CHILDHOOD CANCER DATA INITIATIVE (CCDI) PARTICIPANT INDEX (CPI) API

1.2.0 Release Notes

Release Notes: CCDI Participant Index (CPI) API V1.2

The Childhood Cancer Data Initiative (CCDI) is excited to announce the release of Version 1.2 of the CCDI Participant Index (CPI) API. For more information, visit https://participantindex-docs.ccdi.cancer.gov/.

This update provides minor fixes to the CPI Service to support participant and domain mapping. In addition, updated data has been updated to include a total of 44 domains and 451,009 participant IDs.

The following table details the domain names, domain descriptions, domain types, and participant counts currently included in the CPI:

Domain Name	Domain Description	Domain Type	Count
dbgap_subject_id	dbGaP Subject Sample Telemetry Report Organizational Identifier (SSTR)		16,160
GENIE	AACR Project GENIE	Organizational Identifier	176
GMKF	Kids First IDs Organizational Ide		5,301
PCDC	Pediatric Cancer Data Commons	Organizational Identifier	22,328
StJude_CompBioID	St. Jude Comp Bio IDs	Organizational Identifier	1,679
Treehouse	Treehouse Childhood Cancer Initiative	Organizational Identifier	885
USI	COG USI	Organizational Identifier	375,108
phs000463	TARGET: Acute Lymphoblastic Leukemia (ALL) Pilot Phase 1	Dataset	24
phs000464	TARGET: Acute Lymphoblastic Leukemia (ALL) Expansion Phase 2	Dataset	1,731
phs000465	TARGET: Acute Myeloid Leukemia (AML)	Dataset	2,492
phs000466	TARGET: Kidney, Clear Cell Sarcoma of the Kidney (CCSK)	Dataset	13
phs000467	TARGET: Neuroblastoma (NBL)	Dataset	1,132
phs000468	TARGET: Osteosarcoma (OS)	Dataset	383
phs000469	TARGET: Cancer Model Systems (MDLS): Cell Lines and Xenografts (including PPTP)	Dataset	132
phs000470	TARGET: Kidney, Rhabdoid Tumor (RT)	Dataset	69
phs000471	TARGET: Kidney, Wilms Tumor (WT)	Dataset	652
phs000720	dbGaP accession: Genomic sequencing of Pediatric Rhabdomyosarcoma	Dataset 403	
phs001228	dbGaP accession: Gabriella Miller Kids First (GMKF) Pediatric Research Program in Susceptibility to Ewing Sarcoma Based on Germline Risk and Familial	Dataset	276
phs001436	dbGaP accession: Discovering the Genetic Basis of Human Neuroblastoma: A Gabriella Miller Kids First Pediatric Research Program (Kids First) Project	Dataset	614
phs001437	dbGaP accession: Pediatric Preclinical Testing Consortium (PPTC)	Dataset	267
phs001714	dbGaP accession: Gabriella Miller Kids First Pediatric Research Program: An	Dataset	5

Domain Name	Domain Description	Domain Type	Count
	Integrated Clinical and Genomic Analysis		
	of Treatment Failure in Pediatric		
phs002187	dbGaP accession: Gabriella Miller Kids	Dataset	1,290
	First Pediatric Research Program in		
	Germline and Somatic Variants in Myeloid		
mh = 00227C	Malignancies in Children	Detect	1 250
phs002276	dbGaP accession: Gabriella Miller Kids First Pediatric Research Program in	Dataset	1,358
	Pediatric T-Cell Acute Lymphoblastic		
	Leukemia		
phs002330	dbGaP accession: Kids First and INCLUDE:	Dataset	517
p.13002330	Down Syndrome and Heart Defects and	Bataset	31,
	Acute Lymphoblastic Leukemia		
phs002371	dbGaP accession: Human Tumor Atlas	Dataset	30
	Network (HTAN)		
phs002430	dbGaP accession: Childhood Cancer Data	Dataset	231
	Initiative (CCDI): Genomic Analysis		
	inPediatric Malignancies		
phs002431	dbGaP accession: CCDI U Michigan Study	Dataset	611
phs002504	dbGaP accession: UCSF Database for the	Dataset	188
	Advancement of JMML - Integration of		
	Metadata with "Omic" Data		
phs002517	dbGaP accession: Childhood Cancer Data	Dataset	1,229
	Initiative (CCDI): Molecular		
	Characterization across Pediatric Brain		
	Tumors and Other Solid and Hematologic Mal		
phs002518	dbGaP accession: Childhood Cancer Data	Dataset	1,039
p000_0	Initiative (CCDI): OncoKids - NGS Panel for	2 4 4 4 4 4	_,==
	Pediatric Malignancies		
phs002529	dbGaP accession: Childhood Cancer Data	Dataset	200
·	Initiative (CCDI): Comprehensive Genomic		
	Sequencing of Pediatric Cancer Cases		
	(CMRI/KUCC)		
phs002599	dbGaP accession: NCI CCSG CCDI	Dataset	104
	Supplement Additional Genomic		
	Submission		
phs002677	dbGap accession: Integrating Longitudinal	Dataset	788
	Clinical, Sociodemographic and Genomic		
phs002790	Data into the NCCR dbGaP accession: Childhood Cancer Data	Dataset	2,807
μ113002730	Initiative (CCDI): Molecular	Dataset	2,607
	Characterization Initiative		
phs003164	dbGaP accession: Childhood Cancer Data	Dataset	40
•	Initiative (CCDI): CCDI Pediatric In Vivo		
	Testing Program - Leukemia		

