NCI Patient-Derived Models Repository (PDMR) Database User Help Guide

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PATIENT-DERIVED MODELS REPOSITORY (PDMR) DATABASE USER HELP GUIDE

New samples are always being added to the Repository, even for existing patient IDs, so check the database often. For example, a PDC culture may develop after the PDX has been made public or a secondary tissue collection site might develop a PDX after one from a primary site has been developed.

Visit the PDMR database: <u>https://pdmdb.cancer.gov/web/apex/f?p=101:1</u> Visit the PDMR website for more info: <u>https://pdmr.cancer.gov/</u>

<u>Announcement</u>: Please use Firefox, Internet Explorer, or Safari to download NGS files. Chrome and Microsoft Edge are no longer supporting FTP URLs. We are working on a solution to this problem to restore functionality for all browsers.

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1.0 WHAT INFORMATION CAN I FIND IN THE PDMR DATABASE?

Patient \rightarrow Patient Specimen(s) \rightarrow Sample(s) \rightarrow Distribution Lot

Home Patient Patient Specimen Sample (PDX or In Vitro Culture) Distribution Lots Genomic Analysis Report	rts Search

- **1.1** The PDMR database is structured in a nested fashion and includes information such as:
- **1.2 Patient**: Patient ID, diagnosis, Grade/Stage and STR profiles of all distribution lots for the patient. The limited medical information tab (non PII) will include treatment history medical history (e.g., genetic screening, prior disease history), self-reported race/ethnicity, and inferred ancestry from sequencing data.
- 1.3 Specimen(s) collected specimen tissue from the patient: specimen id, site of tumor collection, origin (primary vs metastatic), collection date, human pathogen status. Specimen notes. PDX Growth Curves of consecutive passages. Consensus WES of Genomic Variants. PDX mouse strain and implant site.
 - Note: Not all specimens give rise to multiple types of distributable samples.
- **1.4 Sample**(s) representative information for generated models: type (PDX, PDC, PDOrg, CAF, originator), Pathology Data including H&E images and tumor/stromal content, individual NGS files (WES, RNASeq), Cancer Gene Panel mutational status.
- **1.5 Distribution Lots**: type of material available (PDX, PDC, PDOrg, CAF), maximum passage of distributed material, <u>Distribution Lot Name</u> (for requests), and human pathogen status

2.0 HOW ARE THE MODELS CLASSIFIED?

- 2.1 Models are classified first by Disease Body Location
 - 2.1.1 Link to NCI definitions: https://www.cancer.gov/types/by-body-location
- **2.2** Then by CTEP Simplified Disease Classification (SDC) corresponding to the patient diagnosis
 - 2.2.1 Link to the CTEP list: https://ctep.cancer.gov/protocolDevelopment/codes_values.htm#disease
 - **2.2.2** This is a modified list of MedDRA disease codes for cancer provided by NCI's Cancer Therapy Evaluation Program (CTEP).



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3.0 HOW TO SEARCH

3.1 Option 1: SEARCH Tab

Home	Patient	Patient Specimen	Sample (PDX or In Vitro Culture)	Distribution Lots	Genomic Analysis	Reports	Search	
1 Standard Fi	Iters Patier	2 3 at Charts Sample Charts						

- **3.1.1** Standard Filters apply filters across multiple categories
- **3.1.2** Patient Charts Search with interactive pie chart by the following categories: (See SOP Section 4.1 Example 1)
 - Disease Body Location
 - Tissue Type e.g., biopsy, resection
 - Therapy Regimen
 - Gene Known gene involved in cancer, can apply "AND Logic" or "OR Logic" to filter
- **3.1.3** Sample Charts Search with interactive pie chart by sample types
 - PDX
 - PDC
 - CAF
 - PDOrg organoids
- **3.1.4** This mode/method of searching will retrieve all specimen records with associated search term and/or filters. You must still open the individual specimen pages to access available distribution models.



