HCMI Searchable Catalog User Guide

What is the purpose of this document?

The purpose of this document is to provide users with a resource to effectively navigate the Human Cancer Models Initiative (HCMI) Searchable Catalog.

What is HCMI?

The Human Cancer Models Initiative (HCMI) is a collaboration between the US National Cancer Institute (NCI) – part of the National Institutes of Health (NIH), Cancer Research UK (CRUK), Wellcome Sanger Institute (WSI), and foundation Hubrecht Organoid Technology (HUB). The goal of HCMI is to create up to 1,000 next-generation cancer models from patient tumors that are clinically and molecularly characterized. For more information about HCMI please visit: the program, https://www.cancer.gov/ccg/research/functional-genomics/hcmi.

What is the HCMI Searchable Catalog?

The HCMI Searchable Catalog allows users to browse and identify next-generation cancer models generated by HCMI for use in research. Links to available associated molecular characterization data. clinical and biospecimen data at the National Cancer Institute's (NCI) Genomic Data Commons (GDC), the European Genome-phenome Archive (EGA), and the 3rd party HCMI Model Distributor are available on each model page as data are processed and validated.

HCMI Searchable Catalog URL: <u>https://hcmi-searchable-catalog.nci.nih.gov/</u>

Supported browsers include Chrome, Firefox, and Edge.

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V3.0 Last updated December 10, 2024 *Navigating the HCMI Searchable Catalog Landing Page*

What is displayed on the landing page?

		Use the filter panel on	ne left to customize yo	our model search.										<	SHARE 📄 VIEW
e.g. HCM-BROD-0051-C64,		Models By I	Primary Site		Has Mult	iple Models			20	Versus 3D Growt	h		Most	Frequently Mut	ated Genes
arch By Altered Gene(s)		Models By	Finnary site		Has Mult	ipie models			20	versus 3D Growt			- ¹⁸⁷	riequently mut	ateu Genes
e.g. BRAF, EWSR,		All In											affecte		
arch By Research Somatic Variant			18 Ital										odels a		
e.g. BRAF V600E, IDH1 R132H,													₩ 0 <u>2 2</u>	to the Sh	10 m 00 th
imary Site													-33 A	No Start Start	C NO SCL M
-	Sho	owing 1 - 20 of 316 models									0	Include	272 unexpanded m	odels 👔 🛛 COLU	MNS 🗸 🛓 EXPO
search Somatic Variant Type 🛛 🖉	1	Name	Primary Site	Clinical Tumor Diagnosis	Tissue Status	Age At Acquisition (Years)	Age At Diagnosis (Years)	Has Multiple Models	0	Expansion (Status	# Mut Genes	ated <table-cell></table-cell>	# Research ③ Somatic Variants	# Clinical 🛛 🚱 Variants	# Histo- Pathological Biomarkers
odel Type	C	HCM-BROD-0648-C71	Brain	Glioblastoma	Recurrent	68	63	No		EXPANDED	5326		7110	0	3
as Multiple Models	C	HCM-BROD-0227-C43	Skin	Melanoma	Metastasis	40	40	No		EXPANDED	3075		4187	0	0
	C	HCM-SANG-0288-C18	Colon	Colorectal cancer	Primary	75		No		EXPANDED	3228		3908	0	0
quisition Site	10	HCM-BROD-0569-C43	Skin	Melanoma	Metastasis	79	78	No		EXPANDED	2886		3802	0	1
inical Tumor Diagnosis	LC	HCM-BROD-0594-C43	Skin	Melanoma	Metastasis	78	75	No		EXPANDED	2690		3555	0	0
inical Stage Grouping		HCM-CSHL-0426-C18	Colon	Colorectal cancer	Primary	73	72	No		EXPANDED	2701		3183	0	0
incal stage Grouping	C	HCM-SANG-0273-C18	Colon	Colorectal cancer	Primary	78		No		EXPANDED	2597		2991	0	0
ssue Status	C	HCM-BROD-0027-C34	Bronchus and lung	Lung cancer	Metastasis	66	65	No		EXPANDED	2313		2868	0	0
stological Subtype		HCM-CSHL-0459-C17	Small intestine	Rare cancers	Primary	57	57	No		EXPANDED	2426		2793	0	5
		HCM-BROD-0223-C43	Skin	Melanoma	Metastasis	74	73	No		EXPANDED	2187		2679	0	0
stological Grade	C	HCM-SANG-0282-C18	Colon	Colorectal cancer	Primary	85		No		EXPANDED	2313		2636	0	0
e At Diagnosis (Years)	C	HCM-BROD-0724-C43	Skin	Melanoma	Metastasis	74	74	No		EXPANDED	2013		2530	1	0
	C	HCM-CSHL-0606-C17	Small intestine	Rare cancers	Metastasis	71	71	No		EXPANDED	2143		2383	0	3
ender		HCM-BROD-0106-C71	Brain	Glioblastoma	Recurrent	56	52	No		EXPANDED	2122		2333	0	3
ailable Molecular 👔 👔	C	HCM-WCMC-0494-C16	Stomach	Stomach cancer	Primary	64	64	No		EXPANDED	1883		2107	0	2
aracterizations		HCM-SANG-0276-C18	Colon	Colorectal cancer	Primary	78		No		EXPANDED	1768		1976	0	0
oadjuvant Therapy	C	HCM-BROD-0334-C43	Skin	Melanoma	Metastasis	72	70	No		EXPANDED	1619		1939	0	1
emotherapoutic Drug List Aug	C	HCM-CSHL-0174-C22	Intrahepatic bile due	: Intrahepatic bile du	uc Primary	64	64	No		EXPANDED	1568		1713	0	0
emotherapeutic Drug List Available	C	HCM-BROD-0702-C43	Skin	Melanoma	Metastasis	70	69	No		EXPANDED	1367		1658	0	1
censing Required For Commercial Use	L C	HCM-CSHL-0317-C18	Colon	Colorectal cancer	Primary	65	64	No		EXPANDED	1502		1639	0	0

The landing page features a dynamic view, enabling users to filter the models by several elements, and easily download saved results.

Box (1) shows the main viewing pane of the HCMI models. Users can sort the models in ascending or descending alphabetical or numerical order by clicking on the column headers (1a) such as "NAME", "PRIMARY SITE", etc.

Box (2) shows the number of models that users can choose to view.

Box (3) shows additional pages, if any, of available models.

