

AACR

American Association
for Cancer Research®

**ANNUAL
MEETING
2025 CHICAGO**



APRIL 25-30

AACR.ORG/AACR2025

#AACR25

HTAN data in the NCI Cancer Research Data Commons



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Disclosure Information

Erin Beck

I am a full-time paid employee of the NIH/NCI.

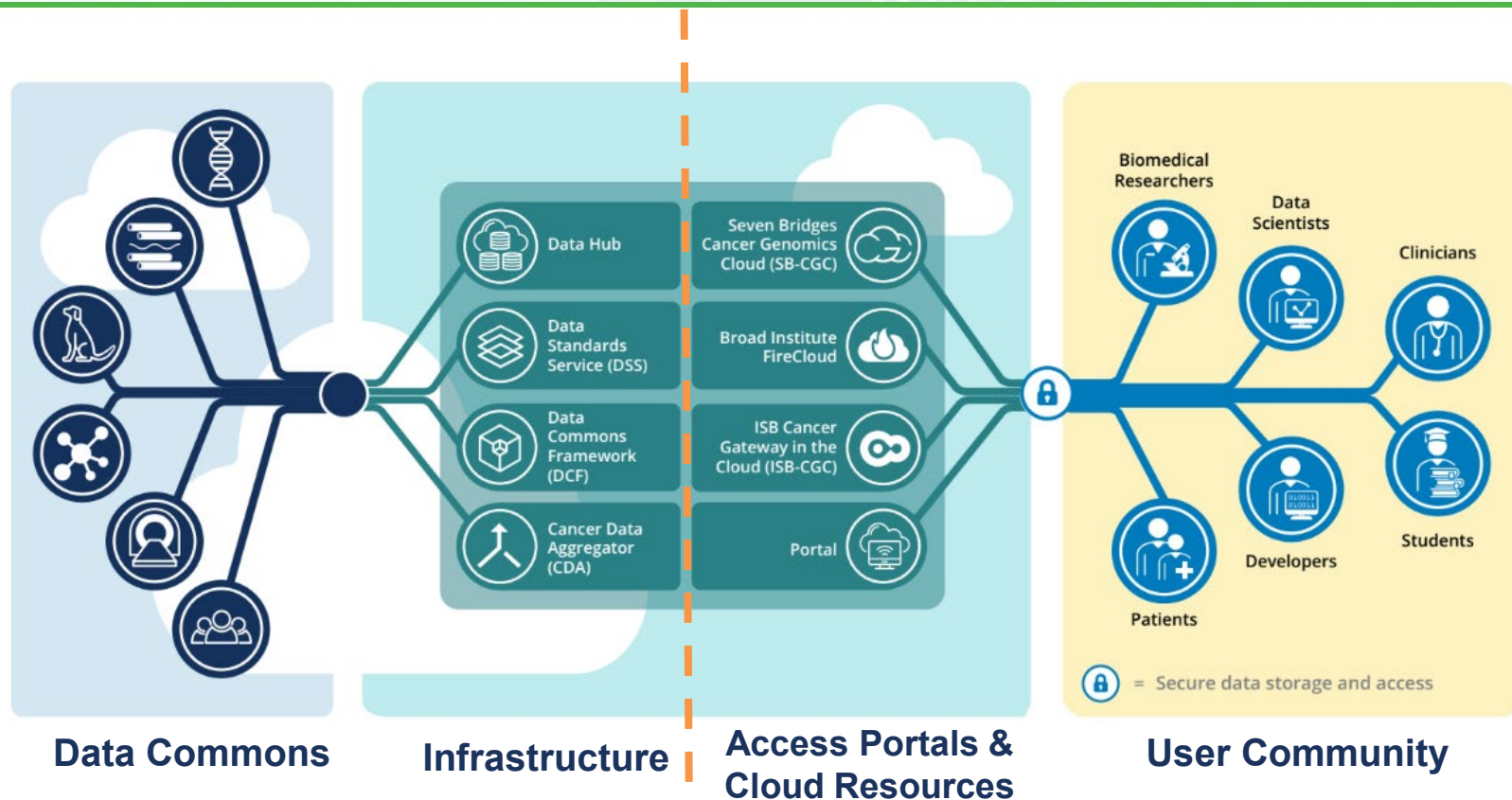
I have no financial relationships to disclose.

HTAN Data Access: CRDC (1)

Data	Data Access	Status
De-identified clinical and biospecimen data, and assay metadata	Open	Available via the HTAN Portal, Synapse and Google BigQuery (ISB-CGC).
Level 1-2 Sequencing Data	Access Controlled	Available via Cancer Data Service (CDS) and Seven Bridges Cancer Genomics Cloud (SB-CGC).
Level 3-4 Data	Open	Available via the HTAN Portal, Synapse, CellxGene, and BigQuery (ISB-CGC).
Image Browsing	Open	Available via the HTAN Portal, Synapse, Imaging Data Commons (IDC).
Image Processing	Open	Available via the Cancer Data Service (CDS) and Seven Bridges Cancer Genomics Cloud (SB-CGC).

Cancer Research Data Commons (CRDC)

NCI's primary data science platform for cancer research



CRDC is Based on Standards



FAIR

Infrastructure ensures FAIR principles are adopted across the CRDC.



GA4GH

CRDC participates and implements GA4GH standards such as DRS and Passports.



Open APIs

Open web standards for accessibility and a consistent user experience.



Cloud Native

Cloud services are utilized for scalability, flexibility, and cost-effectiveness.



Data Models

Data models are published for interoperability across all Data Commons.



Governance

Data governance ensures data quality throughout its lifecycle.

