

Resource Summary Report

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ChIPseeker

RRID:SCR_021322

Type: Tool

Proper Citation

ChIPseeker (RRID:SCR_021322)

Resource Information

URL: <https://bioconductor.org/packages/ChIPseeker/>

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Description: Software package to retrieve nearest genes around peak, annotate genomic region of peak, implements statistical methods for estimate significance of overlap among ChIP peak data sets, and incorporate GEO database for user to compare own dataset with those deposited in database. Several visualization functions are implemented to summarize coverage of peak experiment, average profile and heatmap of peaks binding to TSS regions, genomic annotation, distance to TSS, and overlap of peaks or genes.

Resource Type: software toolkit, software resource

Defining Citation: [PMID:25765347](#)

Keywords: Retrieve nearest genes around peak, annotate genomic region of peak, overlap estimate significance, ChIP peak data sets

Availability: Free, Available for download, Freely available

Resource Name: ChIPseeker

Resource ID: SCR_021322

Record Creation Time: 20220129T080354+0000

Record Last Update: 20260803T040808+0000

Ratings and Alerts

No rating or validation information has been found for ChIPseeker.

No alerts have been found for ChIPseeker.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 290 mentions in open access literature.

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

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.

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.

Yang Q, et al. (2025) Lactate regulates cell differentiation of erythroid progenitor cells via histone lactylation modification. *iScience*, 28(7), 112842.

Shafiq S, et al. (2025) Microglial deficiency in the ATRX chromatin remodeler elicits a viral mimicry immune response that impacts neuronal function and behavior. *PLoS biology*, 23(9), e3002659.

Zhang G, et al. (2025) TRAPT: a multi-stage fused deep learning framework for predicting transcriptional regulators based on large-scale epigenomic data. *Nature communications*, 16(1), 3611.

Leismann J, et al. (2025) DNA methylation at retrotransposons protects the germline by preventing NRF1-mediated activation. *EMBO reports*, 26(17), 4312.

Melino M, et al. (2025) Depleting the action of EZH2 through PI3K-mTOR inhibition to overcome metastasis and immunotherapy resistance in triple-negative breast cancer. *Molecular cancer therapeutics*.

Chen Q, et al. (2025) JMJD1C forms condensate to facilitate a RUNX1-dependent gene expression program shared by multiple types of AML cells. *Protein & cell*, 16(5), 338.

Barrag??n-Rosillo AC, et al. (2025) The role of DNA content in shaping chromatin architecture and gene expression. *The Plant journal : for cell and molecular biology*, 121(6), e70116.

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.

Li X, et al. (2025) NKX2-5/LHX1 and UHRF1 Establishing a Positive Feedback Regulatory Circuitry Drives Esophageal Squamous Cell Carcinoma through Epigenetic Dysregulation. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 12(20), e2413508.

Reisman SJ, et al. (2025) Comprehensive profiling of transcription factors for reprogramming human astrocytes to neuronal cells through endogenous CRISPR-based gene activation. *bioRxiv : the preprint server for biology*.

Du C, et al. (2025) Multiomic analyses on the contribution of transposable elements to the cis-regulatory landscape of different types of immune cells. *BMC genomics*, 26(1), 1077.

Du J, et al. (2025) Novel histone deacetylase-5 inhibitor T2943 exerts an anti-depressive effect in mice by enhancing GRID1 expression. *Scientific reports*, 15(1), 4522.

Agrawal R, et al. (2025) p53 regulates DREAM complex-mediated repression in a p21-independent manner. *The EMBO journal*, 44(8), 2279.

Yang J, et al. (2025) Clock gene ARNTL2 enhances 5-fluorouracil resistance in colon cancer by upregulating SLC7A11 to suppress ferroptosis. *Redox biology*, 86, 103798.

Wang X, et al. (2025) Wdr5-mediated H3K4 methylation facilitates HSPC development via maintenance of genomic stability in zebrafish. *Proceedings of the National Academy of Sciences of the United States of America*, 122(12), e2420534122.

Ma Y, et al. (2025) The Nuclear Localization of ACLY Guards Early Embryo Development Through Recruiting P300 and HAT1 to Promote Histone Acetylation and Transcription. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 12(31), e14367.

Ronzio M, et al. (2025) Binding of NF-Y to transposable elements in mouse and human cells. *Mobile DNA*, 16(1), 22.

Oles AR, et al. (2025) MyoD is essential in rhabdomyosarcoma by promoting survival through differentiation and CYLD. *iScience*, 28(8), 113149.