↓ Search By Model Name	4	CLEAR CONSEQUENCE	s Missense Variant 🛪	and AVAILABLE MOL	ECULAR CHARACTER	ZATIONS in (GS of model X	WGS of parent tum	or ×) and PRIMA	RY SITE is Colon	×	4a		< SHARE	EW LIST
Q e.g. HCM-BROD-0051-C64,		Models By F	rimary Site		Has Mult	iple Models			2D Versus 3D Gro	wth			Frequently I	Mutated Genes	
Search By Altered Gene(s)	0										pa	39			
Q e.g. BRAF, EWSR,											affecto				
Search By Research Somatic Varia	nt	То									nodel				í e
Q e.g. BRAF V600E, IDH1 R132H,											*	0 to 17	125 542 5	m. Car the tig.	513 C
Primary Site	Q												~ ~	15 103 08 44	a,
) Pancreas	49	Showing 1 - 20 of 47 models								0	Include	e 0 unexpanded mo	dels 🕜 🛛 CC	DLUMNS V 🛓 E	XPORT
Colon	47	Name	Primary Site	Clinical Tumor	Tissue Status	Age At Acquisition	Age At Diagnosis	Has Multiple	Expansion	# Mutate	d 🕜	# Research 💿	# Clinical	# Histo-	G
) Brain	46			Diagnosis		(Years)	(Years)	Multiple Models	Status	Genes		Somatic Variants	Variants	Pathological Biomarkers	
Esophagus	35	HCM-SANG-0288-C18	Colon	Colorectal cancer	Primary	75		No	EXPANDED	3228		3908	0	0	
		HCM-CSHL-0426-C18	Colon	Colorectal cancer	Primary	73	72	No	EXPANDED	2701		3183	0	0	
Research Somatic Variant Type	0	HCM-SANG-0273-C18	Colon	Colorectal cancer	Primary	78		No	EXPANDED	2597		2991	0	0	
Consequence	Q	HCM-SANG-0282-C18	Colon	Colorectal cancer	Primary	85		No	EXPANDED	2313		2636	0	0	
Missense Variant	47	HCM-SANG-0276-C18	Colon	Colorectal cancer	Primary	78		No	EXPANDED	1768		1976	0	0	
Synonymous Variant	47	HCM-CSHL-0317-C18	Colon	Colorectal cancer	Primary	65	64	No	EXPANDED	1502		1639	0	0	
Frameshift Variant	47	HCM-CSHL-0729-C18	Colon	Colorectal cancer	Primary	60	60	No	EXPANDED	1433		1572	0	6	
Stop Gained	47	HCM-WCMC-0504-C18	Colon	Colorectal cancer	Recurrent	58	58	No	EXPANDED	1354		1462	0	8	
44 More		HCM-CSHL-0064-C18	Colon	Colorectal cancer	Primary	75	75	No	EXPANDED	342		350	0	5	
Model Type		HCM-SANG-0285-C18	Colon	Colorectal cancer	Primary	71		No	EXPANDED	323		333	0	0	
Has Multiple Models	0	HCM-SANG-0277-C18	Colon	Colorectal cancer	Primary	78		No	EXPANDED	306		319	0	6	
Has multiple models		HCM-SANG-0268-C18	Colon	Colorectal cancer	Primary	80		No	EXPANDED	223		233	0	0	
Acquisition Site		HCM-SANG-0281-C18	Colon	Colorectal cancer	Primary	44		No	EXPANDED	222		226	0	0	
Clinical Tumor Diagnosis		HCM-CSHL-0245-C18-A	Colon	Colorectal cancer	Primary	73	72	<u>Yes (2)</u>	EXPANDED	218		226	0	9	
-		HCM-SANG-0265-C18	Colon	Colorectal cancer	Metastasis	51		No	EXPANDED	208		219	0	0	
Clinical Stage Grouping		HCM-CSHL-0247-C18-B	Colon	Colorectal cancer	Metastasis	76	76	<u>Yes (2)</u>	EXPANDED	209		216	1	5	
Tissue Status		HCM-CSHL-0245-C18-B	Colon	Colorectal cancer	Metastasis	73	73	<u>Yes (2)</u>	EXPANDED	211		215	0	7	
Histological Subtype		HCM-SANG-0267-D12	Colon	Other	Primary	63		No	EXPANDED	196		203	0	0	
matorogical subtype		HCM-CSHL-0056-C18	Colon	Colorectal cancer	Primary	75	75	No	EXPANDED	188		193	0	6	
Histological Grade		HCM-SANG-0283-C18	Colon	Colorectal cancer	Primary	58		No	EXPANDED	191		191	0	0	

How do I filter data elements to query the available models?

Users may filter the models using the data types displayed in Box (4) by checking or unchecking boxes to select or deselect data elements of interest. The list of models displayed in the main viewing pane and graphs will dynamically change as data elements in box (4) are selected or deselected.

Box (4a) at the top of the viewing pane shows the selected filtered data elements. Users may deselect a searchable data element by clicking the 'X' next to the name of the filtered element. To reset all selections, utilize the "CLEAR" button at the top of the pane.

Search By Model Name	← Us	e the filter panel on th	e left to customize yo	our model search.								3	< SHARE 📄 VIEW
Q, e.g. HCM-BROD-0051-C64,	5	Models By I	Primary Site	1	Har Multi	ple Models	-		2D Versus 3D Growth	_	Mort	Frequently Mu	stated Gaper
Search By Altered Gene(s)	5	a Models By			D			С			0 187	inequency mu	
Q. e.g. BRAF, EWSR,		2									affect		
Search By Research Somatic Variant			tal								model		
Q e.g. BRAF V600E, IDH1 R132H,											* 0 kg h	tos MUCT	NAC ACI 045 TAX
Primary Site			2	1							1		, • 4
Research Somatic Variant Type 🛛 💿		1 - 20 of 316 models			_						ude 272 unexpanded mo		
Consequence		ame	Primary Site	Clinical Tumor Diagnosis	Tissue Status	Age At Acquisition (Years)	Age At Diagnosis (Years)	Has Multiple Models	Expansion C Status	# Mutated Genes	# Research Somatic Variants	# Clinical 🛛 🖗 Variants	# Histo- Pathological Biomarkers
Model Type		M-BROD-0648-C71	Brain	Glioblastoma	Recurrent	68	63	No	EXPANDED	5326	7110	0	3
Has Multiple Models 🛛 🕘		M-BROD-0227-C43	Skin	Melanoma	Metastasis	40	40	No	EXPANDED	3075	4187	0	0
Acquisition Site	Second Second	M-SANG-0288-C18	Colon	Colorectal cancer	Primary	75		No	EXPANDED	3228	3908	0	0
Acquisition site	Contract Street	IM-BROD-0569-C43	Skin	Melanoma	Metastasis	79	78	No	EXPANDED	2886	3802	0	1
Clinical Tumor Diagnosis	1000	M-BROD-0594-C43	Skin	Melanoma	Metastasis	78	75	No	EXPANDED	2690	3555	0	0
Clinical Stage Grouping		M-CSHL-0426-C18	Colon	Colorectal cancer	Primary	73	72	No	EXPANDED	2701	3183	0	0
		M-SANG-0273-C18	Colon	Colorectal cancer	Primary	78		No	EXPANDED	2597	2991	0	0
Tissue Status		M-BROD-0027-C34	Bronchus and lung	Lung cancer	Metastasis	66	65	No	EXPANDED	2313	2868	0	0
Histological Subtype		M-CSHL-0459-C17	Small intestine	Rare cancers	Primary	57	57	No	EXPANDED	2426	2793	0	5
		M-BROD-0223-C43	Skin	Melanoma	Metastasis	74	73	No	EXPANDED	2187	2679	0	0
Histological Grade		M-SANG-0282-C18	Colon	Colorectal cancer	Primary	85		No	EXPANDED	2313	2636	0	0
Age At Diagnosis (Years)		IM-BROD-0724-C43	Skin	Melanoma	Metastasis	74	74	No	EXPANDED	2013	2530	1	0
		CM-CSHL-0606-C17	Small intestine	Rare cancers	Metastasis	71	71	No	EXPANDED	2143	2383	0	3
Gender		M-BROD-0106-C71	Brain	Glioblastoma	Recurrent	56	52	No	EXPANDED	2122	2333	0	3
Available Molecular		M-WCMC-0494-C16	Stomach	Stomach cancer	Primary	64	64	No	EXPANDED	1883	2107	0	2
Characterizations		M-SANG-0276-C18	Colon	Colorectal cancer	Primary	78		No	EXPANDED	1768	1976	0	0
Neoadjuvant Therapy		M-BROD-0334-C43	Skin	Melanoma	Metastasis	72	70	No	EXPANDED	1619	1939	0	1
		M-CSHL-0174-C22	Intrahepatic bile du	c Intrahepatic bile du	ic Primary	64	64	No	EXPANDED	1568	1713	0	0
Chemotherapeutic Drug List Available		M-BROD-0702-C43	Skin	Melanoma	Metastasis	70	69	No	EXPANDED	1367	1658	0	1
Licensing Required For Commercial Use	Онс	M-CSHL-0317-C18	Colon	Colorectal cancer	Primary	65	64	No	EXPANDED	1502	1639	0	0

