

Resource Summary Report

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xCell

RRID:SCR_026446

Type: Tool

Proper Citation

xCell (RRID:SCR_026446)

Resource Information

URL: <https://github.com/dviraran/xCell>

Proper Citation: xCell (RRID:SCR_026446)

Description: Software R package for generating cell type scores and R scripts for development of xCell. Web tool that performs cell type enrichment analysis from gene expression data for immune and stroma cell types. Used for Cell types enrichment analysis.

Resource Type: software toolkit, software resource, web application, source code

Defining Citation: [PMID:29141660](#)

Keywords: Cell types enrichment analysis, cell type, enrichment analysis, generating cell type scores and R scripts, development of xCell,

Funding: Gruss Lipper Postdoctoral Fellowship ;
NCI U24 CA195858;
NIAID

Availability: Free, Available for download, Freely available

Resource Name: xCell

Resource ID: SCR_026446

Alternate URLs: <http://xCell.ucsf.edu/>

Record Creation Time: 20250221T060325+0000

Record Last Update: 20260731T043213+0000

Ratings and Alerts

No rating or validation information has been found for xCell .

No alerts have been found for xCell .

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 62 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Liu M, et al. (2025) hCCL19-expressing recombinant Newcastle disease virus boosts CAR T cell infiltration and efficacy in solid tumor. *Journal for immunotherapy of cancer*, 13(7).

Ren W, et al. (2025) Whole-genome sequencing reveals three follicular lymphoma subtypes with distinct cell of origin and patient outcomes. *Cell reports. Medicine*, 6(8), 102278.

Su M, et al. (2025) Hypoxia-related signatures predicts survival, immunosuppression and PARP inhibitor resistance in HCC. *Discover oncology*, 16(1), 1116.

Wang H, et al. (2025) Identification of prognostic genes associated with phase separation in lung adenocarcinoma and construction of prognostic models. *Scientific reports*, 15(1), 34547.

Cai D, et al. (2025) Personalized risk stratification in colorectal cancer via PIANOS system. *Nature communications*, 16(1), 6561.

Jin D, et al. (2025) Unveiling the prognostic and immunological role of IFI44 in glioma. *Annals of medicine*, 57(1), 2593209.

Zheng J, et al. (2025) Genome-wide association assessment between immune cells and osteoarthritis: a bidirectional Mendelian randomization study. *Annals of joint*, 10, 22.

Liu Y, et al. (2025) Profiling with senescence-associated secretory phenotype score identifies GDC-0879 as a small molecule sensitizing glioblastoma to anti-PD1. *Cell death & disease*, 16(1), 602.

Kumar R, et al. (2025) Race-related host and microbe transcriptomic signatures in triple-negative breast cancer. *NPJ breast cancer*, 11(1), 87.

Gao L, et al. (2025) Bioinformatic identification of COLEC12 as a diagnostic biomarker and risk factor in pediatric FSGS. *Frontiers in pediatrics*, 13, 1539475.

Nakahara H, et al. (2025) Multiomics Analysis of Liver Molecular Dysregulation Leading to Nonviral-Related Hepatocellular Carcinoma Development. *Journal of proteome research*, 24(3), 1102.

Rao W, et al. (2025) A three-subtype prognostic classification based on base excision repair and oxidative stress genes in lung adenocarcinoma and its relationship with tumor microenvironment. *Scientific reports*, 15(1), 16647.

Dai B, et al. (2025) The Role of Abatacept on Inflammation and Fibrosis in Hypochlorous Acid-Induced Fibrosis Mice. *International journal of rheumatic diseases*, 28(5), e70250.

Wen Y, et al. (2025) Integrative analysis and prognostication in gastric cancer: unveiling the role of mitochondrial genomics with the MLRScore model. *Discover oncology*, 16(1), 470.

Liang M, et al. (2025) RNF2 induces myeloid-derived suppressor cells chemotaxis and promotes hepatocellular carcinoma progression through the TRAF2-NF- κ B signaling axis. *Cancer immunology, immunotherapy : CII*, 74(5), 162.

Rong XB, et al. (2025) Exploring the pathogenesis of steroid-induced osteonecrosis of the femoral head co-regulated by mesenchymal stem cells and pyroptosis-related genes with the use of transcriptome. *European journal of medical research*, 30(1), 985.

Tanaka A, et al. (2025) Deep proteogenomic characterization of pancreatic solid pseudopapillary neoplasm reveals unique features distinct from other pancreatic tumors. *Biomarker research*, 13(1), 159.

Song P, et al. (2025) Genomic and Immune Profiling of Esophageal Squamous Cell Carcinoma Undergoing Neoadjuvant Therapy Versus Upfront Surgery Identifies Novel Immunogenic Cell Death-Based Signatures for Predicting Clinical Outcomes. *MedComm*, 6(4), e70171.

Wu X, et al. (2025) Deciphering of intra-tumoural heterogeneity and the interplay between metastasis-associated meta-program and myofibroblasts in gastric cancer. *Clinical and translational medicine*, 15(5), e70319.

Sun Y, et al. (2025) Revealing propionate metabolism-related genes in glioblastoma and investigating their underlying mechanisms. *Frontiers in oncology*, 15, 1529369.