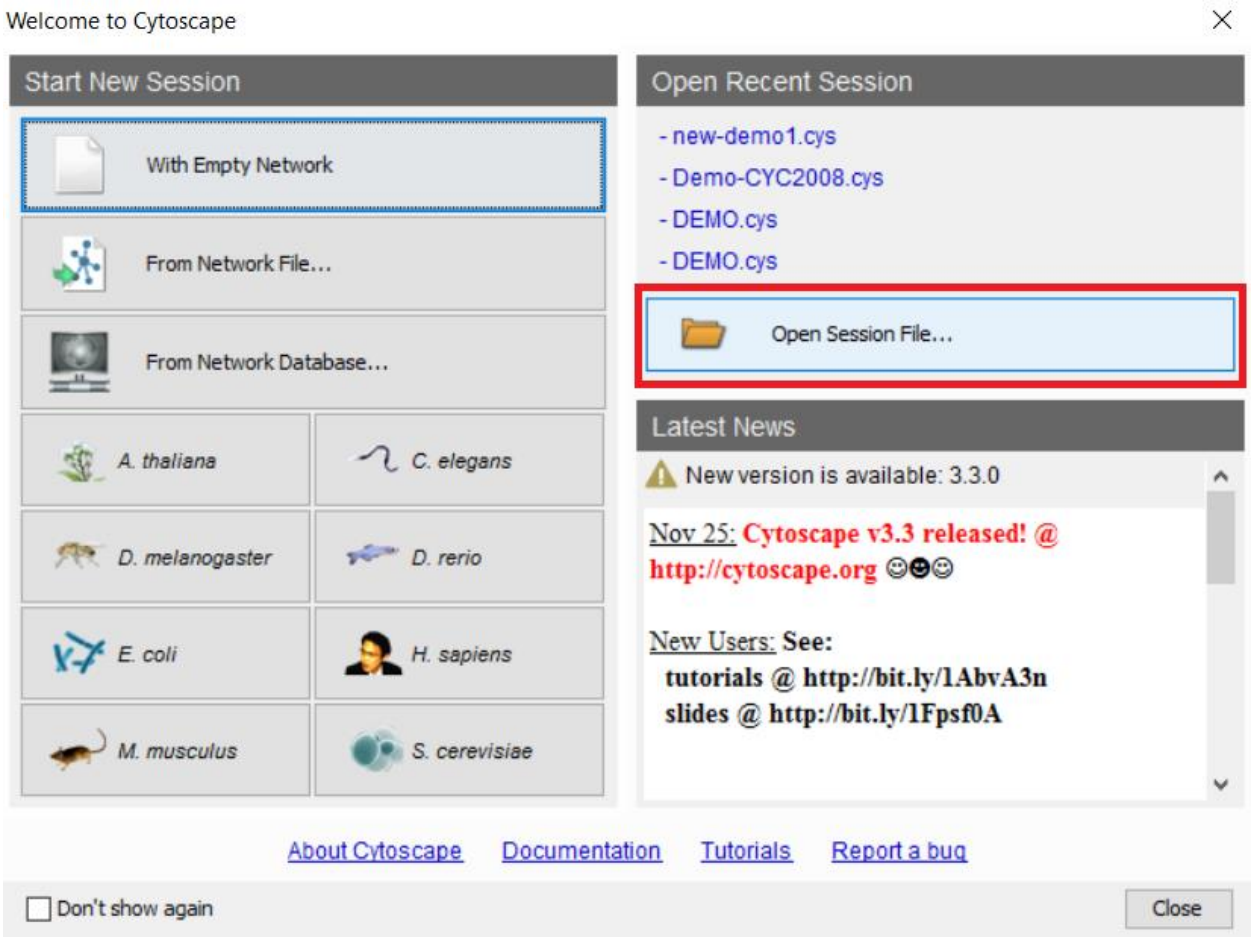
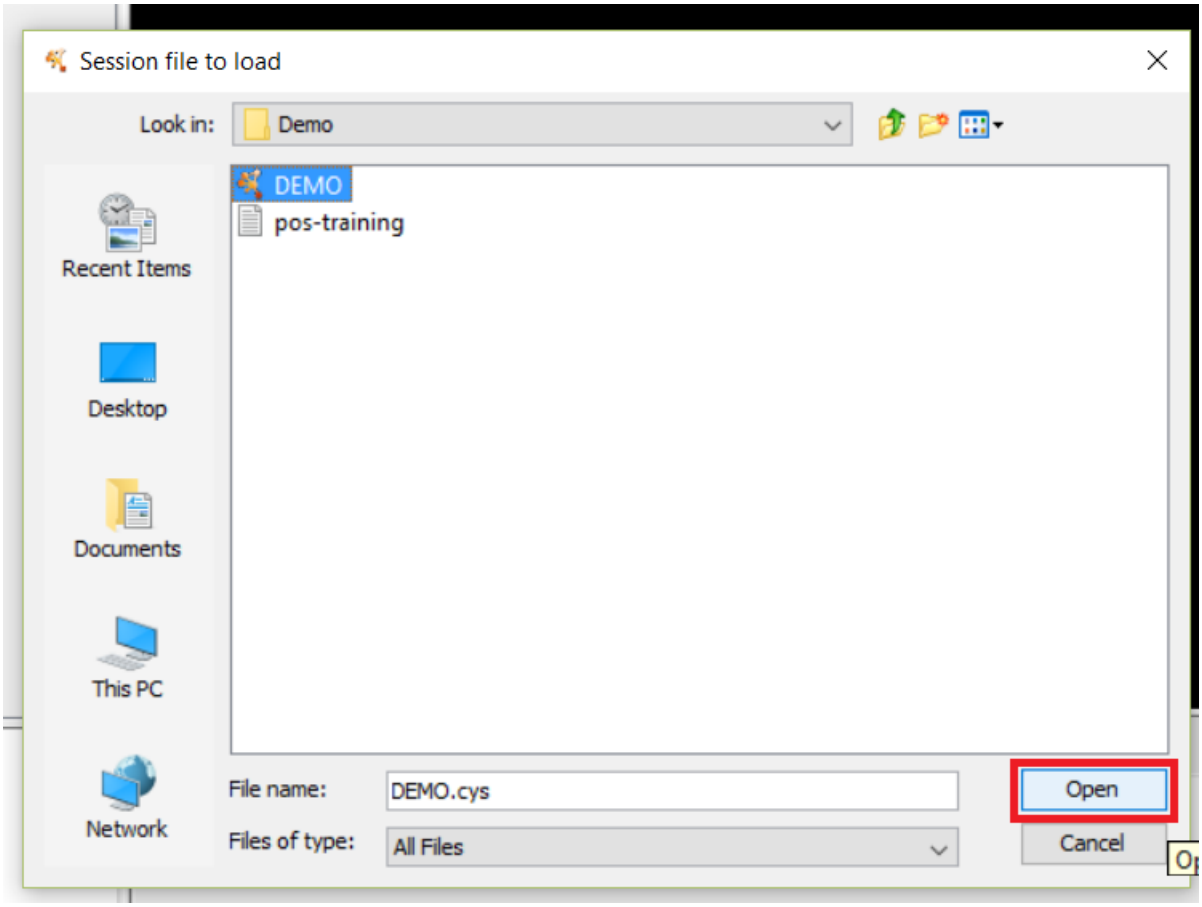
This demo contains two files: DEMO.cys (a session file containing a pre-created Bayesian Model) and training-tap06.txt (a text file containing the positive training data that will be used to train the network).