What do the graphs on the main viewing page indicate?

Users may filter the models by clicking on various colors within the interactive graphs shown in (5). Hovering over different colors in a graph will reveal relevant information.

Box (5a) shows that users can click on different colors within the circle graph and filter the models by primary sites of the available models.

Box (5b) shows that users can select the models by whether the cases have multiple models derived from independent tumors from the same donor (e.g. primary and metastatic, primary and pre-malignant tissues, etc.) or not.

Box (5c) shows that users can query the models by the growth type: 2-D, 3-D, or other.

Box (5d) shows that users can query the models within the main viewing table by selecting the most frequently mutated gene(s). Users may select more than one gene at a time.

	Name	Primary Site	Clinical Tumor Diagnosis	Tissue Status	Age At Acquisition (Years)	Age At Diagnosis (Years)	Has Multip Models	✓ Select All ③ Reset to Defaults	0
	HCM-SANG-0288-C18	Colon	Colorectal cancer	Primary	75		No	Primary Site	
	HCM-CSHL-0426-C18	Colon	Colorectal cancer	Primary	73	72	No		
	HCM-SANG-0273-C18	Colon	Colorectal cancer	Primary	78		No	Clinical Tumor Diagnosis	
	HCM-SANG-0282-C18	Colon	Colorectal cancer	Primary	85		No		
	HCM-SANG-0276-C18	Colon	Colorectal cancer	Primary	78		No	Histological Subtype	
	HCM-CSHL-0317-C18	Colon	Colorectal cancer	Primary	65	64	No		
	HCM-CSHL-0729-C18	Colon	Colorectal cancer	Primary	60	60	No	Tissue Status	
~	HCM-WCMC-0504-C18	Colon	Colorectal cancer	Recurrent	58	58	No		
	HCM-CSHL-0064-C18	Colon	Colorectal cancer	Primary	75	75	No	Acquisition Site	
	HCM-SANG-0285-C18	Colon	Colorectal cancer	Primary	71		No		
	HCM-SANG-0277-C18	Colon	Colorectal cancer	Primary	78		No	Gender	
	HCM-SANG-0268-C18	Colon	Colorectal cancer	Primary	80		No		
~]	HCM-SANG-0281-C18	Colon	Colorectal cancer	Primary	44		No	Race	
	HCM-CSHL-0245-C18-A	Colon	Colorectal cancer	Primary	73	72	<u>Yes (2)</u>		
	HCM-SANG-0265-C18	Colon	Colorectal cancer	Metastasis	51		No	Age At Acquisition (Years)	
~	HCM-CSHL-0247-C18-B	Colon	Colorectal cancer	Metastasis	76	76	<u>Yes (2)</u>		
~	HCM-CSHL-0245-C18-B	Colon	Colorectal cancer	Metastasis	73	73	<u>Yes (2)</u>	Age At Diagnosis (Years)	
	HCM-SANG-0267-D12	Colon	Other	Primary	63		No		
								Disease Status Vital Status	

How can I download information regarding selected models?

The default columns shown in the main viewing pane can be customized based on information of interest. Users can select the data elements under the "COLUMNS" button shown in Box (6) to view in the main viewing pane.

Once users have selected the data elements to be shown in the viewing pane, these data can be exported using the "EXPORT (current columns)" function in box (7) and saved as a .tsv file. Additionally, users can download all associated data by using the "EXPORT (all columns)" function in box (7). To view the .tsv file in a tabular format, users may open the saved file in Excel or similar program.

