



CHILDHOOD CANCER DATA CATALOG (CCDC)

User Guide

4/19/2023

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1.0.0	04/15/2022	Initial Version	CCDC Team
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Introduction and Overview

The Childhood Cancer Data Catalog (CCDC) is an inventory of pediatric oncology data resources developed as part of the National Cancer Institute's (NCI) [Childhood Cancer Data Initiative](#) (CCDI). The CCDC includes listing of childhood cancer repositories, registries, programs, knowledgebases, as well as other catalogs that either manage or refer to pediatric cancer data. The aim of the CCDC is to help researchers, clinicians, and citizen scientists learn about existing pediatric resources for the development of new biomedical hypotheses, facilitate new secondary analyses of data within existing resources, and to provide connections to existing pediatric oncology research sites.

This document describes the purpose and the general use of the CCDC site. By design, the CCDC only collects and holds the metadata from a specific resource and not the primary participant or sample data of that resource. Information to help understand this metadata is defined below, but users interested in specific resource data are encouraged to reach out to content holders using the point of contact (POC) information available on the CCDC site.

Home page

The CCDC Home page is the landing page for users navigating to the CCDC site. It provides a brief introduction to the site, allows users to perform a search of the cataloged data resources, shares information about updates to the site, and shares a rotating carousel of participating resources available on the site (Figure 1). This page is also reachable by selecting 'Home' on the menu bar from any page in the site.

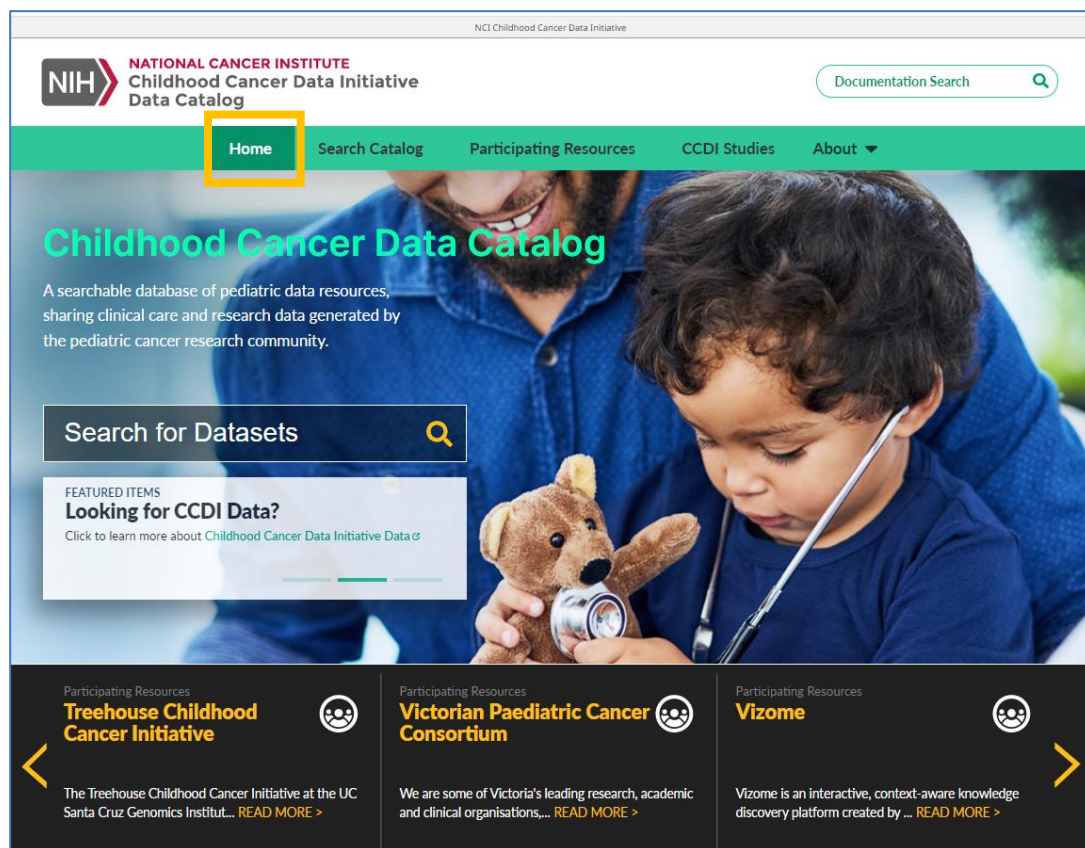


Figure 1: CCDC Home Page

Users wishing to search the cataloged data resources can use the “Search for Datasets” field (Fig. 1) to perform a search that will automatically navigate a user to the Search Catalog page. More information on the Search Catalog page and the catalog search parameters is available below.

Below the search field is a Featured Items widget. This widget highlights site changes and shares information related to the CCDI. The featured items widget rotates between three featured items that may highlight updates to the CCDC site or are informational in nature. Featured items may include links that navigate within the site or to external sites related to CCDI.

The home page also features a rotating carousel of participating resources available on the site to which users can navigate. This carousel contains example resources that will periodically change. Each example lists the resource name and a brief introduction to the resource. Users can either select the resource name or the ‘READ MORE >’ links to navigate to the resource’s details page to learn more about the resource. More information about the participating resource details page is available below.

Search Catalog Page

The CCDC Search Catalog page allows users to search the individual datasets available from CCDC participating resources (Figure 2). You can navigate to the page by selecting ‘Search Catalog’ on the menu bar. Introductory information is available for each dataset along with a link to a more detailed dataset page. The Search Catalog page features a free text search that allows for filtering datasets.

