G-DOC *Plus* Introduction and Help

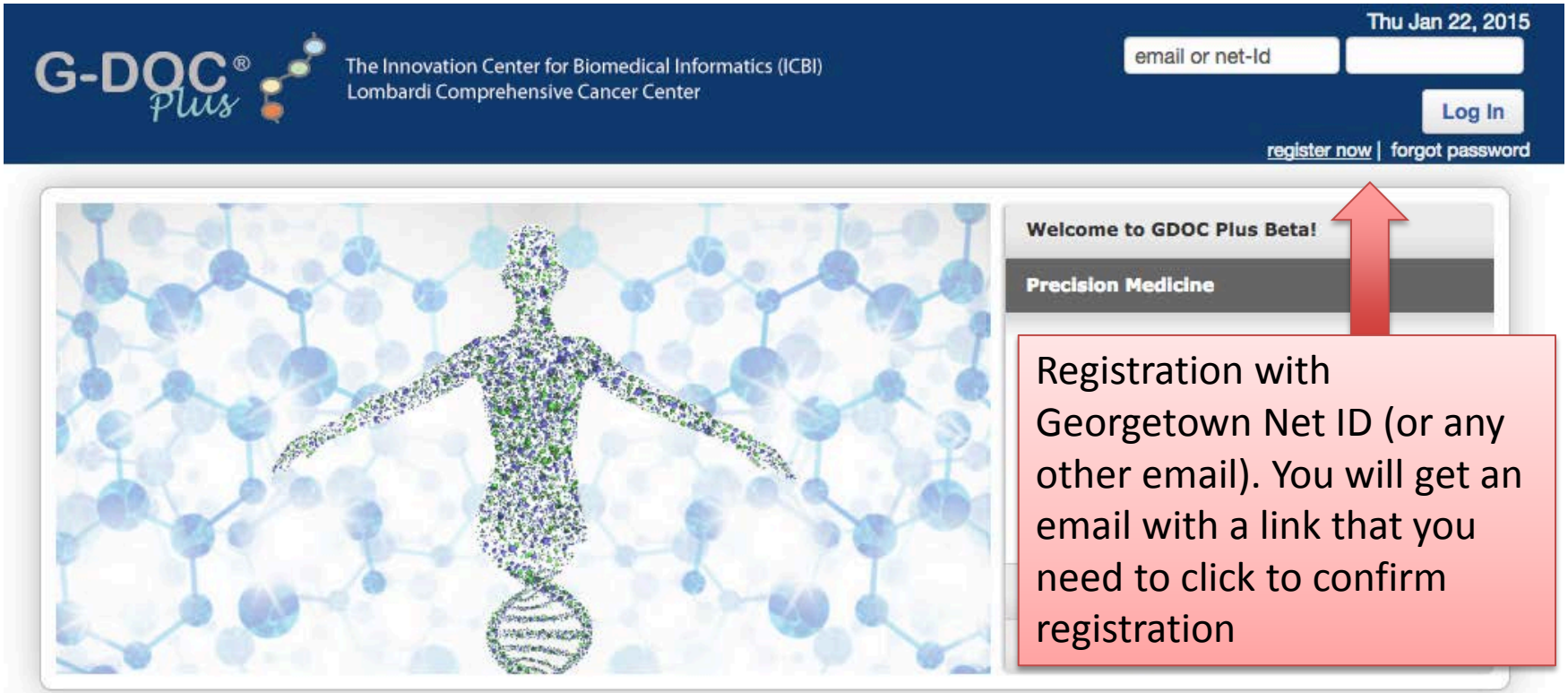
Innovation Center for Biomedical Informatics

Georgetown University

Overview

- Register
- Login
- Navigation
- How to create patient groups
- Group comparison
- Gene expression KM plot
- Clinical KM plot

Register as a First time user



Login

G-DOC® Plus

The Innovation Center for Biomedical Informatics (ICBI)
Lombardi Comprehensive Cancer Center

Thu Jan 22, 2015

kb472 ••••••••••••••

Log In

register now | forgot password

Welcome to GDOC Plus Beta!

The Georgetown Database of Cancer Plus other diseases (G-DOC Plus) is a precision medicine platform containing molecular and clinical data from thousands of patients and cell lines, along with tools for analysis and data visualization. The platform enables the integrative analysis of multiple data types to understand disease

Precision Medicine

Translational research

Population genetics

Understanding Data in G-DOC Plus

It all begins with a study...

All data in G-DOC Plus derives from studies on topics such as breast cancer, wound healing, or even 1,000 Genomes. Each study may contain clinical and/or biospecimen data. Below is an overview of studies by topic.

* private studies, ones which are uploaded and marked private, are not counted here

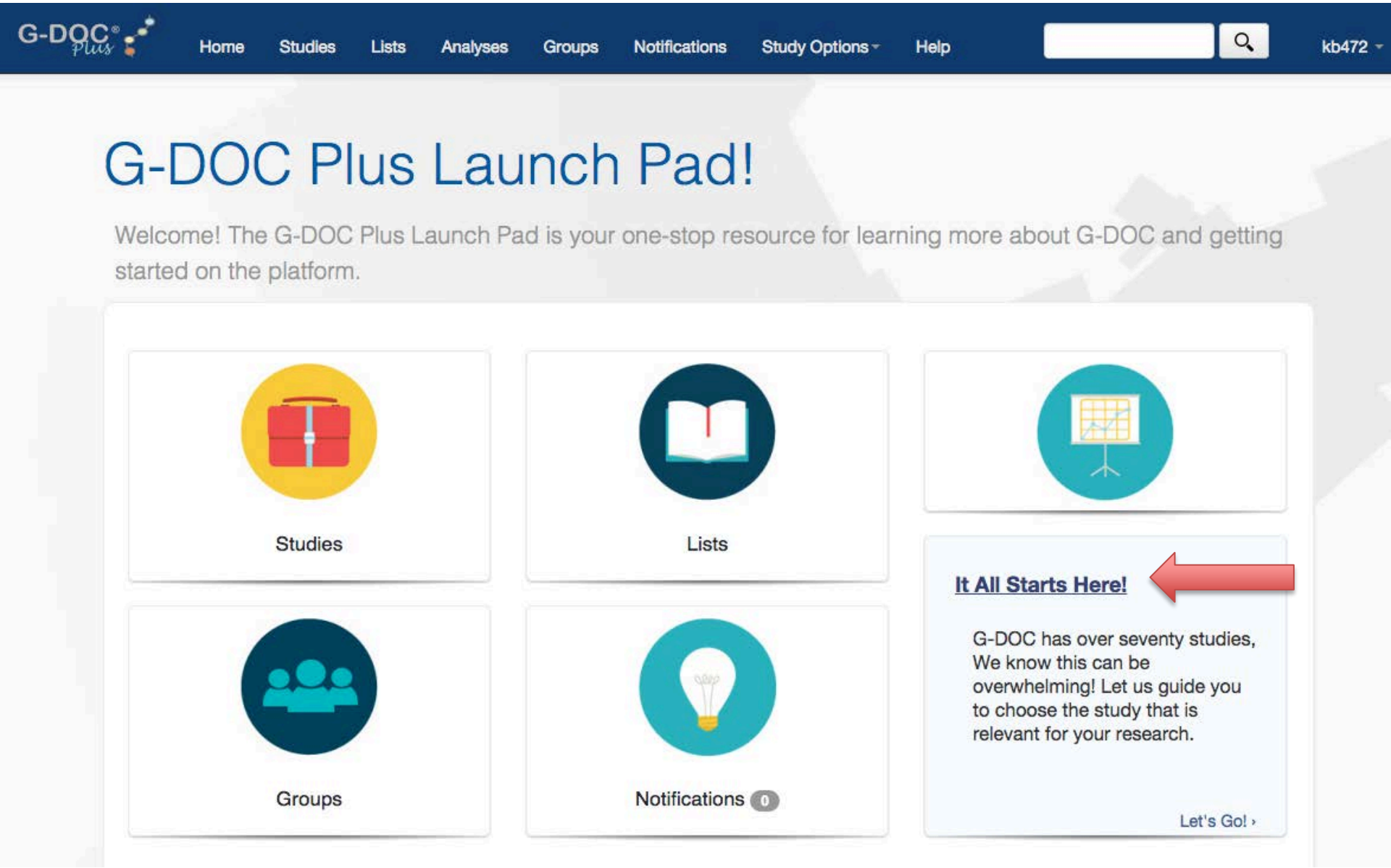
News

October 02, 2014: ICBI Symposium 2014 [read]

May 02, 2014: Featured in Frontiers' Top 10 2013 Most viewed Genetics Research articles [read]

March 12, 2014: AAAS Big Data Blog [read]

