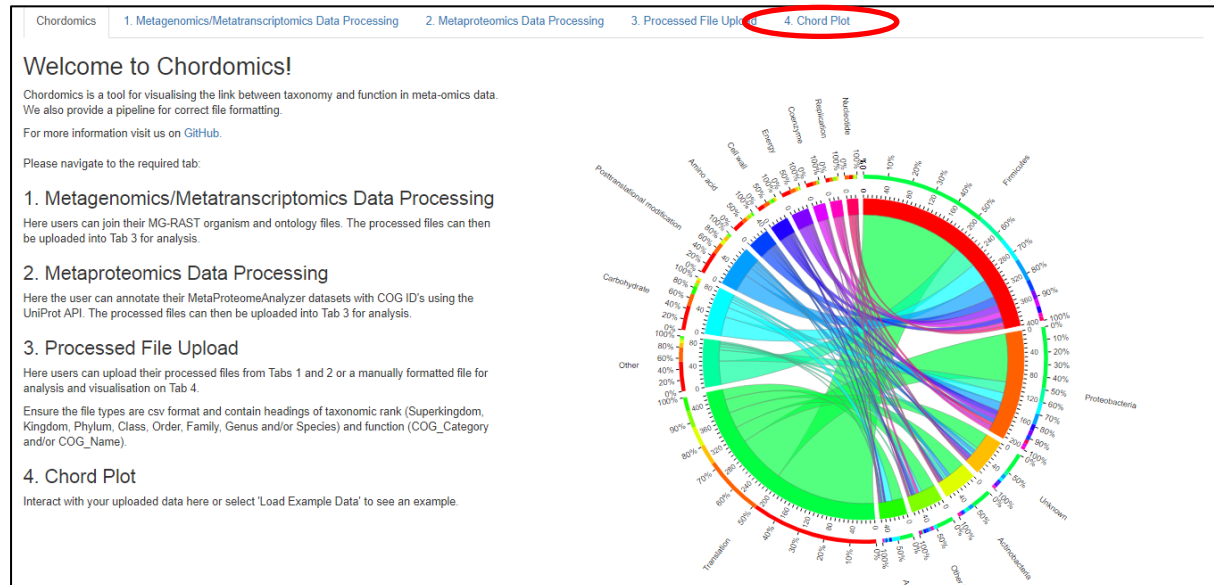


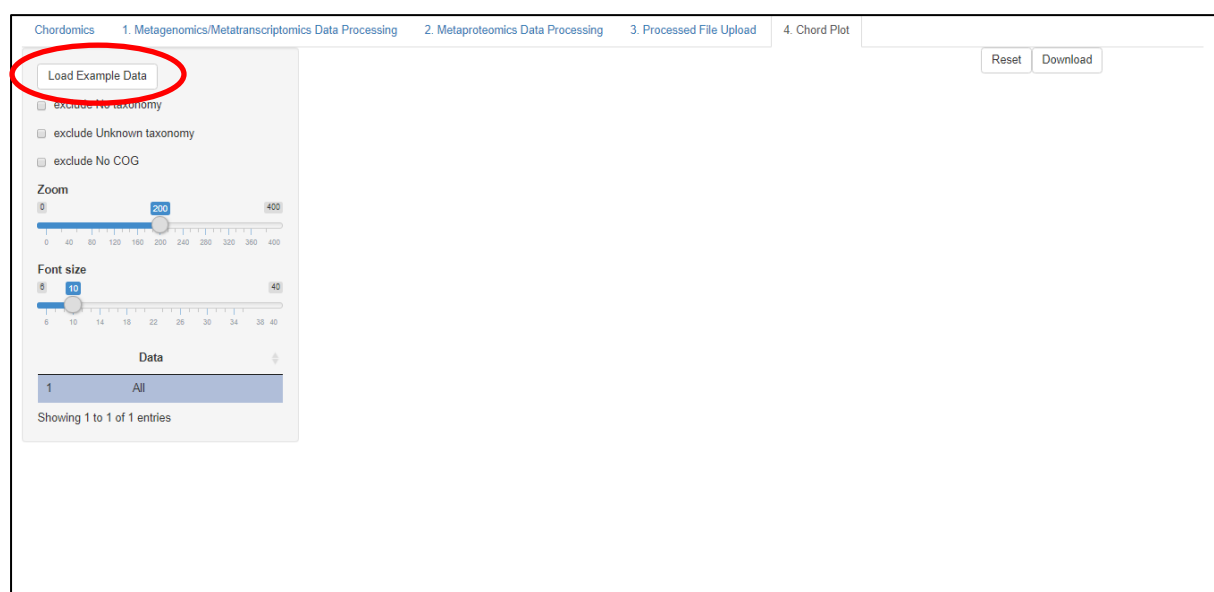
## Exploring Data with Chordomics

Chordomics provides a sample dataset so you can explore the functionality of the software.

