

Figure S1

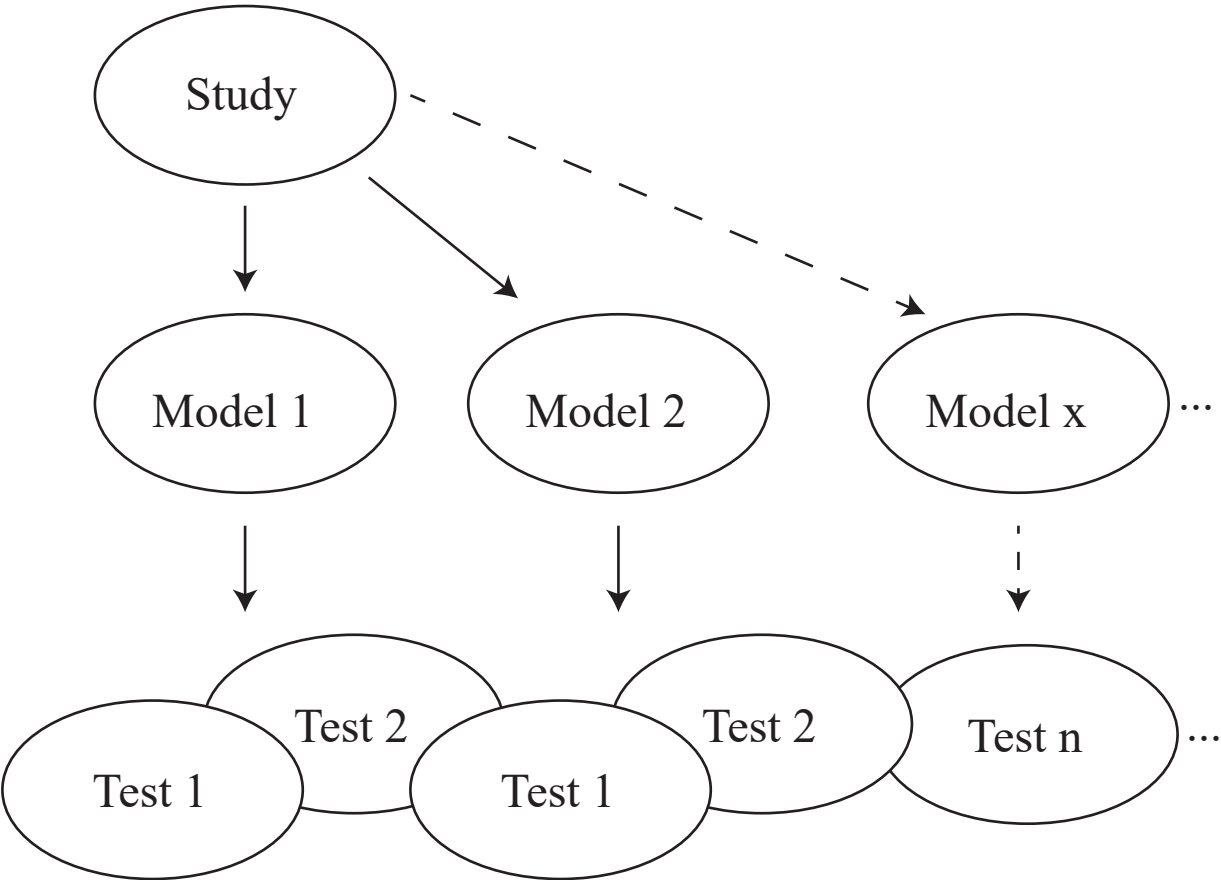