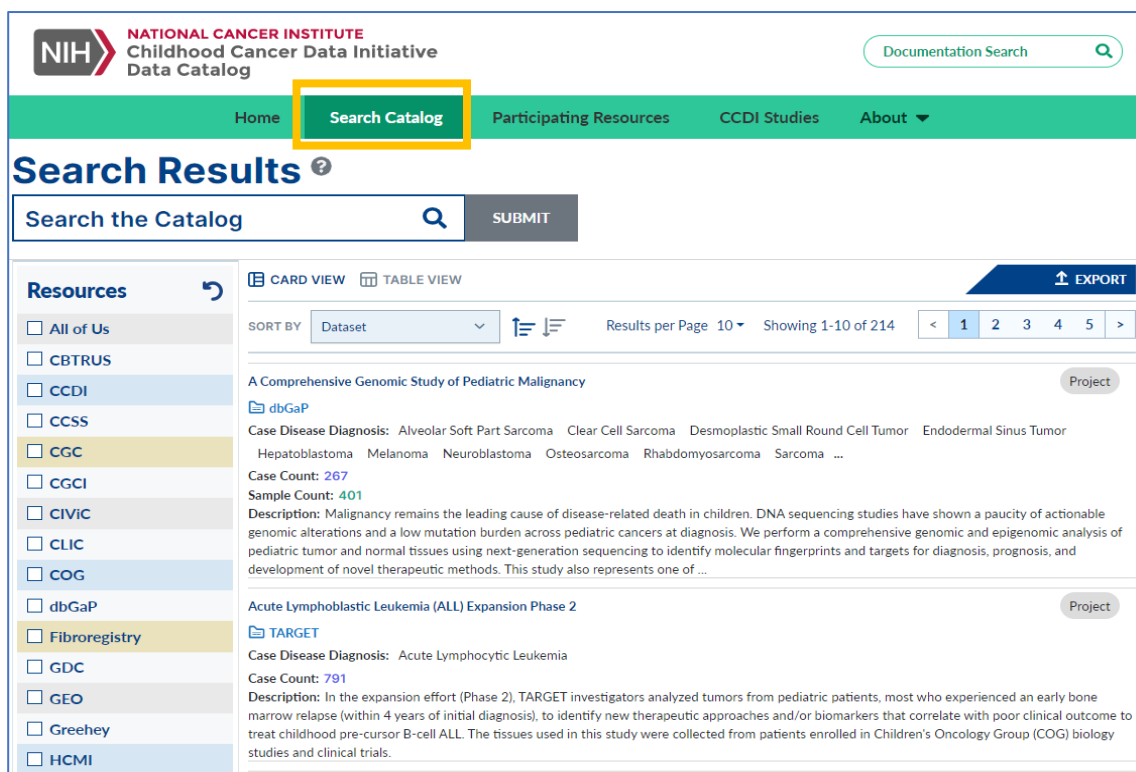


Figure 2: CCDC Search Catalog Page

The catalog currently includes the following types of datasets.

- **Cell Line** - A permanently established cell culture that will proliferate indefinitely given appropriate fresh medium and space.

- **Collection** - A group of datasets collected for any reason by an organization of researchers, stewards, or stakeholders either pertaining to a common theme or for a common purpose.
- **Program** - A coherent assembly of plans, project activities, and supporting resources contained within an administrative framework, the purpose of which is to implement an organization's mission or some specific program-related aspect of that mission.
- **Project** - Any specifically defined piece of work that is undertaken or attempted to meet the goals of a program and that involves one or more case studies. Also known as a Study or Trial.
- **Xenograft** - The transplant of an organ, tissue, or cells to an individual of another species.

Please note, the datasets available on the site are periodically updated and the types of datasets available may change.

Dataset Results Views

Information about available datasets is displayed in the results pane on the right-hand side of the Search Catalog page. The results pane can be configured in two ways with either a Card View (Figure 3) or a Table View (Figure 4). Each view can be toggled back and forth without altering the results of a performed search.

Figure 3: Search Catalog Results Pane Card View

Dataset ^	Cases	Samples	Resource	Primary Dataset Scope
Burkitt Lymphoma Genome Sequencing Project (BLGSP)	126	386	CGCI	Project
Cancer Genome Characterization Initiative (CGCI)	112	2016	GDC	Program

Figure 4: Search Catalog Results Pane Table View

In both views, users can select a dataset name to navigate to a page with more detailed information about the dataset. Within each result, selecting the participating resource name/abbreviation (i.e., Kids First) will navigate to a more detailed page about that participating resource.

The information in the results pane from the Card View can be sorted with the 'Sort By' filter (Figure 5). Filtered results are displayed in ascending order by default but can be changed by selecting the descending order icon. In the Table View, table columns can be sorted by clicking the column headers.

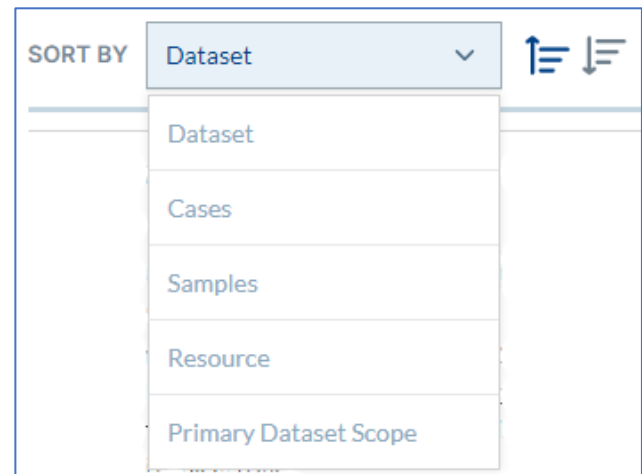


Figure 5: Search Catalog 'Sort By' Filter

The result pane displays 10 search results by default. If a search returns more than 10 results, the subsequent results are available for review on subsequent pages. These pages can be accessed using the '<' or '>' buttons or a specific page number on the pagination bar at the top and bottom of the results pane (Figure 6). If returned results contain fewer than 10 results, the pagination buttons are disabled. Users can select the 'Results per Page' dropdown to modify the number of displayed results.

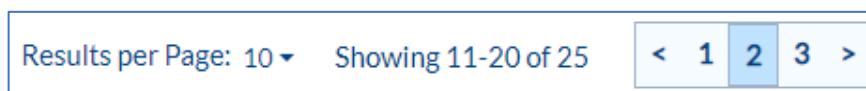


Figure 6: Search Catalog Pagination Bar

Card View

The Card View (Figure 3) is meant to provide a brief highlight of the datasets available in the catalog. Each card provides some abbreviated of selected metadata about a dataset for an initial assessment of relevancy. In the Card View, information for the following data elements is available for display:

- **Dataset Name**
- **Participating Resource Name**
- **Case Disease Diagnosis**
- **Case Count**
- **Sample Assay Method**
- **Sample Count**
- **Description**
- **Primary Dataset Scope**

If a dataset does not have information for a data element, the data element will not be displayed. The card view may also display '**Other Match**' and an additional data element if information from the search text is contained within another dataset data element. 'Other Match' information will only appear when performing a search.

Table View

The Table View (Figure 4) is meant to provide a selection of information on the datasets available in the catalog. The Table View displays the following name and count data elements:

- **Dataset Name**
- **Case Count**
- **Sample Count**
- **Participating Resource Name**
- **Primary Dataset Scope**

Search

There is a text field at the top of the page (Figure 7) to search the catalog datasets. The search will perform a full and partial word search for any terms or text entered that meet the search parameters. The parameters, defined below, are also available on the site by selecting the '?' tooltip next to the search field.

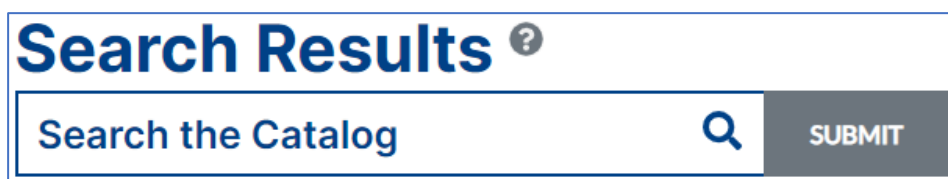

 A search interface titled "Search Results" with a question mark icon. Below the title is a search bar containing the text "Search the Catalog" and a magnifying glass icon. To the right of the search bar is a dark blue button labeled "SUBMIT".

Figure 7: Search Catalog Search Field

Parameters for searching the catalog:

- A minimum of 3 characters are needed for a term search.
- Searches will return both full and partial word results (i.e., 'leuk' will return results for leukemia).
- If you search multiple terms (i.e., lymphocytic survivors) the search results will return sources that contain all the specified terms (AND Boolean operator).
- Results can be filtered by Participating Resources by checking a resource in the resource column. Selecting multiple Resources will filter as an OR Boolean operator.
- Anatomical site searches leverage the NCI Thesaurus to display Case Tumor Site synonym matches. For example, a search for 'eye' will also return results for 'orbit.'

