

Resource Summary Report

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Deeptools

RRID:SCR_016366

Type: Tool

Proper Citation

Deeptools (RRID:SCR_016366)

Resource Information

URL: <https://deeptools.readthedocs.io/en/develop/>

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Description: Python based tools to process, visualize and analyse high-throughput sequencing data, such as ChIP-seq, RNA-seq or MNase-seq. Implemented within Galaxy framework. Used to perform complete bioinformatic workflows ranging from quality controls and normalizations of aligned reads to integrative analyses, including clustering and visualization approaches.

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

Defining Citation: [PMID:27079975](#)

Keywords: process, visualize, analysis, sequencing, data, ChIP-seq, RNA-seq, MNase-seq, quality, control, normalization, aligned, read, clustering, bioinformatic

Funding: German Research Foundation SFB 992;
German Epigenome Programme DEEP 01KU1216G

Availability: Free, Available for download, Freely available

Resource Name: Deeptools

Resource ID: SCR_016366

Alternate URLs: <http://deeptools.ie-freiburg.mpg.de/>

License: Public

Record Creation Time: 20220129T080330+0000

Record Last Update: 20260803T040719+0000

Ratings and Alerts

No rating or validation information has been found for Deeptools.

No alerts have been found for Deeptools.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 2418 mentions in open access literature.

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

Santos M, et al. (2026) Comprehensive Mapping of Functional Enhancers in Chinese Hamster Ovary Cells. *Biotechnology and bioengineering*, 123(1), 196.

Mauksch C, et al. (2026) FACT depletion demonstrates a role for nucleosome organization in TAD formation. *Molecular systems biology*, 22(1), 119.

Sankar V, et al. (2026) Genetic elements promote retention of extrachromosomal DNA in cancer cells. *Nature*, 649(8095), 152.

Mao L, et al. (2026) Super-enhancer-driven core transcription factor FOXP1 delays endothelial cell senescence via phase separation-mediated SESN3 activation. *Theranostics*, 16(3), 1386.

Lu P, et al. (2026) Bromodomain-containing protein 4 knockdown promotes neuronal ferroptosis in a mouse model of subarachnoid hemorrhage. *Neural regeneration research*, 21(2), 715.

Arai M, et al. (2026) Oral antigen exposure under costimulation blockade induces Treg cells to establish immune tolerance. *The Journal of experimental medicine*, 223(3).

Zhang G, et al. (2026) Spatial Reorganization of Chromatin Architecture Shapes the Expression Phenotype of Therapy-Induced Senescent Cells. *Aging cell*, 25(1), e70366.

Wang Z, et al. (2026) Multidimensional mapping of stimulation-responsive regulatory elements and candidate causal variants in T cell activation. *Science advances*, 12(1), eady2539.

De Luca DG, et al. (2026) Phylogenomic analysis and genetic mechanisms of antifungal resistance in clinical isolates of *Candida glabrata* (*Nakaseomyces glabratus*) from across Canada, 2013-2020. *Microbiology spectrum*, 14(1), e0180325.

Li JJ, et al. (2026) NSD2 targeting reverses plasticity and drug resistance in prostate cancer. *Nature*, 649(8095), 216.

Patel UA, et al. (2026) CRISPR Screen Identifies HDAC3 as a Novel Radiosensitizing Target in Small Cell Lung Cancer. *Molecular cancer therapeutics*, 25(1), 183.

Xu Y, et al. (2026) From degraded to deciphered: Applying ATAC-seq to forensic molecular diagnosis under degradation conditions. *Forensic science international*, 379, 112789.

Hao Y, et al. (2025) Intra species dissection of phytophthora capsici resistance in black pepper. *Journal of advanced research*, 74, 121.

Cigrang M, et al. (2025) Pan-inhibition of super-enhancer-driven oncogenic transcription by next-generation synthetic ecteinascidins yields potent anti-cancer activity. *Nature communications*, 16(1), 512.

Shimaoka K, et al. (2025) The microcephaly-associated transcriptional regulator AUTS2 cooperates with Polycomb complex PRC2 to produce upper-layer neurons in mice. *The EMBO journal*, 44(5), 1354.

Wang H, et al. (2025) Pathogenic mechanism of abnormal expression of HDAC3 in ovulatory granulosa cells inducing oocyte maturation disorder and its application in IVF. *The Journal of biological chemistry*, 301(3), 108287.

Tosoni B, et al. (2025) The G-quadruplex experimental drug QN-302 impairs liposarcoma cell growth by inhibiting MDM2 expression and restoring p53 levels. *Nucleic acids research*, 53(4).

Huffines AK, et al. (2025) Differential impact of divalent metals on native elongating transcript sequencing (NET-seq) protocols for RNA polymerases I and II. *PloS one*, 20(2), e0315595.

Lim B, et al. (2025) Active repression of cell fate plasticity by PROX1 safeguards hepatocyte identity and prevents liver tumorigenesis. *Nature genetics*, 57(3), 668.

Gur ER, et al. (2025) scATAC-seq generates more accurate and complete regulatory maps than bulk ATAC-seq. *Scientific reports*, 15(1), 3665.