

Resource Summary Report

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TCGAbiolinks

RRID:SCR_017683

Type: Tool

Proper Citation

TCGAbiolinks (RRID:SCR_017683)

Resource Information

URL: <https://bioconductor.org/packages/TCGAbiolinks/>

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Description: Software R Bioconductor package for integrative analysis with TCGA data. TCGAbiolinks is able to access National Cancer Institute Genomic Data Commons thorough its GDC Application Programming Interface to search, download and prepare relevant data for analysis in R.

Synonyms: Cancer Genome Atlas (TCGA) biolinks

Resource Type: data analysis software, data processing software, software application, software resource

Defining Citation: [PMID:26704973](#), [DOI:10.12688/f1000research.8923.2](#)

Keywords: Integrative, analysis, TCGA data, cancer, genome, atlas, genomic, analysis, expression, methylated, region, survival plot, phenotype, tumor, epigenomic, alteration, clinical, molecular, retrival

Funding: BridgeIRIS ;
GENGISCAN ;
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Region de Bruxelles Capitale ;
Brussels ;
Belgium ;
São Paulo Research Foundation

Availability: Free, Available for download, Freely available

Resource Name: TCGAbiolinks

Resource ID: SCR_017683

Alternate URLs: <https://github.com/BioinformaticsFMRP/TCGAbiolinks>

License: GPLv3

Record Creation Time: 20220129T080336+0000

Record Last Update: 20260903T235440+0000

Ratings and Alerts

No rating or validation information has been found for TCGAbiolinks.

No alerts have been found for TCGAbiolinks.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 112 mentions in open access literature.

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

de Souza Resende JS, et al. (2026) The Steroidal Profile Modulates Adaptive Immune Response and Prognosis in Adrenocortical Carcinoma: Analysis of TCR and BCR Repertoires. Cancer medicine, 15(6), e71781.

Searle J, et al. (2026) The E3 ubiquitin ligase HUWE1 is required for KRAS-induced lung cancer. Cell death & disease, 17(1).

Stoiber S, et al. (2026) [18F]FDG PET/CT multiomics identifies Hedgehog-driven HPV-negative head and neck squamous cell carcinoma. Molecular cancer, 25(1).

Liu B, et al. (2026) Shared molecular features and candidate pathways underlying gastric cancer-depression comorbidity: a systems biology analysis. Frontiers in bioinformatics, 6, 1836419.

Li L, et al. (2026) Ferroptosis-related gene signature predicts prognosis and immunotherapy response in hepatocellular carcinoma: A multi-cohort retrospective study. Medicine, 105(4), e47262.

Choudhury SR, et al. (2026) HOXC6 overexpression stimulates cell migration and correlates with poor prognosis in head and neck squamous cell carcinoma. Cellular and molecular life sciences : CMLS, 83(1), 77.

Hübner J, et al. (2026) Novel CAR T cell blend targeting PDPN and GD2 to overcome glioblastoma heterogeneity. Journal for immunotherapy of cancer, 14(6).

Hu YM, et al. (2026) Elevated Tumor-Associated Androgen Receptor Activity Correlates with Poor Immune Infiltration and Immunotherapy Response across Cancer Types. *Cancer research communications*, 6(1), 17.

Goswami S, et al. (2026) miRNA-Mediated Signaling Networks in Non-Small Cell Lung Cancer: Linking Tumor Progression to Sarcopenia. *International journal of molecular sciences*, 27(11).

Li JZ, et al. (2026) DNA Methylation-Based Risk Stratification and Classification of Pediatric Thyroid Carcinoma. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 32(9), 1898.

Lu H, et al. (2026) Epithelial-mesenchymal transition is associated with altered immune composition and cytotoxic function in triple-negative breast cancer. *Breast cancer research : BCR*, 28(1).

Li C, et al. (2026) ARID1A deficiency unleashes centromeric RNA transcription to drive chromosomal instability and boosts PKMYT1 inhibitor efficacy via RNA sensing. *bioRxiv : the preprint server for biology*.

Roger E, et al. (2026) ATM Deficiency Induces TGF β -Mediated Stromal Programming in Pancreatic Cancer. *Cancer research*, 86(14), 3412.

LaBuda SE, et al. (2026) Characterizing the Discordance between AT-Rich Interacting Domain 1A Protein and Genotype in Endometrioid-Type Endometrial Tumors. *The American journal of pathology*, 196(7), 1530.

Ding C, et al. (2026) Glioblastoma-Secreted C1QL1 Orchestrates Tumor Microtubule Expansion and Neural Synaptic Pruning to Drive Malignant Synapse Formation and Recurrence. *Cancer discovery*, 16(6), 1176.

Abdi K, et al. (2026) miR-132 overexpression is associated with modulation in miR-21 expression and glioblastoma cell behavior. *PloS one*, 21(7), e0352119.

Fidaleo AM, et al. (2026) LRRC8A-containing anion channels promote glioblastoma proliferation via a WNK1/mTORC2-dependent mechanism. *The Journal of physiology*, 604(5), 1995.

Huang Y, et al. (2025) A comparison of hepatitis B virus- and hepatitis C virus-related hepatocellular carcinoma: a bioinformatics analysis. *Translational cancer research*, 14(7), 4243.

Nibeyro G, et al. (2025) Evaluating Gene Fusions as Prognostic Biomarkers and Therapeutic Targets in Immune Checkpoint Blockade-Treated Advanced Melanoma: A Retrospective Analysis. *Cancer research communications*, 5(8), 1332.

Withers HG, et al. (2025) Intratumoral B cell and interferon signatures in newly diagnosed glioblastoma are associated with longer survival in patients treated with SurVaxM. *Cancer immunology, immunotherapy : CII*, 74(11), 332.