Launch Pad


G-DOC Plus
Home
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G-DOC Plus Launch Pad!
Welcome! The G-DOC Plus Launch Pad is your one-stop resource for learning more about G-DOC and getting started on the platform.
Studies
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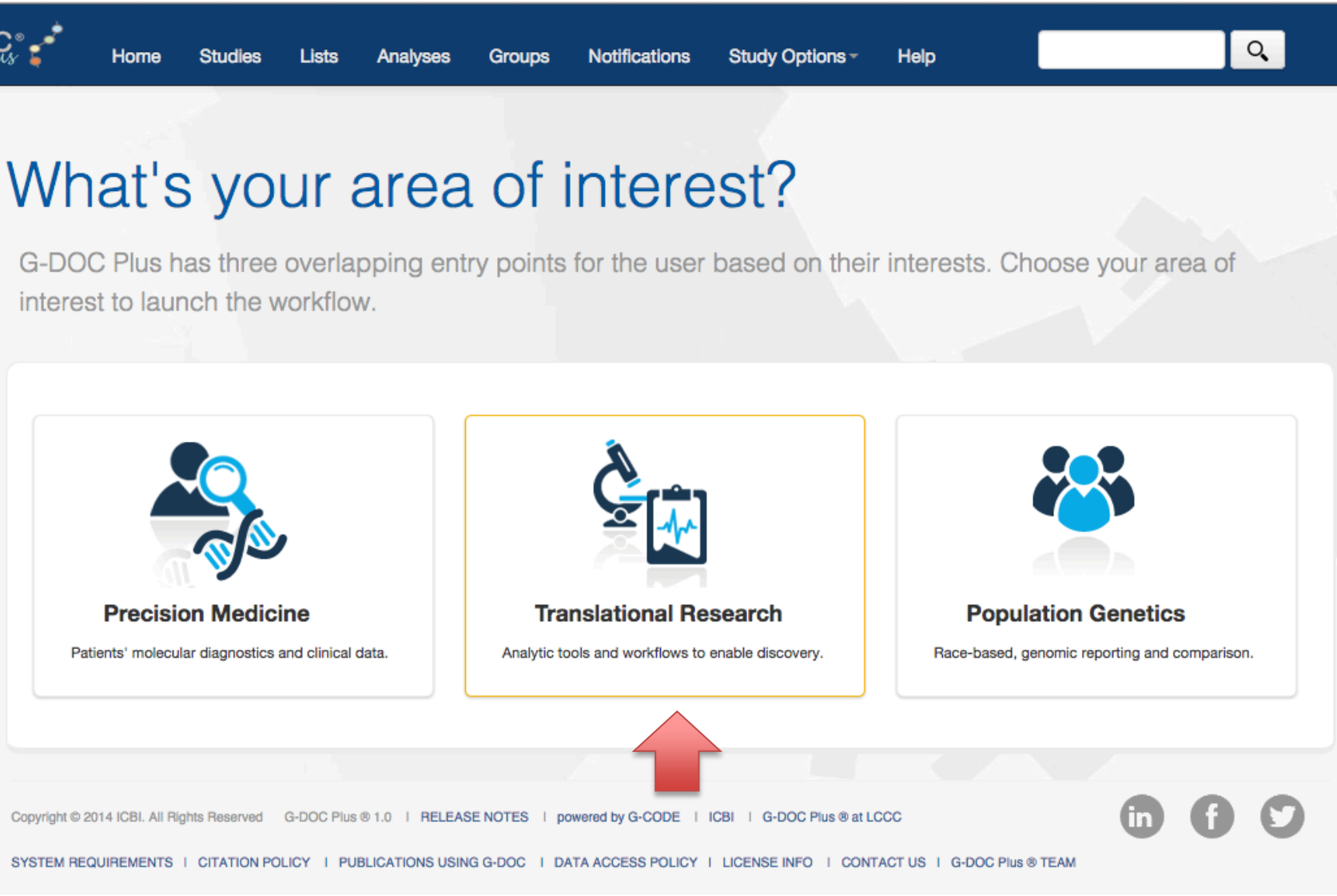
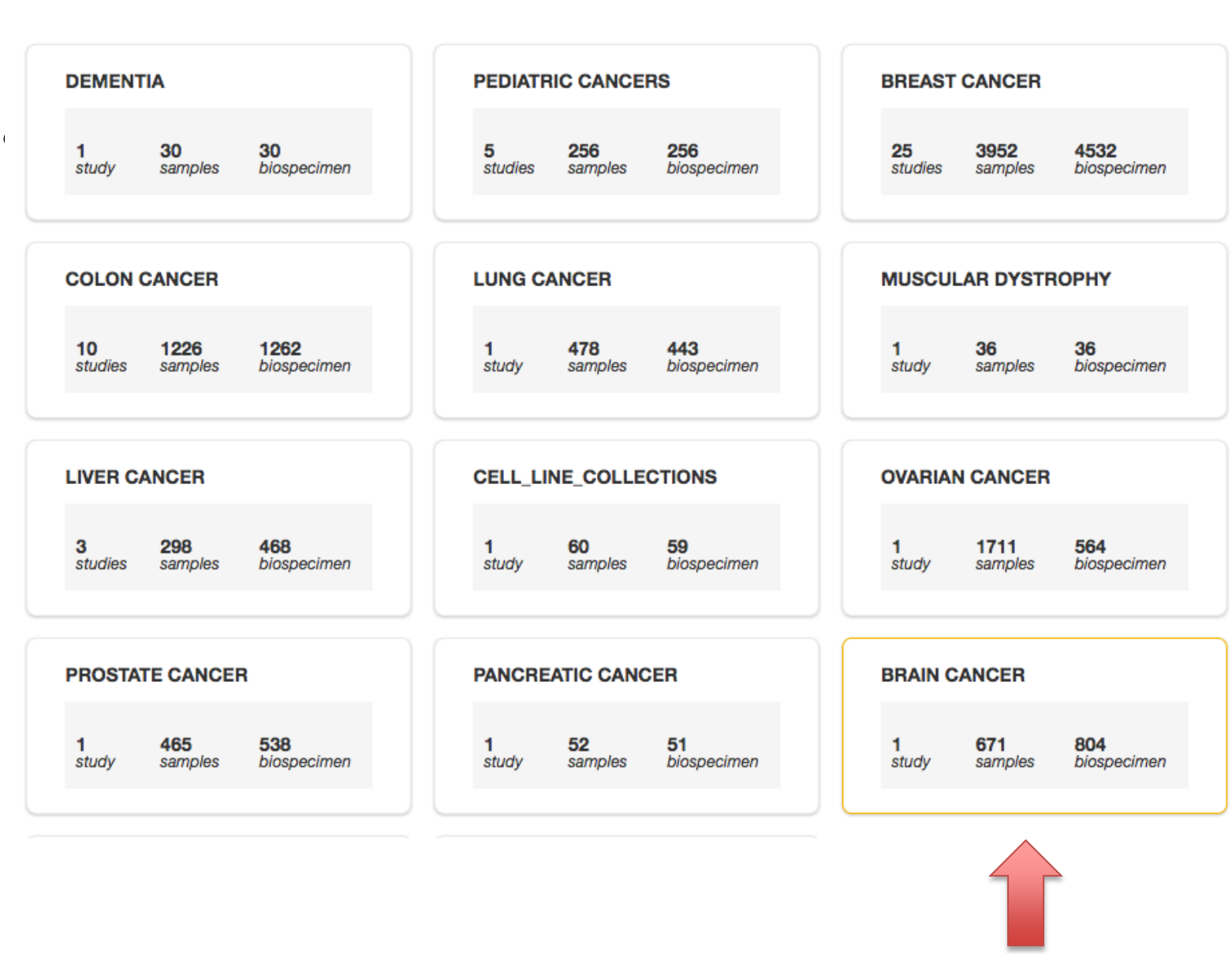
It All Starts Here!
G-DOC has over seventy studies, We know this can be overwhelming! Let us guide you to choose the study that is relevant for your research.
Let's Go! ›