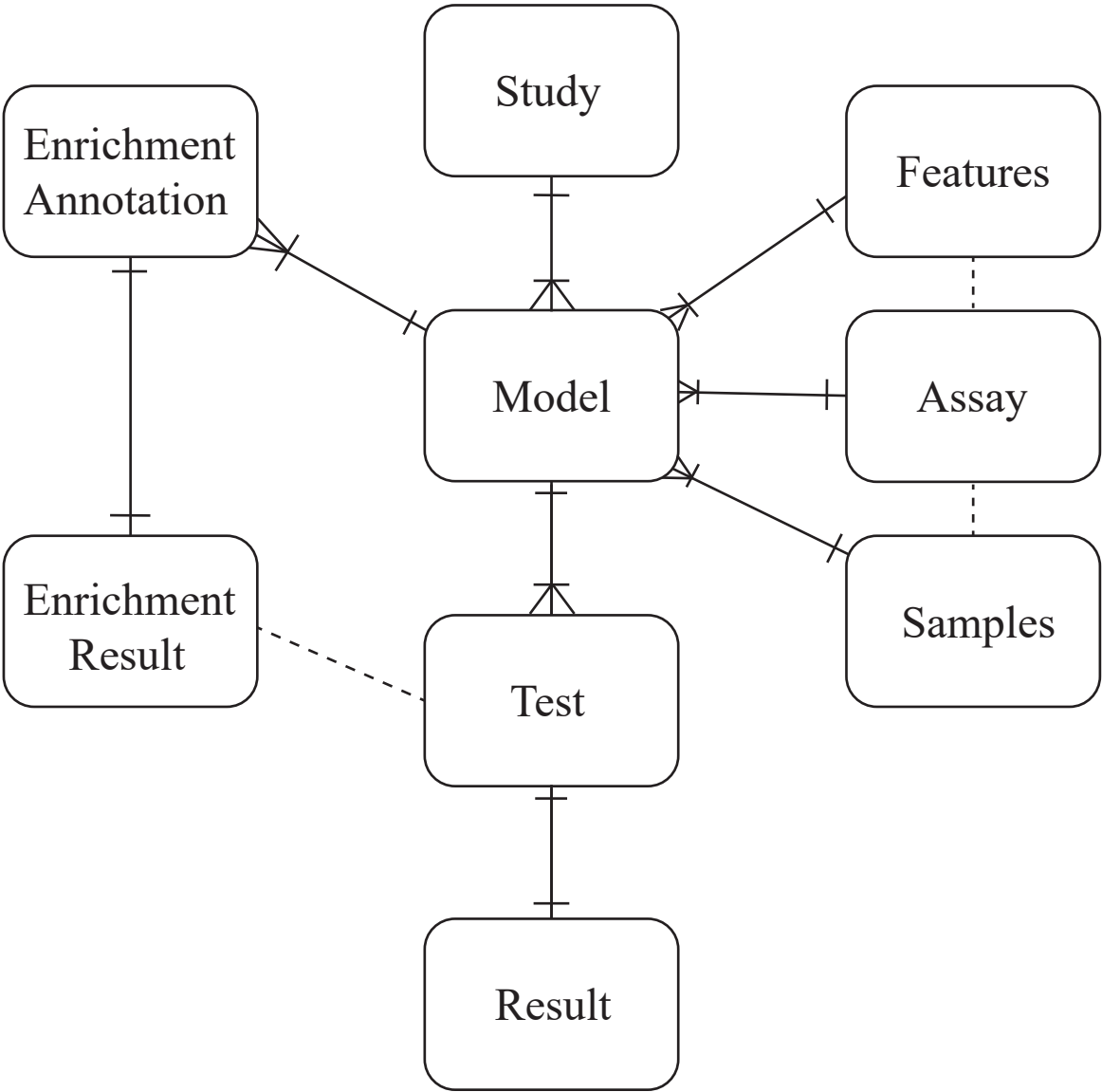