Search By Model Name	Î												
), e.g. HCM-BROD-0051-C64,		CLEAR RESEARCH SOMA	TIC VARIANT TYPE is	Missense Mutation X	and AVAILABLE MOL	ECULAR CHARACTI	RIZATIONS in (WGS of model ×	WGS of parent turnor X) and PRIMAR	Y SITE is Colon X	<	SHARE
Search By Altered Gene(s)	0	Models By P	rimary Site		Has Mult	iple Models		21	D Versus 3D Growth		Mos	Frequently Mut	ated Genes
), e.g. BRAF, EWSR,											2 39		
Search By Research Somatic Var	iant										is affect		
), e.g. BRAF V600E, IDH1 R132H,		Tot	al								# mode		
Primary Site	Q										0 8g M	INTE STREET	Canon All Charles Annos
Pancreas	49												
Colon	47	Showing 1 - 20 of 47 models								lr	nclude 0 unexpanded m	odels 🛞 COLU	
Brain	46	Name	Primary Site	Clinical Tumor	Tissue Status	Age At	Age At	Has 😡	Expansion 💿		# Research		
Esophagus	35	8		Diagnosis		Acquisition (Years)	Diagnosis (Years)	Multiple Models	Status	Genes	Somatic Variants	Variants	Pathological Biomarkers
21 More		HCM-SANG-0288-C18	Colon	Colorectal cancer	Primary	75		No	EXPANDED	3228	3908	0	0
Research Somatic Variant Type	00	HCM-CSHL-0426-C18	Colon	Colorectal cancer	Primary	73	72	No	EXPANDED	2701	3183	0	0
Missense Mutation	47	HCM-SANG-0273-C18	Colon	Colorectal cancer	Primary	78		No	EXPANDED	2597	2991	0	0
Silent	47	HCM-SANG-0282-C18	Colon	Colorectal cancer	Primary	85		No	EXPANDED	2313	2636	0	0
Nonsense Mutation	47	HCM-SANG-0276-C18	Colon	Colorectal cancer	Primary	78		No	EXPANDED	1768	1976	0	0
Frame Shift Del	44	HCM-CSHL-0317-C18	Colon	Colorectal cancer	Primary	65	64	No	EXPANDED	1502	1639	0	0
13 More		HCM-CSHL-0729-C18	Colon	Colorectal cancer	Primary	60	60	No	EXPANDED	1433	1572	0	6
Consequence	Q.	HCM-WCMC-0504-C18	Colon	Colorectal cancer	Recurrent	58	58	No	EXPANDED	1354	1462	0	8
Missense Variant	47	HCM-CSHL-0064-C18	Colon	Colorectal cancer	Primary	75	75	No	EXPANDED	342	350	0	5
Missense Variant;splice Region Varia	nt 45	HCM-SANG-0285-C18	Colon	Colorectal cancer	Primary	71		No	EXPANDED	323	333	0	0
Missense Variant;NMD Transcript Var	iant 16	HCM-SANG-0277-C18	Colon	Colorectal cancer	Primary	78		No	EXPANDED	306	319	0	6
Coding Sequence Variant;5 Prime UT Variant	R 👔	HCM-SANG-0268-C18	Colon	Colorectal cancer	Primary	80		No	EXPANDED	223	233	0	0
		HCM-SANG-0281-C18	Colon	Colorectal cancer	Primary	44		No	EXPANDED	222	226	0	0
Model Type	Q	HCM-CSHL-0245-C18-A	Colon	Colorectal cancer	Primary	73	72	Yes (2)	EXPANDED	218	226	0	9
3-D: Organoid	47	HCM-SANG-0265-C18	Colon	Colorectal cancer	Metastasis	51		No	EXPANDED	208	219	0	0
Has Multiple Models	0	HCM-CSHL-0247-C18-B	Colon	Colorectal cancer	Metastasis	76	76	Yes (2)	EXPANDED	209	216	1	5
Any Yes 4 No	43	HCM-CSHL-0245-C18-B	Colon	Colorectal cancer	Metastasis	73	73	Yes.(2)	EXPANDED	211	215	0	7
		HCM-SANG-0267-D12	Colon	Other	Primary	63		No	EXPANDED	196	203	0	0
Acquisition Site	9,	HCM-CSHL-0056-C18	Colon	Colorectal cancer	Primary	75	75	No	EXPANDED	188	193	0	6
Sigmoid colon	19	HCM-SANG-0283-C18	Colon	Colorectal cancer	Primary	58		No	EXPANDED	191	191	0	0

How can I save models from multiple searches for later use?

In box (8), users can select the models of interest by clicking on the checkboxes next to the model name. In the example shown, the "Primary Site" of "Colon" is selected. Users can further sort and select models that meet certain characteristics, for example, "# of Research Somatic Variants". Selecting models adds them to the "VIEW LIST" box (8a), which functions as a 'saved list' so that users can refer back to specific models of interest. This feature may be helpful to users if multiple searches are conducted within a session. For example, if the user is also interested in models from the "Primary Site" of "Pancreas", an additional search may be conducted, and further models may be added to "My Model List".

Clicking on the view List icon in box (8a) allows users to view the models that have been saved to "My Model List". Users may download the list of saved models and their Catalog data by clicking the view clicking the corresponding trash symbol, in , or clear all selected models from the list by clicking "CLEAR".

» My Model List 🗿 CLEAR 薗 HCM-SANG-0281-C18 Available: April 30, 2021 Ŵ HCM-CSHL-0245-C18-B Available: July 31, 2020 Ô HCM-CSHL-0247-C18-B Available: June 30, 2021 ŵ HCM-WCMC-0504-C18 Available: February 24, 2023 ★ TSV (ALL COLUMNS)

V3.0 Last updated December 10, 2024 *How do I find unexpanded models?*

Search By Model Name	î.												
λ, e.g. HCM-BROD-0051-C64,		← Use the filter panel on the le	ft to customize your mod	el search.									
Search By Altered Gene(s)	0	Models By	Primary Site		Has Mu	itiple Models			2D Versus 3D Growth			Most Frequently Mu	tated Genes
e.g. BRAF, EWSR,			M								192 9		
Search By Research Somatic Varia	nt		40								els affec	_	
e.g. BRAF V600E, IDH1 R132H,			Fotal								# mode		
Primary Site	Q									-	C. TRS	The tras the sine	RAL OUS CALLAR
Eolon	118										<u></u>		
Pancreas	93	howing 1 - 20 of 588 models								9 🗨	Exclude 272 une		
sophagus		Name	Primary Site	Clinical Tumor Diagnosis	Tissue Status	Age At Acquisition	Age At Diagnosis (Years)	Has Multiple 💮 Models	Expansion Status	# Mutated Conce	Somatic	Variants	Histo-Pathological Biomarkers
Irain 5 More	60					(Years)	(1111)				Variants		
		HCM-WCMC-0751-C54	Endometrium	Endometrial cancer	Primary	55	54	No	UNEXPANDED	0	0	0	1
esearch Somatic Variant Type	<u>م</u>	HCM-WCMC-0753-C54	Endometrium	Endometrial cancer	Primary	53	53	No	UNEXPANDED	0	0	0	4
lissense Mutation		HCM-WCMC-0675-C67	Bladder	Rare cancers	Recurrent	87	76	No	UNEXPANDED	0	0	0	0
lent		HCM-WCMC-0752-C54	Endometrium	Endometrial cancer	Primary	61	60	No	UNEXPANDED	0	0	0	6
onsense Mutation		HCM-WCMC-0785-C67	Bladder	Rare cancers	Primary	57	57	No	UNEXPANDED	0	0	0	2
More	258	HCM-CSHL-0159-C18	Colon	Colorectal cancer	Primary	61	61	No	UNEXPANDED	0	0	0	6
		HCM-CSHL-0373-C25	Pancreas	Pancreatic cancer	Primary	71	71	No	UNEXPANDED	0	0	0	0
onsequence	Q	HCM-CSHL-0380-C18	Colon	Colorectal cancer	Primary	69	69	No	UNEXPANDED	1	0	1	5
issense Variant	286	HCM-CSHL-0618-C18	Colon	Colorectal cancer	Metastasis	85	84	No	UNEXPANDED	0	0	0	0
nonymous Variant	286	HCM-CSHL-0078-C25-C	Pancreas	Pancreatic cancer	Pre-malignant	72	72	Yes (3)	UNEXPANDED	0	0	0	0
ameshift Variant		HCM-CSHL-0186-C25	Pancreas	Pancreatic cancer	Primary	74	74	No	UNEXPANDED	0	0	0	0
op Gained	273	HCM-CSHL-0318-C18	Rectosigmoid junction	Colorectal cancer	Primary	52	51	No	UNEXPANDED	0	0	0	0
More		HCM-CSHL-0374-C25	Pancreas	Pancreatic cancer	Primary	74	74	No	UNEXPANDED	0	0	0	0
odel Type	Q	HCM-CSHL-0383-C18	Colon	Colorectal cancer	Primary	51	51	No	UNEXPANDED	0	0	0	6
D: Organoid	451	HCM-CSHL-0440-C50	Breast	Breast cancer	Primary	49		No	UNEXPANDED	0	0	0	2
D: Adherent	92	HCM-CSHL-0621-C18	Colon	Colorectal cancer	Metastasis	77	72	No	UNEXPANDED	0	0	0	0
D: Other (e.g. neurosphere, air-liquid rerface, etc.)	-	HCM-CSHL-0187-C25	Pancreas	Pancreatic cancer	Primary	67	67	No	UNEXPANDED	0	0	0	0
terface, etc.) D: Conditionally reprogrammed cells		HCM-CSHL-0319-C50	Breast	Breast cancer	Primary	54		No	UNEXPANDED	0	0	0	1
fore		HCM-CSHL-0378-C18	Colon	Colorectal cancer	Recurrent	49	49	No	UNEXPANDED	1	0	1	6
as Multiple Models	0	HCM-CSHL-0385-C18	Colon	Colorectal cancer	Primary	82	82	No	UNEXPANDED	0	0	0	6

