

CUSTOM QUERYING

A very powerful query tool developed by HCI Research Informatics that allows authorized users to create their own queries of data managed by HCI Research Informatics applications.

INTELLIGENT INTEGRATION

The tool understands connections between data, the user's permissions for that data, and pathways that connect the information in the various HCI Research Informatics applications.

DATA SOURCES

Fully integrated with multiple HCI applications and databases (CCR, RSR, Tumor Registry, Molecular Profiling, and CORE) for access to critical data from research and clinical systems.



The screenshot shows the iQ Integrated Query Tool interface. The top navigation bar includes 'iQ Integrated Query Tool' and 'CCR (WSI, Clinical)'. The main area displays a query titled 'Garrido-Laguna DDR mut - GI cancers v3'. The 'Criteria' section shows a search for CCR MP Patients meeting specific molecular profiling and submission criteria. The 'Columns to Display' section lists various fields like Shadow ID, Age, and Submitted Diagnosis. The 'Results (422)' table below shows a list of patient records with columns for Row, Shadow ID, Age, Deceased?, Submitted Diagnosis, Tissue of Origin, Specimen Site, Gene, Other Gene, Variant Type, Variant Name, and Is Variant of Origin.

Row	Shadow ID	Age	Deceased?	Submitted Diagnosis	Tissue of Origin	Specimen Site	Gene	Other Gene	Variant Type	Variant Name	Is Variant of Origin
1	91062	80	Yes	Colon adenocarcinoma (CRC)	Liver	Liver	BRCA2		Short Variant	S384F	True
2	128399	61	Yes	Colon adenocarcinoma (CRC)	Liver	Liver	BRCA1		Short Variant	E23fs*17	False
3	100573	66	No	Colon adenocarcinoma (CRC)	Liver	Liver	BRCA2		Copy Number Alteration	amplification	True
4	138078	68	Yes	Pancreas cancer (NOS)	Blood	Blood	FANCC		Short Variant	C10Y	True
5	122040	77	Yes	Stomach adenocarcinoma (NOS)	Stomach	Stomach	BRCA2		Short Variant	A2717S	True
6	28025	47	Yes	Appendix adenocarcinoma	Ovary	Ovary	FANCC		Short Variant	G340R	True
7	122236	82	Yes	Stomach neuroendocrine carcinoma	Liver	Liver	ATM		Short Variant	C10Y	True
8	122236	82	Yes	Stomach neuroendocrine carcinoma	Liver	Liver	ATM		Copy Number Alteration	loss exons 2-63	False
9	82321	70	Yes	Colon adenocarcinoma (CRC)	Colon	Colon	ATRX		Short Variant	E145K	True
10	82321	70	Yes	Colon adenocarcinoma (CRC)	Colon	Colon	CHEK2		Short Variant	R474C	True
11	49438	65	Yes	Gallbladder adenocarcinoma	Lung	Lung	FANCC		Copy Number Alteration	amplification	True
12	129078	71	Yes	Colon adenocarcinoma (CRC)	Colon	Colon	RADS1B		Short Variant	A295T	True
13	89462	60	Yes	Rectum adenocarcinoma (CRC)	Colon	Colon	BRCA2		Copy Number Alteration	amplification	True
14	89462	60	Yes	Rectum adenocarcinoma (CRC)	Colon	Colon	FANCA		Short Variant	V230I	True

The iQ application enables self-service data requests. It understands the connections between data, the user's permissions to that data, and pathways that connect the information in the various HCI Research Informatics software applications. The tool helps users visualize those pathways to explore data repositories and find the data they need.

Using iQ, researchers can create queries that span and bring together data from multiple systems and databases. Users can query for most data fields available from CORE, CCR, and RSR (including custom data elements), as well as the HCI Tumor Registry and Molecular Profiling.

Users can keep custom developed queries private or make them available to team members when a query might be useful to others. The iQ tool applies row level security and scrubbing at runtime based on the permissions of the user running the query, not the person who developed it.

Researchers can export query results from iQ in PDF, HTML, CSV, and Excel formats for further analysis.

The iQ tool works with the complex permissions models of the systems with which it interfaces to provide or restrict access to data as appropriate. It filters query results at the individual row and column level and scrubs them according to the user's permissions for that data.

REPORTING

Provides reporting capabilities for many HCI Research Informatics applications, including CCR, RSR, and CORE.

SECURITY

Keeps research data secure and HIPAA compliant. Query results are filtered at the row and column level and scrubbed according to the user's permissions for that data.

iQ Features

iQ is a very powerful and flexible query tool that allows authorized users to report on the data managed by HCI's research applications.

Custom Queries – The iQ tool facilitates self-service data requests. It understands the connections between data and users' permissions to that data. It also includes pathways that connect information from various systems, and it helps users visualize those pathways to explore data repositories and find the data they need.

Data Integration – User-created queries can span and bring together data from multiple systems and databases. Users can query for most data fields that are available in CORE, CCR, RSR (including any custom data elements), the HCI Tumor Registry, and Molecular Profiling.

Shared Queries – Users can keep custom queries private or make them available to team members when a query might be useful to others. Row level security and scrubbing are applied at runtime based on the permissions of the user running the query, not the person who developed it.

Results Export – Researchers can export query results from iQ in PDF, HTML, CSV, or Excel formats for further analysis.

Access Control – The iQ tool works with the complex permissions models of each application with which it interfaces to provide or restrict access to data as appropriate.

Interfaces

The iQ tool interfaces with the following applications and databases: CORE, CCR, RSR, Molecular Profiling, and the HCI Tumor Registry.

Requirements

- Google Chrome (latest)
- Microsoft Edge (latest)

Services Available

Training
Technical Support

