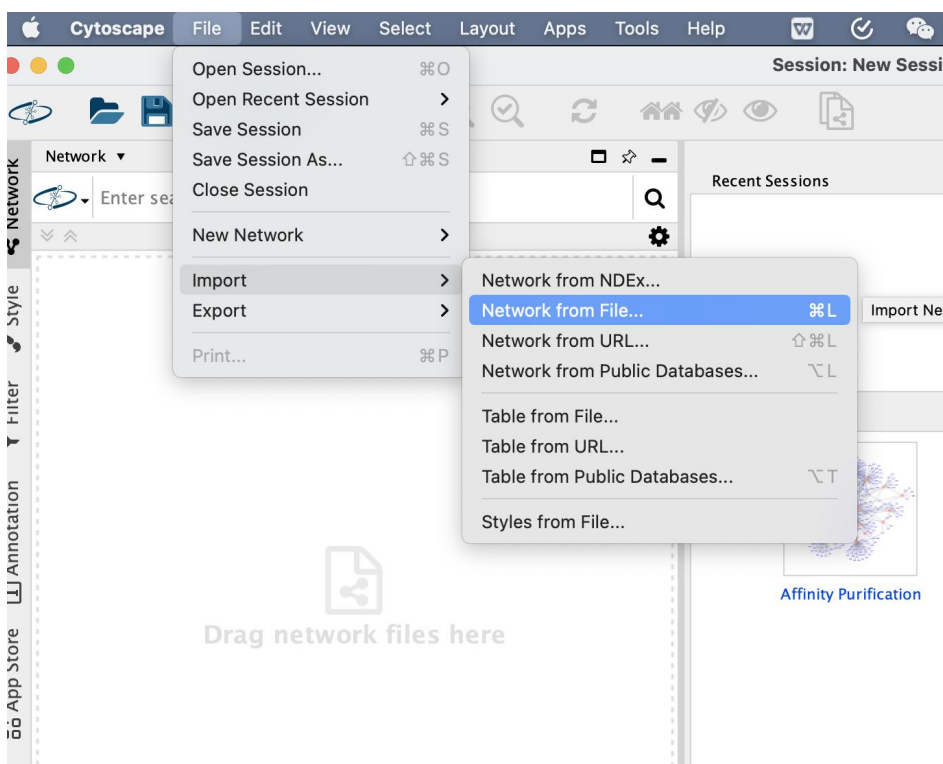
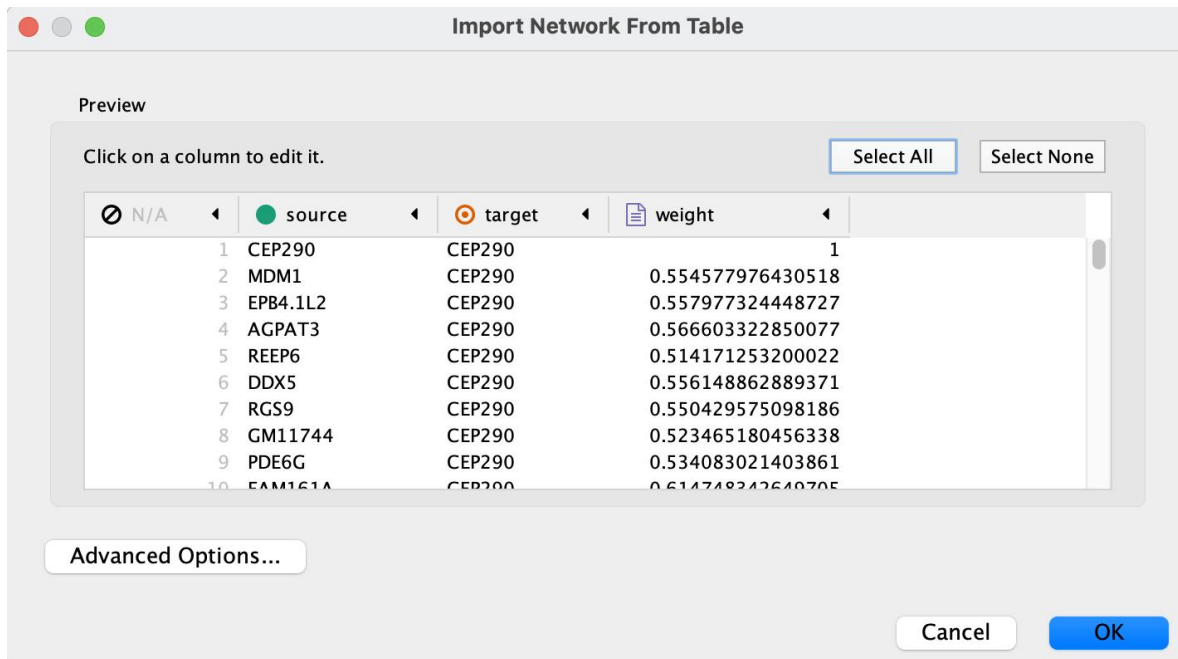