The default model view shows the models that are expanded and available at the HCMI model distributor. To view the models that are not yet expanded, users can toggle on the "Include ## unexpanded models" in box (9). To view a specific unexpanded model, users can select one of the model names within the main viewing pane (10).

odel: HCM-	WCMC-0	751-C54 🔍		1						< BACK TO SEAF	ADD MODEL TO MY LIST	VIEW L
							Previous Model 269 of 588 Next >					
MODEL DETAILS					0	PATIENT DETAILS		0				
Model Type	3-D: Organ	old				Tissue Status	Primary				sequencing validation quality control	n, 🏉
plit Ratio	N/A					Gender	Female		but is not yet available for	purchase.		
ime to Split	N/A					Race	Unknown					ATC
oubling Time	N/A					Age At Diagnosis (Years)	54		If you would like to have	this model prioritized for dev	elopment:	
issue Status	Primary					Age At Acquisition (Years)						1
						Disease Status	No evidence of disease		S VISIT ATCC TO EXPRESS	INTEREST		1.00
MULTIPLE MODELS	FROM THIS PA	TIENT (0)				Vital Status	Alive					
NOLTH LE MODELS		112111 (0)			0	Neoadjuvant Therapy	No		MODEL IMAGES (0)			
		0				Therapy	Surgery					
	There an	e no other models from t	his patient.			Chemotherapeutic Drug List Available	No			No images ava	ilable.	
AVAILABLE MOLEC		TRITATIONIC (A)				Clinical Tumor Diagnosis	Endometrial cancer					
AVAILABLE MOLEC	ULAR CHARACI	ERIZATIONS (0)			0	Histological Subtype	Endometrioid carcinoma with secretory differentiation		REPOSITORY STATUS			
		Model	Tumor	Normal		Primary Site	Endometrium		Date Updated	May 03, 2024		
GS		×	×	×		Acquisition Site	Endometrium		Date Created	April 04, 2023		
						TNM Stage	T1aN0MX		Date created	April 04, 2025		
xs		×	×	×		Clinical Stage Grouping	Stage IA					
NA-seq		×	×	×		Histological Grade	G3					
NA Methylation		×	×	×								
VARIANTS												
esearch Somatic Variar	nts Histopa	thological Biomarkers a	are identified through	clinical histopatholog	testing	procedures as reported in the case	report forms.					
Clinical Variants	Showing 1	- 1 of 1 Variants									Q Filter	<u>+</u> T
istopathological	Name			Genes			Assessment Type	Expression	Level	Frequency		
lomarkers	p53			p53			IHC	Normal		2 1	1.53%	
	4											
							< Previous Model 269 of 588 Next >					

When viewing an individual model page of an unexpanded model, the expansion status is marked next to the model name as in box (11). If you are interested in a particular unexpanded model, users can click on the "VISIT ATCC TO EXPRESS INTEREST" button (12).

