

This tutorial contains step-by-step instructions to post-process STrack results using Cytoscape. This provides an interactive framework to:

- Display Strack results and modify the network's appearance to your liking:
- Edit STrack results by removing/ adding tracks

1. Install Cytoscape on your computer:

You will find information on how to download and install Cytoscape on this web page:

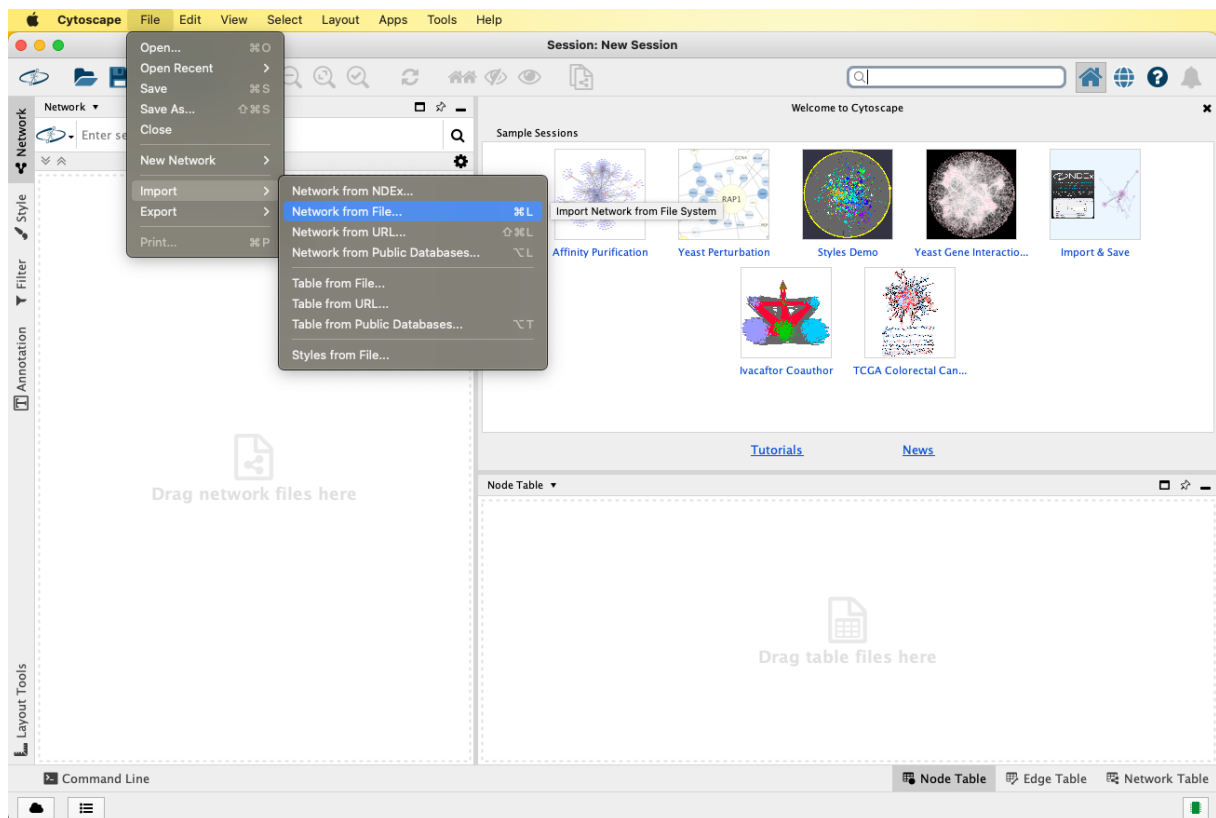
<https://cytoscape.org/>

The web page also contains exhaustive documentation, tutorials and videos on Cytoscape. Feel free to explore the content if you need any information that you lack in this short and condensed tutorial.

2. Import the “complete\_tracking\_table.csv”, that contains tracks that were identified by STrack for all timepoints in your timelapse, into Cytoscape:

Click on File > Import > Network from File

Browse to the “complete\_tracking\_table.csv” and click on “Open”



3. Define the columns to use as source node, target node, and further information on the network (in this step, we define the mother cells as source nodes and the daughter cells as target nodes to build a network of all links).

Import Network From Table

Preview

Click on a column to edit it.

Select All

Select None

id_nb	Centroid_x	Centroid_y	Mother_mask	Pctg_matching
2.0	329.0	403.0		
3.0	338.0	394.0		
4.0	319.0	419.0		
5.0	334.0	398.0		
6.0	320.0	421.0		
7.0	321.0	420.0		
8.0	327.0	400.0		

Advanced Options...

Mother\_mask

Meaning:

LocalShared

Data Type:

ab	1	123	1.0	y/n
[ ab ]	[ 1 ]	[ 123 ]	[ 1.0 ]	[ y/n ]

List Delimiter: |

OK