Lab2-Network Visualization

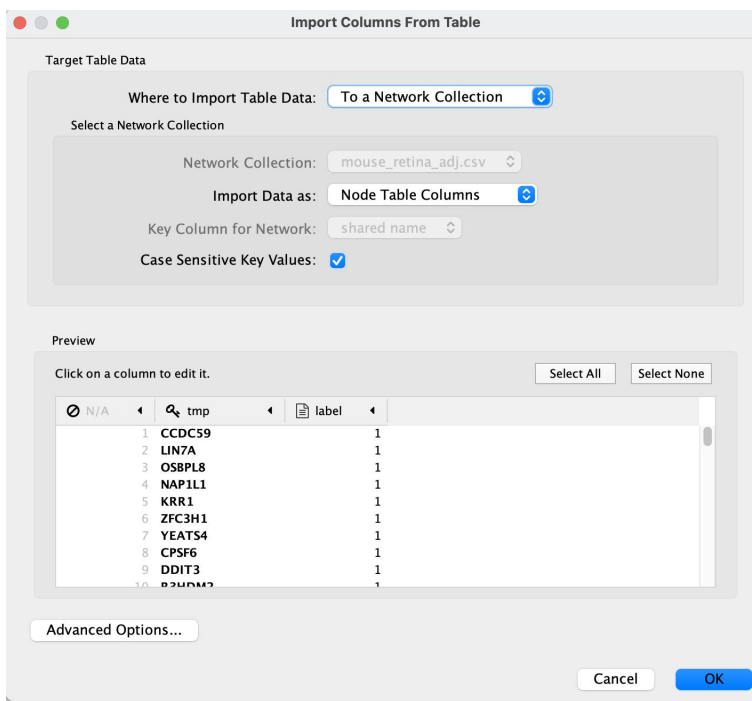
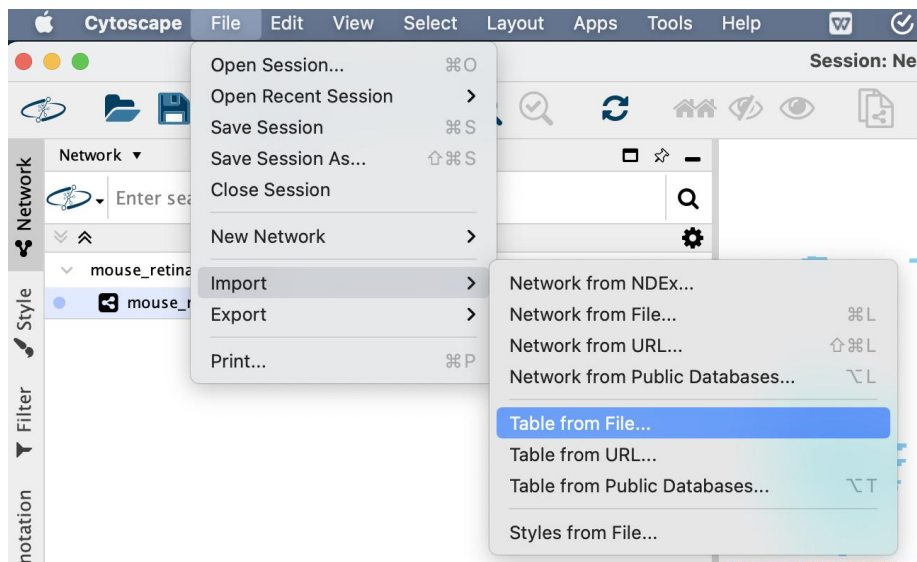
Please download the data “mouse_retina_adj” and “mouse_retina_node_label” from iSpace.