CRDC Data Access: Data Commons

Features

- Serves a specific research community
- Analysis tools specific to the data types stored
- Allows for more granular cohort building
- Instructions on how to transition from the portal to the CRDC Cloud Resources



CRDC Data Access: Data Commons (cont'd)

- Access to **large cancer data sets** without need to download or move data
- Access to **workspaces, analysis tools, and workflows/pipelines**
- **Bring your own data and tools:** collaborative pre-publication workspaces
- Funds to get you started as a new user: **\$300**



**ISB's Cancer Gateway
in the Cloud**

Great for command-line,
BigQuery, Specialty DBs



**Broad's
FireCloud, Terra**

Great for running
production pipelines



**Seven Bridges' Cancer
Genomics Cloud, Velsera**

Great for non-technical user interface,
visual displays

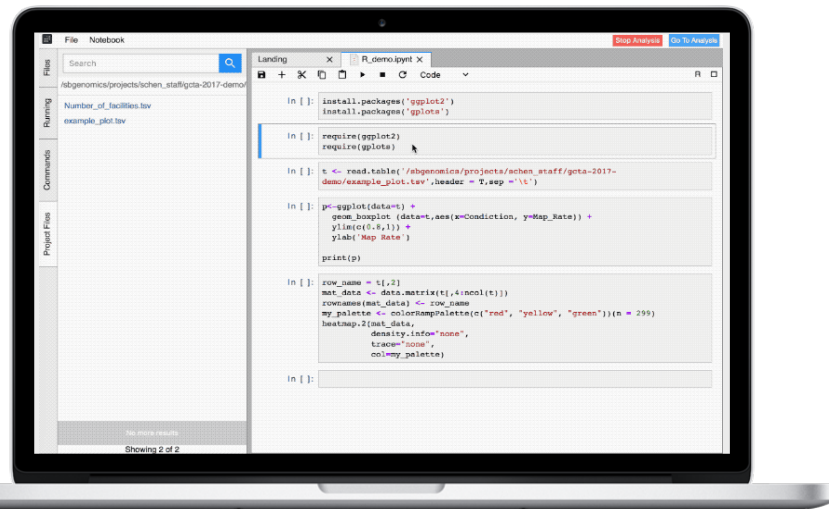
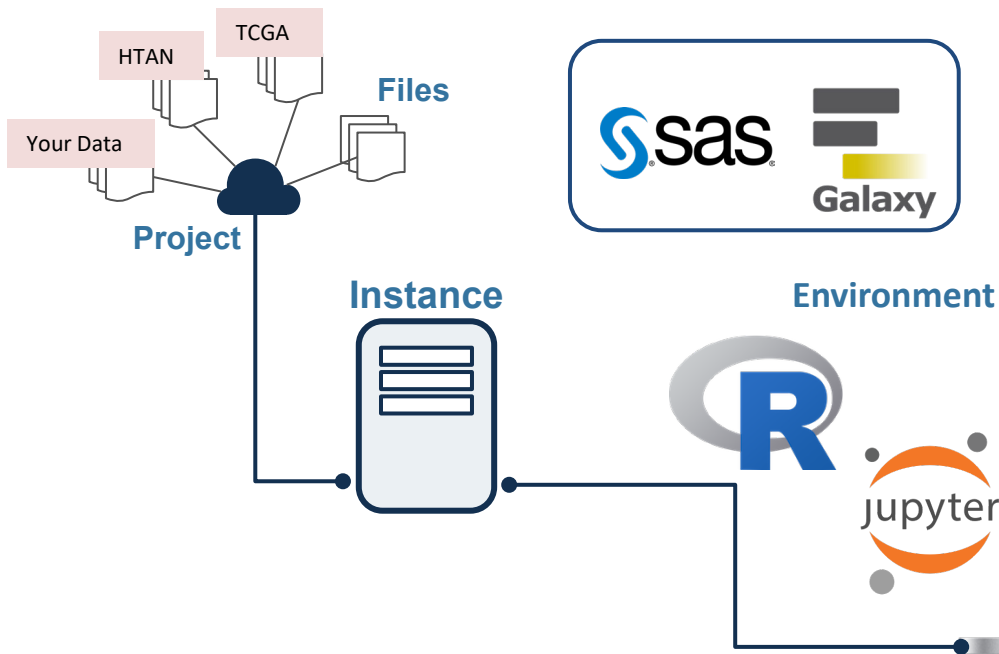
Data and Tools in Workspace to Run Interactive Analysis Sessions

Create a Project

Select/access data

Select/create tools

Create and run analysis



HTAN Data Access: CRDC (2)

Data	Data Access	Status
De-identified clinical and biospecimen data, and assay metadata	Open	Available via the HTAN Portal, Synapse and Google BigQuery (ISB-CGC).
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HTAN Data Access: CRDC (3)

Data	Data Access	Status
De-identified clinical and biospecimen data, and assay metadata	Open	Available via the HTAN Portal, Synapse and Google BigQuery (ISB-CGC) .
Level 1-2 Sequencing Data	Access Controlled	Available via Cancer Data Service (CDS) and Seven Bridges Cancer Genomics Cloud (SB-CGC) .
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Image Processing	Open	Available via the Cancer Data Service (CDS) and Seven Bridges Cancer Genomics Cloud (SB-CGC) .

HTAN Data Access: CRDC (4)

■ Data Commons

■ Cancer Data Service (CDS)

- Level 1 & 2 Access- Controlled Sequencing data and Open Access Imaging data (CC BY 4.0).
 - Access control for the sequencing data is managed through dbGaP (Study Accession: phs002371).

