Resource Summary Report

Generated by RRID on Aug 5, 2026

ARCHS4

RRID:SCR_015683
Type: Tool

Proper Citation

ARCHS4 (RRID:SCR_015683)

Resource Information

URL: http://amp.pharm.mssm.edu/archs4/

Proper Citation: ARCHS4 (RRID:SCR_015683)

Description: ARCHS4 provides access to gene counts from HiSeq 2000 and HiSeq 2500 platforms for human and mouse experiments from GEO and SRA. The website enables downloading of the data in H5 format for programmatic access as well as a 3-dimensional view of the sample and gene spaces. Search features allow browsing of the data by meta data annotation, ability to submit your own up and down gene sets, and explore matching samples enriched for annotated gene sets. Selected sample sets can be downloaded into a tab separated text file through auto-generated R scripts for further analysis. Reads are aligned with Kallisto using a custom cloud computing platform. Human samples are aligned against the GRCh38 human reference genome, and mouse samples against the GRCm38 mouse reference genome.

Resource Type: software tool

Resource Name: ARCHS4

Resource ID: SCR_015683

Record Creation Time: 20220129T080327+0000

Record Last Update: 20260801T190517+0000

Ratings and Alerts

No rating or validation information has been found for ARCHS4.

No alerts have been found for ARCHS4.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 71 mentions in open access literature.

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

Singhaviranon S, et al. (2025) Low-avidity T cells drive endogenous tumor immunity in mice and humans. Nature immunology, 26(2), 240.

Ping J, et al. (2025) A highland-adaptation variant near MCUR1 reduces its transcription and attenuates erythrogenesis in Tibetans. Cell genomics, 5(3), 100782.

Shaw NC, et al. (2025) Functional characterization of the MED12 p.Arg1138Trp variant in females: implications for neural development and disease mechanism. Molecular medicine (Cambridge, Mass.), 31(1), 300.

Hone Lopez S, et al. (2025) Upfront whole blood transcriptional patterns in patients receiving immune checkpoint inhibitors associate with clinical outcome. Cancer immunology, immunotherapy : CII, 74(10), 301.

Zhang G, et al. (2025) BRD4/MAP2K7/PGF Signaling Axis Promotes Senescence and Extracellular Matrix Metabolism of Nucleus Pulposus Cells in Intervertebral Disk Degeneration. Aging cell, 24(6), e70034.

Duan S, et al. (2025) Non-invasive imaging with ICOS-targeting monoclonal antibody for preclinical diagnosis of rheumatoid arthritis in a humanized mouse model. Journal of translational medicine, 23(1), 150.

Clarke DJB, et al. (2025) A Gene Set Foundation Model Pre-Trained on a Massive Collection of Diverse Gene Sets. bioRxiv : the preprint server for biology.

Elhamamsy A, et al. (2025) Hypoxic stress incites HIF1?-driven ribosome biogenesis that can be exploited by targeting RNA Polymerase I. Nature communications, 16(1), 8018.

Marino GB, et al. (2025) GeneSetCart: assembling, augmenting, combining, visualizing, and analyzing gene sets. GigaScience, 14.

Ma J, et al. (2025) Antagonism of estrogen-related receptor-? inhibits mitochondrial oxidative phosphorylation and reduces M2 macrophage infiltration in endometrial cancer. Journal for immunotherapy of cancer, 13(9).

Su Z, et al. (2025) GeneRAIN: multifaceted representation of genes via deep learning of gene expression networks. Genome biology, 26(1), 288.

Neugebauer E, et al. (2025) Herpesviruses mimic zygotic genome activation to promote viral replication. Nature communications, 16(1), 710.

Yan F, et al. (2025) BSA-LDHs-cGAMP In Situ Sensitization of Osteosarcoma: Enhancing Antitumor Efficacy with CD40 Agonist Antibodies. ACS biomaterials science &

engineering, 11(8), 4931.

Lanzer JD, et al. (2025) A cross-study transcriptional patient map of heart failure defines conserved multicellular coordination in cardiac remodeling. Nature communications, 16(1), 9659.

Wilson KA, et al. (2024) OXR1 maintains the retromer to delay brain aging under dietary restriction. Nature communications, 15(1), 467.

Chin WL, et al. (2024) SampleExplorer: using language models to discover relevant transcriptome data. Bioinformatics (Oxford, England), 41(1).

Hendi NN, et al. (2024) Functional characterization of the SDR42E1 reveals its role in vitamin D biosynthesis. Heliyon, 10(17), e36466.

Franzén Boger M, et al. (2024) Sustained immune activation and impaired epithelial barrier integrity in the ectocervix of women with chronic HIV infection. PLoS pathogens, 20(11), e1012709.

Bai W, et al. (2024) An integrated analysis revealing the angiogenic function of TP53I11 in tumor microenvironment. Heliyon, 10(8), e29504.

Muela-Zarzuela I, et al. (2024) NLRP1 inflammasome promotes senescence and senescence-associated secretory phenotype. Inflammation research : official journal of the European Histamine Research Society ... [et al.], 73(8), 1253.