

TCGA-KIRP

Summary

The Cancer Genome Atlas Cervical Kidney renal papillary cell carcinoma (KIRP) data collection is part of a larger effort to build a research community focused on connecting cancer phenotypes to genotypes by providing clinical images matched to subjects from [The Cancer Genome Atlas \(TCGA\)](#). Clinical, genetic, and pathological data resides in the [Genomic Data Commons \(GDC\) Data Portal](#) while the radiological data is stored on The Cancer Imaging Archive (TCIA).

Matched TCGA patient identifiers allow researchers to explore the TCGA/TCIA databases for correlations between tissue genotype, radiological phenotype and patient outcomes. Tissues for TCGA were collected from many sites all over the world in order to reach their accrual targets, usually around 500 specimens per cancer type. For this reason the image data sets are also extremely heterogeneous in terms of scanner modalities, manufacturers and acquisition protocols. In most cases the images were acquired as part of routine care and not as part of a controlled research study or clinical trial.

CIP TCGA Radiology Initiative

Imaging Source Site (ISS) Groups are being populated and governed by participants from institutions that have provided imaging data to the archive for a given cancer type. Modeled after TCGA analysis groups, ISS groups are given the opportunity to publish a marker paper for a given cancer type per the guidelines in the table above. This opportunity will generate increased participation in building these multi-institutional data sets as they become an open community resource. Learn more about the [TCGA Renal Phenotype Research Group](#).

Acknowledgements







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- University of North Carolina, Chapel Hill, NC - Special thanks to **J. Keith Smith, M.D.,Ph.D** and **Shanah Kirk**.
- Roswell Park Cancer Institute, Buffalo NY - Special thanks to **Charles Roche, MD; Ermalinda Bonaccio, MD;** and **Joe Filippini**.
- Lahey Hospital & Medical Center, Burlington, MA - Special thanks to **John Lemmerman, RT** and **Kimberly Reiger-Christ, PhD**, Cancer Research, Sophia Gordon Cancer Center.

Data Access

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Click the **Download** button to save a ".tcia" manifest file to your computer, which you must open with the [NBIA Data Retriever](#) . Click the **Search** button to open our Data Portal, where you can browse the data collection and/or download a subset of its contents.

Data Type	Download all or Query/Filter
Images (DICOM, 9.6GB)	 
Tissue Slide Images (web)	
Clinical Data (TXT)	
Biomedical Data (TXT)	
Genomics (web)	

Click the Versions tab for more info about data releases.

Detailed Description

Detailed Description

Image Statistics	
Modalities	CT, MR, PT
Number of Participants	33
Number of Studies	47
Number of Series	376
Number of Images	26,667
Images Size (GB)	9.6

GDC Data Portal - Clinical and Genomic Data

The [GDC Data Portal](#) has extensive clinical and genomic data which can be matched to the patient identifiers of the images here in TCIA. Below is a snapshot of clinical data extracted on 1/5/2016.

- [TCGA-KIRP Clinical Data.zip](#)

Verbose explanations of the clinical data can be found on the Biospecimen Core Resource Clinical Data Forms linked below:

- [Kidney Case Quality Control Form](#)
- [Kidney Enrollment Form](#)

- [Kidney Follow-Up Form](#)

A note about TCIA and TCGA Subject Identifiers and Dates

Subject Identifiers: a subject with radiology images stored in The Cancer Imaging Archive (TCIA) is identified with a Patient ID that is identical to the Patient ID of the same subject with demographic, clinical, pathological, and/or genomic data stored in the Cancer Genome Atlas (TCGA). For each TCGA case, the baseline TCGA imaging studies found on TCIA are pre-surgical.

Dates: TCIA and TCGA handle dates differently, and there are no immediate plans to reconcile:

- **TCIA Dates:** dates (be they birthdates, imaging study dates, etc.) in the DICOM headers of TCIA radiology images have been offset by a random number of days. The offset is a number of days between 3 and 10 years prior to the real date that is consistent for each TCIA image-submitting site and collection but that varies among sites and among collections from the same site. Thus, the number of days between a subject's longitudinal imaging studies are accurately preserved when more than one study has been archived while still meeting HIPAA requirements.
- **TCGA Dates:** the patient demographic and clinical event dates are all the number of days from the index date, which is the actual date of pathologic Dx. So all the dates in the data are relative negative or positive integers, except for the "days_to_pathologic_diagnosis" value, which is 0 – the index date. The years of birth and Dx are maintained in the distributed clinical data file. The NCI retains a copy of the data with complete dates, but those data are not made available. With regard to other TCGA dates, if a date comes from a HIPAA "covered entity's" medical record, it is turned into the relative day count from the index date. Dates like the date TCGA received the specimen or when the TCGA case report form was filled out are not such covered dates, and they will appear as real dates (month, day, year).

Citations & Data Usage Policy

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Users of this data must abide by the [Creative Commons Attribution 3.0 Unported License](#) under which it has been published. Attribution should include references to the following citations:

TCGA Attribution

"The results <published or shown> here are in whole or part based upon data generated by the TCGA Research Network: <http://cancergenome.nih.gov/>."

Data Citation

Linehan, M., Gautam, R., Kirk, S., Lee, Y., Roche, C., Bonaccio, E., ... Jarosz, R. (2016). Radiology Data from The Cancer Genome Atlas Cervical Kidney renal papillary cell carcinoma [KIRP] collection. The Cancer Imaging Archive. <http://doi.org/10.7937/K9/TCIA.2016.ACWOGBEF>

TCIA Citation







Clark K, Vendt B, Smith K, Freymann J, Kirby J, Koppel P, Moore S, Phillips S, Maffitt D, Pringle M, Tarbox L, Prior F. **The Cancer Imaging Archive (TCIA): Maintaining and Operating a Public Information Repository**, Journal of Digital Imaging, Volume 26, Number 6, December, 2013, pp 1045-1057. ([paper](#))

Other Publications Using This Data

TCIA maintains [a list of publications](#) which leverage our data. At this time we are not aware of any manuscripts based on this data. If you have a manuscript you'd like to add please [contact the TCIA Helpdesk](#).

Versions





Version 4 (Current): Updated 2020/05/29

Data Type	Download all or Query/Filter
Images (DICOM, 9.6GB)	 
Tissue Slide Images (web)	
Clinical Data (TXT)	
Biomedical Data (TXT)	
Genomics (web)	

Updated clinical data link with latest spreadsheets from GDC. Added new biomedical spreadsheets from GDC.





Version 3: Updated 2017/01/30

Data Type	Download all or Query/Filter
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Images (DICOM, 9.6GB)	 
	(Download requires the NBIA Data Retriever .)
Clinical Data (TXT)	
Genomics (web)	




Added imaging data for 2 new subjects.

Version 2: Updated 2016/01/05

Data Type	Download all or Query/Filter
Images (DICOM, 9.1GB)	 
	(Download requires the NBIA Data Retriever .)
Clinical Data (TXT)	
Genomics (web)	

Extracted latest release of clinical data (TXT) from the GDC Data Portal.

Version 1: Updated 2014/10/09

Data Type	Download all or Query/Filter
Images (DICOM, 9.1GB)	 
Clinical Data (TXT)	
Genomics (web)	