cBioPortal Tutorial #3: Patient View

Investigate individual patients or samples in detail

Last update: June 11, 2019

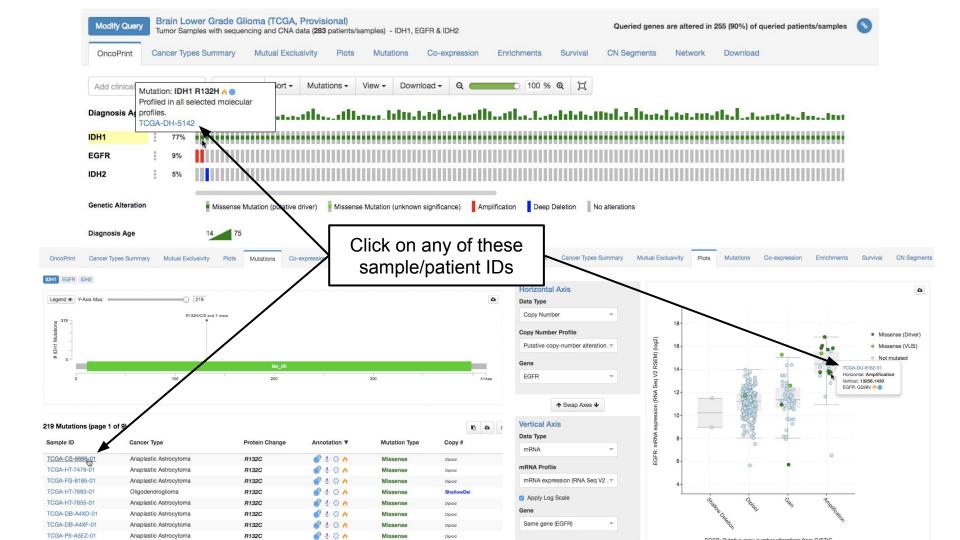
Tutorial Objectives

- Show different routes to get to patient view
- Walk through each of the possible tabs in patient view
 - Summary
 - Clinical Data
 - Pathology Report
 - Tissue Image
- Highlight the different types of information available in different studies
- Show an example of the insights that can be found from patient view

Option # 1 to get to patient view:

Anywhere you see a patient or sample ID, that ID is a link to patient view for that case.

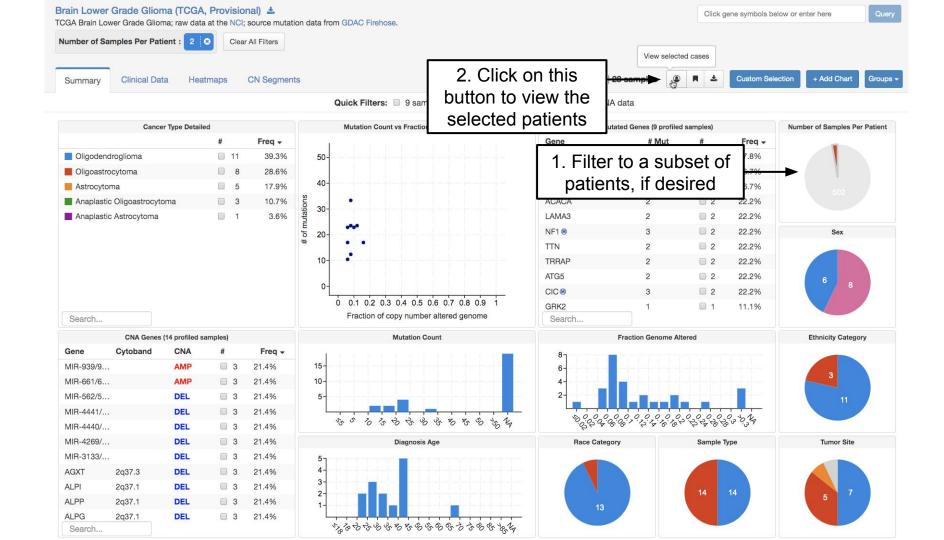
See next slide for examples.



Option #2 to get to patient view:

Use the study summary page to filter down to cases of interest. Then click the "view the selected patients" button.

See next slide for example.



No matter how you get to patient view, you will be taken to the summary tab.