Transitional Research

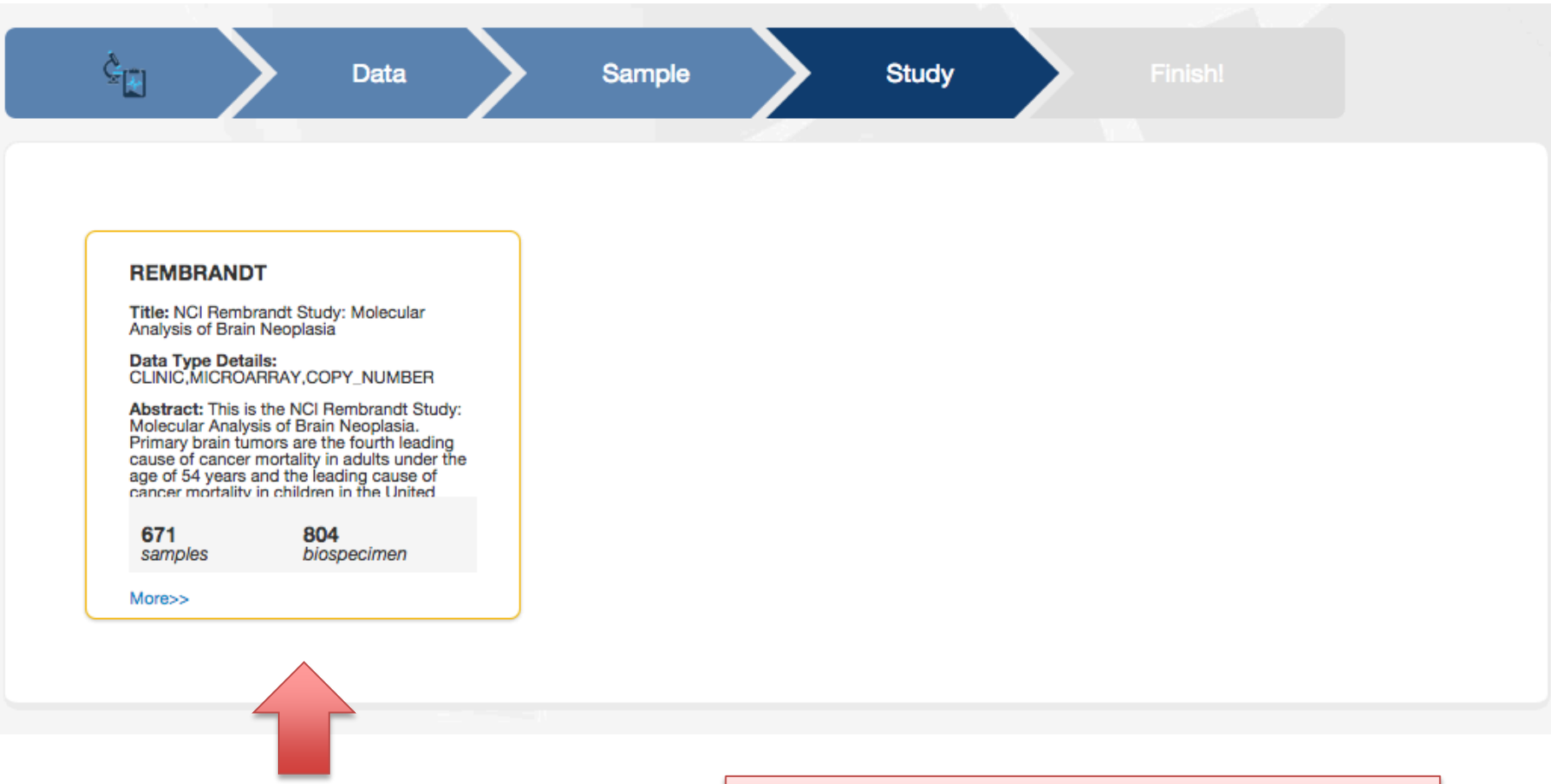


Select disease/data of interest



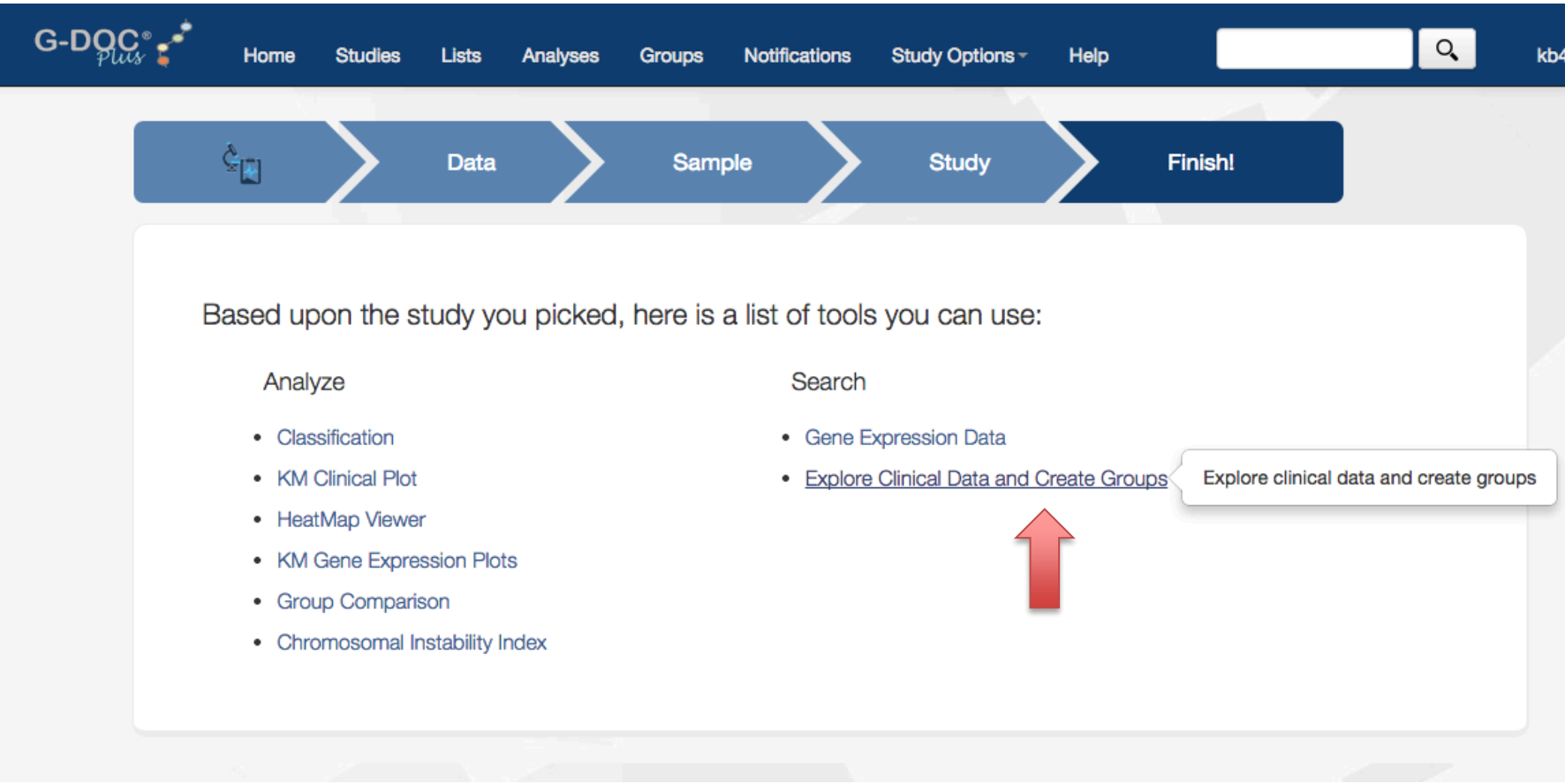
Choose between patient and cell line data

Select study

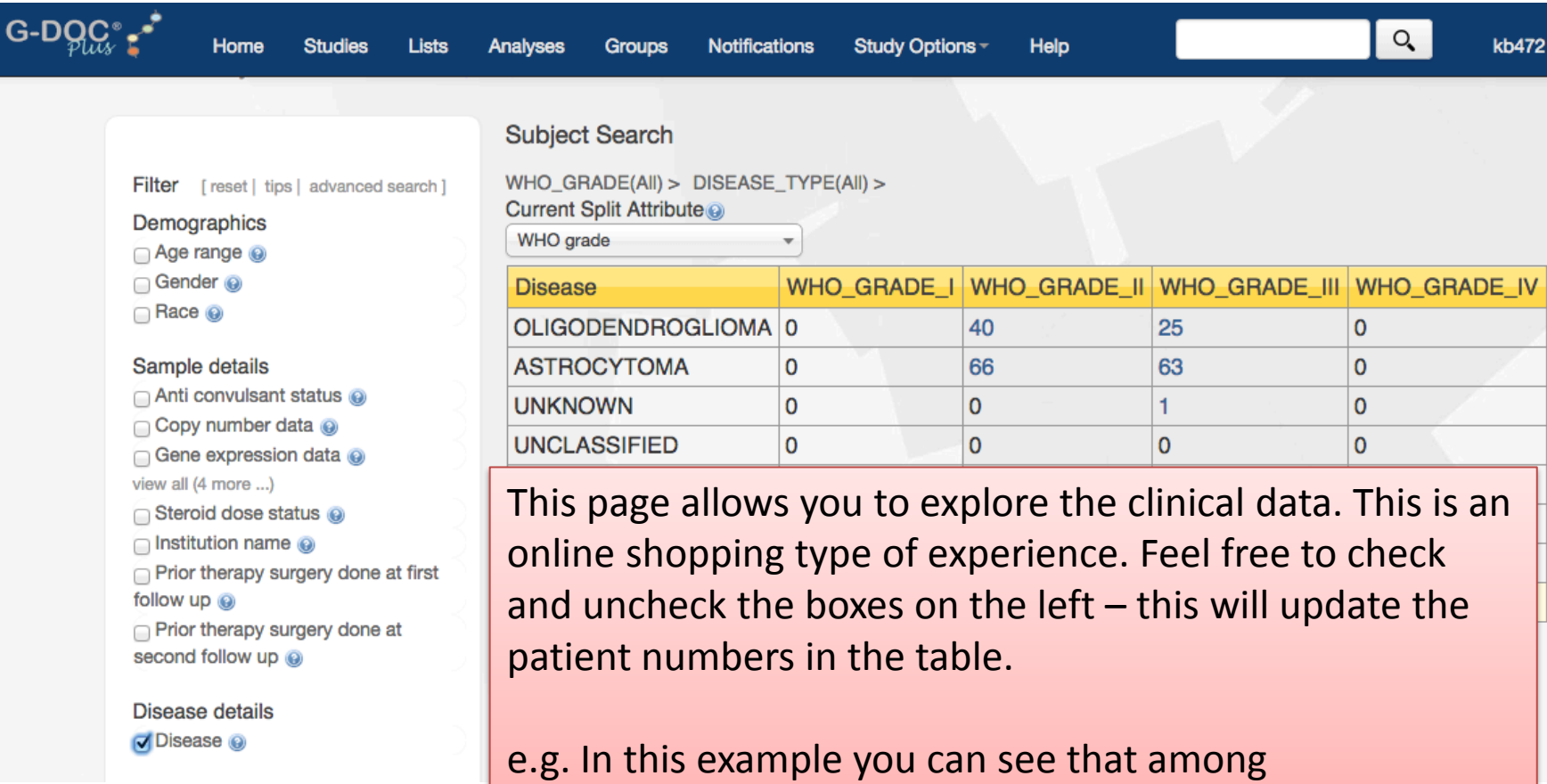


Note: If you click on “More,” you will see a complete description of the dataset.