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3.2 Option 2: DISTRIBUTION LOTS Tab

Home	Patient	Patient	Specimen	Sample (PDX or In Vitro Culture)	Distribution Lots	Genomic Analysis	Reports	Search	
Patient-Der	rived Xenograf	t Samples	In Vitro Cultu	Ires All Distribution Material					

- **3.2.1** Search by Keyword/term in Distribution Lot sub-tabs.
 - Patient-Derived Xenograft Samples only sub-tab
 - In Vitro Cultures only sub-tab
 - All Distributed Material sub-tab. Can check the 'Only Show Models with Multiple Distribution Lots Available' to display, for instance, models that have both a PDX and a PDC model.
- **3.2.2** Type in the search term and click Go. To remove filter, click on the "Remove Filter Icon."

Only Show Models with	Multiple Distribution Lots Available	
Q.	Go Rows 100 V Actions -	

- 3.3 Advanced Users
 - **3.3.1** Users can modify search outputs (customize report) by using the **Actions** pull-down menu.
 - Select Column: used to modify (add, remove, reorder) data columns displayed.
 - Filter: advanced filter (see online help)
 - Format:
 - Chart: displays the report data as a chart
 - **3.3.2** Users can also easily search within, sort, or hide a column by clicking on individual column headings





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3.4 Search for Next-generation sequencing (NGS) Data

IMPORTANT: NGS files from multiple passages of PDXs are available. These datasets are representative of the models and may not exactly match the distributable PDX fragment.

- **3.4.1** NGS Data are available for ALL available patient and distribution material free of charge for originator/patient (where there was sufficient material), PDXs, PDOrg, PDC, and germline samples (PBMC or CAF origin; where there was sufficient material).
- **3.4.2** Users can easily search for NGS Data (RNASeq, WES, Gene mutations, etc) under the GENOMIC ANALYSIS tab and then choosing the sub-tab for the data type they wish to query.

Home	Patient	Patient Specimen		Sample (PDX or I	re)	Distribution Lots		Genomic Analysis	
NCI Cancer	Gene Panel	Consensus WES	Who	le Exome Sequence	RNASeq	Germ	nline WES		

- RNASeq: Gene expression for individual samples (.fastq and .tpm).
- Whole Exome Sequence (WES): Sequence files for individual samples (.fastq and .vcf)
- Consensus WES: reports variants present in 100% of the sequenced PDX samples
- Cancer Gene Panel: Detailed list of variants in genes implicated in cancer
- **3.4.3** When using the search bar within the GENOMIC ANALYSIS sub-tab, you must first select the search criteria from the magnifying glass drop down list. Alternatively, use the column filter feature.



- 3.5 Search by Patient Treatment History
 - **3.5.1** Users can easily search by treatment history under the REPORTS tab and then choosing the TREATMENT HISTORY sub-tab.
 - Search for treatment listed by generic drug name or filter using the Standard Regimen column.
 - Treatment response (if available) is reported under the BEST RESPONSE column.

Home	Patient	Patient Specin	nen Sample (PDX or In Vitro Culture)	Distribution Lots	Genomic Analysis	Reports	Search
Pathology	Race/Ethnici	ty & Ancestry	atment History					
Treatment	History Repo	ort						-
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4.0 STEP-BY-STEP GUIDE

- **4.1** EXAMPLE 1: Find Melanoma samples
 - 4.1.1 Navigate to the **Patient Charts** sub-tab under Search tab.
 - **4.1.2** Choose to plot data by Disease Body Location.
 - **4.1.3** Melanoma affects the skin so we will click on the "Skin" pie are (Left image below).
 - **4.1.4** This brings us to a pie chart of different types of Skin cancer.
 - **4.1.5** Click on the Melanoma pie area to retrieve records for only melanoma samples (Right image below).
 - **4.1.6** Click the "Retrieve All for Skin" button at the top of the page to retrieve records for all skin cancer samples.
 - 4.1.7 Click the "Back" button to return to the previous pie chart.
 - **4.1.8** Since we are looking for melanoma samples, we will click on the Melanoma pie area





