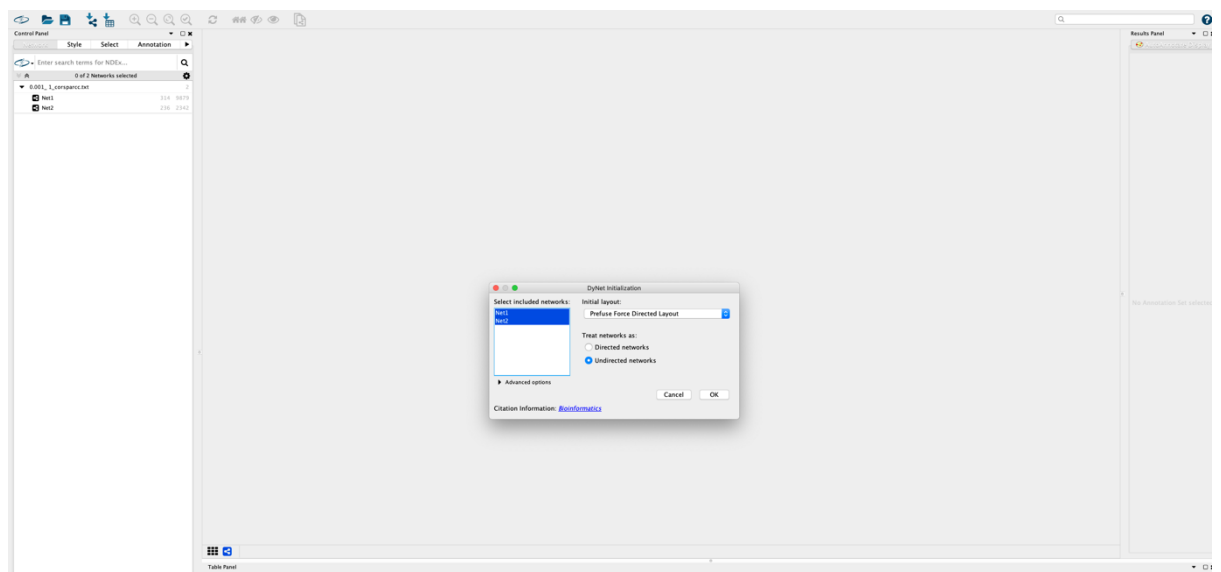
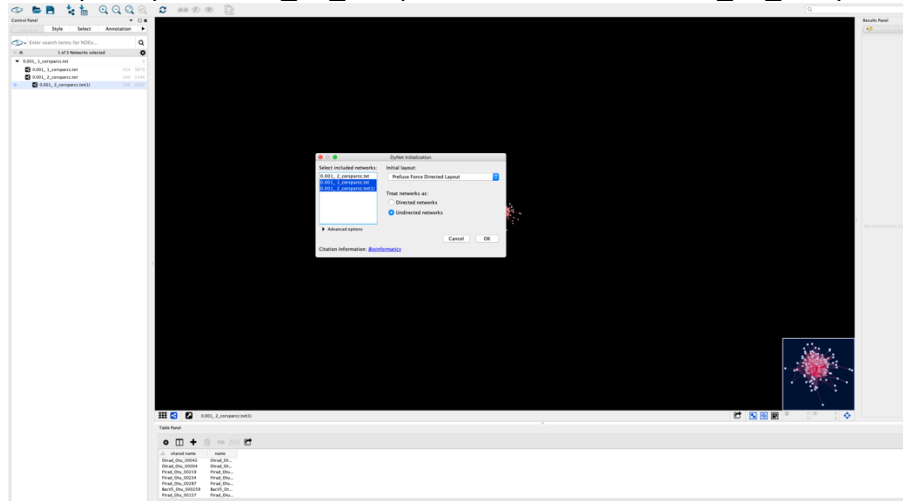


Steps :

