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 processing software, sequence analysis software, data analysis software, software resource, software application

Defining Citation: PMID:20513432

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

Funding: NURSA consortium 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: 20260731T042836+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 5370 mentions in open access literature.

Listed below are recent publications. The full list is available at kravitz2 .

Chen Y, et al. (2026) The transcription factor CUX1 exerts opposing roles in human and mouse adipocyte differentiation. Molecular metabolism, 103, 102290.

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).

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.

Sinke L, et al. (2026) DNA methylation of genes involved in lipid metabolism drives adiponectin levels and metabolic disease. Diabetologia, 69(1), 127.

Zarodniuk M, et al. (2026) Mechanical compression induces neuronal apoptosis, reduces synaptic activity, and promotes glial neuroinflammation in mice and humans. Proceedings of the National Academy of Sciences of the United States of America, 123(1), e2513172122.

Santos M, et al. (2026) Comprehensive Mapping of Functional Enhancers in Chinese Hamster Ovary Cells. Biotechnology and bioengineering, 123(1), 196.

Kama Y, et al. (2026) Notch interaction with RUNX factors regulates initiation of the T-lineage program. The Journal of experimental medicine, 223(2).

Mao L, et al. (2026) Super-enhancer-driven core transcription factor FOXP1 delays endothelial cell senescence via phase separation-mediated SESN3 activation. Theranostics, 16(3), 1386.

Blanch TE, et al. (2026) Age-Dependent Chromatin Remodeling Drives Inflammatory Dysregulation in Tendon Cells. bioRxiv : the preprint server for biology.

Xu Y, et al. (2026) From degraded to deciphered: Applying ATAC-seq to forensic molecular diagnosis under degradation conditions. Forensic science international, 379, 112789.

Nitsch S, et al. (2026) H4K16 acylations destabilize chromatin architecture and facilitate transcriptional response during metabolic perturbations. Molecular cell, 86(1), 24.

Estermann MA, et al. (2025) NR2F2 regulation of interstitial cell fate in the embryonic mouse testis and its impact on differences of sex development. Nature communications, 16(1), 3987.

Qian W, et al. (2025) Single-cell transcriptomic and m6A methylation analyses reveal platelet-mediated immune regulatory mechanisms in sepsis. Frontiers in immunology, 16, 1607732.

Pakula A, et al. (2025) An increase in reactive oxygen species underlies neonatal cerebellum repair. eLife, 14.

Tiedje V, et al. (2025) Loss of tumor cell MHC class II drives MAPK inhibitor insensitivity of BRAF-mutant anaplastic thyroid cancers. The Journal of clinical investigation, 135(20).

Umrigar A, et al. (2025) CFTR Gene Regulation in Human Pancreatic Duct, Bile Duct and Sweat Gland Epithelial Cells. Journal of cellular and molecular medicine, 29(15), e70751.

Baba T, et al. (2025) Enlarged PML-nuclear bodies trigger conflicting cell cycle signal-mediated cytotoxicity in leukemia cells. Cell death & disease, 16(1), 586.

Liu A, et al. (2025) Transcriptome-wide regulation of folate on neural mRNA m6A methylome via carbon metabolism in Drosophila and mammals. Communications biology, 8(1), 1151.

Sugo N, et al. (2025) DNA polymerase ? suppresses somatic indels at CpG dinucleotides in developing cortical neurons. Proceedings of the National Academy of Sciences of the United States of America, 122(33), e2506846122.

Guo XL, et al. (2025) Fetal hepatocytes protect the HSPC genome via fetuin-A. Nature, 637(8045), 402.