1. Download Cytoscape from <https://cytoscape.org/>
2. Import network into Cytoscape (mouse_retina_adj) . Remember to set source and target.





3. Import node label into network (mouse_retina_node_label).

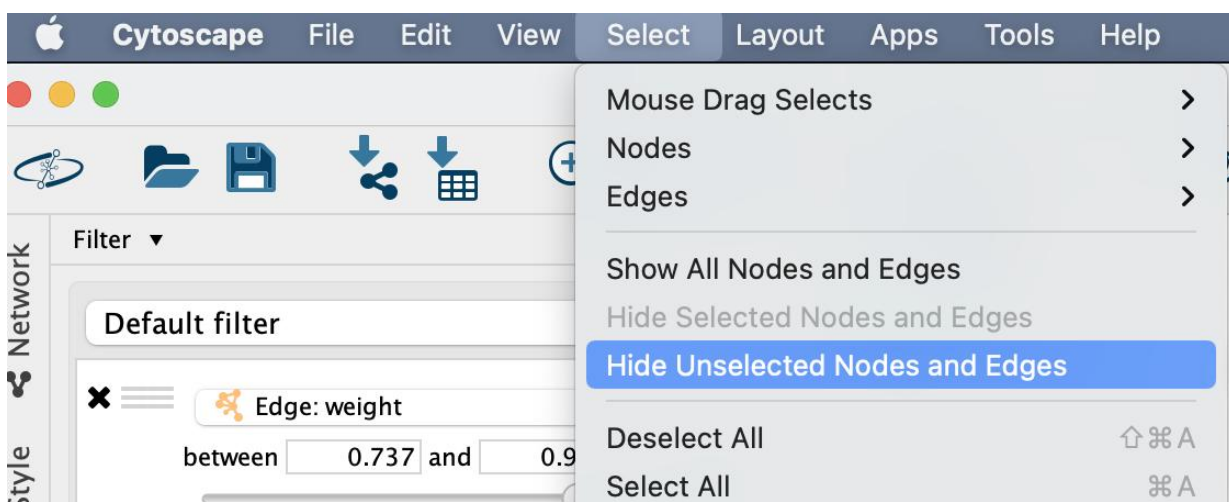
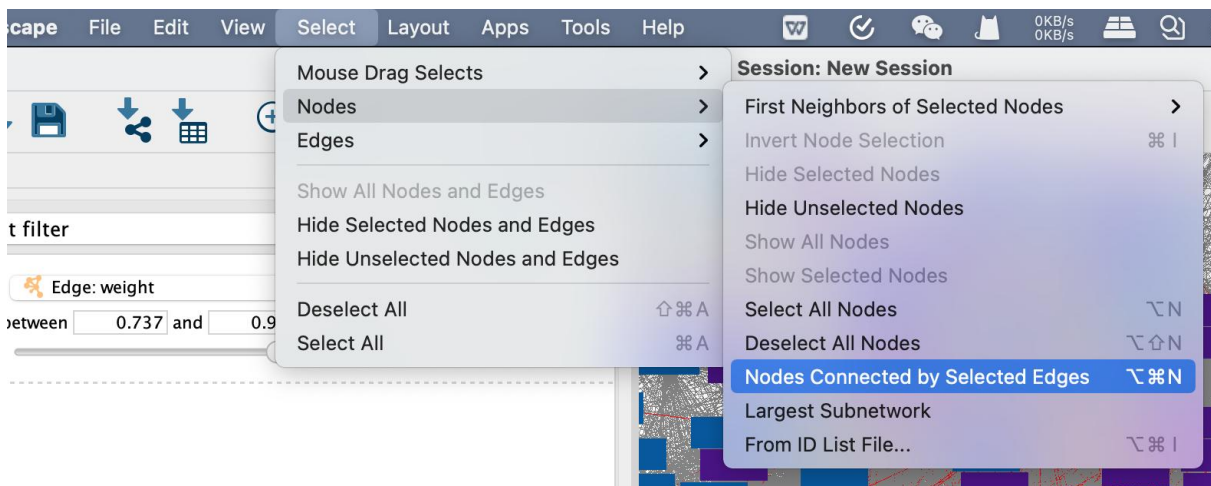
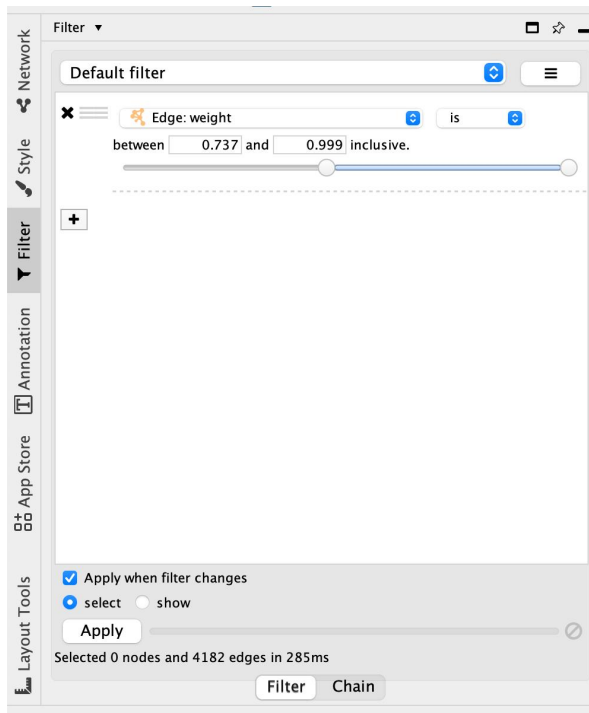