To execute a search, enter the text of interest and either select the 'Submit' button to the right of the search field or hit enter/return on your keyboard. This will execute a search and you should see a prompt with the searched text appearing to the right of the search field as a 'Search Text' bubble (Figure 8). With an executed search, the results pane will be updated to display the datasets that contain a match for the defined text. To clear the search field, select the 'X' on the right side (Figure 8). Clearing the field will remove typed text but does not reset an executed search.

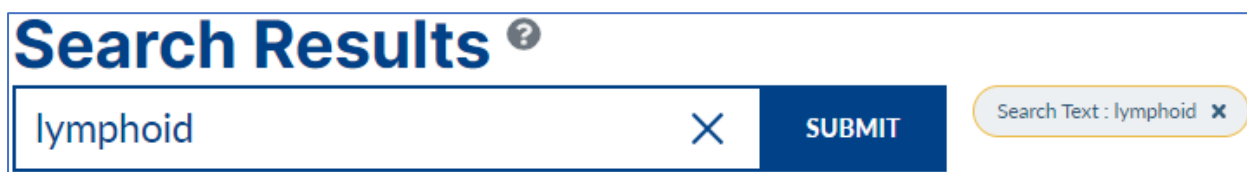

 A search interface titled "Search Results" with a question mark icon. Below the title is a search bar containing the text "lymphoid" and a blue 'X' icon. To the right of the search bar is a dark blue button labeled "SUBMIT". To the right of the "SUBMIT" button is a yellow bubble containing the text "Search Text : lymphoid" and a blue 'X' icon.

Figure 8: Search Catalog Valid Search Execution

Additionally, the Resource column, to the left of the results pane, will update to display the participating resources that have datasets that match the search. To reset the search, you can select the 'x' within the Search Text bubble.

The catalog search can also be filtered by selecting a resource (i.e., CCSS) from the Resource column (Figure 9). Selecting a Resource will automatically populate a prompt with the searched text appearing to the right of the search field as a 'Resources' bubble (Figure 9). A Resource filter can be applied alone or in conjunction with a text search. To reset the search, you can select the 'x' within the Resource bubble or select the circular back arrow in the Resource column on the left.

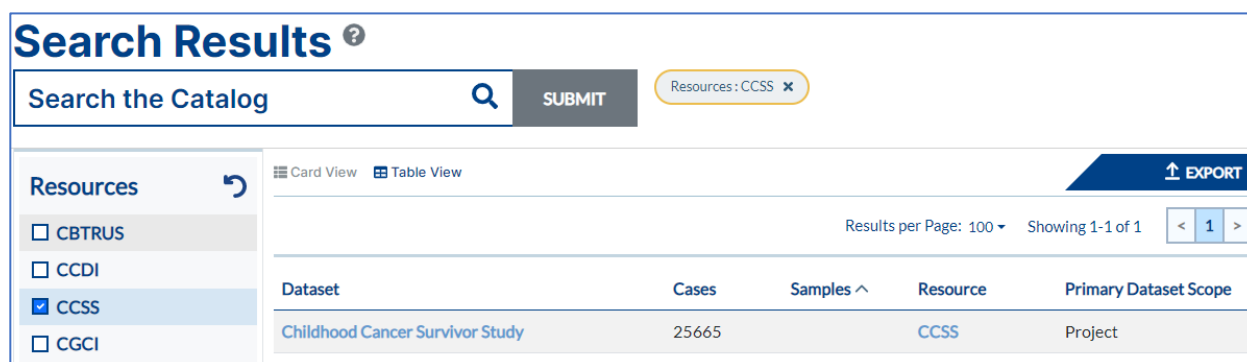


Figure 9: Search Catalog Resource Pane Filter

Export

The Search Catalog features an export that allows the results of a search to be exported for local manipulation or record keeping. To export results, there is an 'Export' link in the upper right of the results. This link will create an export of the results shown in the results pane. The file is exported as a comma-separated values (.csv) file that can be opened in a local text or spreadsheet tool.

The file contains all the information and data elements for a dataset that has been gathered for the CCDC. Each row is an individual dataset and includes information not found on the catalog search page. Please note that the information found on each row is unique to each dataset and that datasets, even within a single participating resource, may contain varying amounts of content per data element.

Dataset Detail Page

The Dataset Details page (Figure 10) provides detailed information about that dataset. The Dataset Details page is available from either the Search Catalog page or from a participating resources details page. The Dataset Details page contains a listing of all metadata the CCDC site has collected about a dataset. The page is broken up into two parts, a header with administrative information and a body that contains count and summary data.

The data on the Dataset Details page is only updated periodically and data on the CCDC site may be out of sync with participating resource's own data sharing site. For the most up to date information about a dataset, it is recommended that you verify any data of interest with the resource owner's website.



Figure 10: Dataset Details Page

Administrative data

At the top of each Dataset Details page is an administrative header (Figure 11). The administrative header contains the name of the dataset, a link to the participating 'Data Resource' on the CCDC site to which the dataset belongs, and Point of Contact information for the dataset. When possible, the point of contact contains both a name and an email address for a resource owner.

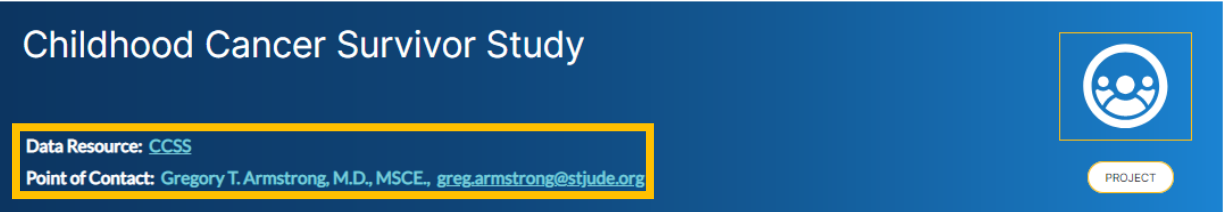


Figure 11: Dataset Details Page Administrative Data

Metadata

The main body of the Dataset Details page contains the collected dataset metadata (Figure 12). In addition to the dataset description, the dataset metadata describes the 'Core Data Element' and the 'Additional Data Elements' of the dataset. These data elements are designed to provide a high-level

overview of the data available within the dataset and provide supporting information about the provenance of the dataset. A visualiation of the Core Data Elements is available under Charts.

For both Core and Additional Data Elements, if information was not available for a data element, that data element will not appear on the Dataset Details page. You should expect some variation in available data between datasets.



Figure 12: Dataset Details Page Metadata

Core Data Elements

Core data elements describe and provide count information about data within the dataset. These data elements describe the participants, related disease information, and information about sample, if samples are part of the dataset. For each numeric data elements, such as Number of Cases, the numeric count value is of that element displayed. For response type data elements, such as Case Sex, the response is displayed along with the count for that response (i.e., Female (11,940)).

