

Resource Summary Report

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Cancer Imaging Archive (TCIA)

RRID:SCR_008927

Type: Tool

Proper Citation

Cancer Imaging Archive (TCIA) (RRID:SCR_008927)

Resource Information

URL: <http://www.cancerimagingarchive.net/>

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Description: Archive of medical images of cancer accessible for public download. All images are stored in DICOM file format and organized as Collections, typically patients related by common disease (e.g. lung cancer), image modality (MRI, CT, etc) or research focus. Neuroimaging data sets include clinical outcomes, pathology, and genomics in addition to DICOM images. Submitting Data Proposals are welcomed.

Abbreviations: TCIA

Synonyms: TCIA, Cancer Imaging Archive, The Cancer Imaging Archive (TCIA), Cancer Imaging Archive (TCIA), The Cancer Imaging Archive

Resource Type: database, data or information resource, data set, service resource, data repository, image repository, catalog, storage service resource

Keywords: dicom, imaging, ct, pet, pt, x-ray, mri, magnetic resonance, medical, clinical, research, clinical neuroinformatics, computed tomography, dicom, imaging genomics, magnetic resonance, pet, spect, test data, web service, image collection, image, FASEB list

Related Condition: Cancer

Funding: NCI

Availability: Restricted

Resource Name: Cancer Imaging Archive (TCIA)

Resource ID: SCR_008927

Alternate IDs: DOI:10.25504/FAIRsharing.jrfd8y, DOI:10.17616/R3NH0V, DOI:10.7937, nlx_151749

Alternate URLs: <http://www.nitrc.org/projects/tcia>, <http://www.cancerimagingarchive.net/>, <http://www.cancerimagingarchive.net/primary-data/>, <https://wiki.cancerimagingarchive.net/display/Public/Collections>, <https://doi.org/10.17616/R3NH0V>, <https://doi.org/10.17616/r3NH0V>, <https://doi.org/10.7937/>, <https://dx.doi.org/10.7937/>, <https://fairsharing.org/10.25504/FAIRsharing.jrfd8y>

Record Creation Time: 20220129T080250+0000

Record Last Update: 20250418T055213+0000

Ratings and Alerts

No rating or validation information has been found for Cancer Imaging Archive (TCIA).

No alerts have been found for Cancer Imaging Archive (TCIA).

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 229 mentions in open access literature.

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

Zhang M, et al. (2025) Increased SOAT2 expression in aged regulatory T cells is associated with altered cholesterol metabolism and reduced anti-tumor immunity. Nature communications, 16(1), 630.

Abbad Andaloussi M, et al. (2025) Exploring adult glioma through MRI: A review of publicly available datasets to guide efficient image analysis. Neuro-oncology advances, 7(1), vdae197.

Bai W, et al. (2025) Development and validation of a radiomic prediction model for TACC3 expression and prognosis in non-small cell lung cancer using contrast-enhanced CT imaging. Translational oncology, 51, 102211.

Ni G, et al. (2025) MAZ-mediated tumor progression and immune evasion in hormone receptor-positive breast cancer: Targeting tumor microenvironment and PCLAF+ subtype-specific therapy. *Translational oncology*, 52, 102280.

Qian L, et al. (2024) Could the underlying biological basis of prognostic radiomics and deep learning signatures be explored in patients with lung cancer? A systematic review. *European journal of radiology*, 171, 111314.

Gitto S, et al. (2024) AI applications in musculoskeletal imaging: a narrative review. *European radiology experimental*, 8(1), 22.

Li X, et al. (2024) Comparison of radiomics-based machine-learning classifiers for the pretreatment prediction of pathologic complete response to neoadjuvant therapy in breast cancer. *PeerJ*, 12, e17683.

Zhu P, et al. (2024) Tumor contour irregularity on preoperative CT predicts prognosis in renal cell carcinoma: a multi-institutional study. *EClinicalMedicine*, 75, 102775.

Amador-Legon NV, et al. (2024) Use of fractals in determining the malignancy degree of lung nodules. *Frontiers in medical technology*, 6, 1362688.

Sinha H, et al. (2024) Solving the Pervasive Problem of Protocol Non-Compliance in MRI using an Open-Source tool mrQA. *Neuroinformatics*, 22(3), 297.

Lu Z, et al. (2024) Survival analysis of clear cell renal cell carcinoma based on radiomics and deep learning features from CT images. *Medicine*, 103(51), e40723.

Li L, et al. (2024) Preoperative prediction of MGMT promoter methylation in glioblastoma based on multiregional and multi-sequence MRI radiomics analysis. *Scientific reports*, 14(1), 16031.

You C, et al. (2024) Multicenter radio-multiomic analysis for predicting breast cancer outcome and unravelling imaging-biological connection. *NPJ precision oncology*, 8(1), 193.

Fang Z, et al. (2024) The peritumoral edema index and related mechanisms influence the prognosis of GBM patients. *Frontiers in oncology*, 14, 1417208.

Sun R, et al. (2024) Prognostic value and immune infiltration of a tumor microenvironment-related PTPN6 in metastatic melanoma. *Cancer cell international*, 24(1), 435.

Loeffler CML, et al. (2024) Prediction of homologous recombination deficiency from routine histology with attention-based multiple instance learning in nine different tumor types. *BMC biology*, 22(1), 225.

Klemm JD, et al. (2024) Transforming Cancer Research through Informatics. *Cancer discovery*, 14(10), 1779.

Chen D, et al. (2024) MRI-derived radiomics assessing tumor-infiltrating macrophages

enable prediction of immune-phenotype, immunotherapy response and survival in glioma. Biomarker research, 12(1), 14.

Chen S, et al. (2024) Deep learning-based multi-model prediction for disease-free survival status of patients with clear cell renal cell carcinoma after surgery: a multicenter cohort study. International journal of surgery (London, England), 110(5), 2970.

Lai J, et al. (2024) A radiogenomic multimodal and whole-transcriptome sequencing for preoperative prediction of axillary lymph node metastasis and drug therapeutic response in breast cancer: a retrospective, machine learning and international multicohort study. International journal of surgery (London, England), 110(4), 2162.