Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise. Use the drop down menus to select the data and information you want to use in your analysis.

<table>
<thead>
<tr>
<th>Name of Data Matrix</th>
<th>Name of Variable Matrix</th>
<th>Name of Filename Matrix</th>
<th>Name of Totalcounts Matrix</th>
<th>Name of Samplenames Matrix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select Data</td>
<td>Select Variables</td>
<td>Select Filenames</td>
<td>Select Totalcounts</td>
<td>Select Samples</td>
</tr>
</tbody>
</table>

This tutorial contains navigation buttons that enable you to move throughout the tutorial.

Please use the navigation buttons and not the page up/page down or arrow keys to navigate through the tutorials.

- This is the 'Next' button. It takes you to the next frame or stop point.
- This is the 'Previous' button. It takes you to the previous frame or stop point.
- This is the 'Go to frame' button. It takes you to a specified frame.
- This is the 'Go to URL' button. It takes you to a website link.

Press the 'Next' button below to start this tutorial.
This tutorial will cover normalizing data with the spectragui.
From the 'Data Pre-Processing' menu choose -> 'Normalize Data'
Raw Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise.

- Name of Data Matrix: Select Data
- Name of Variable Matrix: Select Variables
- Name of Filename Matrix: filenames
- Name of Totalcounts Matrix: Select Totalcounts
- Name of Samplenames Matrix: Select Samples

Make sure the correct data and other variables are selected from the drop-down menus in the 'Raw Data Selection Panel'.

Select the process as per your requirement. Enter a name for the data. The normalization method and press the 'Normalize' button.

If you choose to normalize by a selected peak, you must select a peak before pressing 'Normalize'.

Load Selected Data
Normalize
Close Panel

Data: None
Variables: None
Total counts: None

Peak List
Raw Data Selection Panel

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<tr>
<td>data</td>
<td>exactmass</td>
<td>filenames</td>
<td>totalcounts</td>
<td>samplenames</td>
</tr>
</tbody>
</table>

Select the data you want to process above and press the "Load Selected Data" button.

Enter a name for the normalized data. Then choose a normalization method and press the 'Normalize' button.

If you choose to normalize by a selected peak, you must select a peak before pressing 'Normalize'.

Press the 'Load Selected Data' button

Data: None
Variables: None
Total counts: None
Raw Data Selection Panel

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Enter a name for the normalized data. Then choose a normalization method and press the 'Normalize' button.

If you choose to normalize by a selected peak, you must select a peak before pressing 'Normalize'.

The GUI highlights what data is being used within the given panel.

The list of selected peaks is shown here. This list can be used to normalize the data to a selected peak.
Raw Data Selection Panel

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Enter a name for the normalized data. Then choose a normalization method and press the 'Normalize' button.

Enter a name for the normalized data. This can be any name you want, but should be descriptive of how you normalize the data.

Data Normalization

Name for Normalized Matrix

Normalization Method

Choose an option

Peak List

Data: data
Variables: exactmass
Total counts: totalcounts

Close Panel
Raw Data Selection Panel

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Select the data you want to process above and press the "Load Selected Data" button.

Enter a name for the normalized data. Then choose a normalization method and press the 'Normalize' button.

If you choose to normalize by a selected peak, you must select a peak before pressing 'Normalize'.

Choose how you want to normalize the data from the drop down menu.

Variables: exactmass
total counts: totalcounts
In this case, I am choosing to use the sum of selected peaks.
Raw Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise.

Name of Data Matrix: data
Name of Variable Matrix: exactmass
Name of Filename Matrix: filenames
Name of Totalcounts Matrix: totalcounts
Name of Samplenames Matrix: samplenames

Select the data you want to process above and press the "Load Selected Data" button.

Enter a name for the normalized data. Then choose a normalization method and press the 'Normalize' button.

If you choose to normalize by a selected peak, you must select a peak before pressing 'Normalize'.

Now press the 'Normalize' button.
Raw Data Selection Panel

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Enter a name for the normalized data. Then choose a normalization method and press the 'Normalize' button.

If you choose to normalize by a selected peak, you must select a peak before pressing 'Normalize'.

Load Selected Data

Data Normalization

Name for Normalized Matrix: ndatass

Normalization Method: Sum of selected p...

Normalize

A message confirms that the data has been normalized.

The normalized data is added to the 'Data Matrix' drop down menu in the 'Raw Data Selection Panel' and to the Matlab workspace.
The new data was created and saved to the Matlab workspace.
Raw Data Selection Panel

These are the main input data that will be used in further analysis unless you specify otherwise

Make sure the correct data is selected before you proceed to further analysis.

In this case, I want to use the normalized data I just created.
Raw Data Selection Panel

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That's it for this tutorial.

Press the green button on the left to go back to the previous step. Press the button the right to go back to the beginning of the tutorial.