■ Imaging Data Commons (IDC)

- Open Access Imaging data (CC BY 4.0) in DICOM-TIFF format

■ Cloud Resources

■ ISB – CGC

- Metadata and derived data

■ SB – CGC (Same as CDS)

- Level 1 & 2 Access- Controlled Sequencing data and Open Access Imaging data (CC BY 4.0).

HTAN Data Access: CRDC (5)

■ Data Commons

■ Cancer Data Service (CDS)

- Level 1 & 2 Access- Controlled Sequencing data and Open Access Imaging data (CC BY 4.0).
 - Access control for the sequencing data is managed through dbGaP (Study Accession: phs002371).

■ Imaging Data Commons (IDC)

- Open Access Imaging data (CC BY 4.0) in DICOM-TIFF format

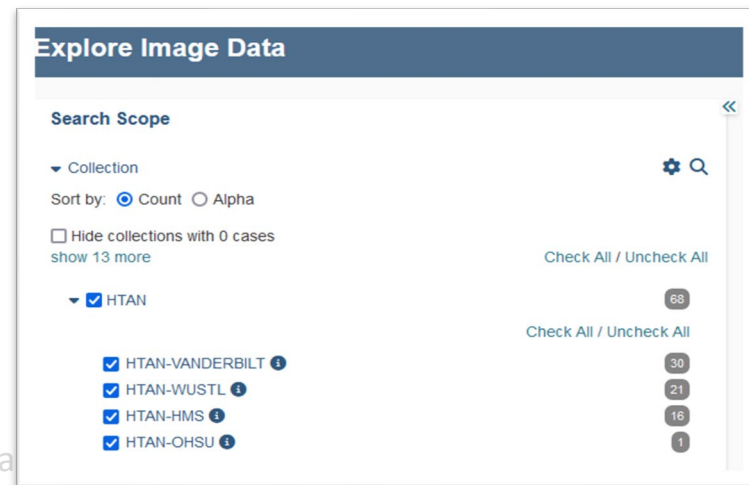
■ Cloud Resources

■ ISB – CGC

- Metadata and derived data

■ SB – CGC (Same as CDS)

- Level 1 & 2 Access- Controlled Sequencing data a



IDC Portal

NIH NATIONAL CANCER INSTITUTE
Imaging Data Commons

Patient

ID: HTA7_932
Name: HTA7_932
Gender: Male
Birthdate:

Study

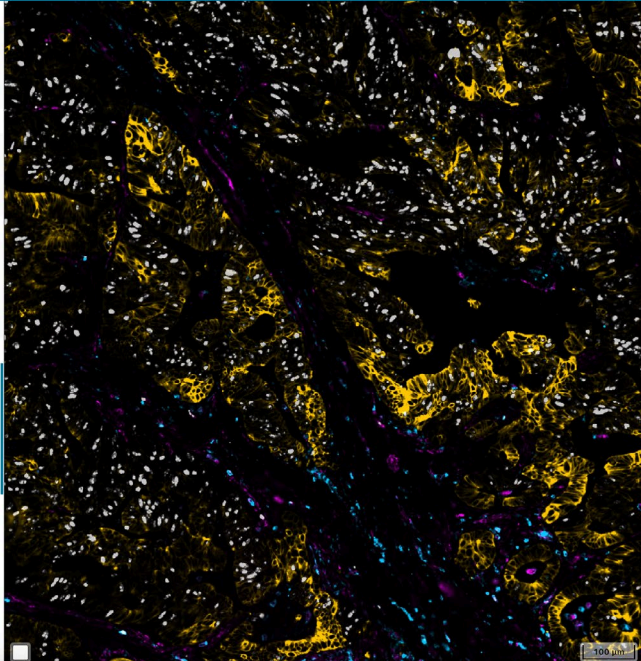
Accession #: HTA7_932
ID: HTA7_932
Date: 2020-10-02
Time: 16:24:28

Clinical Trial

Sponsor Name: NCI
Protocol ID: HTAN-HMS
Protocol Name:
Site Name: Harvard Medical School
Time Point ID: Initial Diagnosis

Slides

HTA7_932_1000



Parent specimen:
HTA7_932_2

Equipment

Optical Paths

10: Pan-cytokeratin

illumination wavelength:
555 nm

Tissue stain:
Pan Cytokeratin
Monoclonal AB (AE1/AE3),
eFluor 570, eBioscience

14: CD45

illumination wavelength:
555 nm

Tissue stain:
PE anti-human CD45

26: Vimentin

illumination wavelength:
555 nm

Tissue stain:
Vimentin (D21H3) XP
Rabbit mAb (Alexa Fluor
555 Conjugate)

34: Antigen Ki67 (2)

illumination wavelength:
555 nm

Tissue stain:
Ki-67 Monoclonal
Antibody (20Raj1), eFluor
570, eBioscience

HTAN Data Access: CRDC (6)

- Data Commons

- Cancer Data Service (CDS)

- Level 1 & 2 Access- Controlled Sequencing data and Open Access Imaging data (CC BY 4.0).
 - Access control for the sequencing data is managed through dbGaP (Study Accession: phs002371).

