

Resource Summary Report

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HOMER

RRID:SCR_010881

Type: Tool

Proper Citation

HOMER (RRID:SCR_010881)

Resource Information

URL: <http://homer.ucsd.edu/>

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Description: Software tools for Motif Discovery and next-gen sequencing analysis. Used for analyzing ChIP-Seq, GRO-Seq, RNA-Seq, DNase-Seq, Hi-C and numerous other types of functional genomics sequencing data sets. Collection of command line programs for unix style operating systems written in Perl and C++.

Abbreviations: HOMER

Synonyms: HOMER, Hypergeometric Optimization of Motif EnRichment, Homer, Homer v4.5

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

Defining Citation: [PMID:20513432](#)

Keywords: motif, discovery, next, generation, sequencing, analysis, genomic, data

Funding: Foundation Leducq Transatlantic Network Grant ;
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Resource Name: HOMER

Resource ID: SCR_010881

Alternate IDs: OMICS_00483

Alternate URLs: <http://biowhat.ucsd.edu/homer/index.html>

Record Creation Time: 20220129T080301+0000

Record Last Update: 20260905T132649+0000

Ratings and Alerts

No rating or validation information has been found for HOMER.

No alerts have been found for HOMER.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 5929 mentions in open access literature.

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

Pasco ST, et al. (2026) Challenge Specific Modulation of Responses to Adjuvant-Induced Innate Immune Memory. *Immunology*, 177(2), 254.

Liu J, et al. (2026) Epstein-Barr Virus Expressed Long Non-Coding RNA (lncBARTs) Regulate EBV Latent Genome Replication. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 13(8), e07286.

Dong L, et al. (2026) Mechanistic Insights Into Recurrent Implantation Failure: The Lactate-H3K18la-SLC7A11 Axis Explored via Endometrial Organoid and Blastoid-Endometrial Cell Implantation Models. *Cell proliferation*, 59(6), e70147.

Zhang R, et al. (2026) The Evolutionarily Conserved TPM1 Super-Enhancer Drives Skeletal Muscle Regeneration via Mechanotransduction Signaling. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 13(10), e14271.

Liang W, et al. (2026) Evolutionary Analysis of Transcriptional Regulation Mediated by Cdx2 in Rodents. *Cell proliferation*, 59(3), e70103.

Wu P, et al. (2026) SRSF3-TRIM28-MDC1 prevents DNA damage caused by R-loops in fatty liver disease in mice. *JCI insight*, 11(1).

Gao S, et al. (2026) ZFP42 maintains stemness and rhythmic transcription in human epidermal stem and progenitor cells via CRY1. *Communications biology*, 9(1).

Liao K, et al. (2026) The AHCY-adenosine complex rewires mRNA methylation to enhance fatty acid biosynthesis and tumorigenesis. *Cell research*, 36(2), 152.

Zhao Y, et al. (2026) Overexpression of the pioneer transcription factor Nr5a2 promotes the development of mouse somatic cell nuclear transfer embryos. *PLoS biology*, 24(1), e3003611.

Shahriar S, et al. (2026) Functional genomic analysis of non-canonical DNA regulatory elements of the aryl hydrocarbon receptor. *Toxicological sciences : an official journal of the Society of Toxicology*, 209(1).

Shao C, et al. (2026) Mutant p53 binds and controls estrogen receptor activity to drive endocrine resistance in ovarian cancer. *Genes & development*, 40(3-4), 199.

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).

Wang L, et al. (2026) Predictive prioritization of enhancers associated with pancreatic disease risk. *Cell genomics*, 6(1), 101040.

Ji Y, et al. (2026) Serotonin Modulates Lineage Plasticity in Neuroendocrine Prostate Cancer via Epigenetic Reprogramming. *Cancer discovery*, 16(4), 760.

Chen HC, et al. (2026) UTX coordinates TCF1 and STAT3 to control progenitor CD8+ T cell fate in autoimmune diabetes. *The Journal of clinical investigation*, 136(4).

Xiao L, et al. (2026) Small Extracellular Vesicles From Human Amniotic Membrane Mesenchymal Stem Cells Rejuvenate Senescent ?? Cells and Cure Age-Related Diabetes in Mice. *Aging cell*, 25(1), e70327.

Boros BD, et al. (2026) Antecedent enhancer activity predicts future susceptibility to seizures in mice. *Nature communications*, 17(1), 300.

You C, et al. (2026) Single-Nucleus Multi-Omics Reveals Hypoxia-Driven Angiogenic Programs and Their Epigenetic Control in Sinonasal Squamous Cell Carcinoma. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 13(12), e10302.

Magri MS, et al. (2026) Deep conservation of cis-regulatory elements and chromatin organization in echinoderms uncover ancestral regulatory features of animal genomes. *Nature ecology & evolution*, 10(2), 355.

Yoshimoto D, et al. (2026) Downregulation of HLA Class I Expression through HLA-A DNA Methylation Is Associated with Reduced CD8+ T-cell Infiltration in Cervical Cancer. *Cancer immunology research*, 14(1), 77.