4. Calculate network statistics by click Tools-> analyze network

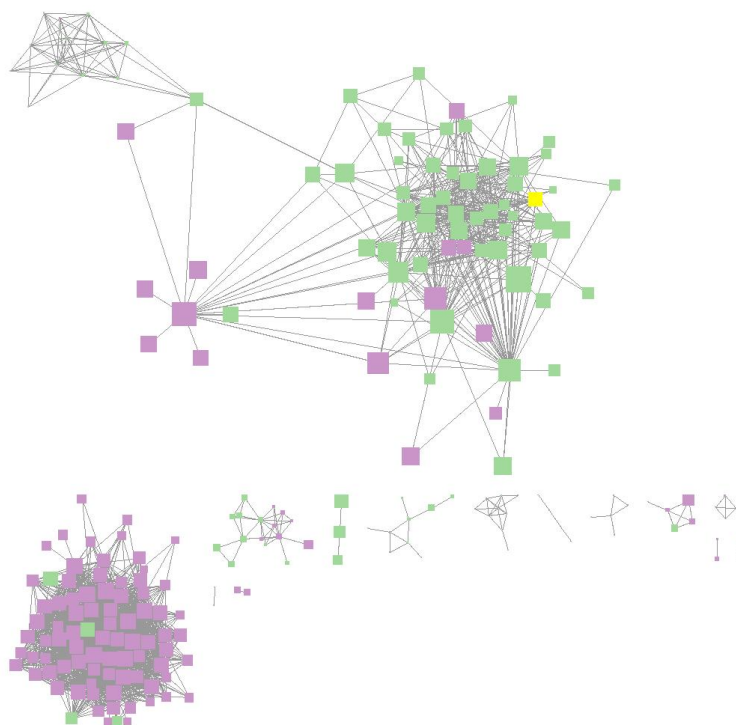
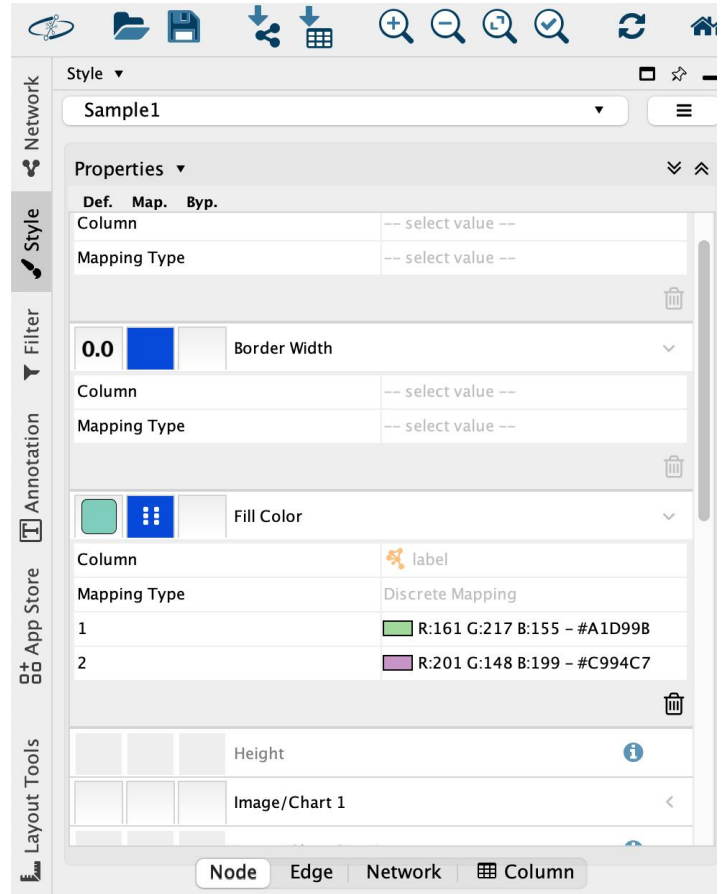
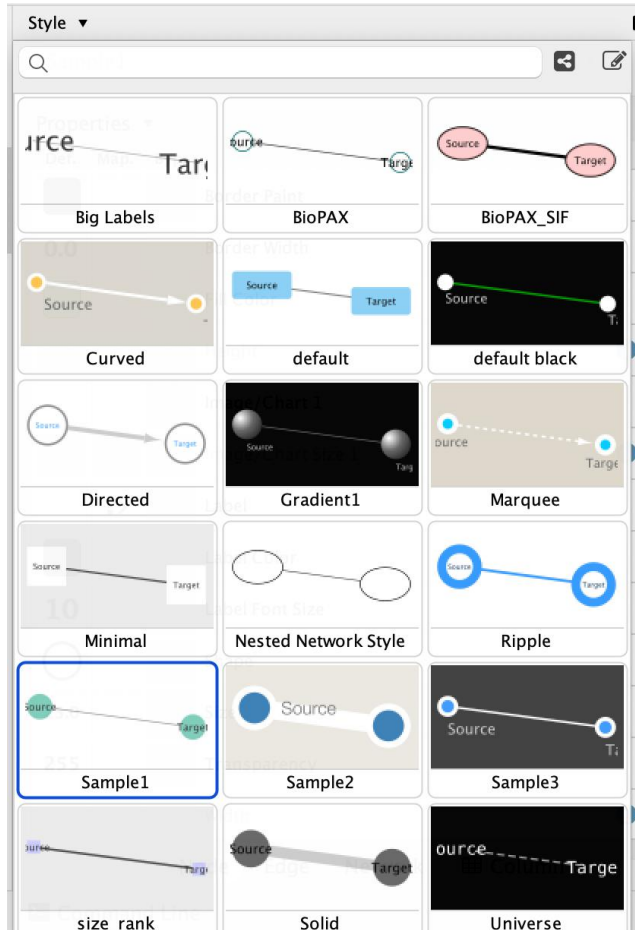
5. Apply filter according to edge weight.