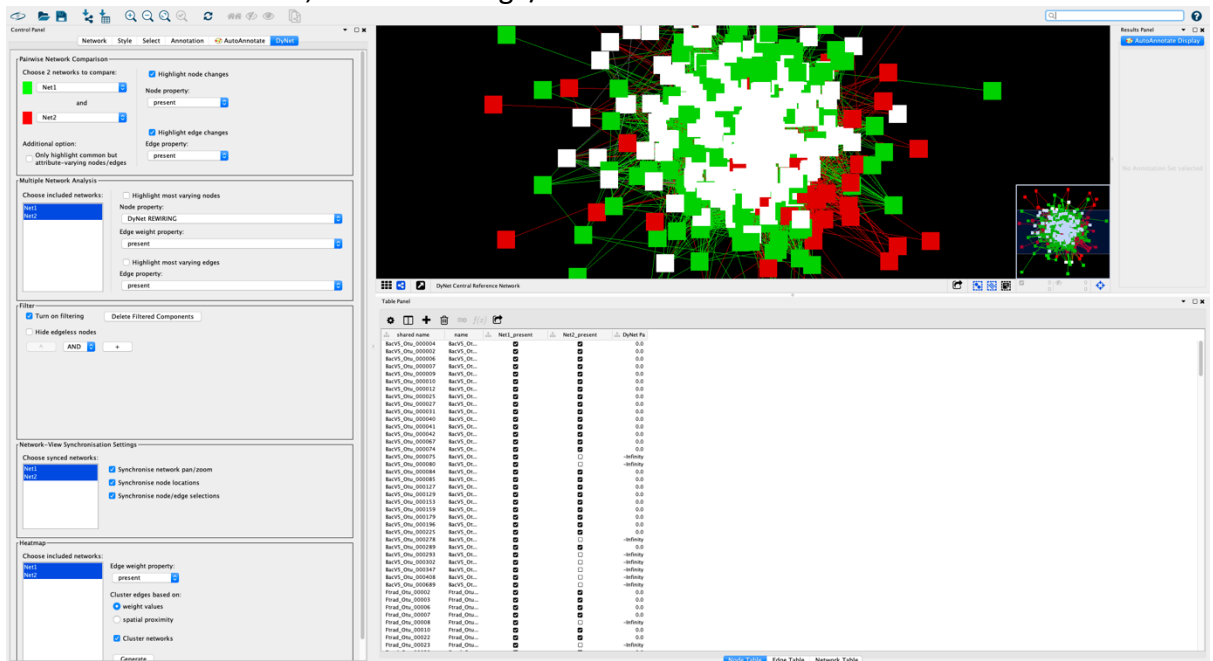
Install DyNet in Cytoscape

Calculate Rewiring Dnscore for pairs of months using
(nov-dec , dec-jan, jan-feb, Feb-March)