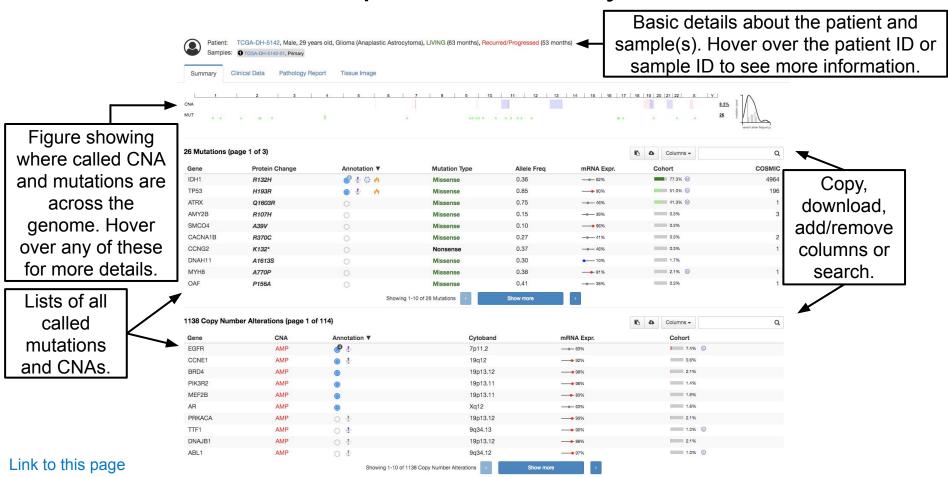
Depending on the study, the other tabs in patient view may or may not be present.

In this tutorial we will look at patient view in two different studies to highlight the different kinds of data that may be available.

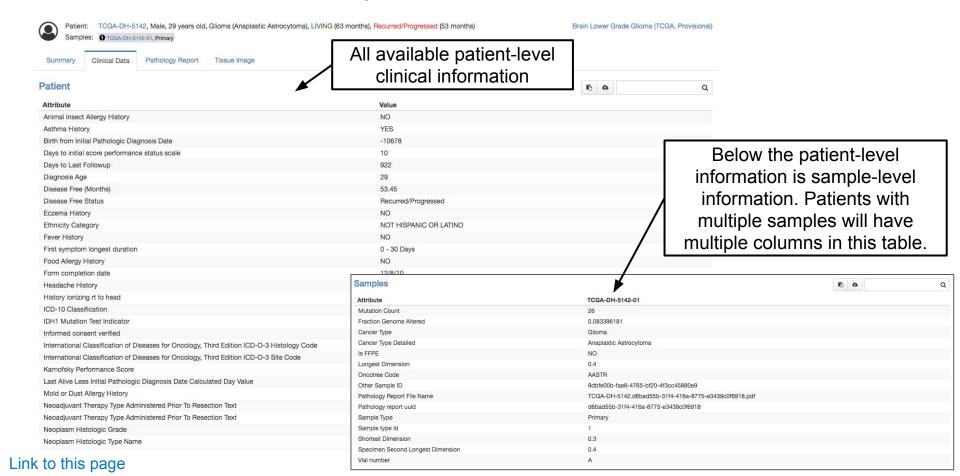
Example 1: Brain Lower Grade Glioma (TCGA, Provisional)