Study selected. Let's now create some groups



Explore clinical data or create groups

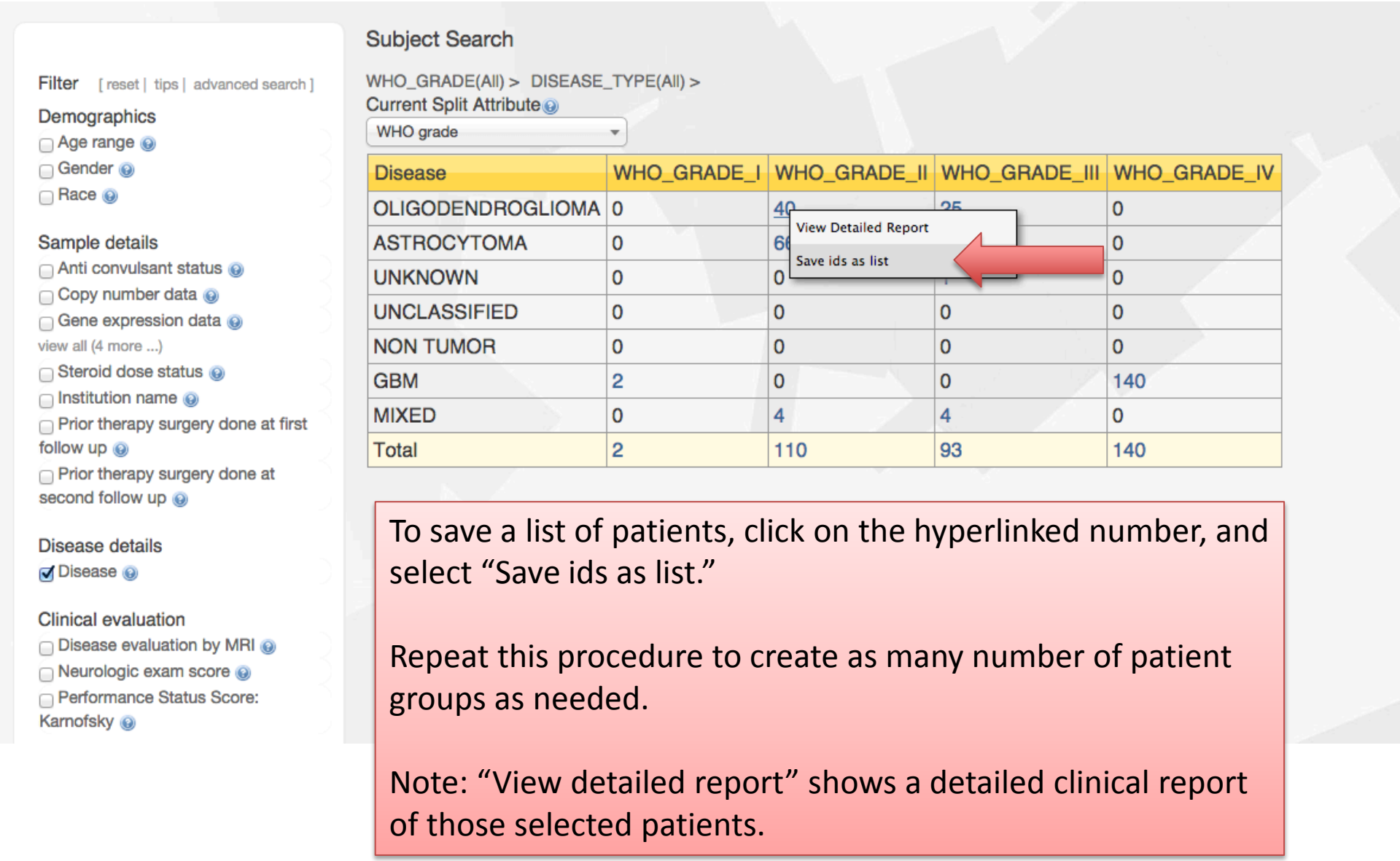


Disease	WHO_GRADE_I	WHO_GRADE_II	WHO_GRADE_III	WHO_GRADE_IV
OLIGODENDROGLIOMA	0	40	25	0
ASTROCYTOMA	0	66	63	0
UNKNOWN	0	0	1	0
UNCLASSIFIED	0	0	0	0

This page allows you to explore the clinical data. This is an online shopping type of experience. Feel free to check and uncheck the boxes on the left – this will update the patient numbers in the table.

e.g. In this example you can see that among Oligodendroglioma patients, 40 patients have WHO tumor grade II and 25 patients have grade III tumor

Let's save the Oligodendroglioma patients with tumor grade II and grade III



Disease	WHO_GRADE_I	WHO_GRADE_II	WHO_GRADE_III	WHO_GRADE_IV
OLIGODENDROGLIOMA	0	40	25	0
ASTROCYTOMA	0	66		0
UNKNOWN	0	0		0
UNCLASSIFIED	0	0	0	0
NON TUMOR	0	0	0	0
GBM	2	0	0	140
MIXED	0	4	4	0
Total	2	110	93	140

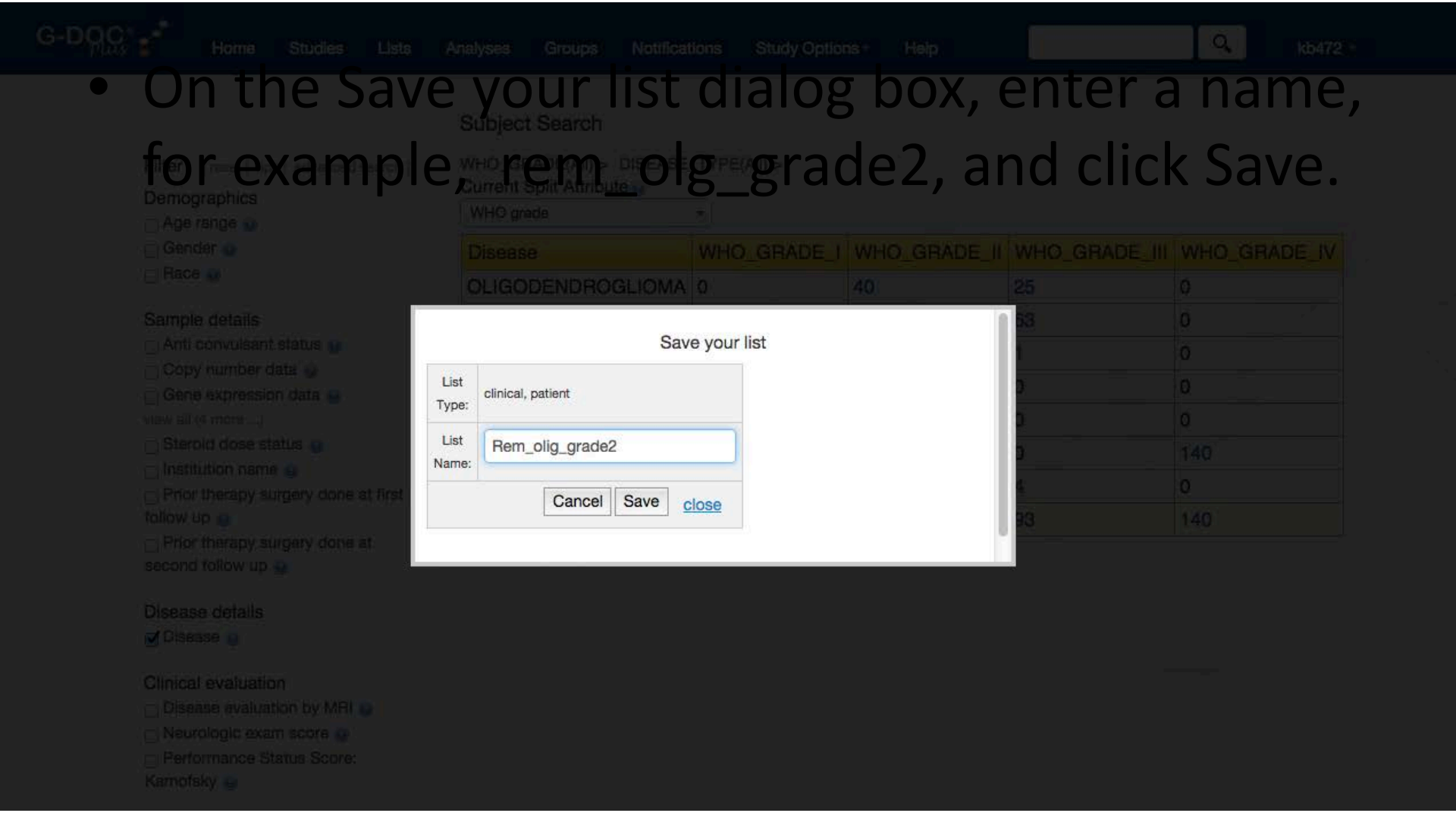
To save a list of patients, click on the hyperlinked number, and select "Save ids as list."

