

DATABASE SPOTLIGHT

THE CANCER IMAGING ARCHIVE (TCIA)

<https://www.cancerimagingarchive.net/>



The Cancer Imaging Archive (TCIA)

The Cancer Imaging Archive is a public repository of cancer-related medical images and associated clinical data for research purposes created to facilitate the discovery of imaging biomarkers and to accelerate research in cancer diagnosis, treatment, and prevention. The imaging data are organized as collections defined by a common disease, image modality or type or research focus.

The Data Contains:

- Over 121 collections of data
- Over 50 millions images available for download
- 32 Analysis Result datasets
- Wide variety of cancer and phantoms
- Associated supporting data – demographics/outcomes/therapy, Image analyses and genomics/proteomics
- COVID-19 Collections

Submit Your Data:

Researchers are encouraged to:

- [Publish new imaging datasets to TCIA](#)
- [Publish Analysis Results](#)

Accessing the Data:

Click Access the Data from home page:



Browse Collections
Browse a list of all TCIA data. This is the best way to get a comprehensive picture of all data types associated with each Collection.

Search Radiology
Use the [TCIA Radiology Portal](#) to perform detailed searches across datasets and visualize images before you download them.

REST API
Our [API](#) enables software developers to directly query the public resources of TCIA and retrieve information into their applications.

Browse Analysis Results
Browse segmentations, annotations and other analyses of existing Collections contributed by others in the TCIA user community.

Search Histopathology
Use [TCIA Histopathology Portal](#) to perform detailed searches and visualize images before you download them. [beta](#)

Data Analysis Centers
[Browse](#) tools developed by the TCIA community to provide additional capabilities for downloading or analyzing our data.

Browse Collections – *Search, Filter and Sort collections of interest*

Show 10 entries Filter table: |

Collection	Cancer Type	Locations	Species	Subjects	Data Types	Supporting Data	Access	Status	Updated
CPTAC-CCRCC	Clear Cell Carcinoma	Kidney	Human	262	CT, MR,	Clinical,	Public	Ongoing	2024/05/10

Select a collection to view the Summary, Data Access, and Citation & Data Usage Policy

Search Radiology

Search Histopathology



Search datasets and visualize them before downloading

Rest API – *Build direct access to TCIA data into applications*

Browse Analysis Results – *Published analysis of existing TCIA image collections*

Data Analysis Centers – *Tools that provide additional capabilities for downloading, visualizing or analyzing TCIA data*

Helpful Resources:

- Video Tutorials:

<https://wiki.cancerimagingarchive.net/display/Public/User+Guides>

- Browse and Search Collections (Datasets):

<https://www.cancerimagingarchive.net/browse-collections/>

- Publications:

<https://www.cancerimagingarchive.net/publications/>

IF YOU ARE INTERESTED IN LEARNING MORE ABOUT THE CANCER IMAGING ARCHIVE (TCIA), PLEASE CONTACT KENT RIPPLINGER AT:
kent.p.ripplinger.2@und.edu