- Imaging Data Commons (IDC)

- Open Access Imaging data (CC BY 4.0) in DICOM-TIFF format

- Cloud Resources

- ISB – CGC

- Metadata and derived data (accessible through Google BigQuery)

- SB – CGC

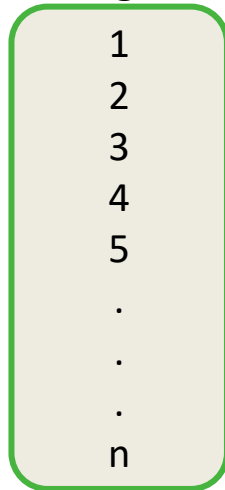
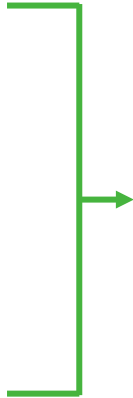
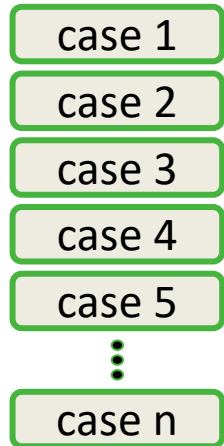
- Level 1 & 2 Access- Controlled Sequencing data and Open Access Imaging data (CC BY 4.0).

HTAN Data Access: ISB - CGC

Google BigQuery: Tabular CRDC data stored and browsable through BigQuery search tool

GDC case files

“one big csv”



→ BigQuery

A RESOURCE OF THE [NCI CANCER RESEARCH DATA COMMONS](#)

ISB-CGC

Cancer Gateway in the Cloud
Access, Explore and Analyze Large-Scale Cancer Data Through the Google Cloud

BigQuery Table Search

Browse BigQuery tables of metadata and molecular cancer data from the Genomic Data Commons and other sources. Jump directly to a table to perform discovery and computation via SQL.

[Learn](#) [Launch](#)

Cancer Data File Browser

Explore a comprehensive selection of cancer related data files in Google Cloud Storage Buckets, such as raw sequencing, cancer nucleotide variation, pathology or radiology images.

[Learn](#) [Launch](#)

Chromosomal Aberrations & Gene Fusions DB

Browse the Mitelman Database of Chromosome Aberrations and Gene Fusions in Cancer which relates cytogenetic changes, in particular gene fusions, to tumor characteristics.

[Learn](#) [Launch](#)

Cohort Builder / Data Explorer

A web interface to build cohorts based on clinical demographics and molecular filters. Compare patient cohorts with various exploration tools including image viewers and the Cancer Data File Browser.

[Learn](#) [Launch](#)

Pipelines and Cancer Cohort API

Learn more about how to access and analyze cancer data through programmatic interfaces including Google Cloud virtual machines and APIs.

[Learn](#) [Launch](#)

Notebooks

A collection of notebooks written in R and Python, to serve as both tutorials or analysis tools for a range of users; includes reproductions of Regulome Explorer functionality.

[Statistical](#) [Community](#) [GitHub](#)

<https://www.isb-cgc.org/>



HTAN Data Access: ISB-CGC

24020448t

HTAN Data Access: ISB – CGC BigQuery (1)

ISB-CGC
Cancer Gateway in the Cloud
Access, Explore and Analyze Large-Scale Cancer Data Through the Google Cloud

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[Learn](#) [Launch](#)
- Cancer Data File Browser**
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[Learn](#) [Launch](#)
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<https://www.isb-cgc.org/>



HTAN Data Access: ISB – CGC BigQuery (2)

Contains HTAN clinical & biospecimen and processed-omics data

Data Browsers

BigQuery Table Search



Browse BigQuery tables of metadata and molecular cancer data from the Genomic Data Commons and other sources. Jump directly to a table to perform discovery and computation via SQL.



Learn



Launch

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[Resources](#)
[Documentation](#)
[About](#)
[Publications](#)
[Help](#)
[Sign In](#)

BigQuery Table Search

[ISB-CGC BigQuery Documentation](#)
[ISB-CGC BigQuery Access Info](#)
[Google BigQuery Console](#)
[About BigQuery](#)
[Release Notes](#)

Explore and learn more about available ISB-CGC BigQuery tables with this search feature.
Find tables of interest based on category, reference genome build, data type and free-form text search.

Status

CURRENT

Name

Program

Category

Reference Genome

Source

Data Type

Experimental Strategy

HTAN

CLINICAL BIOSPECIMEN DATA

FILE METADATA

PROCESSED -OMICS DATA

REFERENCE DATABASE

ALL

Choose Sources...

Choose Data Types...

Choose Experimental Strategy...

Show 10 entries

Columns CSV Download Search:

Name	Program	Category	Source	Data Type	Status	Rows	Created	Example Joins	Preview	Open
HTAN BIOSPECIMEN DATA	HTAN	CLINICAL BIOSPECIMEN DATA	HTAN	BIOSPECIMEN	CURRENT	4,789	6/23/2022			
HTAN BIOSPECIMEN DATA R2 VERSIONED	HTAN	CLINICAL BIOSPECIMEN DATA	HTAN	BIOSPECIMEN	CURRENT	4,789	6/23/2022			
HTAN BULKRNASEQ LEVEL 1 METADATA	HTAN	FILE METADATA	HTAN	FILE METADATA	CURRENT	1,022	6/23/2022			
HTAN BULKRNASEQ LEVEL 1 METADATA R2 VERSIONED	HTAN	FILE METADATA	HTAN	FILE METADATA	CURRENT	1,022	6/23/2022			
HTAN BULKRNASEQ LEVEL 2 METADATA	HTAN	FILE METADATA	HTAN	FILE METADATA	CURRENT	224	6/23/2022			
HTAN BULKRNASEQ LEVEL 2 METADATA R2 VERSIONED	HTAN	FILE METADATA	HTAN	FILE METADATA	CURRENT	224	6/23/2022			
HTAN BULKRNASEQ LEVEL 3 METADATA	HTAN	FILE METADATA	HTAN	FILE METADATA	CURRENT	8	6/23/2022			
HTAN BULKRNASEQ LEVEL 3 METADATA R2 VERSIONED	HTAN	FILE METADATA	HTAN	FILE METADATA	CURRENT	8	6/23/2022			
HTAN BULKWES LEVEL 1 METADATA	HTAN	FILE METADATA	HTAN	FILE METADATA	CURRENT	1,828	6/23/2022			
HTAN BULKWES LEVEL 1 METADATA R2 VERSIONED	HTAN	FILE METADATA	HTAN	FILE METADATA	CURRENT	1,828	6/23/2022			

Showing 1 to 10 of 72 entries (filtered from 1,766 total entries)

Have feedback or corrections? Please email us at feedback@isb-cgc.org.

