Adding sample information

Twenty-five CEL files (samples) have been imported into Partek Genomics Suite. Sample information must be added to define the grouping and the goals of the experiment.

- Select **Add Sample Attributes** in the *Import* section of the *Gene Expression* workflow panel
- Choose the option **Add Attributes from an Existing Column**
- Select **OK** to open the *Sample Information Creation* dialog

In this tutorial, the file name (e.g., Down Syndrome-Astrocyte-748-Male-1-U133A.CEL) contains the information about a sample and is separated by hyphens (-). Choosing to split the file name by delimiters will separate the categories into different columns

- In the *Sample Information* panel, specify the column labels (*Labels 1-4*) as **Type**, **Tissue, Subject, and Gender**, set each as **categorical**, and set the other columns as **skip** (Figure 1). Select **OK**

Figure 4. Configuring the Sample Information Creation dialog

- A dialog window asking if you would like to save the spreadsheet with the new sample attribute will appear. Select **Yes**
- Make column *5. (Subject)* random by right-clicking on the column header and selecting **Properties** from the pop-up menu (Figure 2).

Figure 5. Changing column properties

- Select the **Random Effect** check box from the *Properties* dialog (Figure 3) then select **OK**.
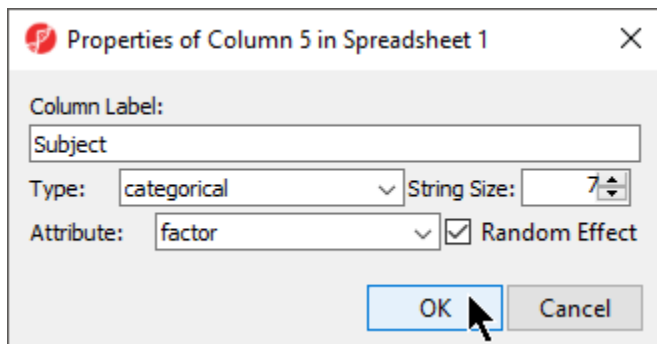

Figure 6. Setting column to Random Effect

The column *5. (Subject)* will now be colored red, indicating that it is a random effect.

- To save changes to the spreadsheet, select the **Save Active Spreadsheet** icon (💾). Spreadsheets with unsaved changes have an asterisk next to their name in the spreadsheet tree.

Note: More details on *Random vs. Fixed Effects* can be found later in this tutorial under the section Identifying differentially expressed genes using ANOVA.

« Importing Affymetrix CEL files   Exploring gene expression data »

Additional Assistance

If you need additional assistance, please visit our support page to submit a help ticket or find phone numbers for regional support.

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