The following data elements are displayed as the core data element:

- **Number of Cases**
- **Case Sex**
- **Case Gender**
- **Case Age at Diagnosis**
- **Case Race**
- **Case Ethnicity**
- **Case Disease Diagnosis**
- **Case Tumor Site**
- **Case Treatment Administered**
- **Case Treatment Outcome**
- **Case Proband**
- **Number of Samples**
- **Sample Assay Method**

- **Sample Analyte Type**
- **Sample Anatomic Site**
- **Sample Composition**
- **Sample in Normal**
- **Sample is Xenograft**

Additional Data Elements

Additional Data Elements are generally the data elements that provide supporting information about a dataset such as grant identifier. However, some datasets do include additional information that describes the data within a dataset, such as the data element 'Has Mutation Data'.

The following are the standard data elements may be displayed in the additional data element column:

- **Clinical Trial**
- **Data Repository**
- **dbGaP Study Identifier**
- **GEO Study Identifier**
- **SRA Identifier**
- **Clinical Trial List**
- **Grant Information**
- **Projects**
- **Program ID**
- **Published In**

Charts

The Charts section provides an alternate, visualized presentation of the core data elements. Charts will display each core data element available for a dataset, except Number of Cases and Number of Samples which will not be displayed. The data elements displayed will be shown as a donut chart except Case Age at Diagnosis. Case Age at Diagnosis will display as a Histogram. By default, the first available core data element will be displayed. The displayed information can be changed by selecting the dropdown depicted as 'B' in the charts below (Figure 13).

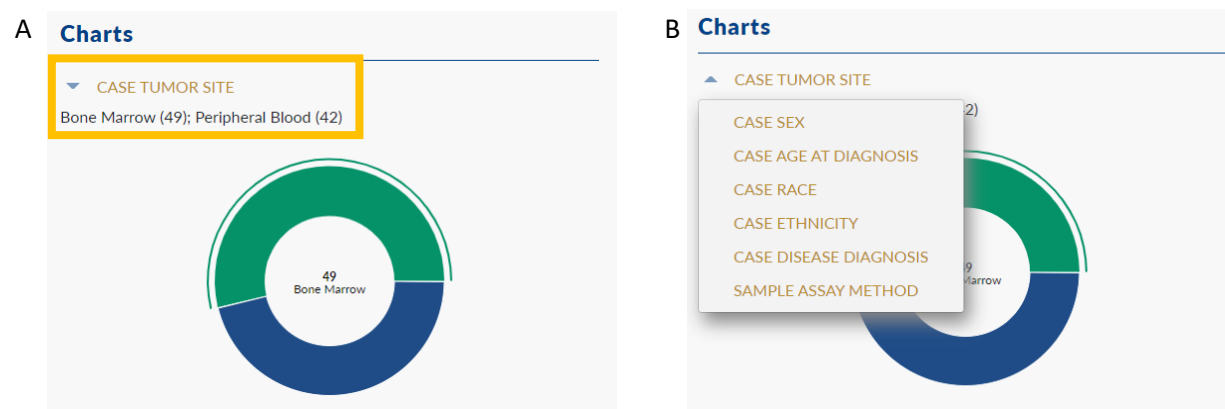


Figure 133: Dataset Details Page Charts. A – Dropdown Menu Closed B – Dropdown Menu Open

Participating Resource Page

The CCDC Participating Resource page allows users to view and filter the resources that CCDC datasets are drawn from (Figure 14). The Participating Resources page can be navigated to by selecting 'Participating Resource' on the menu bar. The resource page includes introductory information for each resource available on the site along with a link to view a more detailed resource page. Resources on the page can be filtered by 'Resource Type' and by 'Data Content Type' to view specific resources.

The screenshot shows the 'Participating Resources' page of the National Cancer Institute Childhood Cancer Data Initiative. The page features a green navigation bar with the NIH logo and the text 'NATIONAL CANCER INSTITUTE Childhood Cancer Data Initiative Data Catalog'. A search bar is located in the top right corner. The main navigation bar includes links for 'Home', 'Search Catalog', 'Participating Resources' (highlighted with a yellow box), 'CCDI Studies', and 'About'. Below the navigation bar, the page title 'Participating Resources' is displayed, followed by '44 Results'. A large banner image shows a healthcare professional interacting with a child. On the left, a 'Resource Filter' sidebar allows filtering by 'RESOURCE TYPE' (Analytic Tool, Catalog, Knowledgebase, Program, Project, Registry, Repository) and 'DATA CONTENT TYPE' (Cell Lines, Clinical, Epidemiologic, Genomics/Omics, Imaging, Xenograft). The main content area shows a list of resources, with 'All of Us (All of Us)' and 'Cancer Genome Characterization Initiative (CGCI)' visible. Each resource entry includes a description, a 'Point of Contact' link, and a 'Registry' button. A 'DATASET SUMMARIES (1)' button is also present.

Figure 14: Participation Resource Page

The catalog currently includes the following types of resources.

- **Analytic Tool** - Any platform, methodology, framework or other software designed for the use of and interpretation of biomedical research data.
- **Catalog** - A data catalog is not a data repository but rather a place where data is described with an index to what is available. A collection of digests and references (e.g., URL or POC) to corresponding research artifacts. There is a consistent structure across the collection of digests to facilitate filtering and identifying research artifacts of interest. A catalog contains some combination of Summary Research Data, Summary Clinical Data, Data Overview, and Resource Metadata.

- **Knowledgebase** - Biomedical knowledgebases extract, accumulate, organize, annotate, and link the growing body of information that is related to and relies on core datasets.
- **Program** - A coherent assembly of plans, project activities, and supporting resources contained within an administrative framework, the purpose of which is to implement an organization's mission or some specific program-related aspect of that mission.
- **Project** - Any specifically defined piece of work that is undertaken or attempted to meet the goals of a program and that involves one or more case studies. Also known as a Study or Trial.
- **Registry** - A cancer registry is an information system designed for the collection, storage, and management of data on persons with cancer. An inventory of individuals or samples, usually focused on a specific diagnosis or condition. In some cases, public health laws require collecting information in registries about individuals who have a specific disease or condition. In other cases, individuals provide information about themselves to these registries voluntarily. Thus, a registry contains Individual Clinical Data, but not Individual Research Data
- **Repository** - Biomedical data repositories store, organize, validate, archive, preserve, and distribute data, in compliance with the FAIR Data Principles. It is a system for storing multiple research artifacts, provided at least some of the research artifacts contain Individual Research Data. A data repository often contains artifacts from multiple studies. Some data repositories accept research datasets irrespective of the structure of those datasets; other data repositories require all research datasets to conform to a standard reference mode.

Resources available on the site are periodically updated and the types of resources available may change. A complete listing of current resources is available in Appendix A.

Resource Filtering

To filter the catalog resources there is a collapsible filter menu on left-hand side of the page (Figure 15). Within the filter menu there are two available filters— Resource Type and Data Content Type. For either filter, a selection can be made by checking the boxes to the left of the filter option. There is no limit on the number of filter selections that can be made.

When filtering, if selecting multiple options within a single filter the returned results will show using the OR operator for the selected options (Figure 15B). In this example, the results will display all catalog and program resources in the CCDC. If selecting multiple options across the two filters, the results will return with the AND operator for the selected options (Figure 15C). In this example, the results will display only catalogs with clinical data. To reset the filters either un-select any selected options or refresh the page.

Figure 15 consists of three panels, A, B, and C, each showing a 'Research Description' filter interface. The interface is divided into two sections: 'RESOURCE TYPE' and 'DATA CONTENT TYPE'. Each section has a list of options with checkboxes.