Repeat this procedure to create as many number of patient groups as needed.

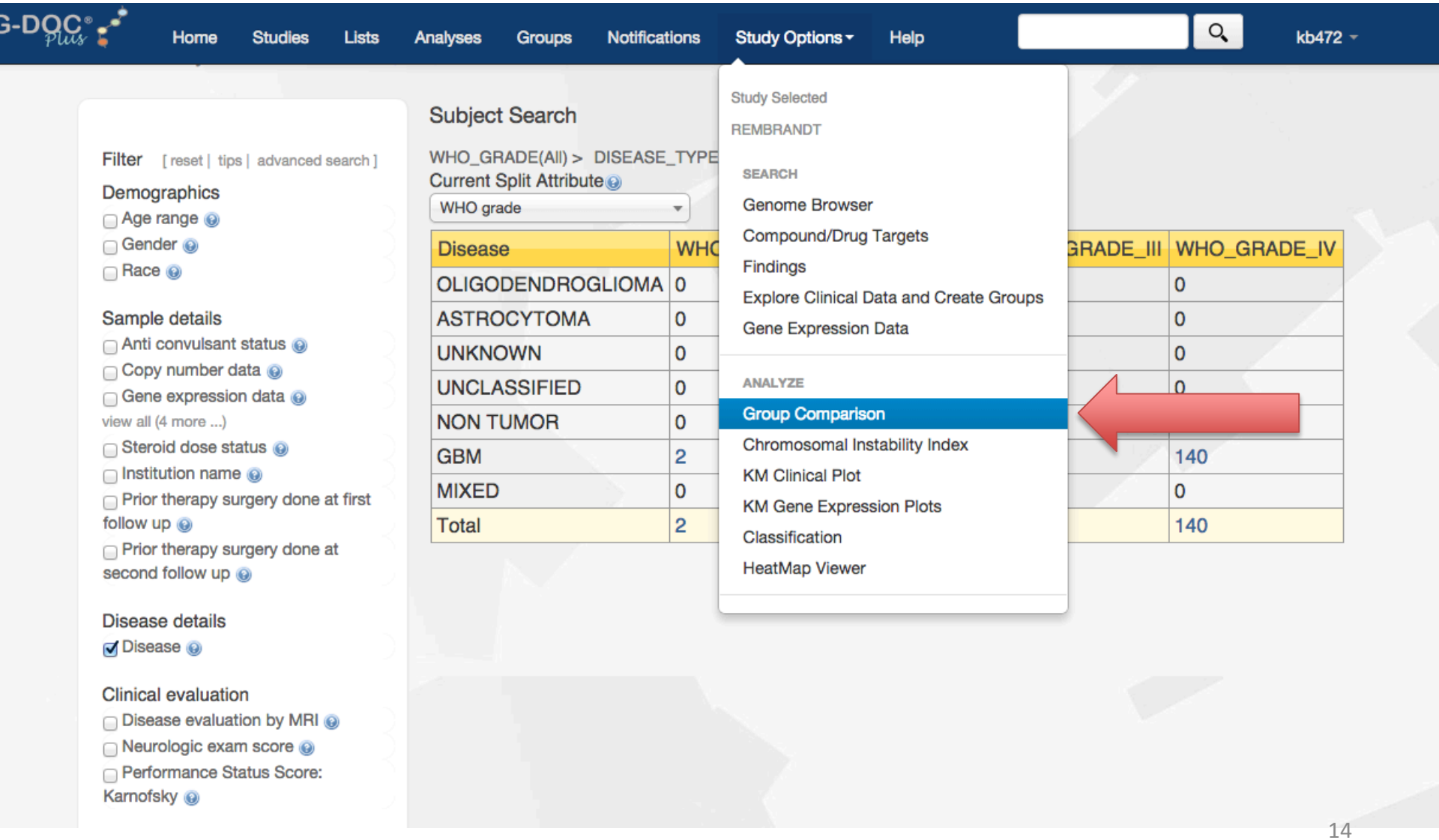
Note: "View detailed report" shows a detailed clinical report of those selected patients.

Enter a name for the list, and click “Save”

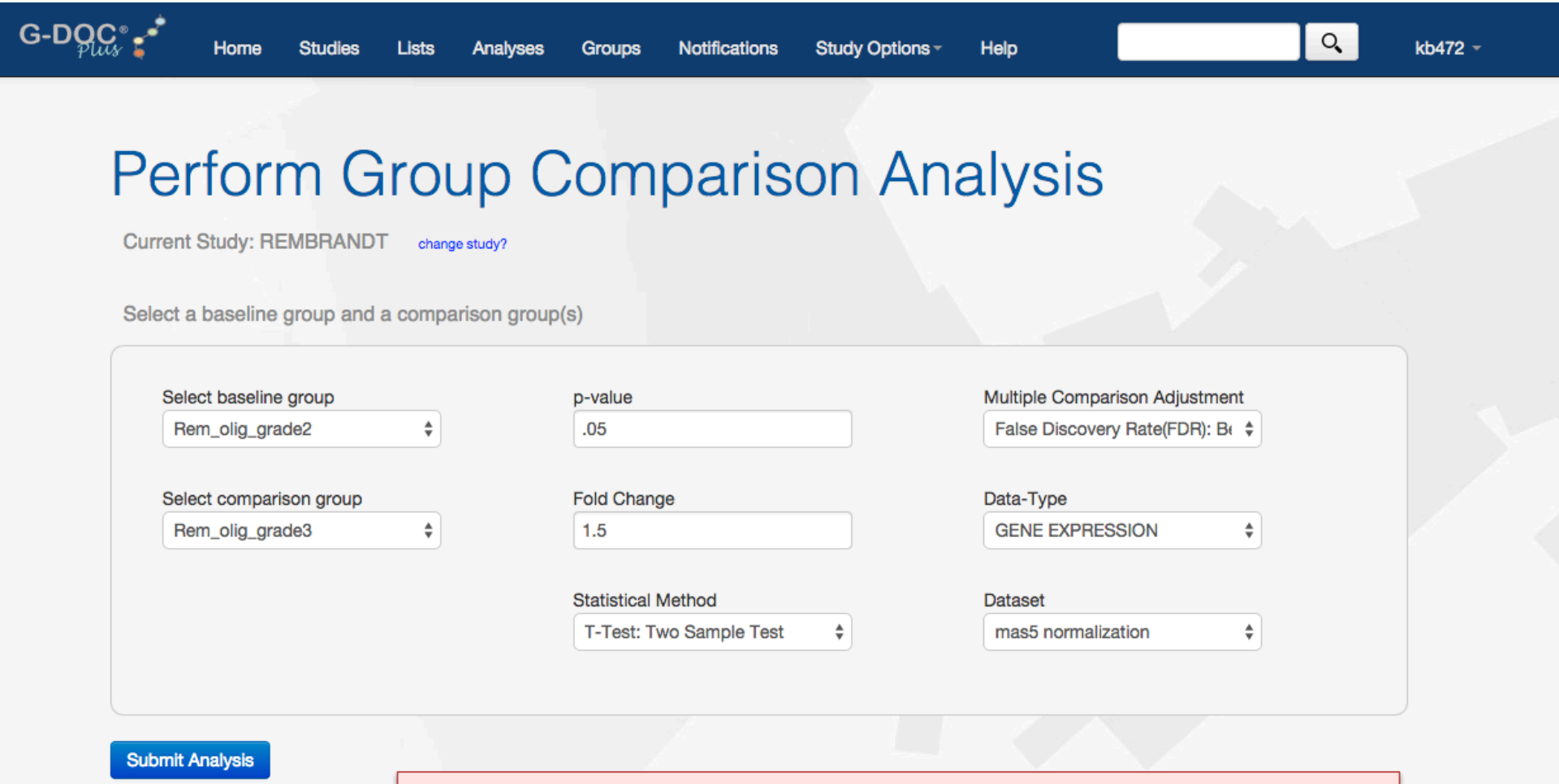
- On the Save your list dialog box, enter a name, for example, rem_olg_grade2, and click Save.