Figure S2



—+— one
—<— one or many
----- logical constraint

Figure S3

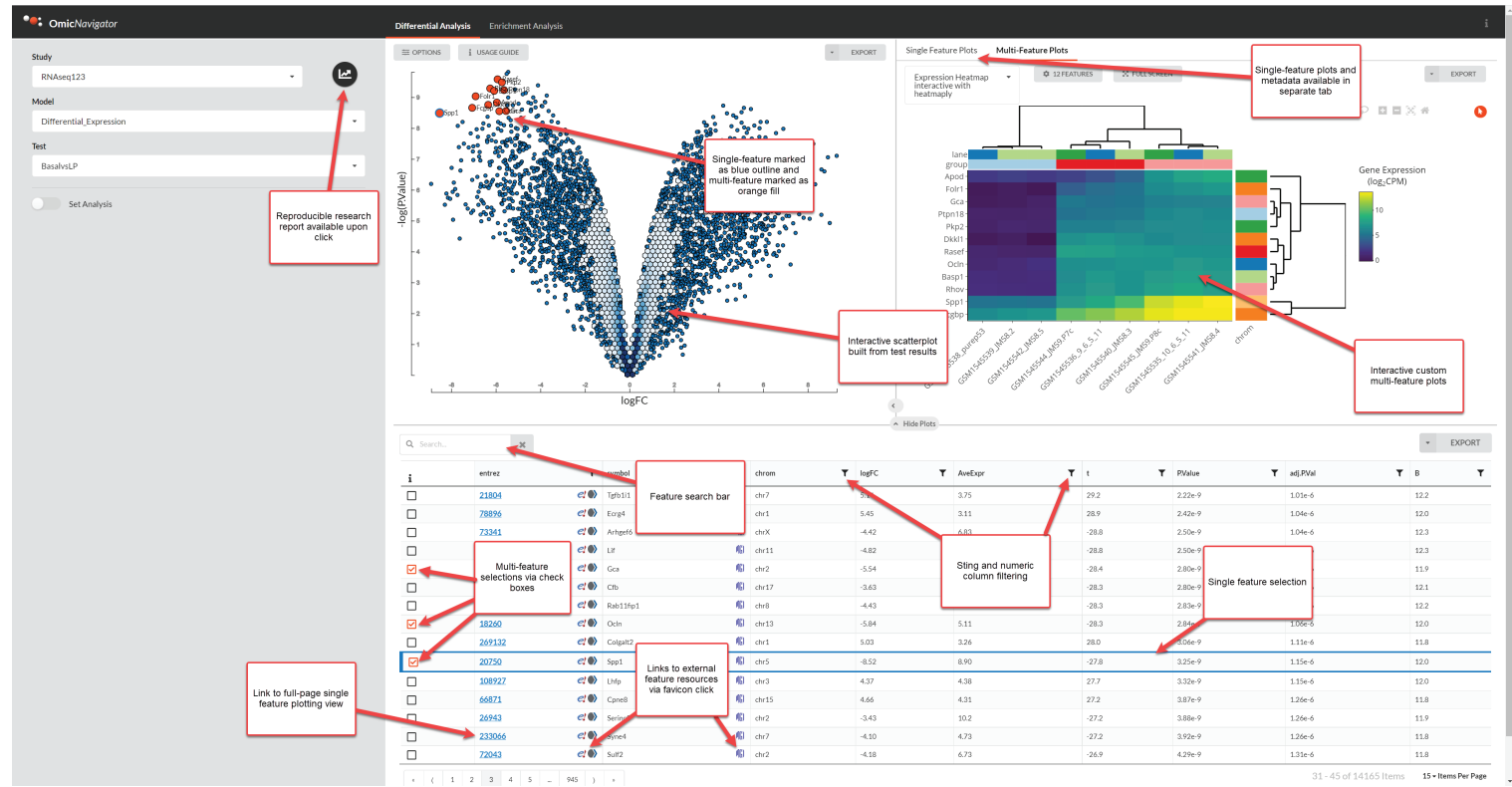


Figure S4

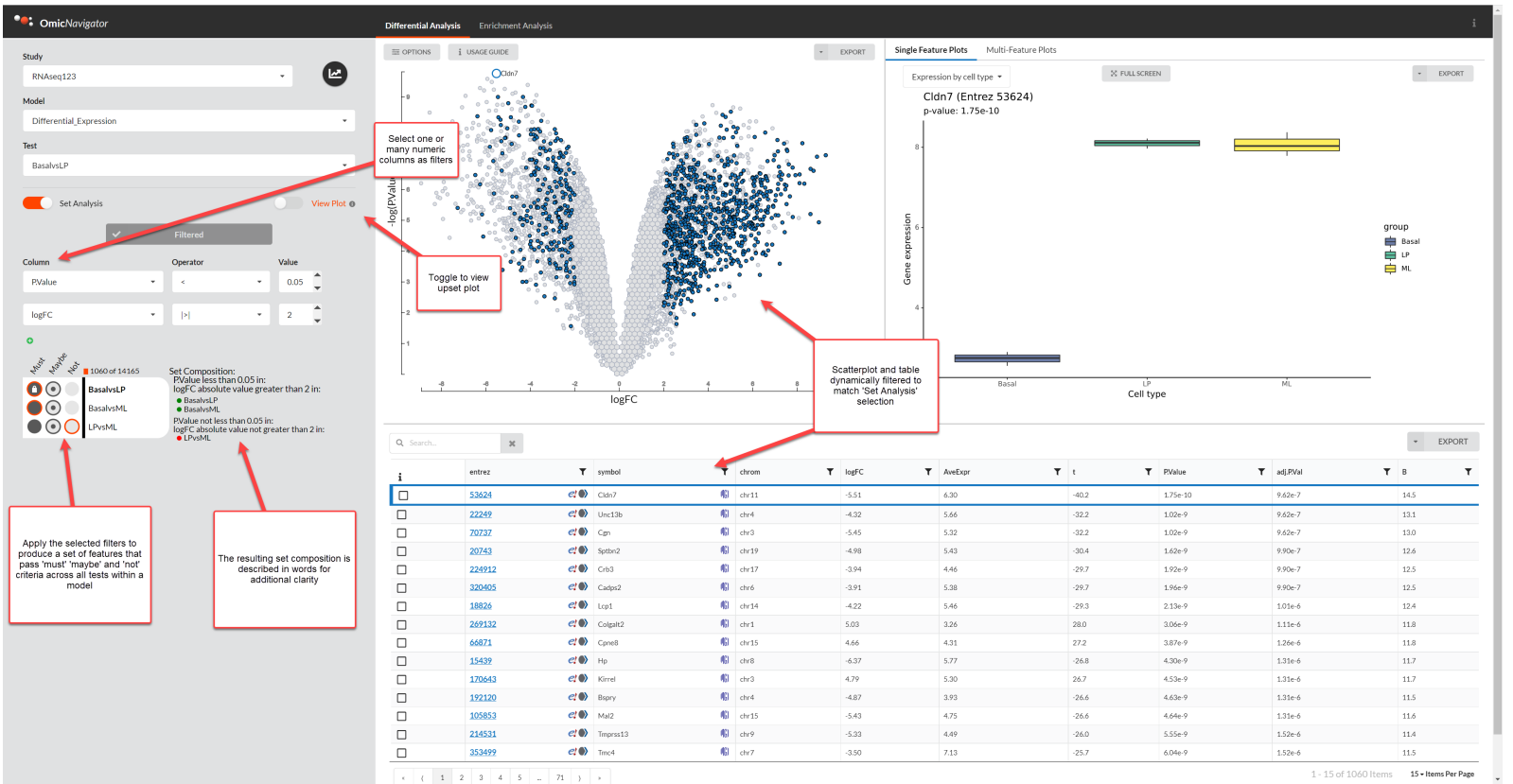


Figure S5

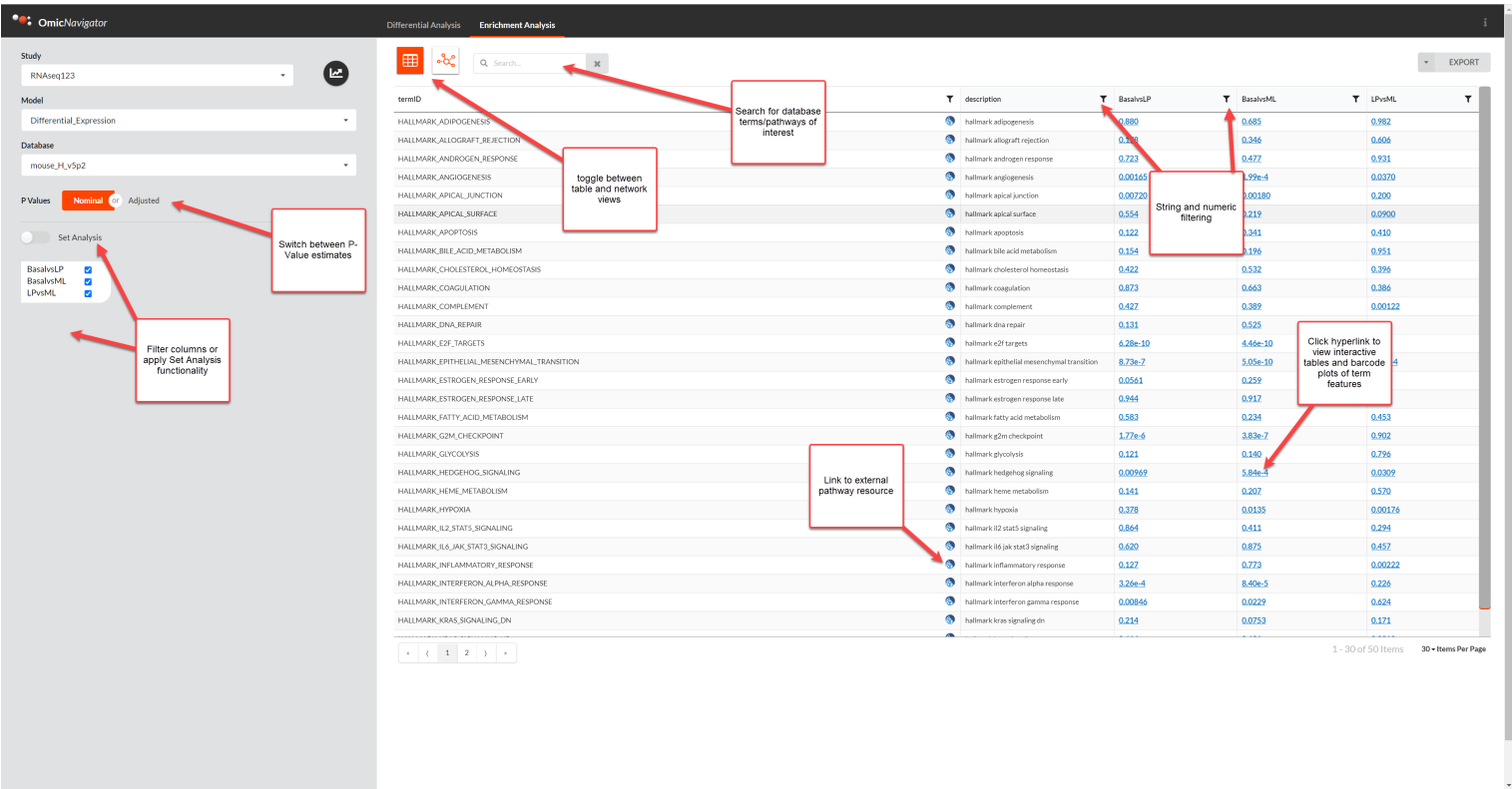


Figure S6

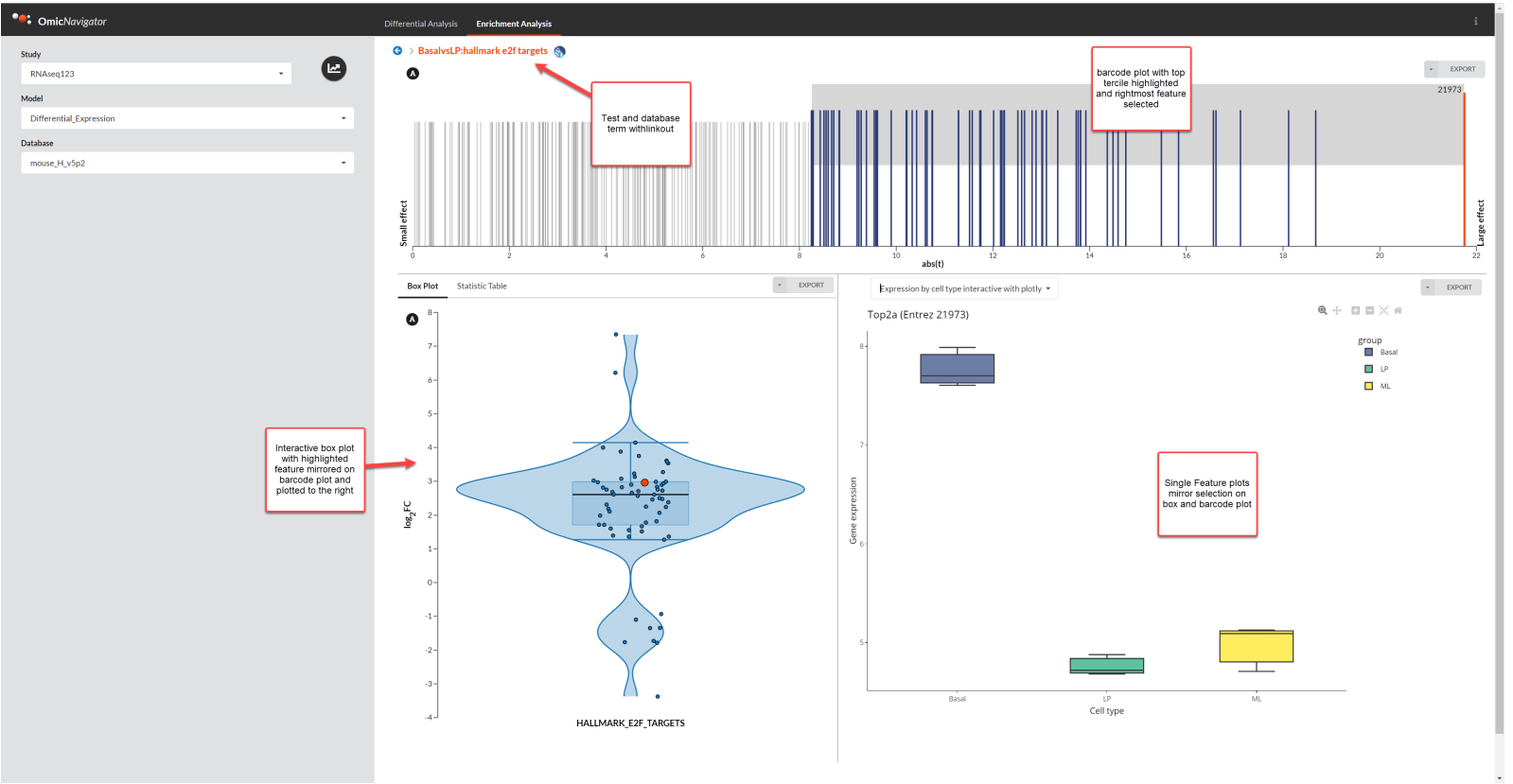


Figure S7

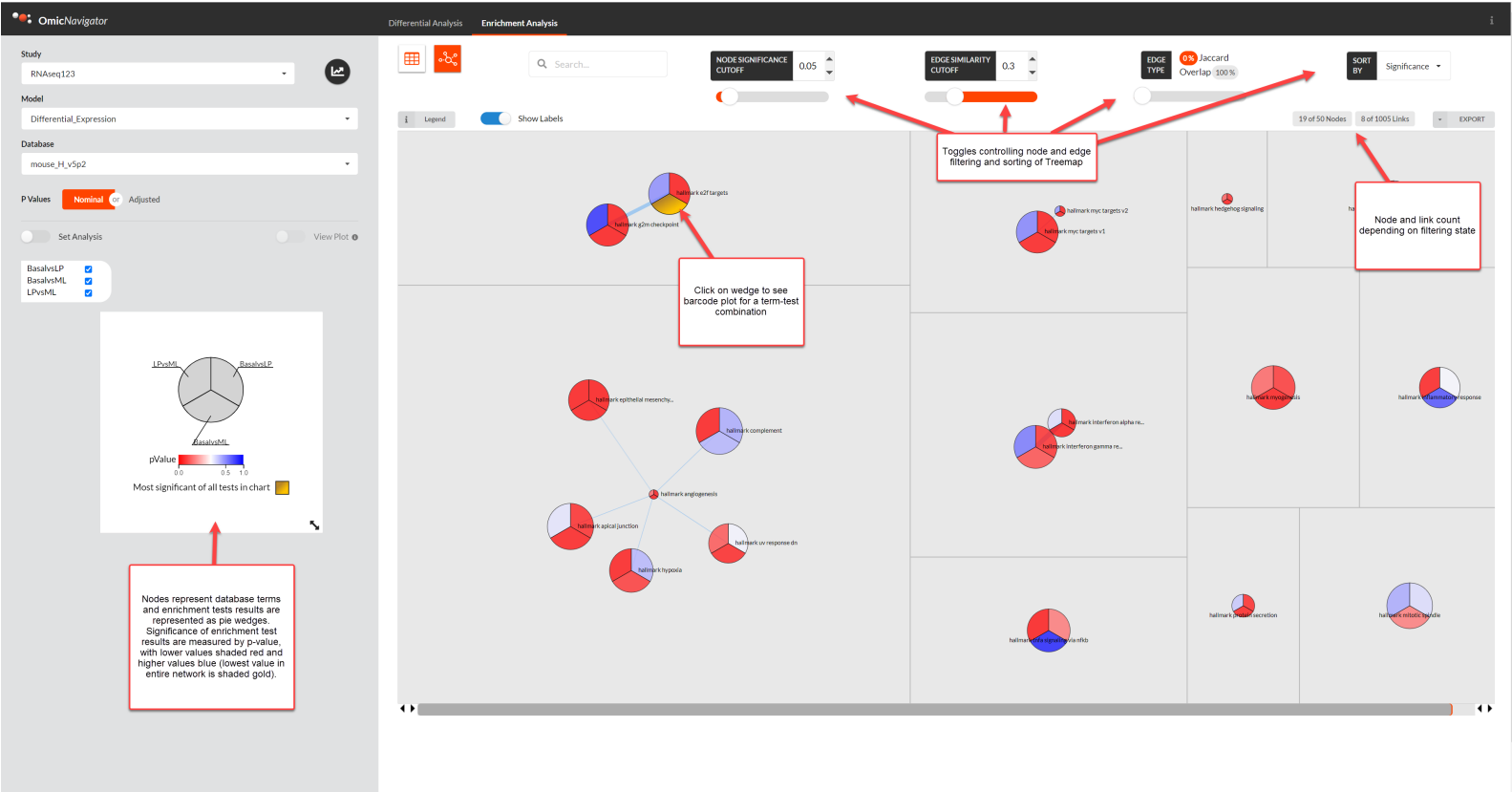