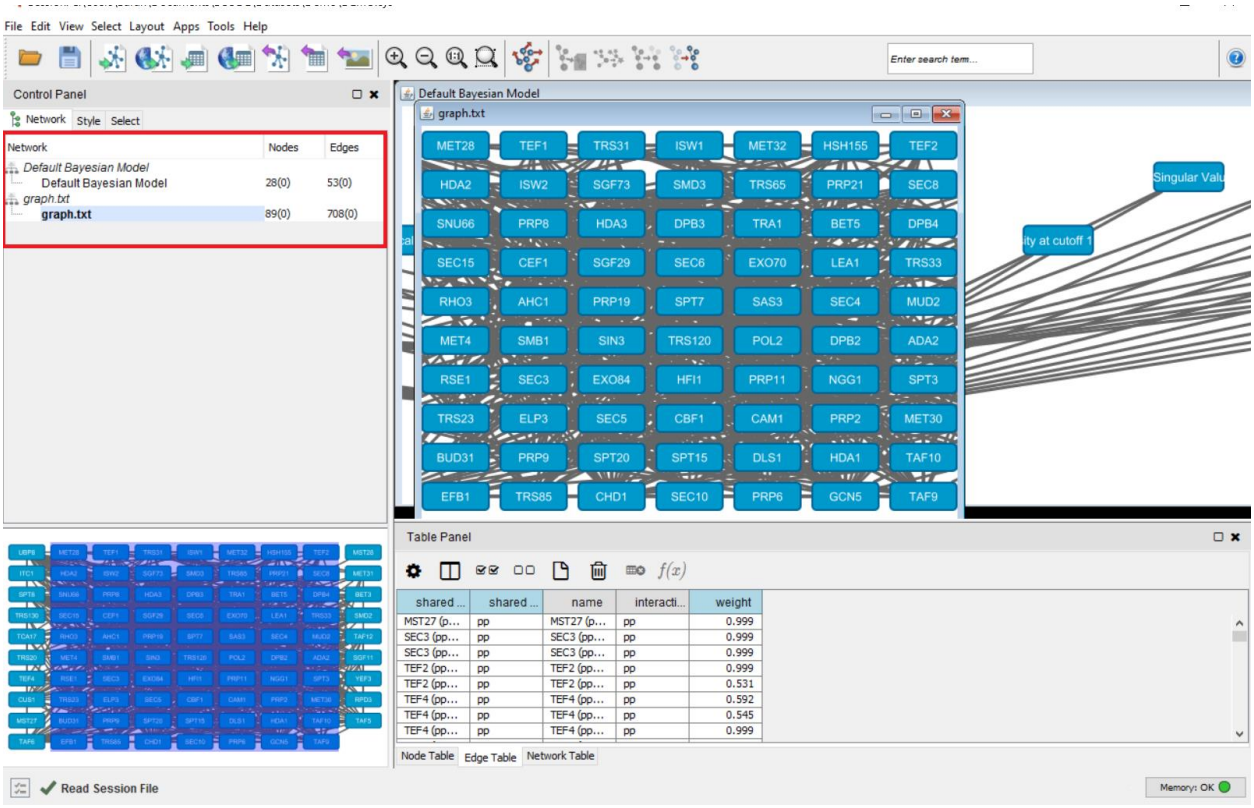
First, open Cytoscape. In the welcome window, click the button to '**Open Session File**' and select DEMO.cys.



