequence, data, process, sam, bam, cram, vcf, bcf, bio.tools

Funding Agency: Wellcome Trust, NHGRI

Availability: Free, Available for download, Freely available

Resource Name: SAMTOOLS
Ratings and Alerts

No rating or validation information has been found for SAMTOOLS.

No alerts have been found for SAMTOOLS.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 21265 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.


Wolf M, et al. (2024) Near chromosome-level and highly repetitive genome assembly of the
snake pipefish Entelurus aequoreus (Syngnathiformes: Syngnathidae). GigaByte (Hong Kong, China), 2024, gigabyte105.


Vanhaver C, et al. (2024) Immunosuppressive low-density neutrophils in the blood of cancer patients display a mature phenotype. Life science alliance, 7(1).


Wong D, et al. (2024) Early Cancer Detection in Li-Fraumeni Syndrome with Cell-Free DNA. Cancer discovery, 14(1), 104.

Chen Y, et al. (2024) An improved chromosome-level genome assembly of perennial ryegrass (Lolium perenne L.). GigaByte (Hong Kong, China), 2024, gigabyte112.

Lin P, et al. (2024) RBBP6 maintains glioblastoma stem cells through CPSF3-dependent alternative polyadenylation. Cell discovery, 10(1), 32.


Zhao H, et al. (2024) Pluripotency state transition of embryonic stem cells requires the turnover of histone chaperone FACT on chromatin. iScience, 27(1), 108537.

Weigert M, et al. (2024) 5-Hydroxymethylcytosine signals in serum are a predictor of chemoresistance in high-grade serous ovarian cancer. Gynecologic oncology, 182, 82.


