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 statical 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 resource, software toolkit

Defining Citation: PMID:25765347

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

Funding:

Availability: Free, Available for download, Freely available

Resource Name: ChIPseeker

Resource ID: SCR_021322

Record Creation Time: 20220129T080354+0000

Record Last Update: 20250513T062142+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 214 mentions in open access literature.

Listed below are recent publications. The full list is available at <u>dkNET</u>.

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.

Wang H, et al. (2025) BcWRKY25-BcWRKY33A-BcLRP1/BcCOW1 module promotes root development for improved salt tolerance in Bok choy. Horticulture research, 12(1), uhae280.

Zhou Y, et al. (2025) Cellular senescence-associated gene IFI16 promotes HMOX1dependent evasion of ferroptosis and radioresistance in glioblastoma. Nature communications, 16(1), 1212.

Lusby R, et al. (2025) Pan-cancer drivers of metastasis. Molecular cancer, 24(1), 2.

Angarola BL, et al. (2025) Comprehensive single-cell aging atlas of healthy mammary tissues reveals shared epigenomic and transcriptomic signatures of aging and cancer. Nature aging, 5(1), 122.

Guo C, et al. (2025) LEDGF/p75 promotes transcriptional pausing through preventing SPT5 phosphorylation. Science advances, 11(3), eadr2131.

Kabrani E, et al. (2025) RIF1 integrates DNA repair and transcriptional requirements during the establishment of humoral immune responses. Nature communications, 16(1), 777.

Li F, et al. (2025) LKB1 inactivation promotes epigenetic remodeling-induced lineage plasticity and antiandrogen resistance in prostate cancer. Cell research, 35(1), 59.

Dai J, et al. (2025) Atezolizumab plus bevacizumab in patients with unresectable or metastatic mucosal melanoma: 3-year survival update and multi-omics analysis. Clinical and translational medicine, 15(1), e70169.

Mätlik K, et al. (2024) Cell-type-specific CAG repeat expansions and toxicity of mutant

Huntingtin in human striatum and cerebellum. Nature genetics, 56(3), 383.

Lu Y, et al. (2024) ALDH1A3-acetaldehyde metabolism potentiates transcriptional heterogeneity in melanoma. Cell reports, 43(7), 114406.

Cai L, et al. (2024) Integrative analysis reveals associations between oral microbiota dysbiosis and host genetic and epigenetic aberrations in oral cavity squamous cell carcinoma. NPJ biofilms and microbiomes, 10(1), 39.

Zhong C, et al. (2024) Targeting osteoblastic 11?-HSD1 to combat high-fat diet-induced bone loss and obesity. Nature communications, 15(1), 8588.

Zhang Y, et al. (2024) Genome-Wide Analysis of p53 Targets Reveals SCN2A as a Novel Player in p53-Induced Cell Arrest in HPV-Positive Cells. Viruses, 16(11).

Zhang F, et al. (2024) A transcription network underlies the dual genomic coordination of mitochondrial biogenesis. eLife, 13.

Tabe-Bordbar S, et al. (2024) Mechanistic analysis of enhancer sequences in the estrogen receptor transcriptional program. Communications biology, 7(1), 719.

Ben S, et al. (2024) piRNA PROPER Suppresses DUSP1 Translation by Targeting N6-Methyladenosine-Mediated RNA Circularization to Promote Oncogenesis of Prostate Cancer. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 11(33), e2402954.

María Del Rocío PB, et al. (2024) Loss-of-function of the Zinc Finger Homeobox 4 (ZFHX4) gene underlies a neurodevelopmental disorder. medRxiv : the preprint server for health sciences.

Booms A, et al. (2024) Parkinson's disease risk enhancers in microglia. iScience, 27(2), 108921.

Hosseini M, et al. (2024) Metformin reduces the clonal fitness of Dnmt3aR878H hematopoietic stem and progenitor cells by reversing their aberrant metabolic and epigenetic state. Research square.