

CPTAC-AML



Summary

This collection contains subjects from the National Cancer Institute's [Clinical Proteomic Tumor Analysis Consortium](#) Acute Myeloid Leukemia (CPTAC-AML) cohort. CPTAC is a national effort to accelerate the understanding of the molecular basis of cancer through the application of large-scale proteome and genome analysis, or proteogenomics. Radiology and pathology images from CPTAC Phase 3 patients are being collected and made publicly available by The Cancer Imaging Archive to enable researchers to investigate cancer phenotypes which may correlate to corresponding proteomic, genomic and clinical data.

CPTAC Phase 3 collects data from ten cancer types. In TCIA, imaging from each cancer type will be contained in its own TCIA Collection, with the collection name "CPTAC-*cancertype*". CPTAC Phase 3 Imaging data is made available on TCIA each quarter as it is collected. A summary of CPTAC Phase 3 imaging efforts can be found on the [CPTAC Imaging Proteomics](#) page.

Radiology imaging is collected from standard of care imaging performed on patients immediately before the pathological diagnosis, and from follow-up scans where available. For this reason the radiology image data sets are heterogeneous in terms of scanner modalities, manufacturers and acquisition protocols. Pathology imaging is collected as part of the CPTAC qualification workflow.

CPTAC Imaging Special Interest Group

You can join the [CPTAC Imaging Special Interest Group](#) to be notified of webinars & data releases, collaborate on common data wrangling tasks and seek out partners to explore research hypotheses! Artifacts from previous webinars such as slide decks and video recordings can be found on the [CPTAC SIG Webinars](#) page.

Acknowledgements

We would like to acknowledge the individuals and institutions that have provided data for this collection:




- Boston Medical Center, Boston, MA - Special thanks to **Chris D. Andry M.Phil, PhD** from the Department of Pathology and Laboratory Medicine, **Margaret Lavoye** from the Department of Radiology, **Elizabeth Duffy, MA** and **Cheryl Spencer, MA** of the Biobank.
- University of Calgary, Alberta, Canada - Special thanks to **Marina Salluzzi, PhD** and **Nicole Blenkin** from the Department of Radiology, Calgary Image Processing and Analysis Centre (CIPAC), and **Jennifer Koziak** from the Department of Surgery.
- International Institute for Molecular Oncology, Pozna, Poland - Special thanks to **Maciej Wiznerowicz MD, PhD** and **Jan Lubiski MD PhD**.
- University of Pittsburgh/UPMC, Pittsburgh, PA - Special thanks to **Scott Beasley (MD, FACR)** and **Rose Jarosz** in the Department of Radiology; **Rajiv Dhir (MBBS, MBA)** and **Tony Green (HT (ASCP), AS)** in the Department of Pathology (PBC).

- St. Joseph's Hospital and Medical Center, Phoenix, AZ - Special thanks to **Jennifer Eschbacher, MD** from the Department of Neuropathology, **Catherine Seiler, PhD**, **Rosy Singh** and **Beth Hermes** from the Biobank Core Facility, and **Victor Sisneros, RT(R)(CT), CPSA**.
- Cureline, Inc. team and clinical network, Brisbane, CA - Special thanks to **Olga Potapova, Ph.D.**, **Vladislav Golubkov, Ph.D.**, **Victoria Fulidou, M.D.**, **Alexander Sviridov, Dmitry Belyaev, M.D.**, **Oxana Paklina, M.D., Dr.Sc.**, **Galiya Setdikova, M.D., Ph.D.**, **Denis Golbin, M.D., Ph.D.**
- Beaumont Health System, Royal Oak, MI - Special thanks to **George D. Wilson, PhD** from the Department of Radiation Oncology Research, **Barbara Pruetz** of the Biobank, **Debra Kapczynski, MHSA, CIIP, RT(R)(CT)** and **Rachel Deyer** from the Department of Diagnostic Radiology.
- BioPartners, CA - Special thanks to **Alexander Gasparian, PhD** from the Department of Drug Discovery and Biomedical Sciences, University of South Carolina College of Pharmacy, **Kakhaber Zaalishvili, MD** Medical Advisor and Staff Pathologist at BioPartners, LLC, **Milla Gorodnia**, President of BioPartners, Inc., **Victoria Christensen**, Global Business Development/Project Coordination Manager, **Oksana Havryliuk, MD**. Chief of Research department of radiodiagnostics of NCI (Ukraine), **Marianna Gredil'**, Director of BioPartners, LLC, and **Anna Legenka** Chief of the Data Department at BioPartners, LLC.
- H. Lee Moffitt Cancer Center and Research Institute, Tampa, FL - Special thanks to **John Koomen, Ph.D.** from the Department of Molecular Oncology, and **Edward R. Seijo, MS** and **Olya Stringfield, PhD**.