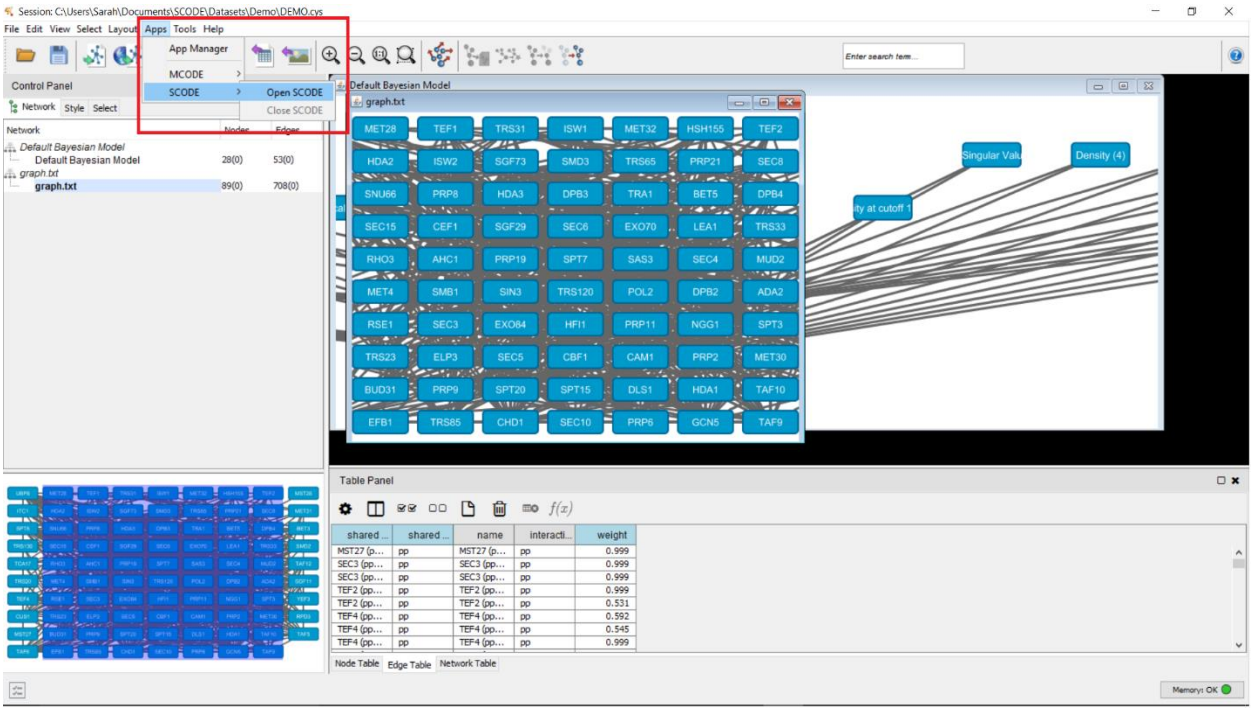


Once the session file has been read, you'll notice two networks in the 'Control Panel' on the left of the screen

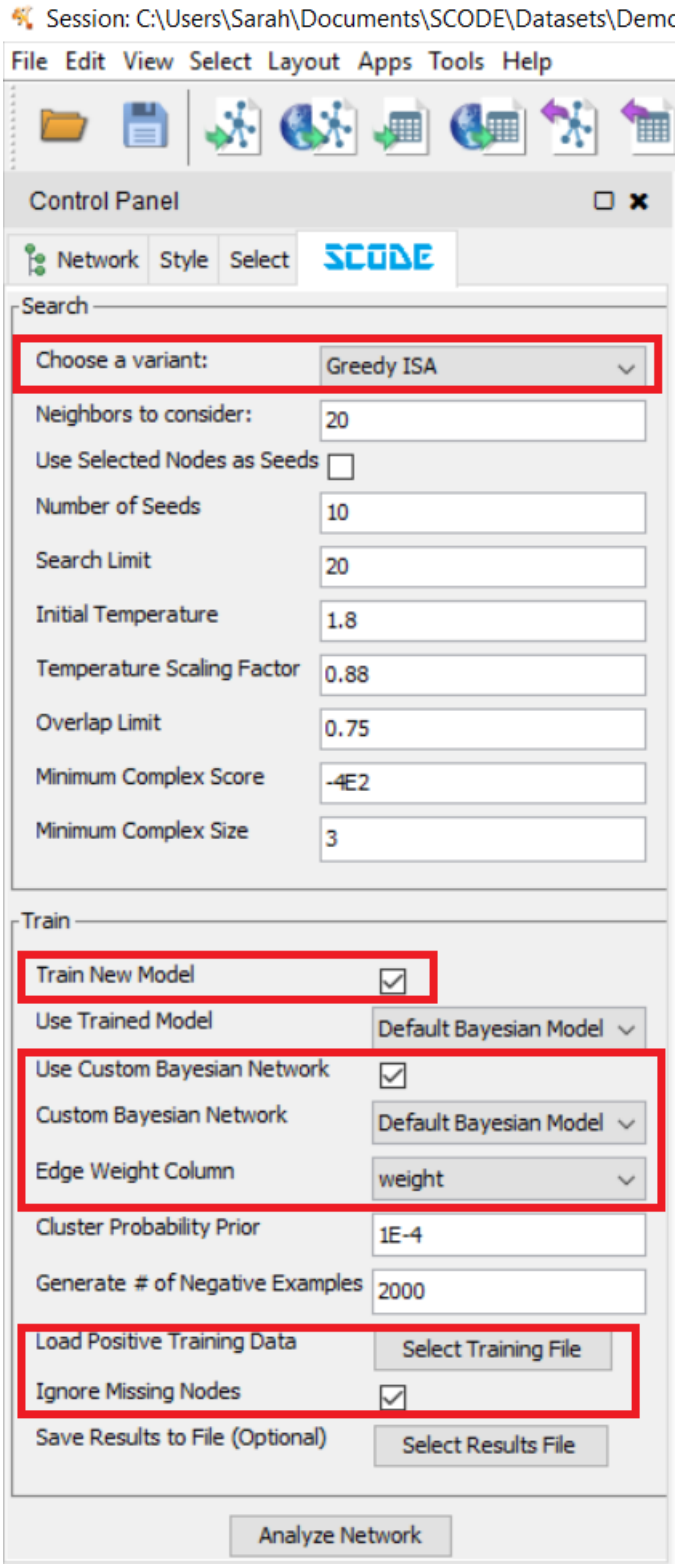
- Default Bayesian Model: the Bayesian model that will be used for training
- graph.txt contains the protein network that will be trained