Now, we want to compare the Oligodendroglioma tumor grade II patients with Oligo grade III patients



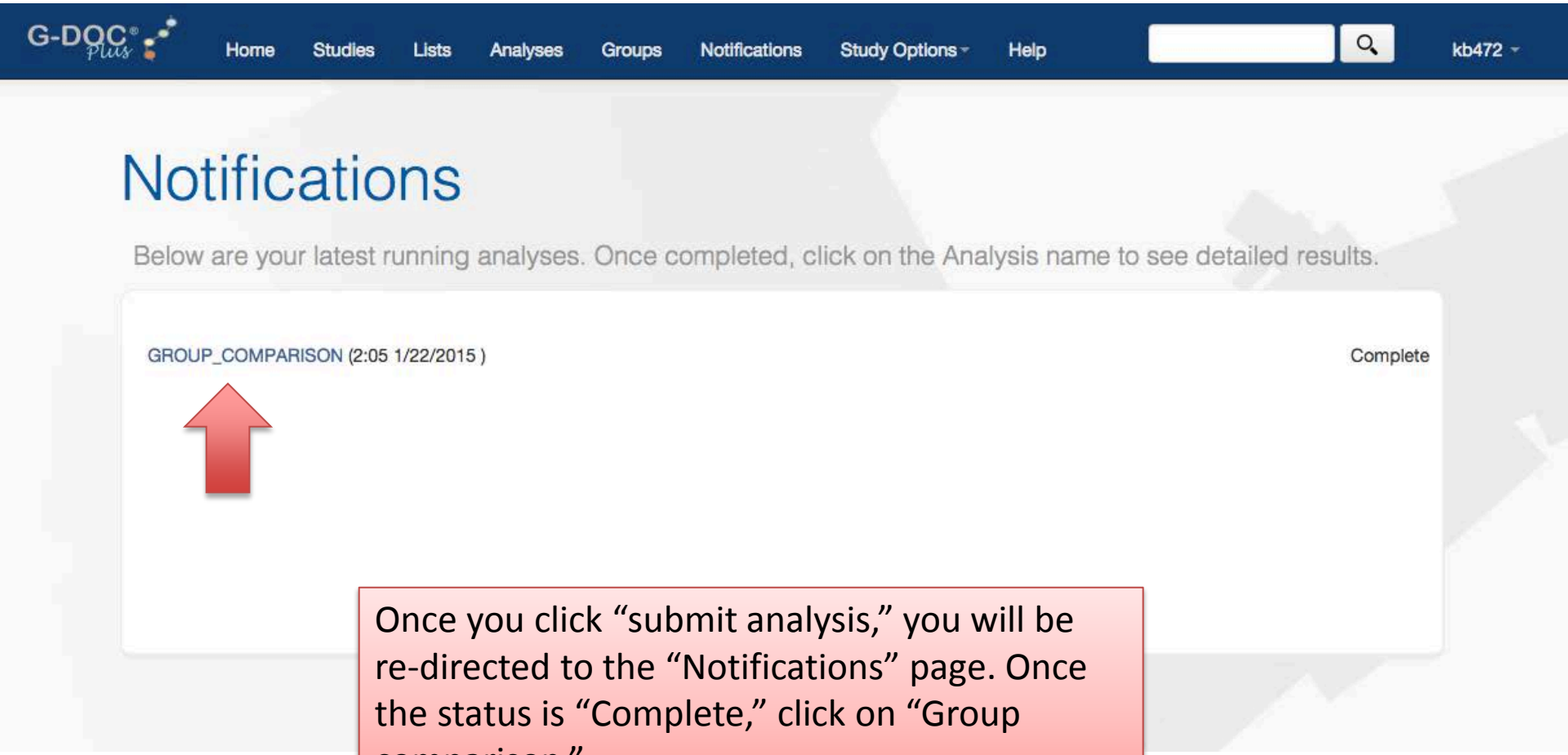
Performing a group comparison



Select a baseline group (control group), a comparison group, and settings for the comparison analysis.

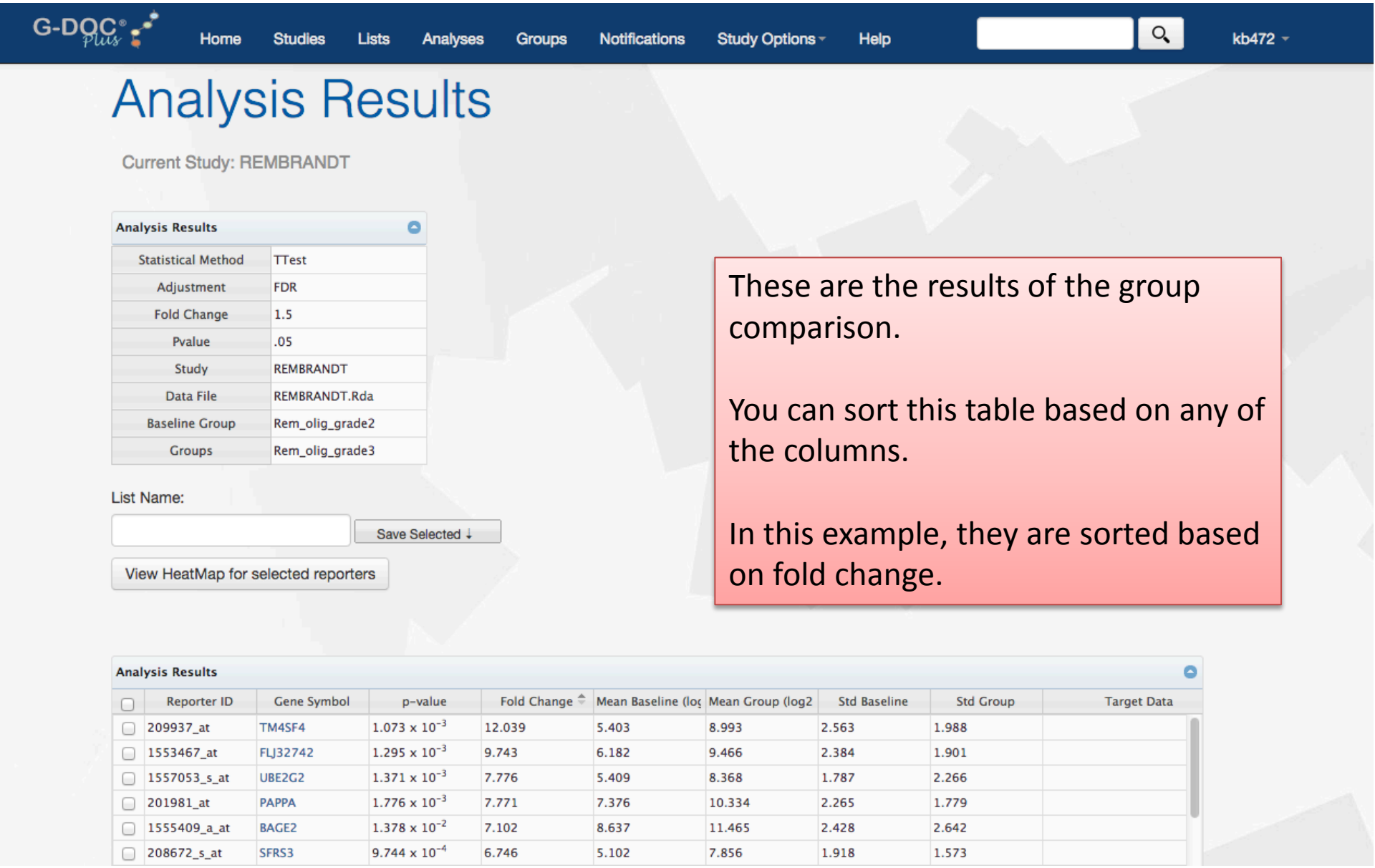
Click “Submit analysis.”