Domain Name	Domain Description	Domain Type	Count
phs003432	dbGaP accession: Childhood Cancer Data	Dataset	40
	Initiative (CCDI): Identification and		
	Targeting of Treatment Resistant		
	Progenitor Populations in T-cell Acute		
	Lymphoblastic Leukemia		
phs003519	dbGap accession: Childhood Cancer Data	Dataset	29
	Initiative (CCDI): Single-Cell Atlas of NF1		
	Nerve Sheath Tumors		
SD_AQ9KVN5P	Kids First: T Cell ALL (KF-TALL)	Study	1,358
SD_DYPMEHHF	Kids First: Neuroblastoma (KF-NBL)	Study	614
SD_PET7Q6F2	Kids First: Myeloid Malignancies (KF-	Study	1,290
	MMC)		
SD_YGVA0E1C	Kids First: Ewing Sarcoma - Genetic Risk	Study	276
	(KF-ESGR)		
SD_Z6MWD3H0	Kids First: Leukemia & Heart Defects in	Study	517
	Down Syndrome (KF-CHDALL)		
SD_ZXJFFMEF	Kids First: Osteosarcoma (KF-OS)	Study	5
TARGET	Therapeutically Applicable Research to	Study	6,618
	Generate Effective Treatments		
		Total	451,009

Access and Support

- The CPI API will be made available to applications and services authorized by NCI. API
 Documentation is available at https://participantindex-docs.ccdi.cancer.gov/. Integration of the
 CPI service within the Hub is currently under design, with implementation planned for early next
 year.
- Other interested system owners may initiate a request for access by emailing NCIChildhoodCancerDataInitiative@mail.nih.gov.

Appendix – Definitions and API Methods

Identifiers and Domains

Participant ID: Public identifier that appears in a research dataset accessible to researchers (e.g., Kids First ID or AACR-GENIE ID). This also includes global identifiers used more broadly (e.g., COG USI).

Domain: Groups of unique participant IDs. Domains can be categorized as:

- Organizational Identifier. Typically refers to a larger project/network namespace of unique
 participant identifiers. Current institutional identifiers include GENIE (AACR Project GENIE),
 GMKF (Gabriella Miller Kids First), PCDC (Pediatric Cancer Data Commons), StJude_CompBIOID
 (St Jude Comp Bio IDs), Treehouse (Treehouse Childhood Cancer Initiative), and USI (COG USI).
- **Dataset.** Refers to a single dataset for a particular study where data files for the participants can be found. This is typically a dbGaP phs accession number for example phs000720 (dbGaP accession: Genomic sequencing of Pediatric Rhabdomyosarcoma).
- **Study.** Represents programmatic references to research initiatives, such as TARGET, or an institution's internal study synonyms for dataset domains such as SD_AQ9KVN5P, equivalent to phs002276.

API Methods

The API provides mappings of IDs and domains to public identifiers and exposes the following methods:

Method	Description
Get Status for Participant	This method validates the participant IDs for the given domains. It checks if the
	provided participant IDs are valid within their respective domains and returns the
	validation status for each.
Get Associated Participant IDs	This method retrieves a list of associated participant IDs based on input participant IDs
	and their respective domains. For each input participant, the method returns
	associated participant IDs across various domains, helping to link and track participants
	across different datasets and studies.
Get Domain Details	This method retrieves detailed information about various domains within a dataset.
	Each domain is described by its name, a brief description, its status, category, and a
	URL pointing to more detailed data. This information can be used to understand the
	purpose and current status of each domain, along with accessing additional resources.
Get Associated Domains for	This method retrieves a list of domains associated with a given participant ID. Each
Participant	associated domain includes details such as the domain name, description, status, and
	category. This helps in understanding the various domains in which a participant's data
	is present and provides additional context for each domain.
Get Participant Counts by	This method retrieves the counts of participants mapped to various domains within a
Domain (statistics)	dataset. It provides a breakdown of the number of participants associated with each
	domain name, along with the total counts of mapped and unique participants.