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- **4.1.9** This brings us to a list of all available melanoma specimens. Click the Specimen ID link to take you to the Specimen record where you can find the type of Material Available for Distribution.
 - 4.1.9.1 Apply additional filters using the Search Parameters on the Left

			Applied Searc	h Filters (1)											,
Search Param	eters		Search Results												
Search Reset			Export row(s) 1 - 15 of 55	5 Next (3)											
Only display Patients and Specimens where: Patient has known metastatic disease			Patient ID Th	Specimen ID	Biological	CTEP SDC Description	Disease Body	Tissue	Has Metastatic Disease	Has Image Data	OncoKB Gene Panel Data	Whole Exome Sequence Avail	RNA Seg	Germline	Self-Reported Race
MSI-High	Models		128128	338-R	Male	Melanoma	Skin	Resection	Yes	Yes	Yes	Yes	Yes	Yes	White
Motastat	ic Models		137849	337-R	Male	Melanoma	Skin	Resection	Not Reported	Yes	Yes	Yes	Yes	Yes	Black or African American
At least of	one Sample has Image data		156681	154-R	Female	Melanoma	Skin	Resection	Yes	Yes	Yes	Yes	Yes	Yes	Not Provided
At least of	one Sample has Whole Exome Sequence data		174941	126-T	Male	Melanoma	Skin	Tumor Biopsy	Not Reported	Yes	Yes	Yes	Yes	Yes	White
At least of	me Sample has RNASeq data		182917	245-R	Female	Melanoma	Skin	Resection	Not Reported	Yes	Yes	Yes	Yes	No	White
Patient h	Patient has Germline sequence		199967	284-R	Female	Melanoma	Skin	Resection	Yes	Yes	Yes	Yes	Yes	No	White
_	0		215118	<u>194-R</u>	Male	Melanoma	Skin	Resection	Yes	Yes	Yes	Yes	Yes	No	White
Use CTRL or SI	hift key to select multiple entries within a list: 🛛 🔞	_	245324	029-R	Malo	Melanoma	Skin	Resection	Yes	Yes	Yes	Yes	Yes	Yes	White
Datiant ID	111316	^	251568	266-R	Malo	Melanoma	Skin	Resection	Yes	Yes	Yes	Yes	Yes	Yes	White
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	<linknown></linknown>		279218	<u>305-R</u>	Male	Melanoma	Skin	Resection	Yes	Yes	Yes	Yes	Yes	Yes	Black or African American
Biological	Male		282946	<u>196-T</u>	Female	Melanoma	Skin	Tumor Biopsy	Not Reported	Yes	No	No	No	No	White
JEA	Female	Ŧ	283228	<u>195-R</u>	Male	Melanoma	Skin	Resection	Not Reported	Yes	Yes	Yes	Yes	No	White
Self-Reported	American Indian/Alaska Native	-	299254	011-R	Male	Melanoma	Skin	Resection	Yes	Yes	Yes	Yes	Yes	Yes	White
Race	Asian Native Hawaiian or other Pacific Islander	Ŧ	322927	281-R	Malo	Melanoma	Skin	Resection	Not Reported	Yes	Yes	Yes	Yes	No	White
Disease Body Location	Breast Digestive/Gastrointestinal Endocrine and Neuroendocrine	^ -	row(s) 1 - 15 of 55	5 Next (3)											
PDM Type	Patient/Originator Specimen PDX PDC: Mixed Tumor Culture	*													

- **4.2** EXAMPLE 2: Navigating Patient Samples
 - **4.2.1** Search for patient ID 521955 in the **All Distribution Material** sub-tab of the Distribution Lots tab.
 - 4.2.1.1 This patient has 9 models for distribution. Each model has a unique <u>Distribution Lot Name</u> (used for requests).
 - 4.2.1.2 Four (4) SPECIMENS gave rise to the 9 models (e.g., specimen 158-R2 gave rise to 3 models a PDX, PDC, and PDOrg model)
 - 4.2.1.3 If we search for this patient ID under the 'Patient-Derived Xenograft Samples' or "in Vitro Cultures' sub-tab, only the specific sample types for the model would be retrieved.

