Resource Summary Report

Generated by Kravitz on Sep 16, 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: 20260912T195829+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 84 mentions in open access literature.

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

Johnson M, et al. (2026) Whole Blood Transcriptomic Analysis of Sickle Cell Trait. European journal of haematology, 116(5), 535.

Goshima Y, et al. (2026) Disruption of the l-DOPA Receptor Gpr143/OA1-Gene in Mice Creates a Unique Mixed Psychosis-Like Phenotype. Neuropsychopharmacology reports, 46(1), e70080.

Bokor LA, et al. (2026) Upregulated GLUT1 expression correlates with type I interferon activity and disease severity in cutaneous lupus erythematosus. Journal of translational autoimmunity, 12, 100375.

Loipfinger S, et al. (2026) Association of copy number alterations with the immune transcriptomic landscape in cancer. NPJ systems biology and applications, 12(1), 28.

Urbano R, et al. (2026) Human XIRP1 is a new podosome protein targeting cytosolic bacteria as part of the IFN-? defense program. Journal of immunology (Baltimore, Md. : 1950), 215(6).

Deisseroth CA, et al. (2026) Transcriptomic data and biomedical literature synergize in finding pharmacologic gene regulators. bioRxiv : the preprint server for biology.

García-González J, et al. (2026) The gene expression landscape of disease genes. Genome biology, 27(1).

Ye S, et al. (2026) Cardiomyocyte Cyclin-dependent kinase 9 directly binds to and phosphorylates NF-?B p65 subunit to drive cardiac inflammation and remodeling. Nature communications, 17(1).

You H, et al. (2026) HBx-mediated GPT2 suppression promotes liver cancer development by downregulating ADH1A. Cancer biology & medicine, 23(6), 888.

Kim D, et al. (2026) hStouffer: the enhanced meta-analysis method for the comprehensive analysis of large-scale RNA-seq data. BMC bioinformatics, 27(1).

Martínez-Illescas NG, et al. (2026) Tumor ecology and the paradox of clean margins in multicentric breast cancer: an exploratory organoid-based functional study. Breast cancer research : BCR, 28(1).

Pan Y, et al. (2026) PPP1R14A in male erectile dysfunction: key role in smooth muscle cells. Sexual medicine, 14(3), qfag021.

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.

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.

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.

Majid S, et al. (2025) Discovery of placental microRNAs associated with maternal insulin sensitivity during pregnancy. Placenta, 172, 104.

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.

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.

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