# Resource Summary Report

Generated by T1D on Aug 27, 2026

## 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 ;
NCI CA52599;
NIDDK DK063491;
NIGMS P50 GM081892;
NIH HC088093;
NURSA consortium grant

**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:** 20260821T193928+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 T1D .


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.