Panel	Resource Type Selections	Data Content Type Selections
A	None	None
B	<input checked="" type="checkbox"/> Catalog <input checked="" type="checkbox"/> Knowledgebase	None
C	<input checked="" type="checkbox"/> Catalog	<input checked="" type="checkbox"/> Clinical

Figure 15: Participating Resource Research Filter. A – No selections. B – Single filter Selection. C – Multi-filter Selection

Resource Card View

Information about participating resources is displayed in the results pane on the right-hand side of the Participating Resource page (Figure 14). The resources in the pane are displayed in a Card View. Within the resource card, select a resource's name to navigate to a page with more detailed information about the resource and its associated datasets.

The result pane displays 10 search results by default. If a filter returns more than 10 results, the results are available for review on subsequent pages. These pages can be accessed using the '<' or '>' buttons or a specific page number on the pagination bar at the top and bottom of the results pane (Figure 14). If returned results contain fewer than 10 results, the pagination buttons are disabled. Users can select the 'Results per Page' dropdown to modify the number of displayed results.

Card View

The resource card view (Figure 16) provides a brief highlight of each resource available in the catalog. Each card provides a summary of the resource, information about connecting directly with a resource, and information about the number of datasets from a resource listed on the CCDC site. Each card displays the following data elements for each resource:

- **Resource Name**
- **About this Resource**

- **Point of Contact Name**
- **Resource URL**
- **Resource Type**
- **Number of available Datasets**

Each resource card links to a page with additional detailed information about a participating resource. Selecting the 'Resource Name' will navigate to the top of the Participating Resource Details page. Selecting the 'Dataset Summaries' will navigate directly to the dataset summaries section of the Participating Resource Details page.

Cancer Genome Characterization Initiative (CGCI)

The Cancer Genome Characterization Initiative (CGCI) uses molecular characterization to uncover distinct features of rare cancers. Current projects perform comprehensive molecular cataloging of HIV+ and other rare adult and pediatric cancers. The CGCI Data Matrix is a high-level catalog of data generated by the Initiative, with links to the sites where the controlled access data are hosted. The projects described on CGCI pages include Burkitt Lymphoma, HIV+ Tumor Molecular Characterization Project, Medulloblastoma-Complete, and Non-Hodgkin Lymphoma-Complete.

Point of Contact: Office of Cancer Genomics
<https://ocg.cancer.gov/programs/cgci>

Program

DATASET SUMMARIES (2)

Figure 16: Participating Resource Card View

Participating Resource Detail Page

For each participating resource within the CCDC, there is a page of detailed information about that resource, named the Participating Resource Details page (Figure 17). The resource details can be navigated to by selecting a resource on either the Participating Resource page, the Search Catalog page, or the Dataset Details page. The Participating Resource Details page contains a listing of metadata the CCDC site has collected about a resource. The page is broken up into three parts, a header with administrative information, a body section of descriptive information about the resource, and a body section listing the datasets associated with a resource on the CCDC site.

The data on the Participating Resource Details page is only updated periodically and data on the CCDC site may not be as current as would be found on a participating resource's own data sharing site. For the most up to date information, it is recommended that you verify the data with a resource owner.

Home > Participating Resources > CGCI

Cancer Genome Characterization Initiative

<https://ocg.cancer.gov/programs/cgci>
Point of Contact: Office of Cancer Genomics, ocg@mail.nih.gov

ABOUT THIS RESOURCE ▲

The Cancer Genome Characterization Initiative (CGCI) uses molecular characterization to uncover distinct features of rare cancers. Current projects perform comprehensive molecular cataloging of HIV+ and other rare adult and pediatric cancers. The CGCI Data Matrix is a high-level catalog of data generated by the Initiative, with links to the sites where the controlled access data are hosted. The projects described on CGCI pages include Burkitt Lymphoma, HIV+ Tumor Molecular Characterization Project, Medulloblastoma-Complete, and Non-Hodgkin Lymphoma-Complete.

Resource Description		Data Content Type
RESOURCE TYPE	Program	Genomics/Omics, Imaging, Clinical
SPECIALIZATION	Pediatric	
DATA UPDATE DATE	09/08/2021	
Resource Tools		Data Access
VISUALIZATION TOOLS	NO	https://gdc.cancer.gov/developers/gdc-application-programming-interface-api
ANALYTIC TOOLS	NO	

DATASET SUMMARIES (2)

[Burkitt Lymphoma Genome Sequencing Project \(BLGSP\)](#)

PUBLISHED IN: <https://ocg.cancer.gov/news-publications/publications/genome-wide-discovery-somatic-coding-and-non>

NUMBER OF CASES: 126

CASE SEX: Female (46); Male (80)

CASE AGE AT DIAGNOSIS: 0 to 4 years (15); 5 to 9 years (81); 10 to 14 years (21); 15 to 19 years (8)

Figure 17: Participating Resource Detail Page

Administrative data

At the top of each Participating Resource Details page is an administrative header (Figure 18). The administrative header contains the name of the resources, a link to the resource's own data sharing website, Point of Contact information for the dataset, and the resource type defined by the CCDC. Point of contact information contains both a name and an email address for a resource owner whenever possible. The header also contains an icon in the upper providing a quick indication of the number of datasets associated with a resource.

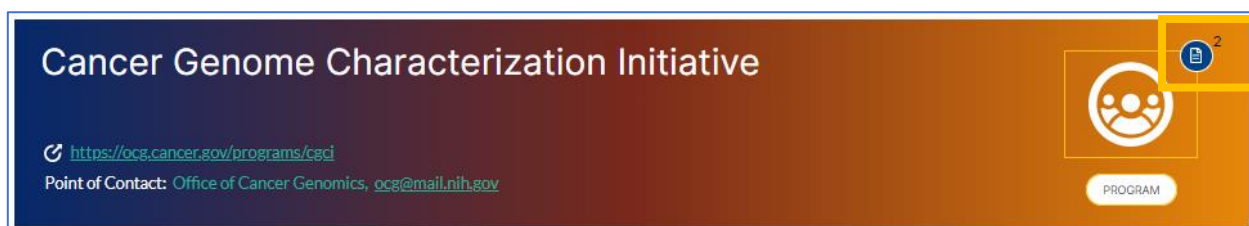


Figure 18: Participation Resource Details Administrative Data

Descriptive Data

The first section of the body of the Participating Resource Details page contains descriptive information about the resource (Figure 19). In addition to the 'About This Resource' description there are four sections of additional information – Resource Description, Resource Tools, Data Content Type, and Data Access.

ABOUT THIS RESOURCE			
<p>The Cancer Genome Characterization Initiative (CGCI) uses molecular characterization to uncover distinct features of rare cancers. Current projects perform comprehensive molecular cataloging of HIV+ and other rare adult and pediatric cancers. The CGCI Data Matrix is a high-level catalog of data generated by the Initiative, with links to the sites where the controlled access data are hosted. The projects described on CGCI pages include Burkitt Lymphoma, HIV+ Tumor Molecular Characterization Project, Medulloblastoma-Complete, and Non-Hodgkin Lymphoma-Complete.</p>			
Resource Description		Data Content Type	
RESOURCE TYPE	Program	Genomics/Omics, Imaging, Clinical	
DATA UPDATE DATE	09/08/2021		
Resource Tools		Data Access	
VISUALIZATION TOOLS	NO	https://gdc.cancer.gov/developers/gdc-application-programming-interface-api	
ANALYTIC TOOLS	NO		

Figure 19: Participating Resource Details Descriptive Data

Resource Description

The Resource Description provides information about how the CCDC organizes the resource and when information on the CCDC site was last updated.