Select Tab 4: Chord Plot

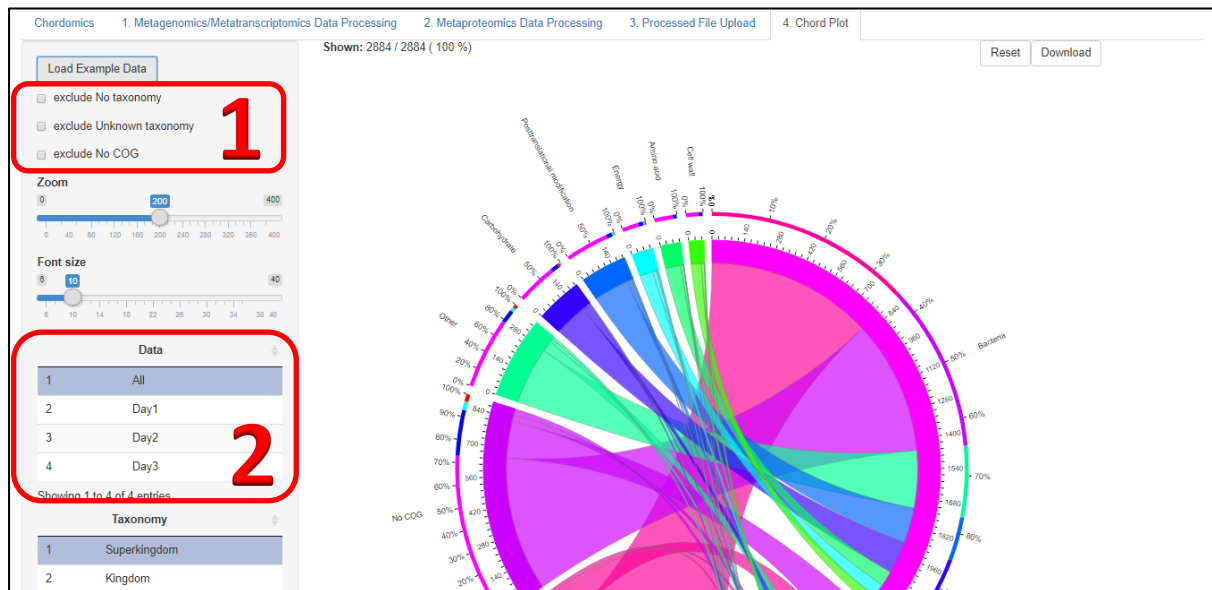


Pressing the Load Example Data button loads a sample dataset you can use to explore the software's capabilities.

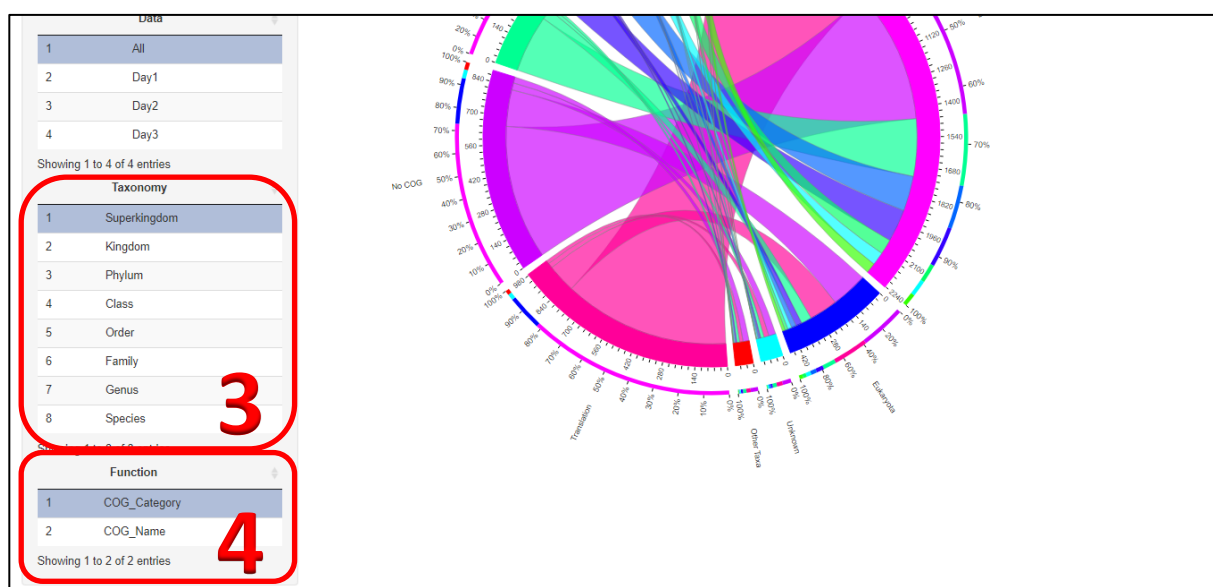


Chordomics offers many filter/resolution options for your data:

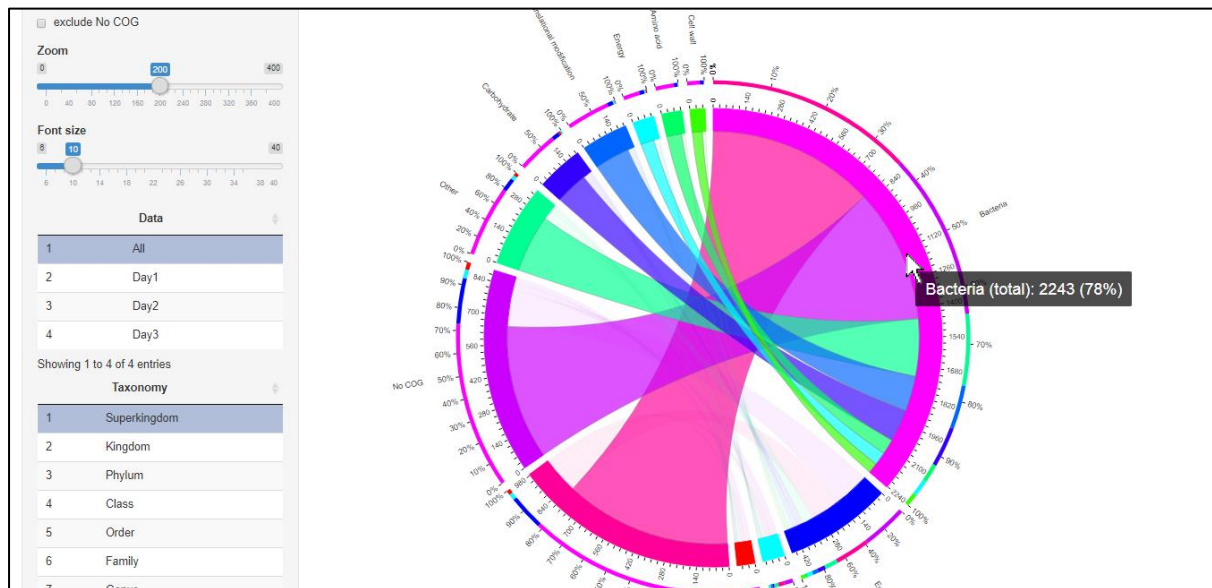
1. Exclusion filters allow non-informative data to be ignored
2. Users can select which dataset to view or explore an aggregate by selecting All



3. Users can select the level of taxonomy to view the data at
4. If the data contains two levels of function this can be selected