Home	Patient	Patient S	pecimen	Sample (PDX	or In Vitro Culture)	Distribu	ion Lota Ge	nomic Analysis Repo	rts Se	narch
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View	PDM Type	Patient ID	Specimen ID	Sample ID	Name	CiteP spc	Description	Location	Passage	POX
P	PDX	<u>521955</u>	158-R2	NA	621955-158-R2	10052747	Adenocarbinoma - pancreas	Digestive/Gastrointestinal	2	Aral
Р	PDC: Mixed Tumor Culture	521955	158-R2	J5-PDC	521955-158-R2- J5-PDC	10052747	Adenocarcinoma - pancreas	Digestive/Gastrointestinal	18	Not
2	Organoid Culture	521955	<u>158-R2</u>	V5- organoid	621955-158-R2- V5-organoid	10052747	Adenocarcinoma - pancreas	Digestive/Gastrointestinal	14	Not
2	PDX	521955	<u>158-R3</u>	NA	621965-158-R3	10052747	Adenocarcinoma - pancreas	Digestive/Gastrointestinal	4	Aval
2	PDC: Mixed Tumor Culture	<u>521955</u>	<u>158-R3</u>	J5-PDC	621965-158-R3- J6-PDC	10052747	Adenocarcinoma - pancreas	Digestive/Gastrointestinal	25	Not A
2	PDX	521955	<u>158-R4</u>	N/A	521955-158-R4	10052747	Adenocarcinoma - pancreas	Digestive/Gastrointestinal	3	Avai
P	PDX	521955	<u>158-R6</u>	NA	521955-158-R6	10052747	Adenocarcinoma - pancreas	Digestive/Gastrointestinal	3	Avai
2	PDC: Mixed Tumor Culture	521955	<u>158-R6</u>	J3-PDC	521955-158-R6- J3-PDC	10052747	Adenocarcinoma - pancreas	Digestive Gastrointestinal	21	Not
	Omanoid	PAIRE	150 DC	V4-	521955-158-R6-	40052747	Adenocarcinoma	Disarting Contraintention	40	Net



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- **4.2.2** If we click on the Patient ID 521955 (on any sample), the patient record is retrieved:
- Patient Info
- STR profile: Download link
- Germline WES (not available for this patient)
- Limited Medical Information: this patient did have therapy prior to tissue collection
- Social History: Self-reported Race and Ethnicity, Inferred Genetic Ancestry, Smoking History
- Patient Specimen Information: this patient had 4 collection sites with distributable material
 - Liver site A
 - Liver site B
 - Myometrium
 - Colonic Fat

			Sample (PDX or In Vitro (Culture) Distributi	on Lota Cenor	nic Analysia	Reports	Sea
ent								
	* Patient ID	521955						
	Biological Sex	O «Linknown» O N	Vale 🔘 Percale	Control	uter NCI PDMR Mo	feda		
weave t	Body Location	Digestive/Gastrointextin	-	Contributor PD	UK ID			
0	Incollese Code	PAAD		Grade/S Information Avail	tage - None Provi	deed		
CI	IEP SDC Code	10052747 - Adenocarcin	oma - paricreas	Has Kr	with O Yes O	Not Recorded		
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NCI Patient-Deriv	ved Models Repository (PDMR) Database User Help Guid	e
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- **4.2.3** Next, we will view the information for specimen 521955-158-R6. Clicking on the magnifier icon brings you to the specimen record.
 - 4.2.3.1 Specimen Info: tissue origin, pathogen status, Mouse strain and implant site
 - 4.2.3.2 Representative Growth Curve Data (see SOP Step 4.2.4)
 - 4.2.3.3 Consensus WES data for Genomic Variants: is available
 - 4.2.3.4 Distribution Lots: Material(s) available for request submission
 - 4.2.3.5 Links to data for representative sample generated from specimen 521955-158-R6:
 - 11 PDXs from passage 0-3
 - 1 PDC
 - 1 PDOrg
 - Originator
 - 4.2.3.6 Navigate back to the patient info using the "Open Patient" button