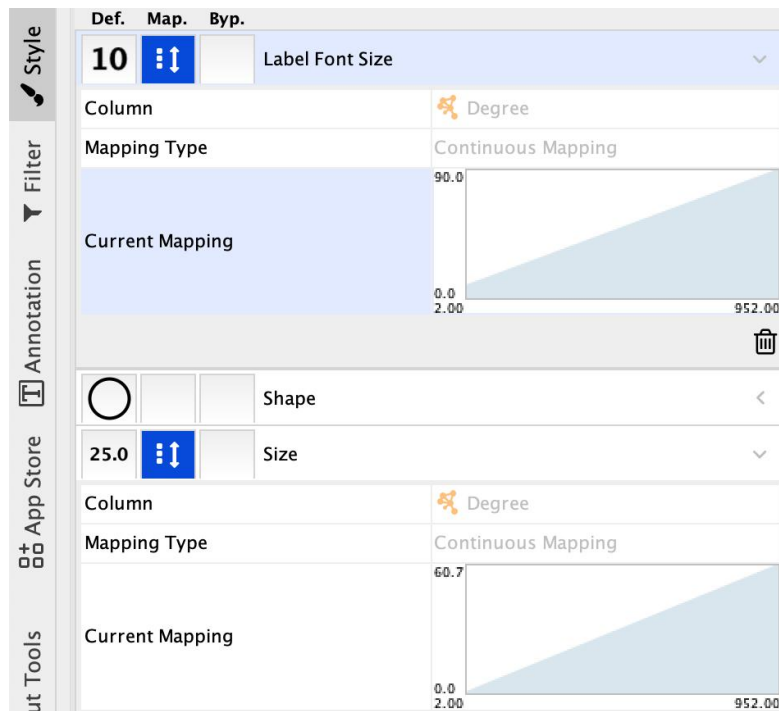
Select the edges and the connected nodes.