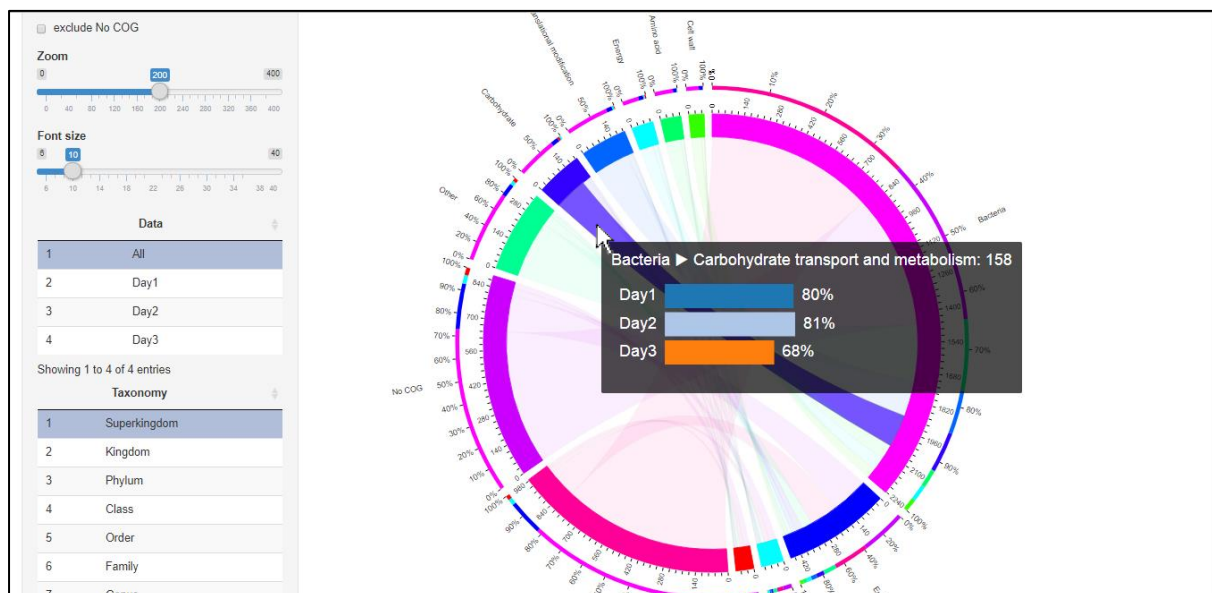


Hovering the mouse over a group arc highlights all the chords associated with it. A pop-up shows the quantity of the group as well as its percentage of all the data currently shown.



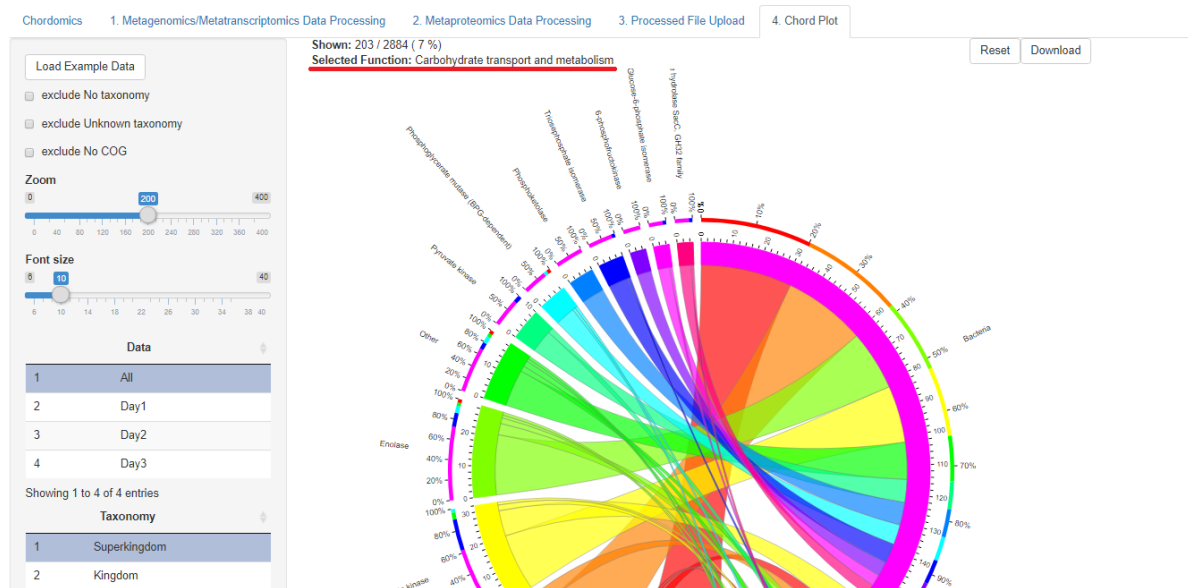
Hovering over a chord allows the user to compare the percentage of the selected function expressed by the selected taxon across each dataset.

e.g. In the example below, in Day 1 80% of the Carbohydrate transport and metabolism is expressed by bacteria whereas this has decreased to 68% by Day 3.