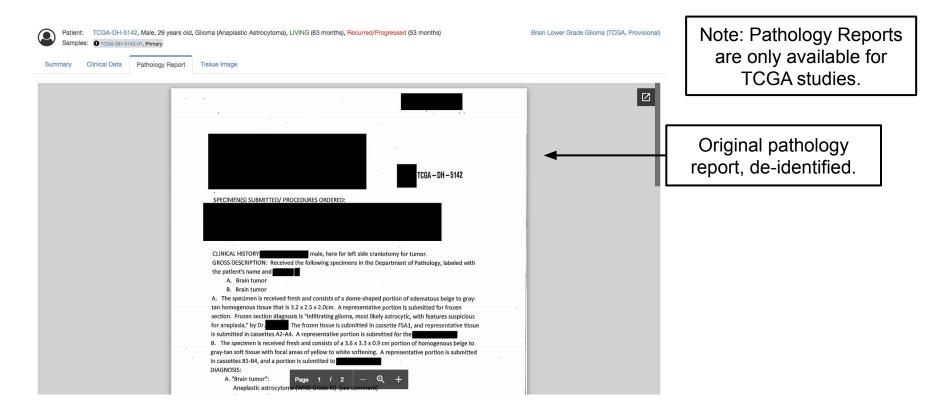
Patient View, Example 1: Summary



Patient View, Example 1: Clinical Data

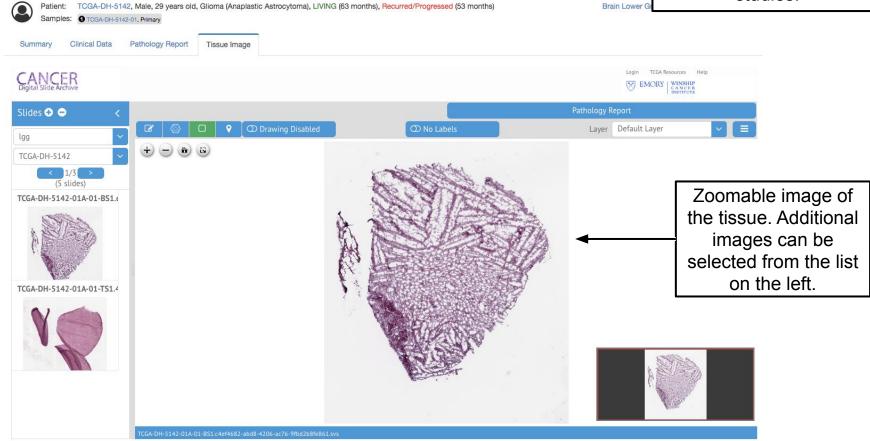


Patient View, Example 1: Pathology Report

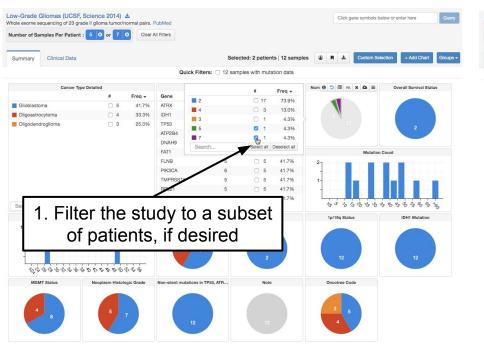


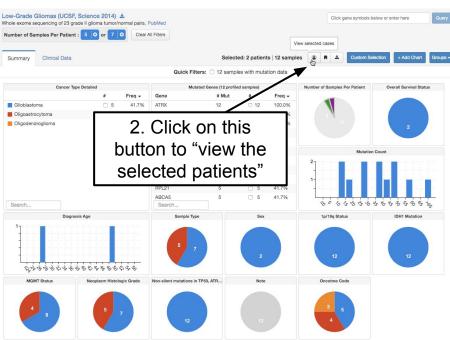
Patient View, Example 1: Tissue Images

Note: Tissue images are only available for TCGA studies.

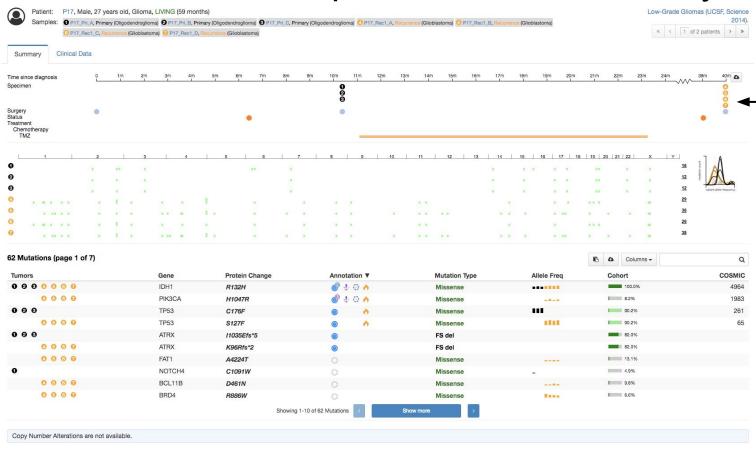


Example 2: Low-Grade Gliomas (UCSF, Science 2014)