- **Resource Type** – CCDC categorization
- **Data Update Date** – Date the resource was last updated on the CCDC

Resource Tools

The Resource Tools provides information on if a participating resource's own data sharing site includes tools for additional dataset assessment. The CCDC currently identifies these types to assessment tools:

- **Visualization Tools** – A tool for visualization of available data
- **Analytic Tools** – A tool for analytic manipulation of available data

Data Content Type

The Data Content Type defines the type of data within a resource. The CCDC currently identifies these following content types:


- **Cell Lines**
- **Clinical**
- **Epidemiologic**
- **Genomics/Omics**
- **Imaging**
- **Xenograft**

Data Access

The Data access section provides a link to the resource's own data sharing site where information or datasets are available.

Dataset Summaries

The second section of the body of the Participating Resource Details page contains a listing of the datasets, within the CCDC, associated with a participating resource (Figure 20). All participating resources will have at least one associated dataset and the number of associated datasets is identified within the section header. Each dataset is listed on a card view within the summary.

 DATASET SUMMARIES (2)

[Burkitt Lymphoma Genome Sequencing Project \(BLGSP\)](#)

CASE DISEASE DIAGNOSIS Burkitt Lymphoma (126)

NUMBER OF CASES 126

CASE SEX Female (46); Male (80)

CASE AGE AT DIAGNOSIS 0 to 4 years (15); 5 to 9 years (81); 10 to 14 years (21); 15 to 19 years (8)

PUBLISHED IN <https://ocg.cancer.gov/news-publications/publications/genome-wide-discovery-somatic-coding-and-non>

PROJECT

[Non-Hodgkin Lymphoma Project](#)

CASE DISEASE DIAGNOSIS Diffuse Large B-Cell Lymphoma Not Otherwise Specified (6)

NUMBER OF CASES 6

CASE SEX Female (1); Male (5)

CASE AGE AT DIAGNOSIS 15 to 19 years (2); 20 to 24 years (2); 30 to 34 years (1); 35 to 39 years (1)

PUBLISHED IN https://ocg.cancer.gov/programs/cgci/publications?field_publication_project_target_id_selective=33&items_per_page=10

PROJECT

Figure 20: Participating Resource Details, Dataset Summaries

As the Participating Resource Details page already provides background information about the project, the individual dataset cards are more concise and quantitative than those found on the Search Catalog page. The dataset card views display the following data elements for each dataset if available:

- **Dataset Name**
- **Case Disease Diagnosis**
- **Number of Cases**
- **Case Sex**
- **Case Age at Diagnosis**
- **Published In**

Selecting the Dataset Name will navigate to the datasets Dataset Details page where you can learn more about a dataset. Datasets available on the site are periodically updated and the types of datasets available may change.

CCDI Studies

Childhood Cancer Data Initiative participating resource details page (Figure 21) provides information about the CCDI and its available datasets. The 'CCDI Studies' link on the menu bar provides direct access to the CCDI resource and selecting the link will navigate to the resource's details page.

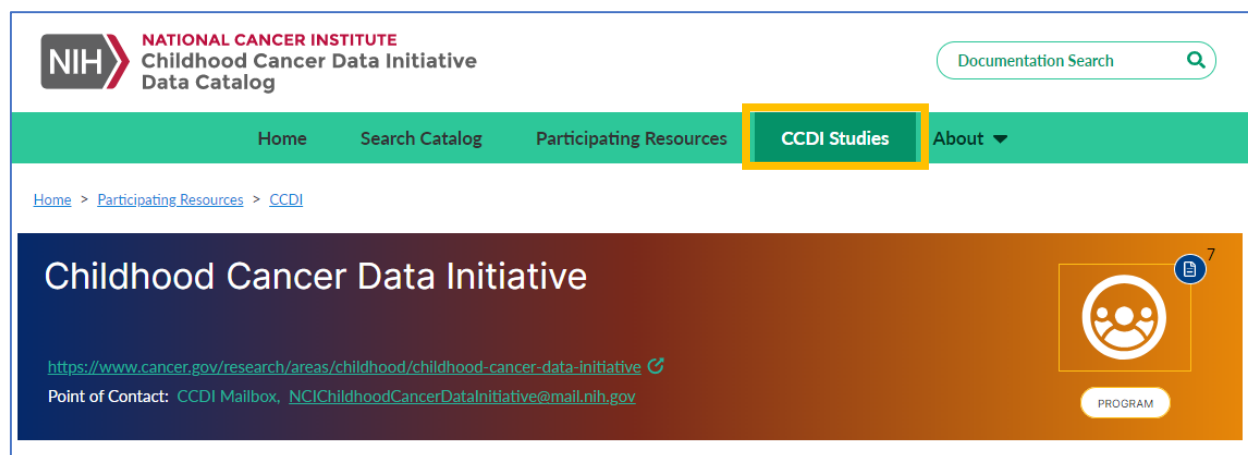


Figure 21: Childhood Cancer Data Initiative Page Selected with CCDI Studies Link

About CCDI Data Catalog Page

The CCDC About CCDI Data Catalog page describes the CCDC and provides information on engaging with CCDI and contributing to the CCDC (Figure 22). The About page can be reached by navigating to the 'About CCDI Data Catalog' submenu item within 'About' dropdown on the menu bar. Once on the page, users can review information about the CCDC and how it fits within the CCDI. The About page also



Figure 22: About CCDI Data Catalog Page

provides a link to join the CCDI mailing list. Joining the mailing list does not affect a user's experience on the CCDC site, but provides future news, content updates, and other information from the CCDI.

Contributing to the CCDI Data Catalog

The CCDC team is continually looking to expand and improve the inventory of pediatric oncology data resources on the CCDC site. Users with knowledge of additional resources are invited to share that knowledge with the CCDI team and contribute to the advancement of the CCDC. Users with comments are invited to contact the CCDI directly using the email link provided on the About page, using the Contact Us link in the site footer, or directly emailing NCIChildhoodCancerDataInitiative@mail.nih.gov.

Users willing to share a new resource are invited to download the summary submission template. This template is the tool used to add new information. Instructions on filling out this template are available by contacting the NCI's Office of Data Sharing (ODS) at NCIChildhoodCancerDataInitiative@mail.nih.gov. Completed templates can be submitted to the CCDI.

Please note, all submitted templates will be reviewed by the CCDC team. Any accepted data submission or suggested changes will be incorporated as part of periodic releases of the CCDC site.

Glossary Page

The CCDC Glossary page provides a listing of terms and abbreviations used on the CCDC site (Figure 23). To reach the Glossary page users navigate to the 'Glossary' submenu item within 'About' dropdown on the menu bar.

