

Resource Summary Report

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CopyKAT

RRID:SCR_024512

Type: Tool

Proper Citation

CopyKAT (RRID:SCR_024512)

Resource Information

URL: <https://github.com/navinlabcode/copykat>

Proper Citation: CopyKAT (RRID:SCR_024512)

Description: Software R package to estimate genomic copy number profiles at average genomic resolution of 5 Mb from read depth in high throughput single cell RNA sequencing data. Used for inference of genomic copy number and subclonal structure of human tumors from high-throughput single cell RNAseq data.

Synonyms: , Copynumber Karyotyping of Aneuploid Tumors

Resource Type: software resource, software toolkit

Defining Citation: [PMID:33462507](#)

Keywords: Inference of genomic copy number and subclonal structure of human tumors, high throughput single cell RNAseq data,

Availability: Free, Available for download, Freely available

Resource Name: CopyKAT

Resource ID: SCR_024512

Record Creation Time: 20231002T161337+0000

Record Last Update: 20260725T191113+0000

Ratings and Alerts

No rating or validation information has been found for CopyKAT.

No alerts have been found for CopyKAT.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 65 mentions in open access literature.

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

Xiong Z, et al. (2026) C/EBP β -induced alternative splicing of RCAN1 generates a potent TCR-T target in mesenchymal glioblastoma. Cellular & molecular immunology, 23(1), 94.

Liu Y, et al. (2025) Proteogenomic characterisation of primary oral cancer unveils extracellular matrix remodelling and immunosuppressive microenvironment linked to lymph node metastasis. Clinical and translational medicine, 15(3), e70261.

Song X, et al. (2025) A Single-Cell Atlas of RNA Alternative Splicing in the Glioma-Immune Ecosystem. bioRxiv : the preprint server for biology.

Pan R, et al. (2025) BestopCloud: an integrated one-stop solution for single-cell RNA sequencing data analysis. BMC genomics, 26(1), 905.

Ying L, et al. (2025) Cancer-associated fibroblasts expressing FSTL3 promote vasculogenic mimicry formation and drive colon cancer malignancy. Cell death & disease, 16(1), 706.

Martin-Martin N, et al. (2025) Transcriptional analysis of metastatic hormone-naïve prostate cancer primary tumor biopsies reveals a relevant role for SOX11 in prostate cancer cell dissemination. Genome biology, 26(1), 154.

Jia T, et al. (2025) Multi-omics profiling identifies TNFRSF18 as a novel marker of exhausted CD8 α T cells and reveals tumour-immune dynamics in colorectal cancer. Clinical and translational medicine, 15(8), e70425.

Chan PY, et al. (2025) The synthetic lethal interaction between CDS1 and CDS2 is a vulnerability in uveal melanoma and across multiple tumor types. Nature genetics, 57(7), 1672.

Jiang X, et al. (2025) Depletion of Effector Regulatory T Cells Associates with Major Response to Induction Dual Immune Checkpoint Blockade. Cancer discovery, 15(8), 1569.

Wang Y, et al. (2025) Therapeutic implications of cancer-associated fibroblast heterogeneity: insights from single-cell and multi-omics analysis. Frontiers in immunology, 16, 1580315.

Lu X, et al. (2025) NKX2-1 drives neuroendocrine transdifferentiation of prostate cancer via epigenetic and 3D chromatin remodeling. Nature genetics, 57(8), 1966.

Shi J, et al. (2025) Single-Cell RNA-Seq Recognized Key Genes for Metastasis and Macrophage Infiltration in Colorectal Cancer. *Human mutation*, 2025, 9488531.

Rymuza J, et al. (2025) PIT-1/SF-1-positive pituitary tumors in patients with acromegaly: transcriptomic perspective. *Acta neuropathologica communications*, 13(1), 174.

Sriramareddy SN, et al. (2025) GDF15 reprograms the microenvironment to drive the development of uveal melanoma liver metastases. *bioRxiv : the preprint server for biology*.

Wu Z, et al. (2025) A dual-targeting strategy to inhibit colorectal cancer liver metastasis via tumor cell ferroptosis and cancer-associated fibroblast reprogramming. *Bioactive materials*, 52, 73.

Wang L, et al. (2025) CD70-targeted iPSC-derived CAR-NK cells display potent function against tumors and alloreactive T cells. *Cell reports. Medicine*, 6(1), 101889.

Wang G, et al. (2025) Analysis of the associations between DNA methylation and clinical features reveals the potential oncogenic effect of CFAP52 in esophageal squamous cell cancer. *Cancer cell international*, 25(1), 394.

Ruan J, et al. (2025) Multiple-omics analysis reveals a dedifferentiation-immune loop in intrahepatic cholangiocarcinoma. *Molecular therapy : the journal of the American Society of Gene Therapy*, 33(4), 1803.

Song M, et al. (2025) Benchmarking copy number aberrations inference tools using single-cell multi-omics datasets. *Briefings in bioinformatics*, 26(2).

Deng Z, et al. (2025) Integrated machine learning and single-cell analysis reveal the prognostic and therapeutic potential of SUMOylation-related genes in ovarian cancer. *Frontiers in immunology*, 16, 1577781.