HTAN Data Access: ISB – CGC BigQuery (3)

ISB-CGC Data Browsers • Resources • Documentation About Publications Help • Sign In

A RESOURCE OF THE NCI CANCER RESEARCH DATA COMMONS

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Learn Launch

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Statistical Community GitHub

<https://www.isb-cgc.org/>



HTAN Data Access: ISB – CGC BigQuery (4)

Computational Notebooks

- Illustrate how to perform analysis and generate results using HTAN Google BQ tables
- Include a narrative and executable code for computing and plotting
- Easy to share

Explore_HTAN_Clinical_Biospecimen_Assay_Metadata.Rmd – illustrates how to make use of HTAN Google BigQuery metadata tables to tabulate and plot available HTAN clinical, biospecimen, and assay metadata

Investigating_Single_Cell_HTAN_Data.ipynb – illustrates how to query HTAN single-cell RNA sequencing data for cell content and gene expression

Building_Anndata_with_Subset_of_Cells_from_BQ.ipynb – illustrates how to query HTAN single-cell RNA sequencing data for specific cell types and construct an Scanpy Anndata object from the result.

 [isb-cgc / Community-Notebooks](#) Public

 Code  Issues  Pull requests  Actions  Projects  Security  Insights



HTAN Data Access: SB – CGC (1)

CRDC / SB-CGC Analysis Workflow



Search

- HTAN Portal
- CDS Portal

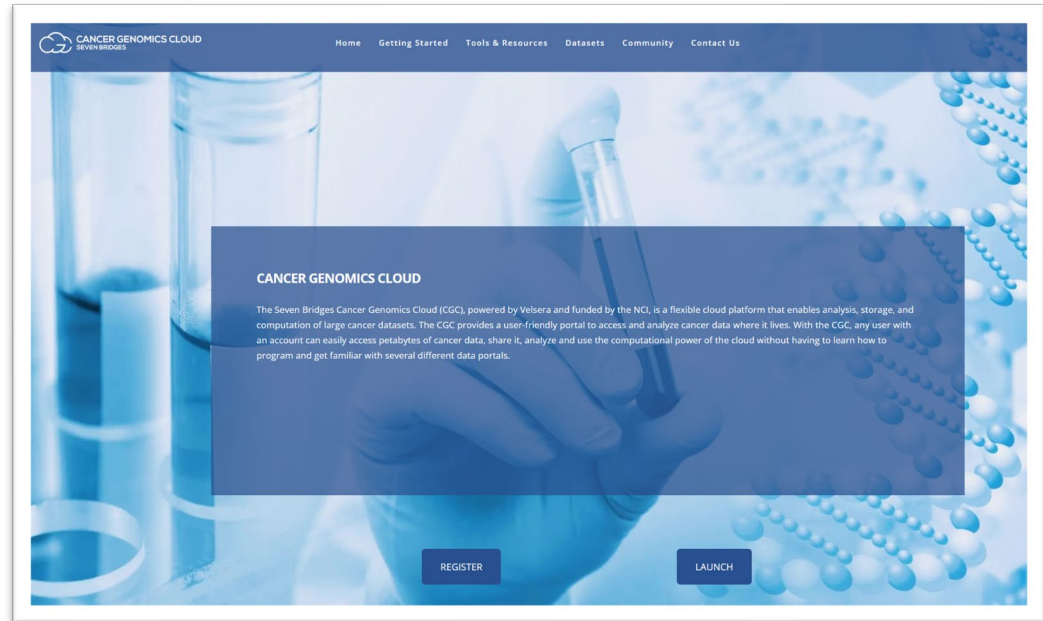


Download DRS
Manifest



Upload Manifest

- SB - CGC



<https://www.cancergenomicscloud.org/>



HTAN Data Access: SB – CGC (2)

Read the new collection of HTAN publications!

HTAN EXPLORE ANALYSIS TOOLS MANUAL ABOUT THE DATA ABOUT HTAN SUBMIT DATA SUPPORT NEWS Please cite HTAN

Search all filters Atlas Organ Disease Demographics Treatment Assay File Data Access Viewer

Atlases Publications Cases Biospecimens Files Plots **Beta!**

Summary: 14 Atlases 21 Organs 59 Cancer Types 2147 Cases 9253 Biospecimens 30 Assays 20197 Files