The glossary page has two main components, the alphabetical ribbon for navigation and the term pane where information is listed and defined. The information in the glossary is arranged alphabetically and can be navigated by selecting letters on the alphabetic ribbon. Letters on the ribbon will appear in one of three ways. If a letter appears green with an underline it indicates that the letter is selected. Terms

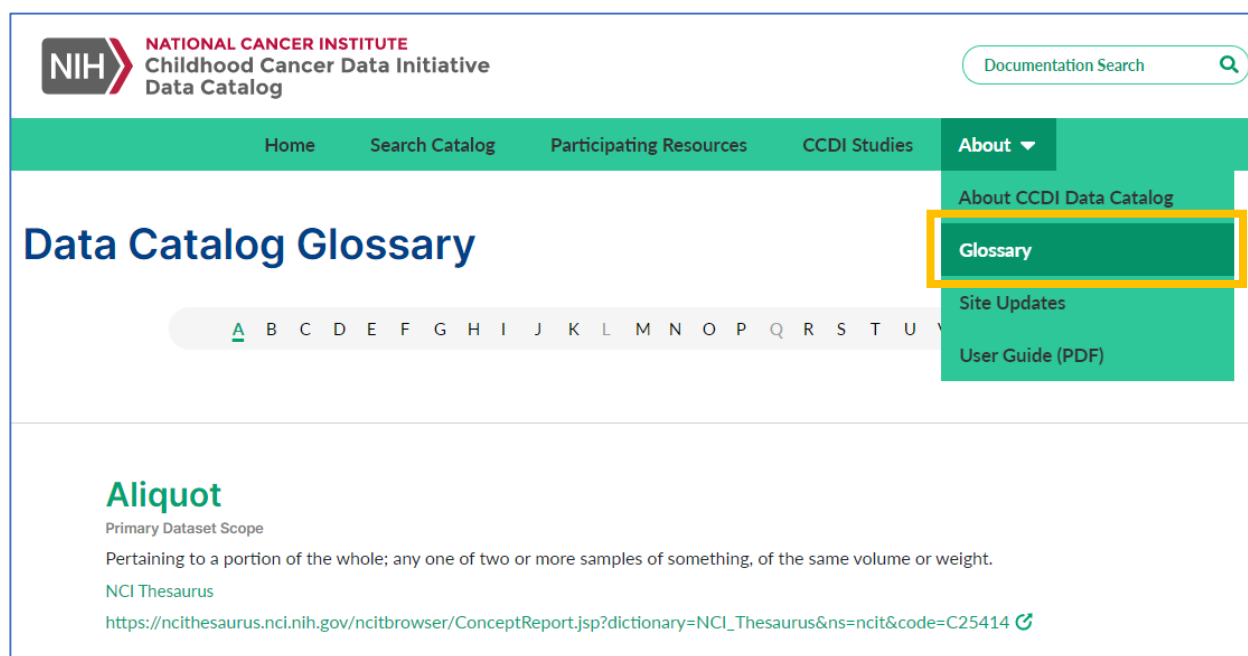


Figure 23: Data Catalog Glossary Page

from a selected letter will appear in the term pane. If a letter appears black, then that letter contains glossary terms but is not selected. Black letters can be selected to update the term pane with terms of the newly selected letter. If a letter appears grey, there are no terms defined for that letter.

Each glossary term will always have the following components:

- **Term** - The term being defined
- **Term Category** - A grouping of like terms by the CCDC
- **Definition** - The definition of the term

Terms may also have the following:

- **Reference** - The name of an external definition source if a definition is not defined by the CCDC team.
- **Reference URL** - A URL link to the external definition

Site Update Page

The CCDC Site Updates page provides a chronological listing of updates made to the CCDC site (Figure 24). The Site Update page can be reached by either selecting an update on the Homepage *Featured Items* widget or by navigating to the 'Site Update' submenu item within 'About' dropdown on the menu bar (Figure 24).

Each entry on the Site Update page shares information about changes to site data and site features for a specified release. At the top of each entry is an icon(s) to identify the Data Content Type included in the update. These new icons convey information across all the newly added datasets at a quick glance. Entries are ordered chronologically with the most recent update information at the top of the page. The three most recent entries will display initially, and older entries will appear as you scroll down the page. The dates for each entry appear to the left of the entry.

Each update entry appears as its own scrollable listing on the site updates and changes page. Entries can be navigated using the scroll bar on the right of each entry. Information within each entry is displayed with additional formatting to further clarify and break down the updates. Each site update can be exported as a PDF by selecting 'Export' in the upper right of each entry.

NIH NATIONAL CANCER INSTITUTE
Childhood Cancer Data Initiative
Data Catalog

Documentation Search

Home Search Catalog Participating Resources CCDI Studies About

About CCDI Data Catalog
Glossary
Site Updates
User Guide (PDF)

Updates to the Data Catalog Site

02/15/2023

Data is in the Air!

EXPORT

The National Cancer Institute is pleased to announce the addition of Epidemiologic as a data content type to the Childhood Cancer Data Catalog website: <https://datacatalog.ccdi.cancer.gov/>. This new data type allows the Catalog to better categorize data relating to the study of the distribution and determinants of health-related states or events (including disease) in populations, and the application of this study to the control of diseases and other health problems. Both the Childhood Cancer & Leukemia International Consortium (CLIC) and the National Childhood Cancer Registry Explorer (NCCR) have been re-categorized to capture their inclusion of epidemiologic data.

The Catalog is also expanded to add 1 new resource, Fibrolamellar Registry, with 1 new dataset.

There are several small site improvements in this update.

[Data Updates](#)

Figure 24: Data Catalog Site Update page

User Guide

The CCDC User Guide link provides a link to a PDF version of the site user guide (Figure 25). Selecting the user guide link should open the guide in a new tab. Please note, for Safari user, clicking on the "User Guide" menu item will directly download the PDF format of the user guide.

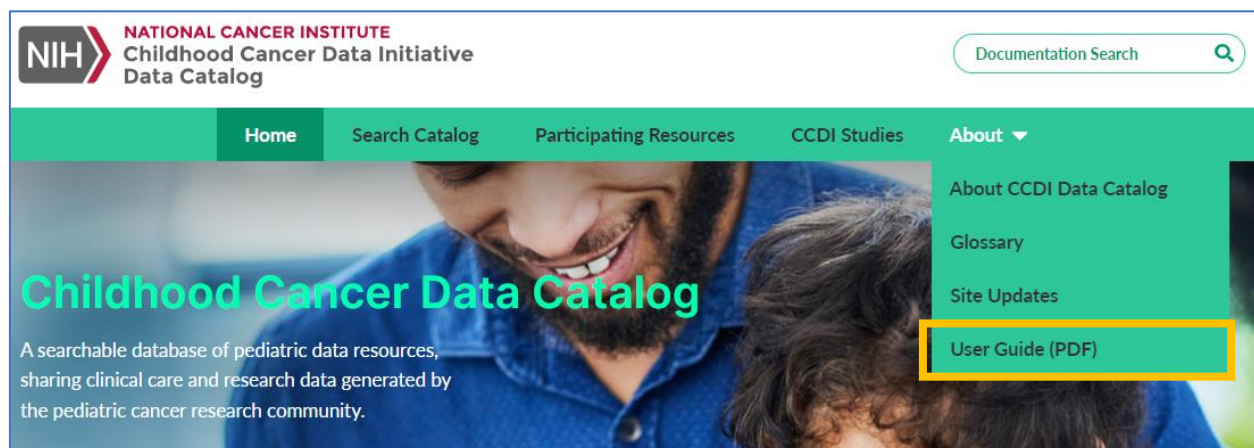


Figure 25: CCDC User Guide Link

Documentation Search Page

The Documentation Search field is a free-text search tool that searches across three CCDC site pages - Home page, About CCDI Data Catalog, and the Glossary. The search, located on the right-hand side of the CCDC site header, is accessible on any CCDC site page (Figure 26). To use the documentation search, type in a term or text of interest and press enter or click on the magnifier icon. A successful execution will take you to the documentation search page (Figure 27). This page is only accessible when using the Documentation Search field.