Notifications page

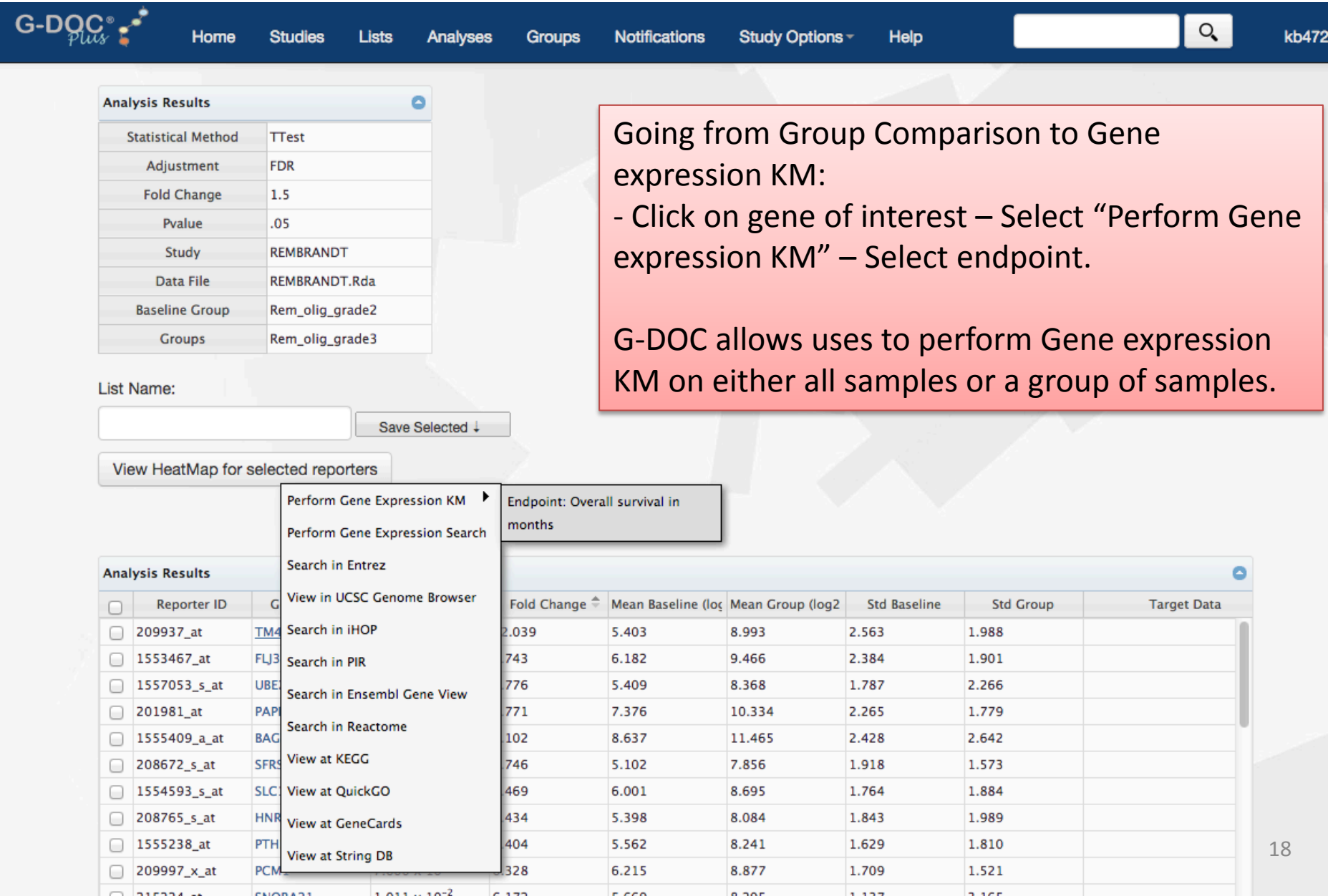


Once you click “submit analysis,” you will be re-directed to the “Notifications” page. Once the status is “Complete,” click on “Group comparison.”

Results of group comparison



Going from Group Comparison to Gene expression KM

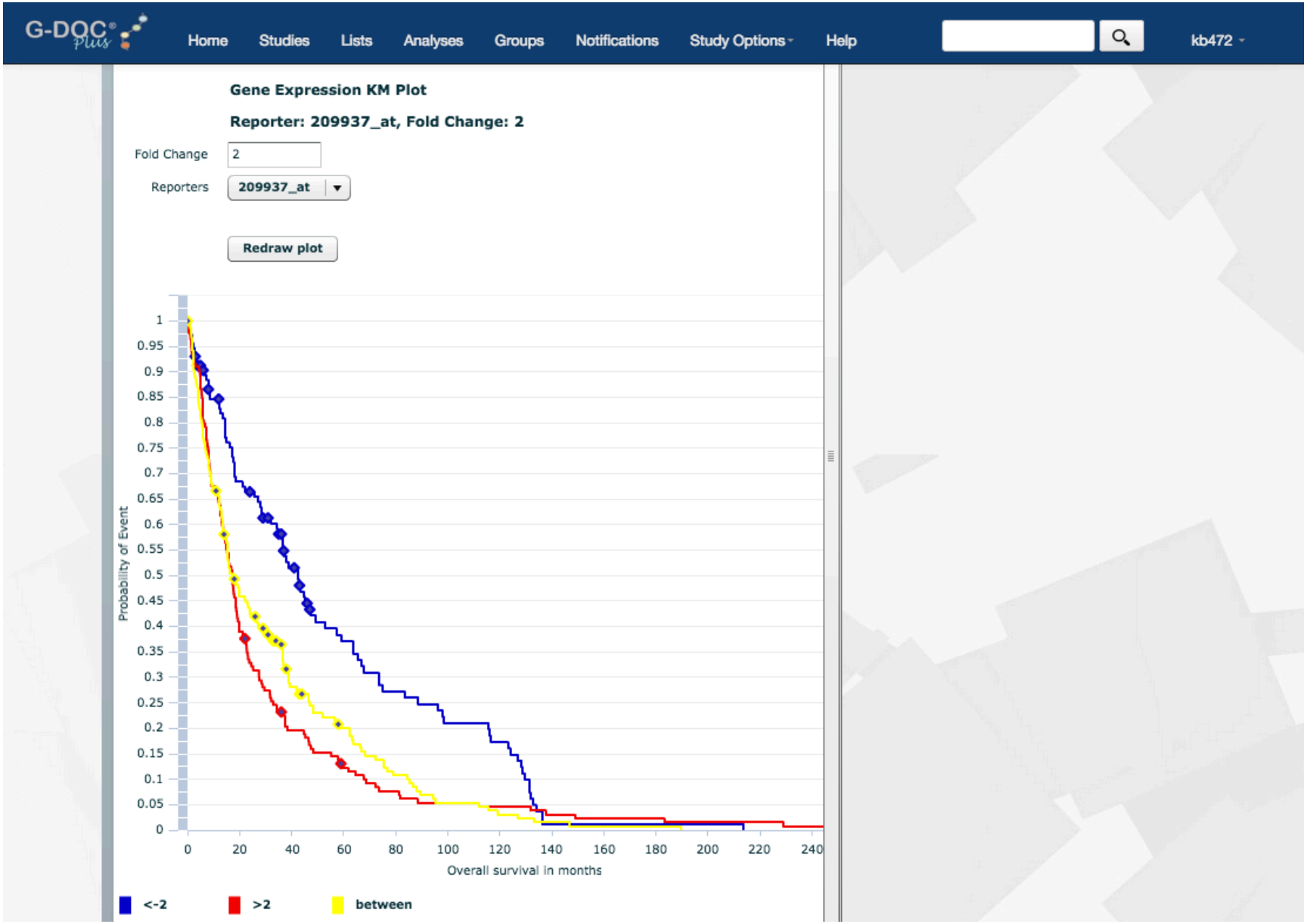


Going from Group Comparison to Gene expression KM:

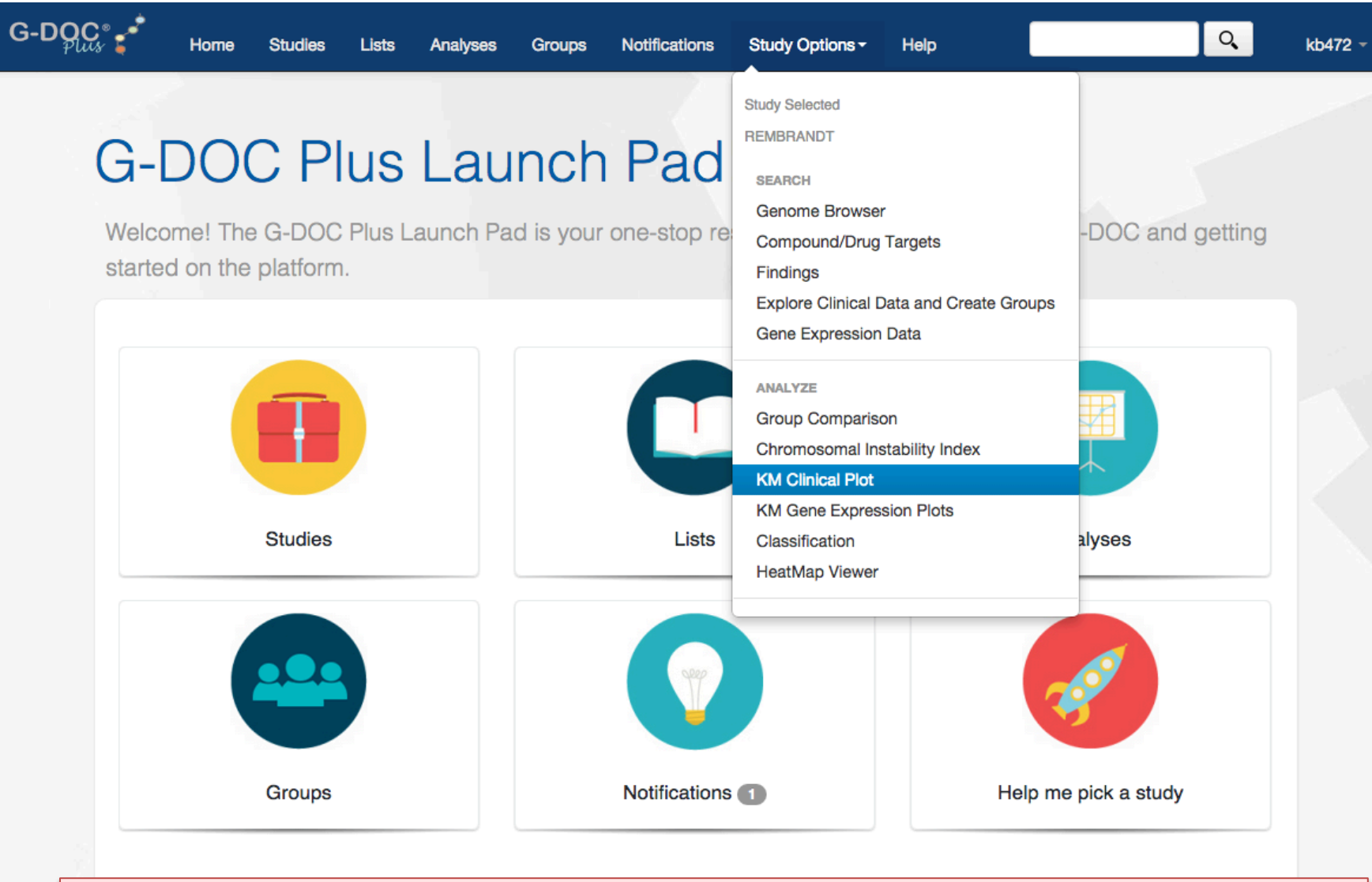
- Click on gene of interest – Select “Perform Gene expression KM” – Select endpoint.