V3.0 Last updated December 10, 2024 *Navigating Individual Model Pages*

odel: HCM-C											
MODEL DETAILS					PATIENT DETAILS	Previous Model 16 of 47 Next >		MODEL IMAGES (2)			
				0			0	mobel mindes (2)	and the second second second	Contraction in the local division of the loc	
Model Type	3-D: Organoid N/A				Tissue Status Gender	Metastasis Female				A CARL	
Split Ratio Time to Split	N/A N/A				Race	White			A COMPANY	and the second	
Doubling Time	N/A				Age At Diagnosis (Years)	76					
Tissue Status	Metastasis				Age At Acquisition (Years)			<		and the second second	
					Disease Status	Stable disease			a ser la ser	and the second sec	
MULTIPLE MODELS F	FROM THIS PATIENT (1)			0	Vital Status Neoadiuvant Therapy	Alive		2	11月,11月2日	and the second	
HCM-CSHL-0247-C18-F Tissue Status: Primary					Therapy	 Surgery Cytotoxic chemotherapy Targeted therapy (small molecule inhib targeted antibodies) 	bitors and	0	ATCC Scale-bar length: 1000 µ	PDM-277" m Magnification: 4 x	
AVAILABLE MOLECUI	ILAR CHARACTERIZATIONS (1	0)		0	Chemotherapeutic Drug	Yes					
	Model	Tumor	Normal		List Available			REPOSITORY STATUS			
WGS	0	0	0		Clinical Tumor Diagnosis	Colorectal cancer Adenocarcinoma		Date Updated	July 23, 2024		
wxs	0	0	0		Histological Subtype Primary Site	Adenocarcinoma		Date Of Availability	June 30, 2021		
RNA-seq	0	0	×		Acquisition Site	Lymph node(s)		Licensing Required For Commercial Use	Yes		
DNA Methylation	0	0	×		TNM Stage	T3N2aM1a		Date Created	July 06, 2021		
and methylation	•	•	-		Clinical Stage Grouping	Stage IVA					
					Histological Grade	62		EXTERNAL RESOURC	ES		
								SEQUENCING FILES	CO CASE METADATA		
	Research Somatic Varian	te are imported fr	om GDC and are in	dentified f	rom filterard onon-access MADs	Controlled across data at GDC rom area dbCaB ao	porroual: see GDC for details	₩ VISIT PDM-277 TO PUR	And the second se		
lesearch Somatic Variant	Research Somatic Varian Showing 1 - 20 of 216 Varian		om GDC and are in	dentified fr	rom filtered, open-access MAFs. I	Controlled-access data at GDC requires dbGaP ap	oproval; <u>see GDC</u> for details.		And the second se	Q, Filter	
Research Somatic Variant				dentified fr	AA Change	Controlled-access data at GDC requires dbGaP ap Transcript	oproval; <u>see GDC</u> for details.		And the second se	Q Filter Type	
lesearch Somatic Variant	Showing 1 - 20 of 216 Variant	5	e	dentified fr		Transcript ENST00000308271		W VISIT PDM-277 TO PUP	And the second se	Q Filter	
Research Somatic Variant	Showing 1 - 20 of 216 Variant Variant chr1:g.21701545T>C chr1:g.40091396C>T	s Gen	e 48	dentified fr	AA Change K894E R121=	Transcript ENST00000308271 ENST00000433473	Consequence	W VISIT PDM-277 TO PUP Class SNV t SNV	And the second se	Q Filter Type	
Research Somatic Variant	Showing 1 - 20 of 216 Variant Variant chr1:g.21701545T>C chr1:g.40091396C>T chr1:g.111456731C>A	s Gen USP PPT: ATP:	e 48 L 5PB	dentified fr	AA Change K894E R121= R163=	Transcript ENST00000308271 ENST00000433473 ENST00000369722	Consequence Missense Variant Synonymous Varian Synonymous Varian	T VISIT PDM-277 TO PUP	And the second se	C Filter Type SNP SNP SNP SNP	
Research Somatic Variant	Showing 1 - 20 of 216 Variant Variant chr1:g.21701545T>C chr1:g.4091396C>T chr1:g.111456731C>A chr1:g.121177307T>C	s Gen USP PPT ATP EAM	e 48 1 5PB 72B	dentified fr	AA Change K894E R121= R163= IB6V	Transcript ENST00000308271 ENST00000438473 ENST0000089722 ENST00000369390	Consequence Missense Variant Synonymous Varian Synonymous Varian Missense Variant	t VISIT PDM-227 TO PUR Class SNV t SNV t SNV SNV	And the second se	Q. Filter Type SNP SNP SNP SNP SNP	
lesearch Somatic Variant	Showing 1 - 20 of 216 Variant Variant chr1:g.21701545T>C chr1:g.110156731C>A chr1:g.11456731C>A chr1:g.12177307T>C chr1:g.122353150G>T	s Gen PPT: ATP: EAM ELG:	e 48 1 59B 72B 2	dentified fr	AA Change K894E R121= R163= I86V Q1546K	Transcript ENST000003308271 ENST00000433473 ENST00000390722 ENST00000309300 ENST00000388718	Consequence Missense Variant Synonymous Varian Synonymous Varian Missense Variant Missense Variant	The visit PDM-277 TO PUP The visit PDM-277 TO PUP Class SNV t SNV SNV SNV	And the second se	Q. Filter Type SNP SNP SNP SNP SNP	
lesearch Somatic Variant	Showing 1 - 20 of 216 Variant Variant chr1:g.21701545T>C chr1:g.40091396C>T chr1:g.111456731C>A chr1:g.121177307T>C chr1:g.15233150G>T chr1:g.15233150G>T	s Gen USP PPT ATP EAM ELG MNE	e 48 1 5PB 728 2 2 2 2 2	dentified fr	AA Change K894E R121= R163= I86V Q1546K P114S	Transcript ENST0000308271 ENST0000369722 ENST0000369722 ENST00000369718 ENST00000368118	Consequence Missense Variant Synonymous Varian Missense Variant Missense Variant Missense Variant	t VISIT PDM-227 TO PUR Class SNV t SNV t SNV SNV SNV	And the second se	C Filter Type SNP SNP SNP SNP SNP SNP SNP	
lesearch Somatic Variant	Showing 1 - 20 of 216 Variant Variant chr1:g.21701545T>C chr1:g.111465731C-A chr1:g.111465731C-A chr1:g.121177307T>C chr1:g.15843353Co-T chr1:g.15843353Co-T chr1:g.170726226T>A	s USP PPT ATP FAM ELG MNI PRR	e 48 1 5998 7228 2 2 2 2 2 2 4 1	dentified fr	AA Change K894E R121= R163= IB6V Q1546K P1145 F142I	Transcript ENST00000308271 ENST00000433473 ENST00000369722 ENST00000369390 ENST00000388718 ENST00000388141 ENST0000023461	Consequence Missense Variant Synonymous Varian Synonymous Varian Missense Variant Missense Variant Missense Variant	t VISIT PDM-227 TO PUR Class Class Class SNV Class SNV SNV SNV SNV SNV	And the second se	C, Filter Type SNP SNP SNP SNP SNP SNP SNP SNP	
lesearch Somatic Variant	Showing 1 - 20 of 216 Variant Variant chr1:g.21701545T>C chr1:g.40091396C>T chr1:g.111456731C>A chr1:g.12177307T>C chr1:g.152353150G>T chr1:g.152353150G>T chr1:g.158243383C>T chr1:g.182814818C>T	s USP ATP: EAM ELG PRR: NPL	e 48 1 5998 7228 2 2 2 2 2 4 4 1	dentified fr	AA Change K894E R121= R163= 186V Q1546K P1145 F1421 1108=	Transcript ENST00000308,271 ENST00000433473 ENST00000569722 ENST0000369390 ENST0000388141 ENST00000238461 ENST0000023461	Consequence Missense Variant Synonymous Varian Missense Variant Missense Variant Missense Variant Missense Variant Synonymous Varian	t VISIT PDM-227 TO PUR Class SNV t SNV SNV SNV SNV SNV t SNV t SNV	And the second se	Q. Filter Type SNP SNP SNP SNP SNP SNP SNP SNP	
lesearch Somatic Variant	Showing 1 - 20 of 216 Variant Variant chr1;g,21701545T>C chr1;g,21701545T>C chr1;g,12107307T>C chr1;g,12117307T>C chr1;g,1523531506-T chr1;g,1523531506-T chr1;g,1523531506-T chr1;g,1523531507-T chr1;g,1524431820-T chr1;g,1851002786-A	s Gen USP PPT ATP FAM ELG PRR NPL RNE	e 48 1 59 6 7 2 8 2 2 2 2 2	dentified fr	AA Change K894E R121= R163= IB6V Q1546K P114S F1421 I108= A330T	Transcript ENST0000308271 ENST0000369722 ENST0000369722 ENST0000369718 ENST000003681141 ENST0000025817 ENST0000025817	Consequence Missense Variant Synonymous Varian Missense Variant Missense Variant Missense Variant Synonymous Variant Missense Variant	T VISIT PDM-227 TO PUR Class SNV Class SNV SNV SNV SNV SNV SNV SNV SNV	And the second se	C Filter Type SNP SNP SNP SNP SNP SNP SNP SNP	