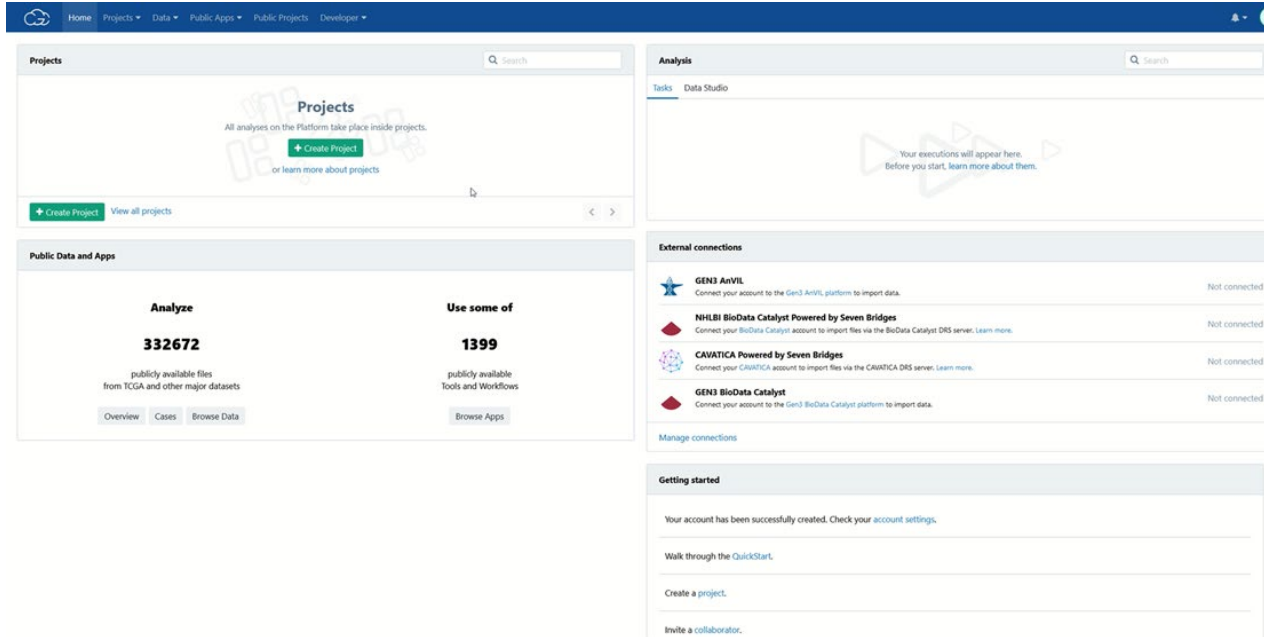
Download Metadata Columns (12/16) Search

Atlas Name	Atlas Description	Publications	Metadata	Cases	Biospecimens						
☐ BU	The Lung Pre-Cancer Atlas	■ ■	▲	183	1651	96					
☐ HTAPP	Human Tumor Atlas Pilot Project (HTAPP)	■ ■ ■ ■	▲	201	1105	127			59		
☐ SRRS	Standardized Repository of Reference Specimens	■	▲	16	157	35					
☐ CHOP	Center for Pediatric Tumor Cell Atlas	■ ■ ■ ■	▲	69	200			1	1		
☐ DFCI	The Cellular Geography of Therapeutic Resistance in Cancer	■	▲	123	308						
☐ Duke	Breast Pre-Cancer Atlas	■ ■ ■ ■	▲	767	1229	1069			1		
☐ HMS	Pre-Cancer Atlases of Cutaneous and Hematologic Origin	■ ■ ■	▲	116	738	542	35		144	11	
☐ MSK	Transition to Metastatic State: Lung Cancer, Pancreatic Cancer and Brain Metastasis	■ ■ ■	▲	127	293	58		12		1	
☐ OHSU	Omic and Multidimensional Spatial Atlas of Metastatic Breast Cancers	■ ■	▲	21	300	244	1				1
☐ Stanford	Multi-omic Characterization of Transformation of Familial Adenomatous Polyposis	■ ■ ■	▲	39	271	7					
☐ TNP TMA	Generate spatially resolved cell type/state census from tissue microarray breast FFPE specimens	■	▲	51	1571	1293			528		
☐ TNP SARDANA	Compare imaging methods across centers	■	▲	2	80	251			25		
☐ Vanderbilt	Colon Molecular Atlas Project	■ ■ ■	▲	156	362	162		4	4		1
☐ WUSTL	Washington University Human Tumor Atlas Research Center	■ ■ ■ ■ ■	▲	276	1021	167					

Video demo of accessing HTAN data via SB-CGC:

<https://nci.rev.vbrick.com/sharevideo/b88691a6-9963-4d1f-b4ce-1565a83b07d7>

HTAN Data Access: SB – CGC (3)



The screenshot displays the AACR HTAN Data Access web application interface. The top navigation bar includes links for Home, Projects, Data, Public Apps, Public Projects, and Developer. The main content area is divided into several sections:

- Projects:** A section titled "Projects" with a search bar and a "Create Project" button. Below it, a "Public Data and Apps" section shows statistics: "Analyze 332672" (publicly available files from TCGA and other major datasets) and "Use some of 1399" (publicly available Tools and Workflows). Buttons for "Overview", "Cases", "Browse Data", and "Browse Apps" are present.
- Analysis:** A section titled "Analysis" with a search bar and a "Data Studio" link. Below it, a "Your executions will appear here. Before you start, learn more about them." message is displayed.
- External connections:** A section titled "External connections" listing four integrations:
 - GEN3 ANVIL:** Connect your account to the GEN3 ANVIL platform to import data. Status: Not connected.
 - NHLBI BioData Catalyst Powered by Seven Bridges:** Connect your BioData Catalyst account to import files via the BioData Catalyst DIS server. Status: Not connected.
 - CAVATICA Powered by Seven Bridges:** Connect your CAVATICA account to import files via the CAVATICA DIS server. Status: Not connected.
 - GEN3 BioData Catalyst:** Connect your account to the GEN3 BioData Catalyst platform to import data. Status: Not connected.
- Getting started:** A section titled "Getting started" with links for "Your account has been successfully created. Check your account settings.", "Walk through the QuickStart.", "Create a project.", and "Invite a collaborator."