G-DOC allows uses to perform Gene expression KM on either all samples or a group of samples.

Gene expression KM plot

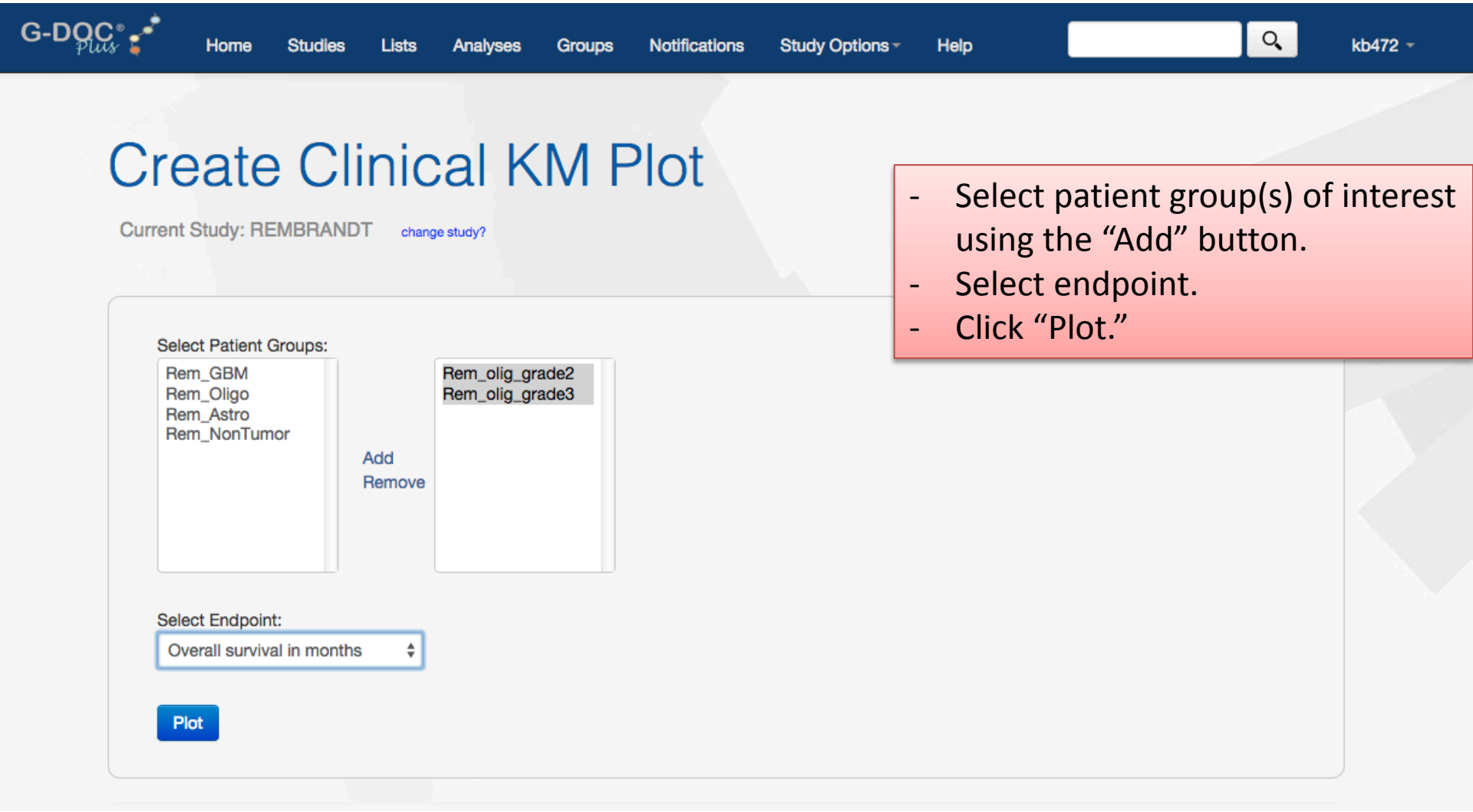


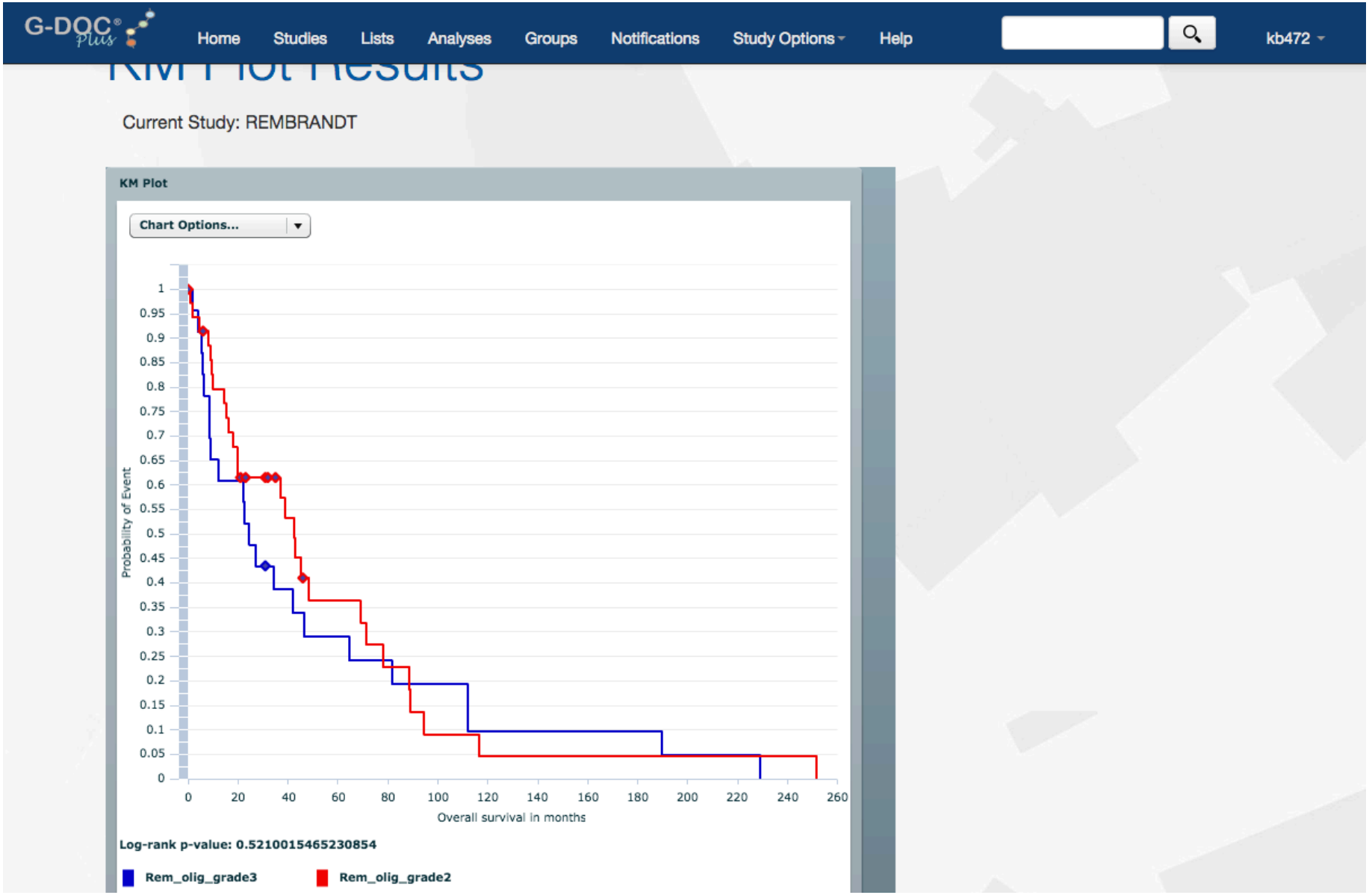
How to do a clinical KM plot



From either the home page, or the current page you are in, go to Study options - > KM Clinical plot.

A Clinical KM Plot



- Select patient group(s) of interest using the “Add” button.
- Select endpoint.
- Click “Plot.”

Clinical KM plot results