In the top menu bar, select **Apps > SCODE > Open SCODE**.



A panel will appear on the left, allowing you to set the parameters of the search and training.



Three variants are available: Greedy ISA, M ISA, and ISA.

For the fastest but least-quality training, use ISA. For slower but better-quality complex identification, use M-ISA. For the slowest but best quality complexes, use Greedy ISA.

You may adjust the remaining search parameters as is fitting. For more information about the search parameters, see Section 4a.

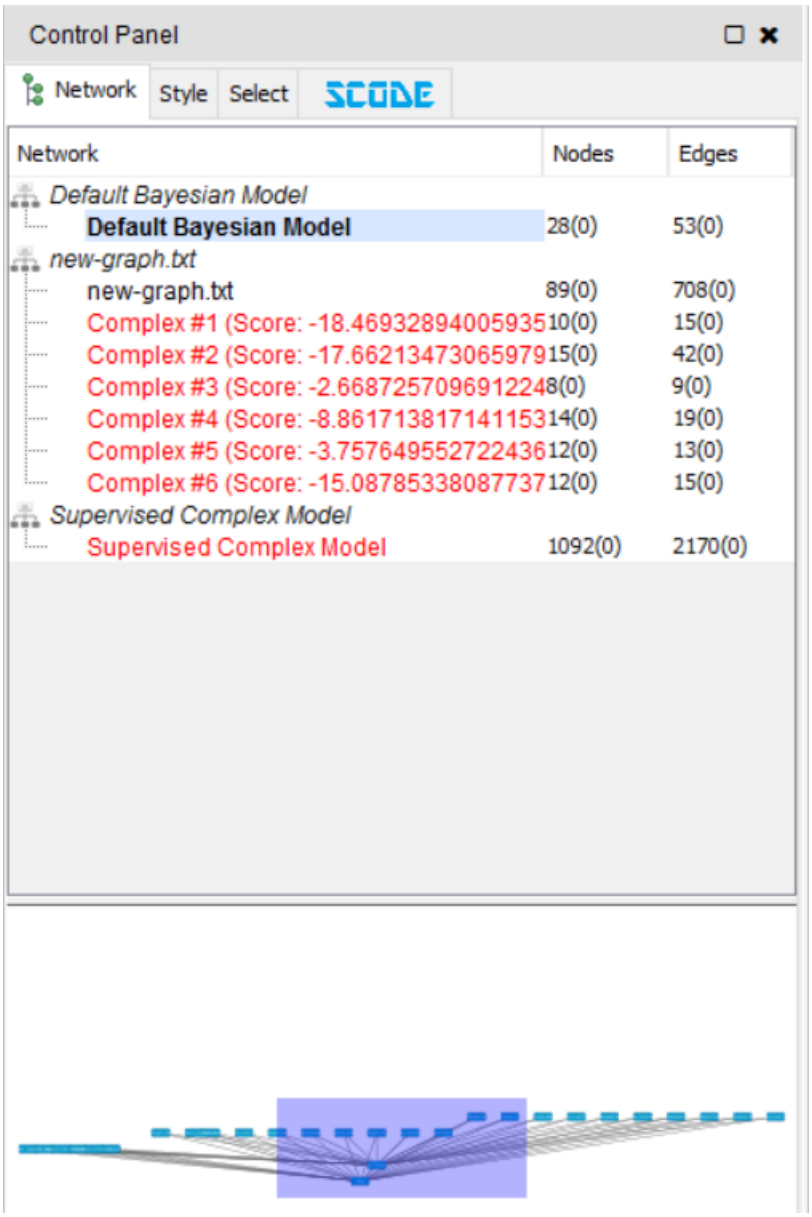
Under '**Train Model**', select the checkbox for '**Train New Model'** and **'Use Custom Bayesian Network'**.