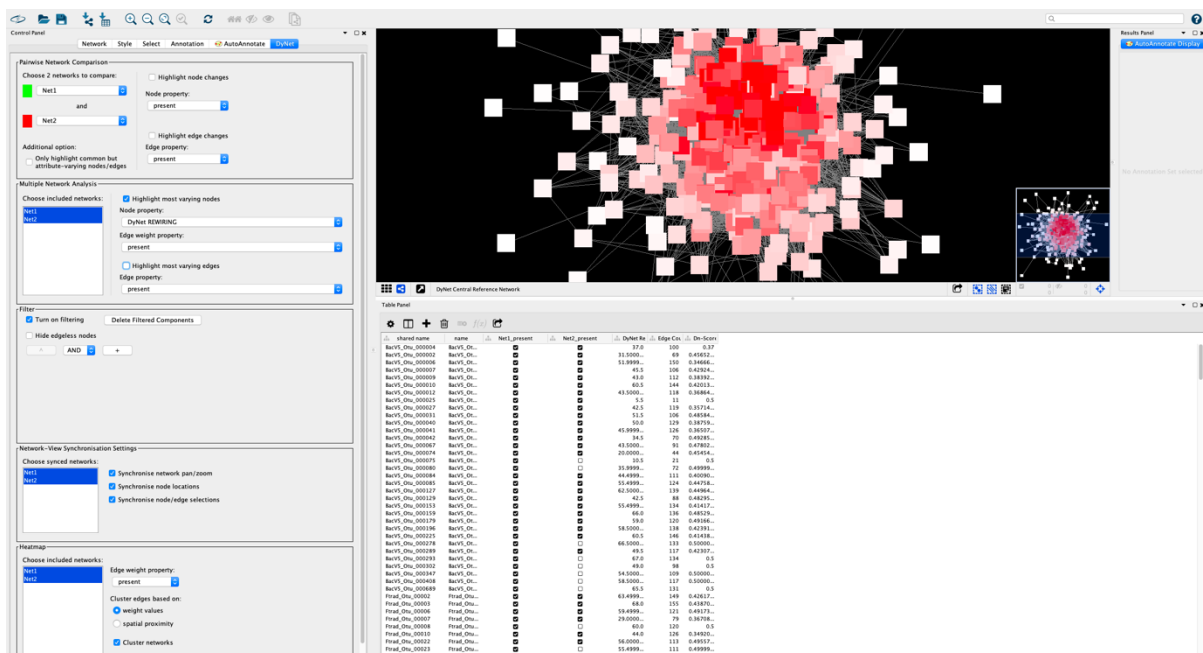
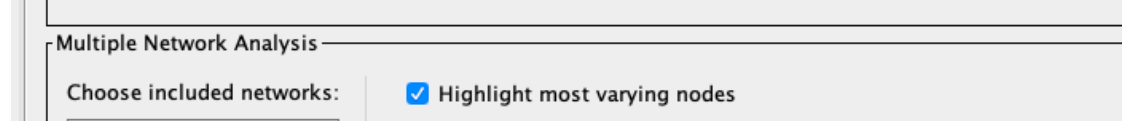
Example: open 0.001_11_corsparcc.txt and then 0.001_11_corsparcc.txt



Parameters are default, I did not change/



Enable to calculate nodes rewiring score



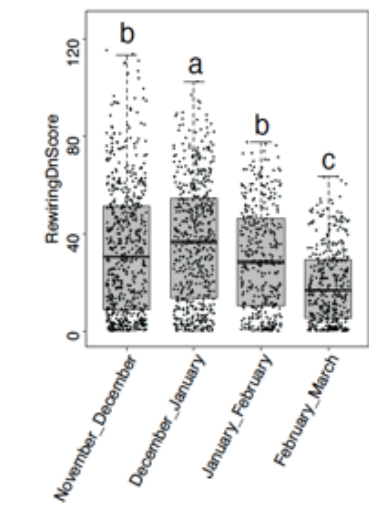
Now export node table and edge table for each pairs and save in :
Step4_DyNetwork/node_edge_tables_FromDyNet/*

Rest are not important will be explain later

This panel(node table) and this column

DyNet Rewiring (Dn-score)
51.00000000000000

 will be use to calculate figure 4E in R script: (later I will explain)



Look to edge table:

shared name	shared interaction	name	interaction	Net1_name	Net1_Pvalue	Net1_Cor	Net1_present	Net2_name	Net2_Cor	Net2_Pvalue	Net2_present
BacV5_Otu_00004...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00000...	0.0	-0.6005789317...	☑				☐
BacV5_Otu_00006...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00000...	0.0	-0.6577092765...	☑				☐
BacV5_Otu_00006...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00000...	0.0	0.632412303391	☑	BacV5_Otu_00000...	0.522637535492	0.001	☑
BacV5_Otu_00007...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00000...	0.0	0.654472977285	☑	BacV5_Otu_00000...	0.527430046756	0.0	☑
BacV5_Otu_00007...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00000...	0.0	0.584152293929	☑				☐
BacV5_Otu_00007...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00000...	0.0	-0.6158718062...	☑	BacV5_Otu_00000...	-0.4565933821...	0.001	☑
BacV5_Otu_00009...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00000...	0.0	-0.602369960...	☑				☐
BacV5_Otu_00009...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00000...	0.0	0.724019506597	☑	BacV5_Otu_00000...	-0.5309114321...	0.001	☑
BacV5_Otu_00009...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00000...	0.0	0.822202765048	☑	BacV5_Otu_00000...	-0.5168998676...	0.0	☑
BacV5_Otu_00009...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00000...	0.001	-0.4642089726...	☑				☐
BacV5_Otu_00009...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00000...	0.0	0.748046575818	☑				☐
BacV5_Otu_00010...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00001...	0.0	0.758544718527	☑	BacV5_Otu_00001...	0.563350417287	0.0	☑
BacV5_Otu_00010...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00001...	0.0	0.601308705844	☑				☐
BacV5_Otu_00010...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00001...	0.001	-0.4473238738...	☑	BacV5_Otu_00001...	-0.5949724366...	0.0	☑
BacV5_Otu_00010...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00001...	0.0	-0.6867312675...	☑	BacV5_Otu_00001...	-0.5538656368...	0.0	☑
BacV5_Otu_00010...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00001...	0.0	0.752411609009	☑	BacV5_Otu_00001...	0.710374042548	0.0	☑
BacV5_Otu_00010...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00001...	0.0	-0.5176028982...	☑	BacV5_Otu_00001...	0.526653014137	0.0	☑
BacV5_Otu_00012...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00001...	0.0	-0.6250752857...	☑				☐
BacV5_Otu_00012...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00001...	0.0	0.666918204255	☑	BacV5_Otu_00001...	0.530098150428	0.0	☑
BacV5_Otu_00012...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00001...	0.0	0.812520049853	☑	BacV5_Otu_00001...	0.720825138367	0.0	☑
BacV5_Otu_00012...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00001...	0.0	0.698380931079	☑				☐
BacV5_Otu_00012...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00001...	0.0	0.798373295057	☑	BacV5_Otu_00001...	-0.4620470751	0.001	☑
BacV5_Otu_00012...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00001...	0.0	-0.4973160746...	☑	BacV5_Otu_00001...	-0.6898769103...	0.0	☑
BacV5_Otu_00025...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00002...	0.0	0.498304980906	☑				☐
BacV5_Otu_00025...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00002...	0.001	0.471375045807	☑				☐
BacV5_Otu_00025...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00002...	0.001	0.483760484222	☑				☐
BacV5_Otu_00027...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00002...	0.0	-0.6977295144...	☑				☐
BacV5_Otu_00027...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00002...	0.0	0.864177266935	☑	BacV5_Otu_00002...	0.88735802539	0.0	☑
BacV5_Otu_00027...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00002...	0.0	0.79858837996	☑	BacV5_Otu_00002...	0.571651753926	0.0	☑
BacV5_Otu_00027...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00002...	0.0	0.753823825645	☑				☐
BacV5_Otu_00027...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00002...	0.0	0.75563314468	☑	BacV5_Otu_00002...	-0.5885159877...	0.0	☑
BacV5_Otu_00027...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00002...	0.0	-0.5202482004...	☑	BacV5_Otu_00002...	-0.5304222399...	0.0	☑
BacV5_Otu_00027...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00002...	0.0	0.793686243136	☑	BacV5_Otu_00002...	0.539678398786	0.0	☑
BacV5_Otu_00031...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00003...	0.0	0.60633910011	☑				☐
BacV5_Otu_00031...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00003...	0.0	0.581137635614	☑				☐
BacV5_Otu_00031...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00003...	0.0	-0.4726045658...	☑				☐
BacV5_Otu_00031...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00003...	0.0	0.681086006687	☑				☐
BacV5_Otu_00031...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00003...	0.0	0.690784558825	☑				☐
BacV5_Otu_00031...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00003...	0.0	0.57611045248	☑				☐
BacV5_Otu_00031...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00003...	0.0	0.540988259326	☑				☐
BacV5_Otu_00031...	interacts with	BacV5_Otu_...	interacts with	BacV5_Otu_00003...	0.001	0.479770089713	☑	BacV5_Otu_00003...	0.488040342997	0.0	☑

Here are all the interaction(net1) and net2 separately.

