

Resource Summary Report

Generated by [dkNET](#) on Sep 9, 2026

ChIP-X Enrichment Analysis 3

RRID:SCR_023159

Type: Tool

Proper Citation

ChIP-X Enrichment Analysis 3 (RRID:SCR_023159)

Resource Information

URL: <https://maayanlab.cloud/chea3/>

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Description: Web based transcription factor enrichment analysis. Web server ranks TFs associated with user-submitted gene sets. ChEA3 background database contains collection of gene set libraries generated from multiple sources including TF-gene co-expression from RNA-seq studies, TF-target associations from ChIP-seq experiments, and TF-gene co-occurrence computed from crowd-submitted gene lists. Enrichment results from these distinct sources are integrated to generate composite rank that improves prediction of correct upstream TF compared to ranks produced by individual libraries.

Abbreviations: ChEA3

Synonyms: ChIP-X Enrichment Analysis Version 3 (ChEA3)

Resource Type: software resource, web application

Defining Citation: [PMID:31114921](#)

Keywords: Transcription Factor, gene sets, transcription factor enrichment analysis, TF-gene co-expression from RNA-seq studies, TF-target associations from ChIP-seq experiments, TF-gene co-occurrence, prediction of correct upstream,

Funding: NCI U24CA224260;
NHLBI U54HL127624;
NIGMS T32GM062754;
NIH Office of the Director OT3OD025467

Availability: Free, Freely available

Resource Name: ChIP-X Enrichment Analysis 3

Resource ID: SCR_023159

Record Creation Time: 20230121T050159+0000

Record Last Update: 20260905T133021+0000

Ratings and Alerts

No rating or validation information has been found for ChIP-X Enrichment Analysis 3.

No alerts have been found for ChIP-X Enrichment Analysis 3.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 193 mentions in open access literature.

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

Pan S, et al. (2026) PURE-seq integrates FACS and PIP-seq for single-cell genomics of ultra-rare cells. Nature communications, 17(1), 1408.

Wang Y, et al. (2026) Exploration Novel Therapeutic Targets for Periodontitis via Stress Granules Biomarkers. International dental journal, 76(2), 109390.

Lao Y, et al. (2026) Dietary Supplementation with Chrysanthemum morifolium Ramat cv. 'Hangju' Flower Extract Alleviates Skin Photoaging in SKH-1 Hairless Mice. Nutrients, 18(2).

Singh P, et al. (2026) Decoding Prognostic Signatures in Brain Metastatic Non-Small-Cell Lung Cancer via Integrated Multi-Omics and Network Analysis. International journal of molecular sciences, 27(8).

Tang J, et al. (2026) Development and validation of an immune-related diagnostic signature for breast cancer bone metastasis. Scientific reports, 16(1).

Xie J, et al. (2026) Critical Biological Functions and Clinical Implications of Epigenetic-Related Candidate Biomarkers in Chronic Obstructive Pulmonary Disease: Integrated Machine Learning Screening and Basic Experimental Validation. International journal of chronic obstructive pulmonary disease, 21, 592045.

Xue Q, et al. (2026) Copper deprivation reprograms antioxidant defense to suppress ferroptosis via SLC7A11. Redox biology, 92, 104130.

de Assis LVM, et al. (2026) Hepatocyte Circadian Clocks Control Cholesterol Metabolism and Protect From Metabolic Dysfunction-Associated Steatohepatitis. Cellular and molecular gastroenterology and hepatology, 20(8), 101806.

Hao W, et al. (2026) Integrative Multi-Omics Analysis Unveils Biomarkers Linking the Gut Microbiota, Blood Metabolites, and Recurrent Pregnancy Loss. *International journal of women's health*, 18, 598767.

Xiao G, et al. (2026) Defect in lysosomal enzyme trafficking and sorting is associated with irreversibility of pulmonary arterial hypertension. *Frontiers in cardiovascular medicine*, 13, 1763556.

Sun M, et al. (2026) FOS drives podocyte injury and renal fibrosis in diabetic kidney disease via direct Smad3 binding. *Cellular and molecular life sciences : CMLS*, 83(1).

Sharma RK, et al. (2026) Mechanotransduction-Induced Gene Expression Reveals Activation of TGF β /SKIL/TAZ Axis and Supports Invasive Phenotype in Triple-Negative Breast Cancer. *International journal of molecular sciences*, 27(5).

Jeon Y, et al. (2026) Uncovering a Glaucoma-Linked Lysophosphatidic Acid-MAPK/AP-1 Fibrosis Axis in Human Trabecular Meshwork Cells and Its Modulation by Diospyros kaki Leaf Extract. *International journal of molecular sciences*, 27(3).

Li P, et al. (2026) Multi-stage transcriptome analysis identifies hub genes and regulatory mechanisms driving cervical cancer progression. *PeerJ*, 14, e21255.

Albuz O, et al. (2026) Host Gene Signatures Associated with Gastric Cancer-Associated Microbial Taxa: A Descriptive Microbiome-Transcriptome Study. *Medicina (Kaunas, Lithuania)*, 62(5).

Jackson-Strong M, et al. (2026) GATA2 controls alveolar macrophage inflammatory gene expression and metabolic function. *JCI insight*, 11(7).

Yue B, et al. (2026) STUB1 downregulates TOP2A through a dual mechanism of ubiquitination and FOXM1-mediated transcription repression, suppressing breast cancer growth and enhancing sensitivity to chemotherapy. *Cellular & molecular biology letters*, 31(1).

Sarver DC, et al. (2026) Time-restricted feeding enhances cross-tissue temporal coordination of mitochondrial-associated transcripts. *iScience*, 29(6), 115957.

Ha YE, et al. (2026) Antioxidant Activities and Lipid Accumulation-Inhibitory Effects of Seed and Callus Extracts of *Impatiens balsamina* L. *Plants (Basel, Switzerland)*, 15(11).

Cheng A, et al. (2026) Environmental Fluoride Compromises Male Fertility: Differentially Modulated miR-34a-5p Targets REST to Regulate Autophagy in Testicular Somatic Cells. *Research (Washington, D.C.)*, 9, 1113.