Figure S1 OmicNavigator Framework. An OmicNavigator study may contain arbitrarily many models. There can be arbitrarily many tests within each model.

Figure S2 OmicNavigator Conceptual Data Model. Primary OmicNavigator objects and relationships. Note that ‘Enrichment Annotations’ are referred to as ‘Databases’ within the app. The row and column names of the ‘Assays’ object must match the featureIDs within the ‘Features’ object and sampleIDs within the ‘Samples’ object, respectively. The ‘Enrichment Results’ object must be grouped by testID as captured within the ‘Test’ object.

Figure S3 OmicNavigator Differential Analysis Tab. The state of the app following selection of multiple genes is displayed with informational text boxes explaining app functionality.

Figure S4 OmicNavigator Set Analysis. The state of the app following application of the ‘set analysis’ feature is shown with informational text boxes explaining app functionality.

Figure S5 OmicNavigator Enrichment Analysis Tab. The state of the app following selection of a ‘database’, or enrichment annotation is shown with informational text boxes explaining app functionality.

Figure S6 OmicNavigator Enrichment Analysis Barcode View. The state of the app following selection of a term within a ‘database’, or enrichment annotation with informational text boxes explaining app functionality.

Figure S7 OmicNavigator Enrichment Analysis Network View. The state of the app following selection of a ‘database’, or enrichment annotation and selecting the network view button is shown with informational text boxes explaining app functionality.