- Select the network titled 'Default Bayesian Network' to use as your custom Bayesian network
- The edge weight column is labeled 'weight'

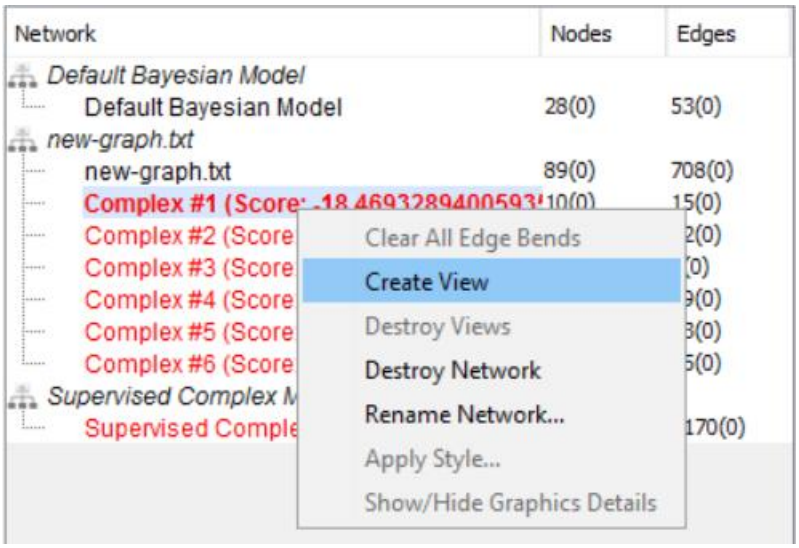
Select the file 'training-tap06.txt' to load positive training data.

Once you have set the parameter, a dialog will appear to show the progress of the search and training tasks.

When complete, the list of found complexes will appear in the left control panel under the 'Network' Tab:



To visualize a particular complex, left click on its name and select 'Create View'


Network
Nodes
Edges
Default Bayesian Model
Default Bayesian Model
28(0)
53(0)
new-graph.txt
new-graph.txt
89(0)
708(0)
Complex #1 (Score:
10(0)
15(0)
Complex #2 (Score
Complex #3 (Score
Complex #4 (Score
Complex #5 (Score
Complex #6 (Score
Supervised Complex M
Supervised Comple
170(0)
Clear All Edge Bends
Create View
Destroy Views
Destroy Network
Rename Network...
Apply Style...
Show/Hide Graphics Details