lesearch Somatic Variant	Showing 1 - 20 of 216 Variant Variant chr1:g.21701545T>C chr1:g.11456731C-A chr1:g.111456731C-A chr1:g.111456731C-A chr1:g.15283350G-T chr1:g.152834581657 chr1:g.170726226T>A chr1:g.182814581657 chr1:g.18200278G>A chr2:g.1922953G>A	s Gen USP PPT: ATP: FAM ELG PRR PRR NPL RNFL RNFL MYT	e 48 599 728 2 2 2 2 2 2 2 2 11	dentified fr	AA Change K894E R121= R163= 186V Q1546K P1145 F1421 1108= A330T H272=	Transcript ENST00000438473 ENST00000439473 ENST00000369722 ENST00000389718 ENST00000388141 ENST0000028141 ENST0000025817 ENST0000025817 ENST0000037510	Consequence Missense Variant Synonymous Varian Missense Variant Missense Variant Missense Variant Synonymous Variant Synonymous Variant	Class SNV c SNV	And the second se	C Filter Type SNP SNP SNP SNP SNP SNP SNP SNP	
lesearch Somatic Variant	Showing 1 - 20 of 216 Variant Variant chr1:g.21701545T>C chr1:g.40091396C>T chr1:g.111456731C>A chr1:g.1217307T>C chr1:g.1523531506>T chr1:g.170726226T>A chr1:g.182814818C>T chr1:g.182814818C>T chr1:g.182814818C>T chr1:g.1829536>A chr2:g.19229536>A	s Gen USP PPT: ATP: FAM FLG: NPL RNF RNF RNF NPL RNF HPC	e 48 59 59 59 728 2 2 2 2 2 2 2 2 2 1 1 4 1 1	dentified fr	AA Change K894E R121= R163= IB6V O1546K P1145 F1421 I108= A330T H272= R9Q	Transcript ENST00000308271 ENST00000433473 ENST00000369722 ENST00000369720 ENST00000369730 ENST00000389718 ENST0000038718 ENST0000038741 ENST0000037845 ENST00000307845	Consequence Missense Variant Synonymous Varian Missense Variant Missense Variant Missense Variant Missense Variant Synonymous Varian Missense Variant	Class SNV c SNV c SNV c SNV s SNV	And the second se	C Filter Type SNP SNP SNP SNP SNP SNP SNP SNP	
lesearch Somatic Variant	Showing 1 - 20 of 216 Variant Variant chr1;g.21701545T>C chr1;g.40091396C>T chr1;g.1177307T>C chr1;g.122353150G>T chr1;g.152353150G>T chr1;g.152353150G>T chr1;g.182814818C>T chr1;g.182814818C>T chr1;g.182814818C>T chr1;g.182810278G>A ch2;g.1922553G>A ch2;g.21060680C>A	s Gen USP ATP ELG MNI PRE NPL RNE NPL RNE APO	e 48 5PB 728 2 2 2 2 4 1 4 1 4 1 8	dentified f	AA Change K894E R121= R163= I86V Q1546K P1145 F1421 I108= A330T H272= R270 M3596I	Transcript ENST00000433473 ENST00000433473 ENST00000433473 ENST0000059722 ENST0000039900 ENST00000388118 ENST0000028411 ENST0000028417 ENST0000039745 ENST0000039745 ENST0000023342	Consequence Missense Variant Synonymous Variant Missense Variant Missense Variant Missense Variant Synonymous Variant Missense Variant Missense Variant Missense Variant	Class SNV	And the second se	Type SNP SNP SNP	
lesearch Somatic Variant	Showing 1 - 20 of 216 Variant Variant chr1:g.21701545T>C chr1:g.111465731CA chr1:g.111465731CA chr1:g.111465731CA chr1:g.152833150G-T chr1:g.152814581657 chr1:g.152814581657 chr1:g.152814581657 chr2:g.1922953G>A chr2:g.228776850G>T	s Ger PPT ATP ELG ELG NNI PRR NNI NNI NPL NPL NPL PRR NT HPC ACC PPP PPP	e 48 590 590 7228 2 2 2 2 1 1 1 1 1 4 1 8 8 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	dentified fr	AA Change K894E R121= R163= 186V Q1546K P1145 F1421 108= A330T H272= R9Q M35961 E76*	Transcript ENST00000438473 ENST00000438473 ENST0000369722 ENST000036972 ENST0000369390 ENST000036814 ENST0000028817 ENST00000258817 ENST0000025817 ENST0000025817 ENST0000025817 ENST0000037510 ENST0000037845 ENST0000037842 ENST00000296122	Consequence Missense Variant Synonymous Varian Missense Variant Missense Variant Missense Variant Synonymous Varian Missense Variant Synonymous Varian Missense Variant Missense Variant Stop Gained	Class SNV c SNV	And the second se	C Filter Type SNP SNP SNP SNP SNP SNP SNP SNP	
Research Somatic Variant	Showing 1 - 20 of 216 Variant Variant chr1:g.21701545T>C chr1:g.11456731CA chr1:g.11456731CA chr1:g.12117307T>C chr1:g.11456731CA chr1:g.12117307T>C chr1:g.152843353C>T chr1:g.15705226T>A chr1:g.182814818C>T chr1:g.182814818C>T chr1:g.182924936C>A chr2:g.1922953G>A chr2:g.28278850C>T chr2:g.28778850C>T chr2:g.28778850C>A	s Gen USE PPT ATP FAM FLGG MNS PRR PRR PRR PRR MNT HPC PPPP GAU	e 88 19 99 99 92 22 24 24 24 11 11 14 11 14 11 14 11 14 14 14 14 14	dentified f	AA Change K894E R121= R103= B6V Q1546K P1145 F1421 1108= A300F H272= R9Q M35961 E76* N529=	Transcript ENST00000308271 ENST00000433473 ENST00000433473 ENST00000369722 ENST0000038910 ENST0000023841 ENST0000023841 ENST0000023841 ENST0000023841 ENST0000023841 ENST0000023841 ENST0000023841 ENST0000023841 ENST0000023842 ENST0000023342 ENST0000023422 ENST000002349122 ENST000002349752	Consequence Missense Variant Synonymous Varian Missense Variant Missense Variant Missense Variant Synonymous Varian Missense Variant Synonymous Varian Missense Variant Stop Gained Synonymous Varian	Class SNV t SNV t SNV	And the second se	C Filter Type SNP SNP SNP SNP SNP SNP SNP SNP) (± 19
Research Somatic Variant	Showing 1 - 20 of 216 Variant Variant chr1:g.21701545T>C chr1:g.40091396C>T chr1:g.1127307T>C chr1:g.1127307T>C chr1:g.1523531506>T chr1:g.1523531506>T chr1:g.182814818C>T chr1:g.182814818C>T chr1:g.182814818C>T chr1:g.182814818C>T chr1:g.182814918783C>A chr2:g.10119783C>A chr2:g.2309109786>A chr2:g.2309109736>A chr2:g.2309109736>A chr2:g.309109736>A	s Gen USP PPT EAM FLGG PPT FLG PPT NMT NPL NPL NPL NPL PPT CALL PPT GALL FAM	e 848 10 10 10 10 10 10 10 10 10 10 10 10 10	dentified fa	AA Change K894E R121= R163= 186V Q1546K P1145 F1421 108= A330T H272= R9Q M35961 E76*	Transcript ENST00000308,271 ENST00000433473 ENST00000433473 ENST0000039090 ENST0000389390 ENST00000389141 ENST0000038117 ENST00000367510 ENST00000367510 ENST0000037645 ENST0000023342 ENST0000023342 ENST00000295122 ENST0000029512 ENST0000049594	Consequence Missense Variant Synonymous Variant Missense Variant Missense Variant Missense Variant Synonymous Variant Missense Variant Missense Variant Missense Variant Missense Variant Synonymous Varian Synonymous Variant	Class SNV	And the second se	Type SNP SNP SNP	
VARIANTS Itesearch Somatic Variant Clinical Variants Histopathological Biomarkers	Showing 1 - 20 of 216 Variant Variant chr1:g.21701545T>C chr1:g.21701545T>C chr1:g.111456731C-A chr1:g.111456731C-A chr1:g.152833150G>T chr1:g.152814581657 chr1:g.152814581657 chr1:g.152814581657 chr2:g.1922953G>A chr2:g.1922953G>A chr2:g.28778850G>T chr2:g.28778850G>T chr2:g.2937033G>A chr2:g.2937033G>A chr2:g.29357033G>A	s Gen USE PPT EAM ELG ELG ELG ELG ELG ELG ELG MNT HPC ELG ELG ELG ELG ELG ELG ELG ELG ELG ELG	e 48 59 59 59 59 59 59 50 50 50 50 50 50 50 50 50 50	dentified fr	AA Change K894E R121= R163= 186V Q1546K P1145 F1421 108= A330T H272= R9Q M35061 E76* N529= Y30=	Transcript ENST00000438473 ENST00000438473 ENST0000369722 ENST0000369722 ENST000038978 ENST000038978 ENST0000038114 ENST00000239461 ENST0000037810 ENST0000037510 ENST0000037510 ENST0000037452 ENST0000037452 ENST0000037452 ENST0000039752 ENST0000049752 ENST0000049752 ENST0000049584 ENST0000029584 ENST0000027433	Consequence Missense Variant Synonymous Varian Missense Variant Missense Variant Missense Variant Synonymous Varian Missense Variant Synonymous Varian Missense Variant Stop Gained Synonymous Varian Synonymous Varian Synonymous Varian	Class SNV	And the second se	C Filter Type SNP SNP SNP SNP SNP SNP SNP SNP	
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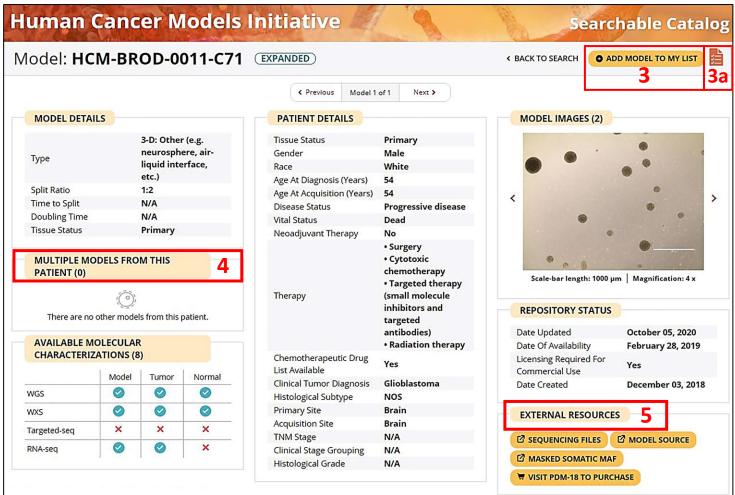
How do I navigate from one individual model page to the next?