Data Access

Data Access

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
Tissue Slide Images (SVS, 378 GB)	 
Clinical Data API (JSON - more info)	

Click the Versions tab for more info about data releases.

Detailed Description

Detailed Description

Pathology Image Statistics	
Modalities	Pathology
Number of Participants	88
Number of Images	120

Images Size (GB)	378
------------------	-----

A Note about TCIA and CPTAC Subject Identifiers and Dates

Subject Identifiers:

A subject with radiology and pathology images stored in TCIA is identified with a de-identified project Patient ID that is identical to the Patient ID of the same subject with clinical, proteomic, and/or genomic data stored in other CPTAC databases and web sites.

Dates:

The radiology imaging data is in DICOM format. To provide temporal context information aligned with events in the clinical data set for each patient, TCIA has inserted information in DICOM tag (0012,0050) *Clinical Trial Time Point ID*. This DICOM tag contains the number of days from the *date the patient was initially diagnosed pathologically with the disease* to the date of the scan. E.g. a scan acquired 3 days before the diagnosis would contain the value -3. A follow up scan acquired 90 days after diagnosis would contain the value 90.

The DICOM date tags (i.e. birth dates, imaging study dates, etc.) are modified per TCIA's standard process which offsets them 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.

Citations & Data Usage Policy

Citations & Data Usage Policy

CPTAC imaging data is considered CPTAC metadata and as such it is freely available to the public according to the [TCIA Data Usage Policy](#). Note that CPTAC proteomic and genomic data use must comply with the [CPTAC Data Use Agreement](#).

These collections are freely available to browse, download, and use for commercial, scientific and educational purposes as outlined in the [Creative Commons Attribution 3.0 Unported License](#). Questions may be directed to help@cancerimagingarchive.net. Please be sure to acknowledge both this data set and TCIA in publications by including the following citations in your work:

Data Citation

National Cancer Institute Clinical Proteomic Tumor Analysis Consortium (CPTAC). (2019). **Imaging Data from the Clinical Proteomic Tumor Analysis Consortium Acute Myeloid Leukemia [CPTAC-AML] collection [Data set]**. The Cancer Imaging Archive. doi: [10.7937/tcia.2019.b6foe619](https://doi.org/10.7937/tcia.2019.b6foe619)

Acknowledgement

The CPTAC program requests that publications using data from this program include the following statement: “**Data used in this publication were generated by the National Cancer Institute Clinical Proteomic Tumor Analysis Consortium (CPTAC).**”

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. doi: [10.1007/s10278-013-9622-7](https://doi.org/10.1007/s10278-013-9622-7)

Other Publications Using This Data

TCIA maintains [a list of publications](#) that leverage TCIA data. If you have a manuscript you'd like to add please [contact the TCIA Helpdesk](#).




Versions

Version 3 (Current): 2020/04/28

Data Type	Download all or Query/Filter
Tissue Slide Images (SVS, 378 GB)	 
Proteomics (web)	

Added 33 pathology subjects & 50 pathology images

Version 2: 2019/12/03

Data Type	Download all or Query/Filter
Tissue Slide Images (SVS, 193 GB)	 
Proteomics (web)	

Added Pathology Subjects

Version 1: 2019/01/02

Data Type	Download all or Query/Filter
-----------	------------------------------

Tissue Slide Images (SVS, 193 GB)	 
Proteomics (web)	

Added this descriptor for pathology slides. At this time there are no DICOM radiological imaging files.