Hide unselected edges and nodes.

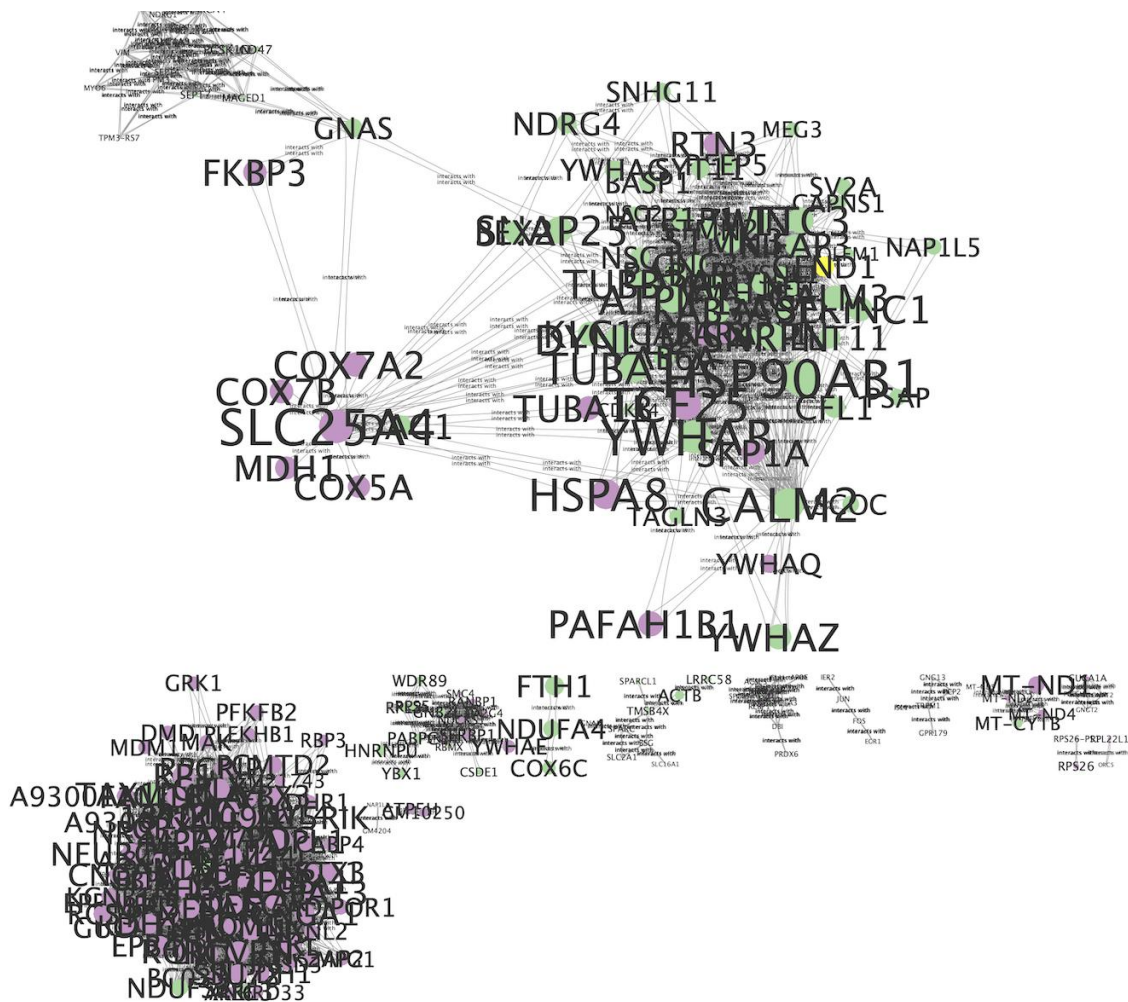


6. Do visualisation to identify the important genes. Try "yFile organic layout", "force directed layout" and other layout; change style to sample1; set node color for each community; set label size and node width according to degree.





7. Drag mouse to see the network, Observe and list the important genes. Find the gene annotation of the important genes from GeneCard.



8. Export to save the network as image.