IMPORTANT: Not every SPECIMEN will generate multiple types of material for distribution

Home Patient Patient Specimen Sample (PDX or In Vitro Culture) Distribution Lots Ge	Genomic Analysis Reports Search						
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Padent ID S21055 Open Patent Specimen ID 158-R6	Cancel						
Disease Body Location Digits/hw/Castrointes/hal IDDXX Human Pathopen Testing Negation CTEP 8DC Code 10052747 - Adenocarcinoma - pancreas Summary (FMRACT) Tessue Type Reaction Specimen Notes	ative (IDEXX)	Sample (PDX)					
Provided Tissue Origin Metastatic Site Yes		View PDM Type	Sample ID Patient/Originating Specimen	PDX Passage Sample Images	NCI Cancer Gene Panel Data	Whole Exome Sequence Avail	RNASeq
Collection Date 06/2016 Mouse Strain Used for Engratment	G (NOD.Cg-Prkdc(scid)II2rg(tm1WJ)/SzJ)	P Organoid Culture	V4-organoid No	Yes	Yes	Yes	Yes
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NCI Patient-Deriv	ved Models Repository (PDMR) Database User Help Guid	e
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- 4.2.4 To view the representative Growth Curve Data for PDXs, expand the section
 - 4.2.4.1 PDX Growth Curve Data: shows JPEGS of the Growth Curves for consecutive passages. These are provided to give researchers an idea of growth rate for models.
 - 4.2.4.2 NOTE: Pay attention to the Study Days (x-axis) as it refers to the day of implant from passage 0
 - In this example, passage 1 implant began at ~Day 170. Tumor volume reached 1000mg at ~ Day 230. So, passage 1 took 60 days to reach 1000mg.



• Passage 0 took 200 days to reach 1000mg.



NCI Patient-Deriv	ved Models Repository (PDMR) Database User Help Guid	e
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- **4.2.5** Next, we will view the PDX sample information (blue box in SOP Step 4.2.3.6). Clicking on the magnifier icon will bring you to the Sample record.
 - Sample Info
 - WES and RNASeq: avaialble, download
 - NCI Cancer Gene Panel: mutations
 - Specimen notes (if available)
 - Pathology Data: click on the magnifier for more info
 - Pathology Notes
 - Download images
 - Click on "Open Sample" to return to sample page

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High Magnification Image <u>Download</u>



NCI Patient-Deriv	NCI Patient-Derived Models Repository (PDMR) Database User Help Guide						
Effective Date:	1/31/2025	Page 12 of 12					

- **4.2.6** Finally, we will view the PDC sample (blue box in SOP Step 4.2.3.6). Clicking on the magnifier icon will bring you to the sample record.
 - In vitro Culture Conditions and Characteristics
 - Derivation
 - Required Media
 - Proliferation rate
 - Sub-culture recommendations
 - Images: expand for more info
 - WES and RNASeq Data: available, download
 - NCI Cancer Gene Panel: mutations detected
 - Navigate back to Specimen or Patient page using the nested buttons

Home	Patient	Patient Specimen	Sampl	e (PDX or In V	îtro Culture)	Distribution	Lots	Genomic Analysi	s Reports	Search
Sample										
										Cancel
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	Specimen II	0 158-R6 Open Spe	cimen							
	* Sample II	J3-PDC								
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0	Culture Origin	Unknown						Notes		
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Prol in Co	iferation Rate	43 hrs					ļ	Fibroblast qRT-PCF C1 Cor	-0.18	
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