To view an individual model page, users can select one of the models listed within the main viewing table by clicking on the model's name. In box (1), users can navigate to the previous or next individual model pages within the filtered list by clicking on the left/right arrows at the top or bottom of the page.

To return to the search results, users can select the "Back to Search" button located at the top of the page (2).

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Viewing Individual Model Data



How do I save models of interest?

While viewing individual model pages, models can be saved under "My Model List" by clicking • ADD MODEL TO MY LIST (3). To view and download the saved models and their Catalog data, click the "My Model List" icon (3a) and click (± TSV (ALL COLUMNS)).

What information are available on individual model pages?

On each individual model page, all available data elements such as "MODEL DETAILS", "PATIENT DETAILS", and "MODEL IMAGES" are described.

What information do additional categories include?

"MULTIPLE MODELS FROM THIS PATIENT" (4) indicates whether there are other models derived from independent tumors from the same patient (e.g. primary and metastasis, primary and pre-malignant, primary and recurrent, etc.).

"EXTERNAL RESOURCES" (5) contains links to available sequencing data at the GDC, corresponding model page at the GDC, models' masked somatic MAF data page, and the model distributor's page.

	VARIANTS	_						10
6	Research Somatic Variants	Showing 1 - 10 of 59 Va	ariants			9 (Q Filter	± TSV
	Clinical Variants 7	Variant	Gene	AA Change	Transcript	Consequence	Class	Туре
		chr1:g.2605576G>A	MMEL1	N266N	ENST00000378412	Synonymous Varian	SNV	SNP
	Histopathological Biomarkers	chr1:g.117075643C>	TTF2	D353D	ENST00000369466	Synonymous Varian	SNV	SNP

What information does the "VARIANTS" section contain?

The "VARIANTS" section contains available "Research Somatic Variants", "Clinical Variants", and "Histopathological Biomarkers" data tabs. The data columns within each tab can be sorted either in ascending or descending order by clicking on the column header of interest.

"Research Somatic Variants" tab (6) shows available <u>open-access masked somatic MAF variant</u> data at the GDC. As part of GDC's harmonization process, potential germline mutations are filtered from the variants identified by DNA sequencing of the model and normal tissues. These highly-filtered lists of somatic mutations without the germline variants are called "masked somatic mutations". The masked somatic mutations generated at GDC for each model are shown as "Research Somatic Variants" on the Searchable Catalog. Users may search the available models for gene mutations of interest. If omission of true-positive somatic mutations is a concern, it is recommended that users access the <u>controlled-access MAF files</u> housed at the GDC. Access to controlled-access data is granted through dbGaP. Visit the "Accessing HCMI Data" page for more information.

The "Clinical Variants" tab (7) shows available clinical variants reported from clinical sequencing of the tumor collected from the clinical record.

The "Histopathological Biomarkers" tab (8) shows the results of reported clinical histopathological biomarkers collected from the clinical record.

Can the "VARIANTS" data be queried or downloaded?

In box (9), users may filter the "VARIANTS" information on each tab by entering querying text (e.g. MSH6, TP53, etc.). Users may download the variant information by clicking the $\underbrace{*}^{\text{TSV}}$ icon (10).

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Additional Help, Feedback, and Bug Reporting



Who do I contact if I have questions?

For questions, users may visit the HCMI FAQs page by clicking the "Help" button at the bottom of the webpage.

How do I report a bug?

Users may provide feedback or report bugs directly to the Office of Cancer Genomics by emailing: <u>nciccgenomics@mail.nih.gov</u>_or by clicking "Contact Us" at the bottom of the Catalog webpage.