If an edge is present in net1 and not Net2 then there is present symbol:

shared name	shared interaction	name	interaction	Net1_name	Net1_Pvalue	Net1_Cor	Net1_present	Net2_name	Net2_Cor	Net2_Pvalue	Net2_present
BacV5_Otu_000004...	interacts with	BacV5_Ot...	interacts with	BacV5_Otu_00000...	0.0	-0.6005789317...	<input checked="" type="checkbox"/>				<input type="checkbox"/>
BacV5_Otu_000006...	interacts with	BacV5_Ot...	interacts with	BacV5_Otu_00000...	0.0	-0.6577092765...	<input checked="" type="checkbox"/>				<input type="checkbox"/>

If an edge is present in net2 and not Net1 then there is present symbol:

BacV5_Otu_000004...	interacts with	BacV5_Ot...	interacts with				<input type="checkbox"/>	BacV5_Otu_000015...	-0.4398625945...	0.001	<input checked="" type="checkbox"/>
BacV5_Otu_000159...	interacts with	BacV5_Ot...	interacts with				<input type="checkbox"/>	BacV5_Otu_00019...	-0.4564046900...	0.0	<input checked="" type="checkbox"/>
BacV5_Otu_000196...	interacts with	BacV5_Ot...	interacts with				<input type="checkbox"/>	BacV5_Otu_00019...	-0.4555928994...	0.0	<input checked="" type="checkbox"/>
BacV5_Otu_000196...	interacts with	BacV5_Ot...	interacts with				<input type="checkbox"/>	BacV5_Otu_00019...	-0.4536215839...	0.001	<input checked="" type="checkbox"/>
BacV5_Otu_000196...	interacts with	BacV5_Ot...	interacts with				<input type="checkbox"/>	BacV5_Otu_00019...	-0.4103972090...	0.0	<input checked="" type="checkbox"/>
BacV5_Otu_000196...	interacts with	BacV5_Ot...	interacts with				<input type="checkbox"/>	BacV5_Otu_00019...	-0.3678369332...	0.001	<input checked="" type="checkbox"/>
BacV5_Otu_000196...	interacts with	BacV5_Ot...	interacts with				<input type="checkbox"/>	BacV5_Otu_00019...	0.466550636888	0.0	<input checked="" type="checkbox"/>
BacV5_Otu_000225...	interacts with	BacV5_Ot...	interacts with				<input type="checkbox"/>	BacV5_Otu_00022...	-0.3657313826...	0.0	<input checked="" type="checkbox"/>
BacV5_Otu_000225...	interacts with	BacV5_Ot...	interacts with				<input type="checkbox"/>	BacV5_Otu_00022...	-0.37267778777	0.001	<input checked="" type="checkbox"/>
BacV5_Otu_000225...	interacts with	BacV5_Ot...	interacts with				<input type="checkbox"/>	BacV5_Otu_00022...	-0.44460100718	0.001	<input checked="" type="checkbox"/>

If an edge is present in both network then there is present symbol in both:

BacV5_Otu_000010...	interacts with	BacV5_Ot...	interacts with	BacV5_Otu_00001...	0.001	-0.4473328738...	<input checked="" type="checkbox"/>	BacV5_Otu_00001...	-0.5949724366...	0.0	<input checked="" type="checkbox"/>
BacV5_Otu_000010...	interacts with	BacV5_Ot...	interacts with	BacV5_Otu_00001...	0.0	-0.6867312675...	<input checked="" type="checkbox"/>	BacV5_Otu_00001...	-0.5538656368...	0.0	<input checked="" type="checkbox"/>
BacV5_Otu_000010...	interacts with	BacV5_Ot...	interacts with	BacV5_Otu_00001...	0.0	0.752411609009	<input checked="" type="checkbox"/>	BacV5_Otu_00001...	0.710374042548	0.0	<input checked="" type="checkbox"/>
BacV5_Otu_000010...	interacts with	BacV5_Ot...	interacts with	BacV5_Otu_00001...	0.0	-0.5176028982...	<input checked="" type="checkbox"/>	BacV5_Otu_00001...	0.526653014137	0.0	<input checked="" type="checkbox"/>