Video demo of accessing HTAN data via SB-CGC:

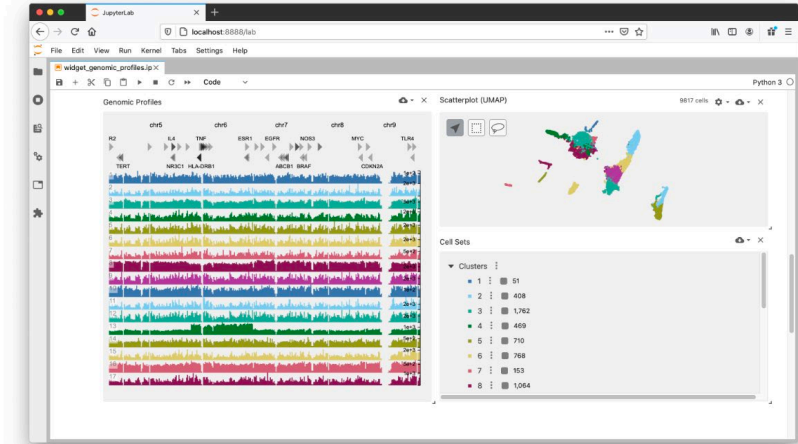
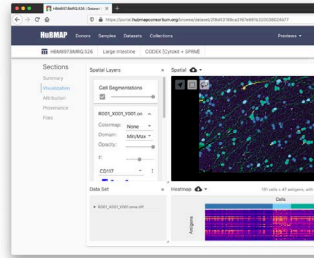
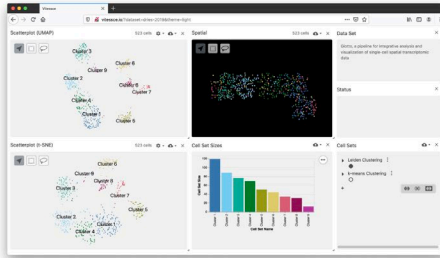
<https://nci.rev.vbrick.com/sharevideo/9230e5ec-591d-4e29-8ad3-ab4a9cf78484>

Vitessce on the SB-CGC.

- A visual integration tool for exploration of spatial single cell experiments - <http://vitessce.io/>
- Vitessce is developed by the [HiDIVE Lab](#) at Harvard Medical School.

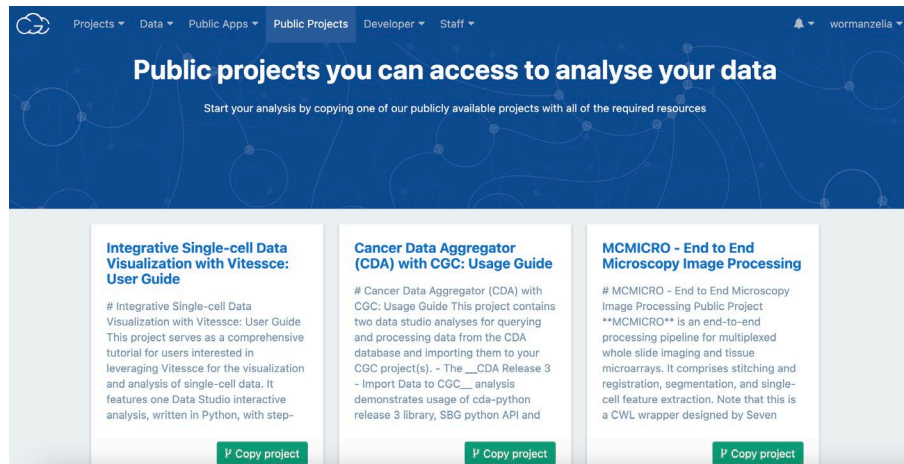
Vitessce App Examples Docs Tutorials For Python For R

Fe



Vitessce as an ipywidget in JupyterLab

Vitesse on the SB - CGC



The screenshot shows the 'Public Projects' section of the Vitesse application. The header is dark blue with navigation links: Projects, Data, Public Apps, Public Projects (selected), Developer, and Staff. A user profile 'wormanzella' is visible in the top right. The main heading is 'Public projects you can access to analyse your data' with a subtext 'Start your analysis by copying one of our publicly available projects with all of the required resources'. Below this, there are three project cards, each with a title, description, and a 'Copy project' button.

Project Title	Description	Action
Integrative Single-cell Data Visualization with Vitesce: User Guide	# Integrative Single-cell Data Visualization with Vitesce: User Guide This project serves as a comprehensive tutorial for users interested in leveraging Vitesce for the visualization and analysis of single-cell data. It features one Data Studio interactive analysis, written in Python, with step-	Copy project
Cancer Data Aggregator (CDA) with CGC: Usage Guide	# Cancer Data Aggregator (CDA) with CGC: Usage Guide This project contains two data studio analyses for querying and processing data from the CDA database and importing them to your CGC project(s). - The __CDA Release 3 - Import Data to CGC__ analysis demonstrates usage of cda-python release 3 library, SBG python API and	Copy project
MCMICRO - End to End Microscopy Image Processing	# MCMICRO - End to End Microscopy Image Processing Public Project **MCMICRO** is an end-to-end processing pipeline for multiplexed whole slide imaging and tissue microarrays. It comprises stitching and registration, segmentation, and single-cell feature extraction. Note that this is a CWL wrapper designed by Seven	Copy project



Projects ▾ Data ▾ Public Apps ▾ **Public Projects** Developer ▾ Staff ▾

Integrative Single-cell Data Visualization with Vitesce: User Guide

This project serves as a comprehensive tutorial for users interested in leveraging Vitesce for the visualization and analysis of single-cell data. It features one Data Studio interactive analysis, written in Python, with step-by-step demonstrations and examples showcasing the integrative capabilities of Vitesce Python API.