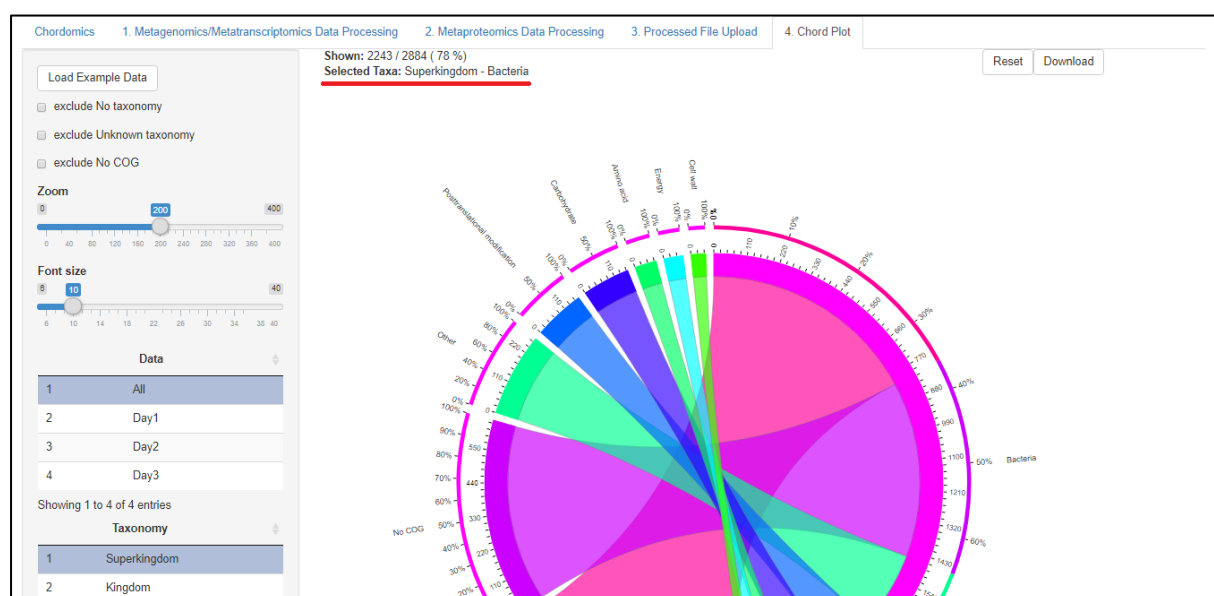


Selecting a function by clicking on its group arc filters out all data except that function. If a lower level of functional resolution is available this will be shown.

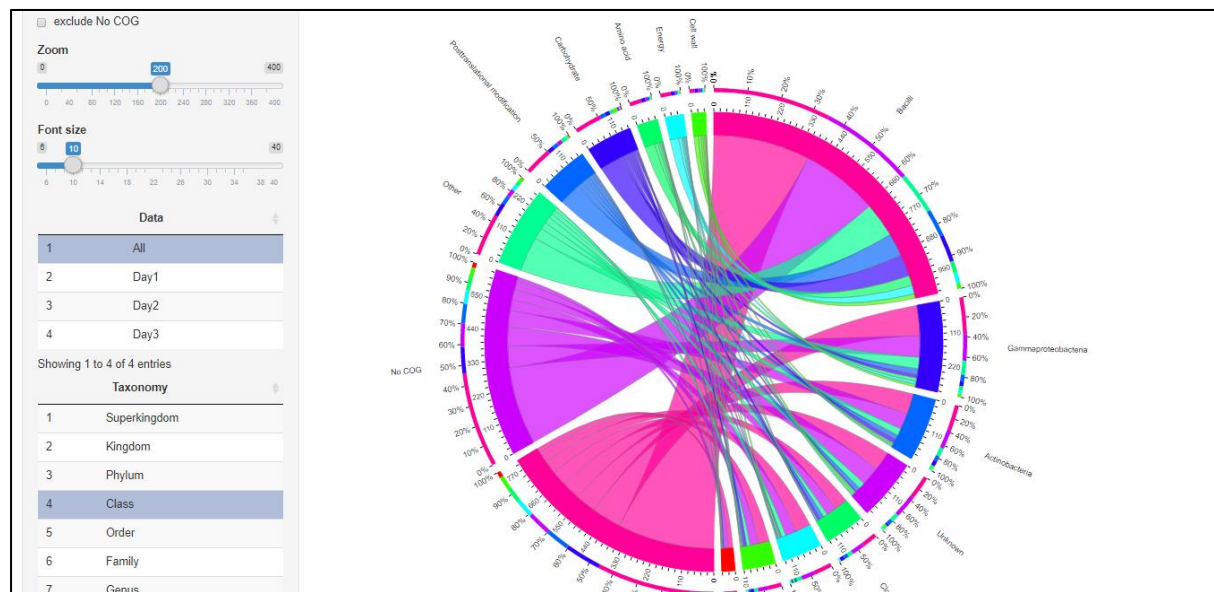
i.e. COG\_Category → COG\_Name



Similarly clicking on a taxonomic group arc filters out all others except that group. The level of resolution (Rank) can then be selected from the table on the left panel.



Here Class is selected. Therefore the plot shows all bacteria at the class level.



The data shown on the plot at any one time is shown as a fraction of the total dataset selected. The functional and taxonomic selections are also highlighted.

e.g Here Carbohydrate metabolism and Bacteria are selected. This accounts for 5.5% of all the data as shown.

