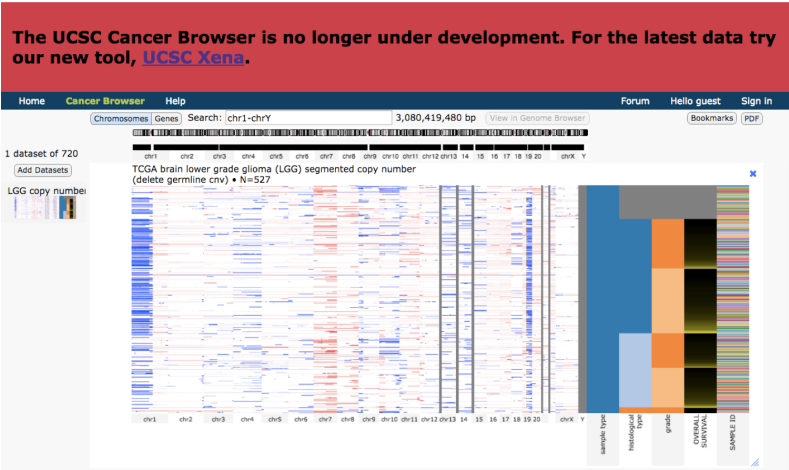
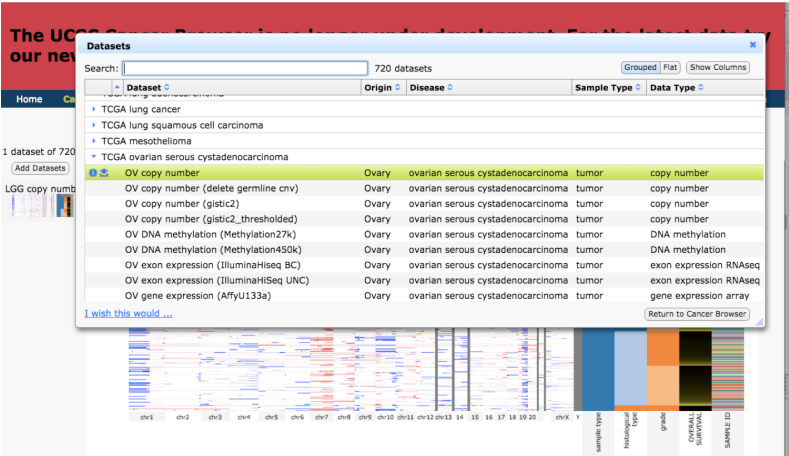


Exercise 1B: Explore and Compare Genetic Alterations ("Copy Number") in two Genes (ERBB2 and KRAS) in TCGA Ovarian Cancer Data set in the USCS Cancer Browser

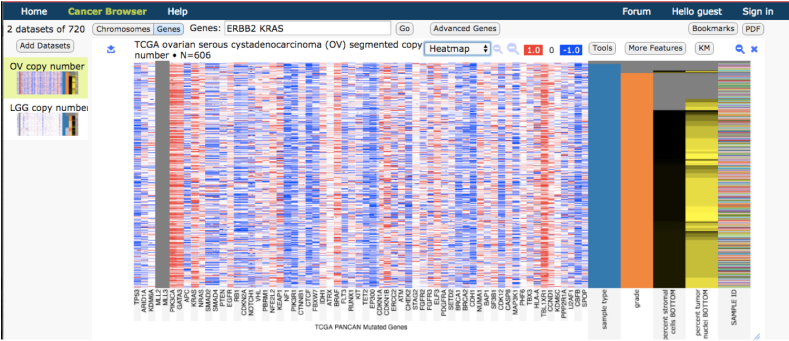
1. Go to the UCSC Cancer Browser at <https://genome-cancer.ucsc.edu/proj/site/hgHeatmap/>. Ignore the message in red at the top.



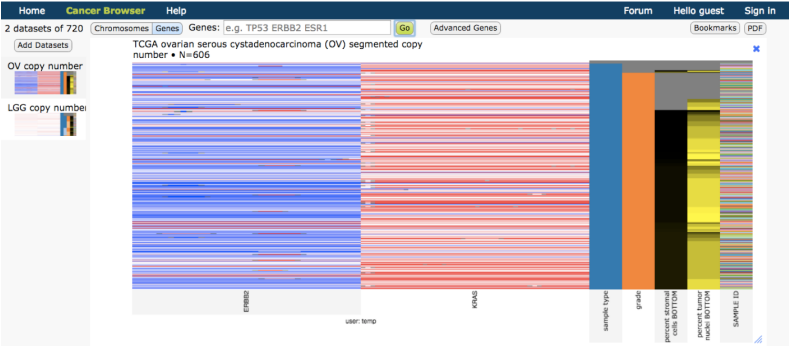
2. On the left panel, click on "Add Datasets."



3. Find the dataset named "TCGA ovarian serous cystadenocarcinoma."



4. Under this dataset, find "OV copy number" data that is available for 606 patients. Click on this dataset once; this will select the dataset and display it in the browser.



5. In the top center of the page (above the image of the dataset), you will see two tabs: "Chromosomes" and "Genes."

[no image]

6. Click on "Genes" and in the text box, enter: "ERBB2 KRAS." (Space is the delimiter between the two genes.)

[no image]

5. Click "Go." You should see one gene

whose copy number is mostly amplified [no image]
(red color) and the other gene that has
many deletions (blue color).