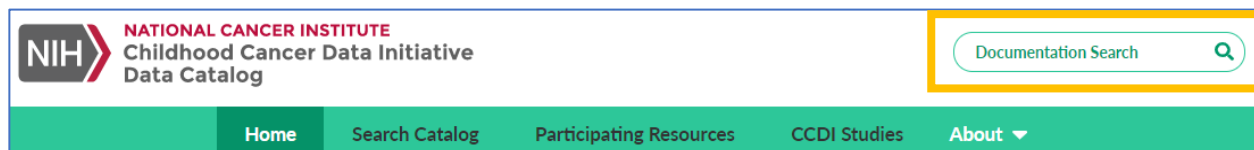



Figure 26: Documentation Search Field

On the Documentation Search page, searches can be refined or changed using the search bar in the header of the page (Figure 27).

Parameters for the Documentation Search:

- A minimum of 3 characters are needed for a term search.
- Searches will return both full and partial word results (i.e., “can” returns results for cancer).
- If you search multiple terms (i.e., “Cancer Institute”) the search result returns sources that contain all the specified terms (AND Boolean operator).




NATIONAL CANCER INSTITUTE
Childhood Cancer Data Initiative
Data Catalog

[Home](#)[Search Catalog](#)[Participating Resources](#)[CCDI Studies](#)[About](#)

Documentation Search

Type to search



SUBMIT

3 Results

About CCDC

The Childhood Cancer Data Catalog is part of NCI's Childhood Cancer Data Initiative (CCDI) , which is building a community centered around childhood cancer care and research data. Through enhanced data sharing, we can improve understanding of cancer biology, preventive measures, treatment, quality of life, and survivorship, as well as ensure that researchers learn from every child with cancer. Sign-up for email updates from NCI about CCDI.
<https://datacatalog-dev.ccdi.cancer.gov/about>

Figure 27: Documentation Search Page

The result of a search appears in the results pane on the main body of the page (Figure 28). Results only return if a static page includes the searched term. For each returned entry, the search displays the page title, the first block of page text, and the URL of the page. To clear the search field, select the 'X' on the right side. Clearing the field will remove typed text but will not reset an executed search.

3 Results

About CCDC

The Childhood Cancer Data Catalog is part of NCI's Childhood Cancer Data Initiative (CCDI) , which is building a community centered around childhood cancer care and research data. Through enhanced data sharing, we can improve understanding of cancer biology, preventive measures, treatment, quality of life, and survivorship, as well as ensure that researchers learn from every child with cancer. Sign-up for email updates from NCI about CCDI.
<https://datacatalog-dev.ccdi.cancer.gov/about>

CCDC Glossary

Describe CCDC Terms, definition and source of the definition.
<https://datacatalog-dev.ccdi.cancer.gov/glossary>

CCDI Data Catalog

The CCDI Childhood Cancer Data Catalog is a searchable database of National Cancer Institute and other pediatric cancer resources.
<https://datacatalog-dev.ccdi.cancer.gov/>

Figure 28: Documentation Search Page Results Pane

Additional Support

Users requiring any additional support or with any questions about the CCDC can contact Childhood Cancer Data Initiative at NCIChildhoodCancerDataInitiative@mail.nih.gov. Please include a name and a reference to the CCDC with submitted any inquiry.

Appendix A: Participating Resources

Information as of 11/17/2022.

Participation Resource	Resource Type	Data Update Date
Cancer Genomics Cloud (CGC)	Analytic Tool	12/14/2022
HitWalker2	Analytic Tool	12/20/2022
Vizome	Analytic Tool	12/19/2022
Xena Browser	Analytic Tool	3/24/2023
Childhood Leukemia International Consortium (CLIC)	Catalog	12/5/2022
Children's Oncology Group (COG)	Catalog	12/29/2022
Human Cancer Model Initiative (HCMI)	Catalog	4/21/2022
MicroRNA Childhood Cancer Catalog (M3Cs)	Catalog	1/3/2023
Clinical Interpretations of Variants in Cancer (CIViC)	Knowledgebase	3/17/2022
Molecular Targets Platform (MTP)	Knowledgebase	8/4/2022
OncoKB	Knowledgebase	3/20/2023
Cancer Genome Characterization Initiative (CGCI)	Program	7/5/2022
Center for Pediatric Tumor Cell Atlas (HTAN)	Program	7/6/2022
Childhood Cancer Data Initiative (CCDI)	Program	2/27/2023
Childhood Cancer Survivor Study (CCSS)	Program	9/14/2022
MyPART	Program	2/14/2023
Pediatric MATCH	Program	7/28/2022
Pediatric Preclinical Testing Consortium (PPTC)	Program	12/28/2022
Single-cell Pediatric Cancer Atlas Portal (ScPCA)	Program	12/28/2022
Texas KidsCanSeq	Program	2/16/2023
Therapeutically Applicable Research to Generate Effective Treatments (TARGET)	Program	12/28/2022
Individualized Cancer Therapy Study (iCat)	Project	7/20/2022
All of Us	Registry	2/15/2023
Central Brain Tumor Registry of the United States (CBTRUS)	Registry	3/20/2023
Fibrolamellar Registry	Registry	2/2/2023
National Childhood Cancer Registry Explorer (NCCR)	Registry	12/28/2022
Population-based Research to Optimize the Screening Process (PROSPR)	Registry	9/6/2022
Surveillance, Epidemiology, and End Results Program (SEER)	Registry	2/13/2023
Gene Expression Omnibus (GEO)	Repository	12/7/2022

Genomic Data Commons (GDC)	Repository	2/21/2023
Greehey Children's Cancer Research Institute Xenograft & Cell-Lines Core	Repository	2/13/2023
International Cancer Genome Consortium (ICGC)	Repository	7/22/2022
Kids First Data Resource	Repository	12/27/2022
Oncogenomics	Repository	2/14/2023
Patient-Derived Xenograft and Advanced In Vivo Models (PDX-AIM)	Repository	12/28/2022
PDX Development and Trial Centers Research Network (PDXNet)	Repository	4/27/2022
PDX for Childhood Cancer Therapeutics (PCAT)	Repository	12/29/2022
PedcBioPortal for Integrated Childhood Cancer Genomics (PEDC)	Repository	12/23/2022
Pediatric Cancer Data Commons (PCDC)	Repository	2/7/2023
St. Jude Cloud	Repository	3/22/2023
The Cancer Imaging Archive (TCIA)	Repository	4/6/2023
The database of Genotypes and Phenotypes (dbGaP)	Repository	2/23/2023
The Jackson Laboratory PDX Models (JAX PDX)	Repository	3/22/2023
Treehouse Childhood Cancer Initiative	Repository	3/22/2023
Victorian Paediatric Cancer Consortium (VPCC)	Repository	12/13/2022