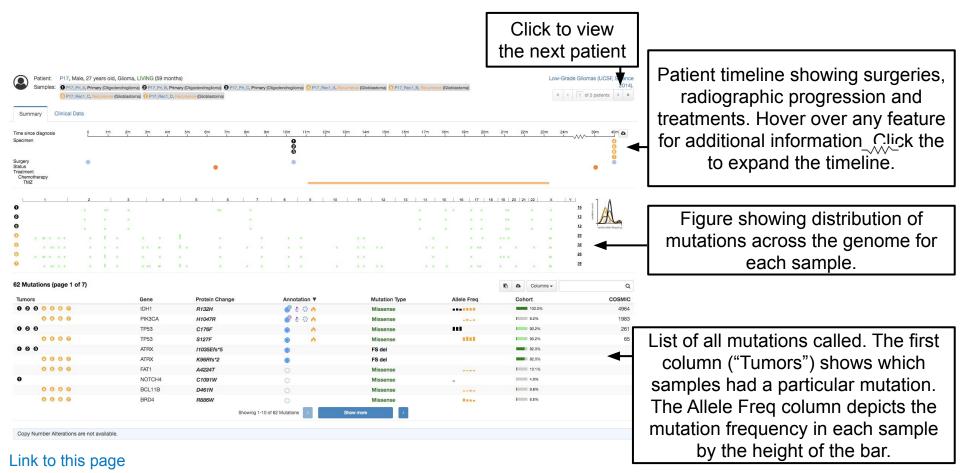


Patient View, Example 2: Patient Summary



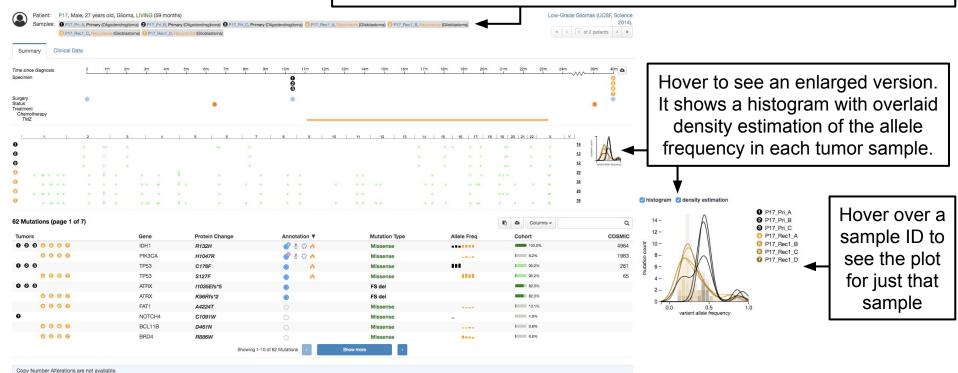
This study has multiple samples per patient and extensive clinical data to generate this enhanced patient timeline.

Patient View, Example 2: Patient Summary



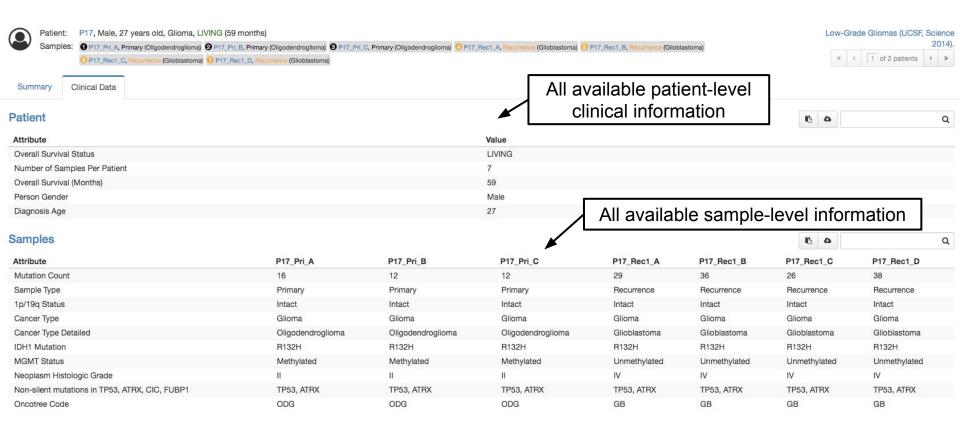
Patient View, Example 2: Patient Summary

List of all samples for this patient. Hover on a sample ID for more details or click to get to a sample summary page (we'll do this in a few slides)