Vitesce is a powerful tool for visualizing and analyzing single-cell data, offering integrative capabilities for exploring multimodal and spatially-resolved datasets. With Vitesce, users can interactively visualize their single-cell data in a spatial context, enabling deeper insights into cellular interactions and spatial relationships.

More information about Vitesce can be found in the [official documentation](#), while the latest **vitesce-python** package, along with additional tutorial notebooks, can be found on the [GitHub page](#).

Copying the analysis to your project.

Data Studio analyses are available under the Data Studio tab in this project. To copy the analysis to one of your projects, click the additional actions (three dots) button to the right of **Vitesce Demo Notebook**, click **Copy** and select the target project. You should be able to choose any of the projects you are a part of and in which you have at least *Write* access.

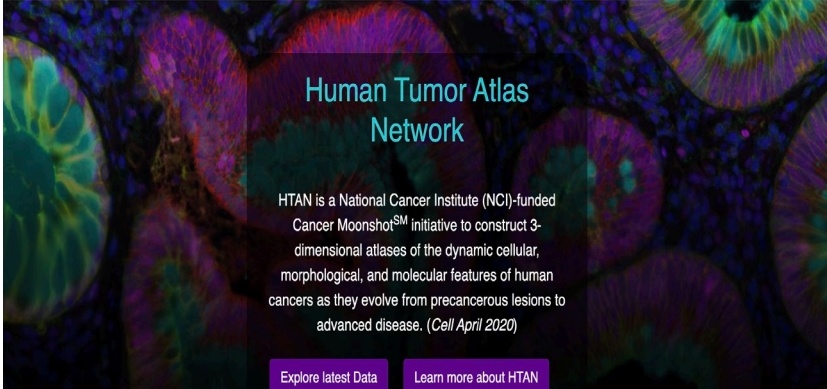
Copying the entire project.

It is also possible to copy the entire project. That way, all Data Studio analyses, as well as Apps, Tasks and Files will be copied. To copy the entire project, click on the information circle next to the public project title (in the top-center of the screen). Then, enter the name for your copy of the project, and select the billing group it will be assigned to.

Vitessce on the SB-CGC.

What can we use Vitessce for?

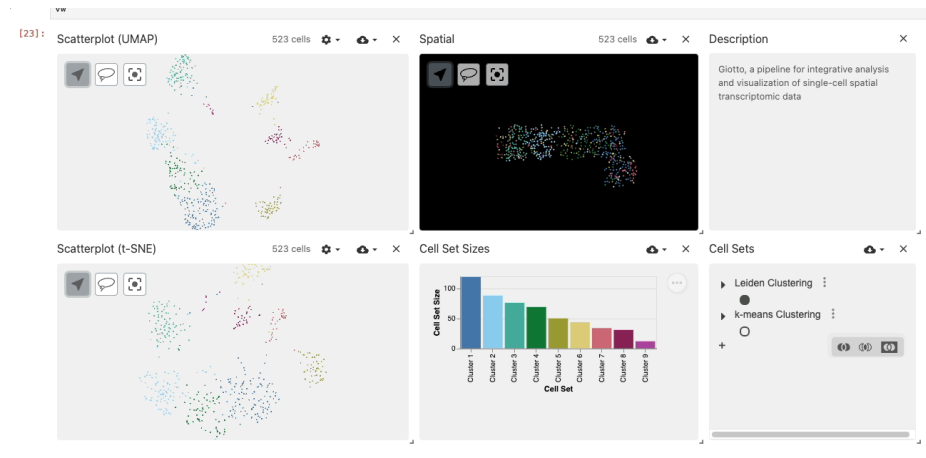
HTAN EXPLORE ANALYSIS TOOLS MANUAL ABOUT THE DATA ABOUT HTAN SUBMIT DATA SUPPORT NEWS



Human Tumor Atlas Network

HTAN is a National Cancer Institute (NCI)-funded Cancer MoonshotSM initiative to construct 3-dimensional atlases of the dynamic cellular, morphological, and molecular features of human cancers as they evolve from precancerous lesions to advanced disease. (*Cell* April 2020)

[Explore latest Data](#) [Learn more about HTAN](#)



Future Interoperability

- Synapse + Seven Bridges Cancer Genomics Cloud
 - Creating comprehensive DRs Manifest
 - Containing both Synapse and CRDC data sets
 - Allowing for a more seamless importing workflow between Synapse and the SB-CGC



FAIR

Infrastructure ensures FAIR principles are adopted across the CRDC.



GA4GH

CRDC participates and implements GA4GH standards such as DRS and Passports.

AACR Cancer Research Series



A four-part invited series published online in March 2024 highlighting the CRDC's accomplishments from the past 10 years.

- LESSONS LEARNED AND FUTURE STATE
- RESOURCES TO SHARE KEY CANCER DATA
- CLOUD-BASED ANALYTICAL RESOURCE
- CORE-STANDARDS AND SERVICES



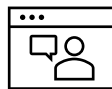
Learn more about the
series on the CRDC Website

Resources and Tutorials: ISB - CGC



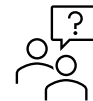
Documentation

- <https://isb-cancer-genomics-cloud.readthedocs.io/>



Videos

- <https://www.isb-cgc.org/videotutorials/>



Office Hours

- On Request



Email Support

- feedback@isb-cgc.org

Resources and Tutorials: SB - CGC



Documentation

- <https://docs.cancer genomicscloud.org/>



Videos

- <https://www.youtube.com/@Velsera/playlists>



Office Hours

- Every Week:
 - 10:00 am ET Tuesday
 - 2:00 pm ET Thursday



Email Support

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**All partners throughout
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