Link to this page

Patient View, Example 2: Clinical Data



Link to this page

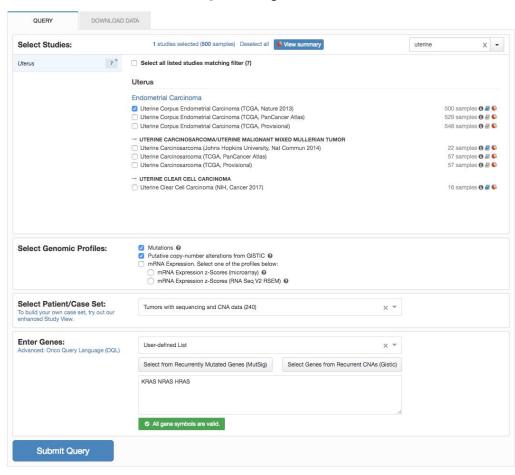
Patient View, Example 2: Sample Summary



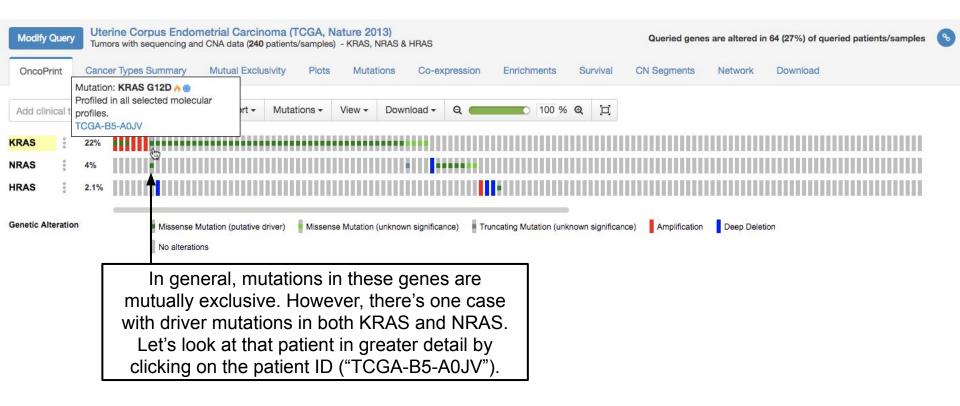
Ok, now that we've seen what data is present in Patient View, we can start asking some fun question!

Let's look at RAS mutations in Uterine Corpus Endometrial Carcinoma (TCGA, Nature 2013).

Example 3: Run the query



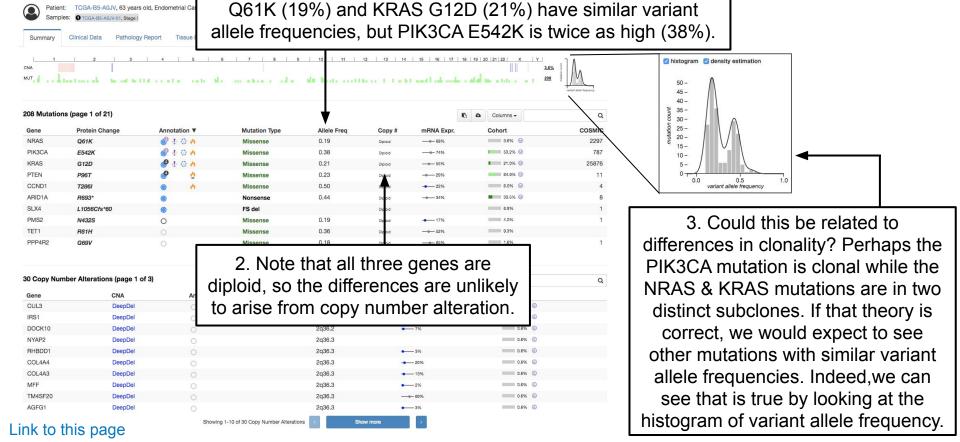
Example 3: OncoPrint



Link to this page

Example 3: Patient View

TCGA-B5-A0JV, 63 years old, Endometrial Ca



1. Look at the Allele Freq column for each mutation. NRAS

Summary of Example 3: Using Patient View, we can infer the clonality of mutations and understand how two mutations, which are usually mutually exclusive, can be present in the same tumor sample. In this case, the KRAS and NRAS mutations appear to be present in two distinct subclones of a single tumor.

or email us at:

Questions?

Check out our other tutorials

cbioportal@googlegroups.com