

# Test Instructions

In order to test the Circular Layout algorithm as illustrated by the seventeen test cases that follow, it is first necessary to load the appropriate network, make sure no nodes are selected, and then select Layout->Circular Layout. For future versions of Cytoscape, the layout for these seventeen tests cases should either look very similar or there should be a good justification for any deviation. The slides that follow consist of an edge case that was fixed as part of Bug #2470 (<http://code.cytoscape.org/redmine/issues/2470>). The first slide after this one illustrates the edge case as it was working correctly in 2.8.3 and after it was fixed. This edge case failed in 3.0.1 and 3.0.2 but was fixed subsequently. Subsequent slides show that the fix did not harm other layouts. Images labeled Before are from Cytoscape 3.1.0-SNAPSHOT between the Beta 2 and Beta 3 whereas images labeled After are from my local machine which has the fixed which as of January 23rd, 2014 is not currently checked in.

In order to reproduce all of these tests except for the edge case, one may use Cytoscape 3.0.1, 3.0.2, Cytoscape 3.1.0-Beta1, or Cytoscape 3.1.0-Beta2 for the **Before** case. You must use a version of Cytoscape with the fix checked in for the **After** case. This document will be updated when the fix is checked in. For the edge case, one should use Cytoscape 2.8.3 for the **Before** case and the fixed version of Cytoscape for the **After** case.

The network for the edge case can be found in the file *IL6Shubs\_Cor\_Signif.txt* which can be found in the git repository in the same directory as these instructions. This file may be imported in Cytoscape 3.x by choosing File->Import->Network->File... and in Cytoscape 2.8.3 by choosing File->Import->Network from Table (Text/MS Excel). After the file is imported, Circular Layout can be applied in Cytoscape 3.x by choosing Layout->Circular Layout and Cytoscape 2.8.3 by choosing Layouts->Cytoscape Layouts->Circular Layout.

Network test cases 1-8 can be loaded from the Welcome Screen in Cytoscape 3.1.x.

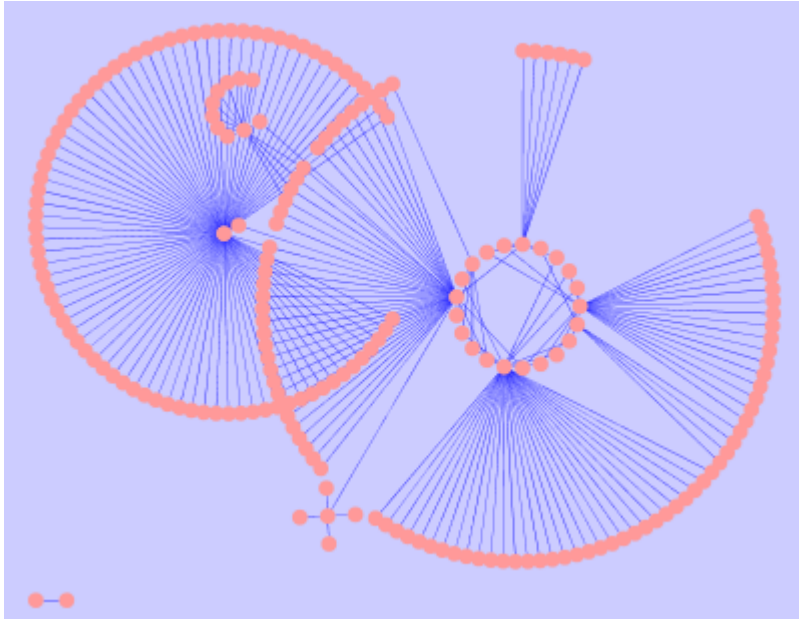
Network test cases 9-11 may be found in the session file *goTrees.cys* which can be found in the git repository in the same directory as these instructions.

Network test cases 12-17 may be found in the session file *LUAD\_vest\_v2.cys* which can be found in the git repository in the same directory as these instructions.

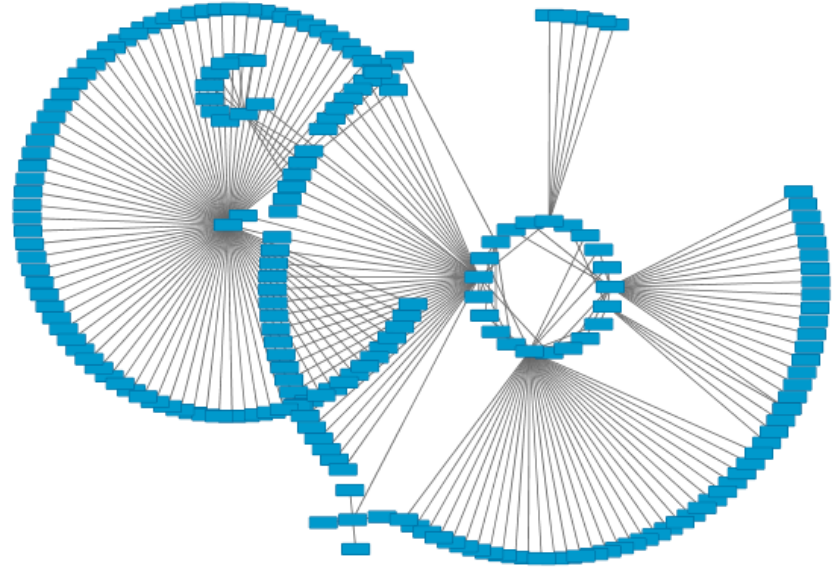
In Cytoscape 3.1.x, sessions can be loaded by choosing File->Open... from the file menu. The appropriate network to use should be evident because the network name in the session file will match the name used for the network test in this file.

# Fixed Edge Case - IL6Shubs\_Cor\_Signif

Before (from 2.8.3)

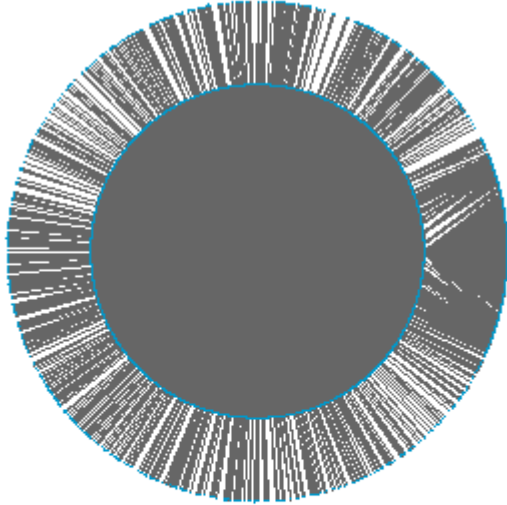


After

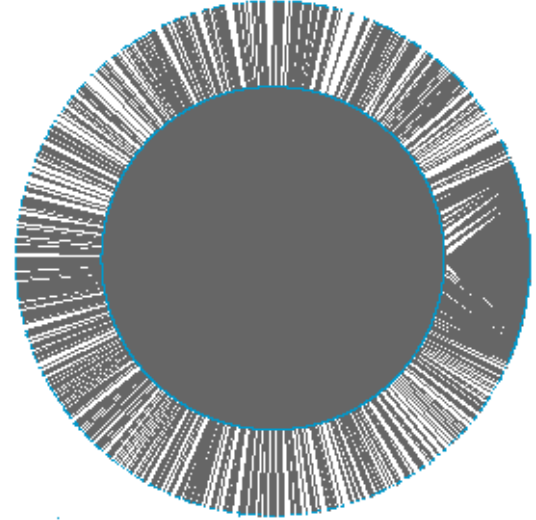


# Network 1 Test - *A. thaliana*

Before

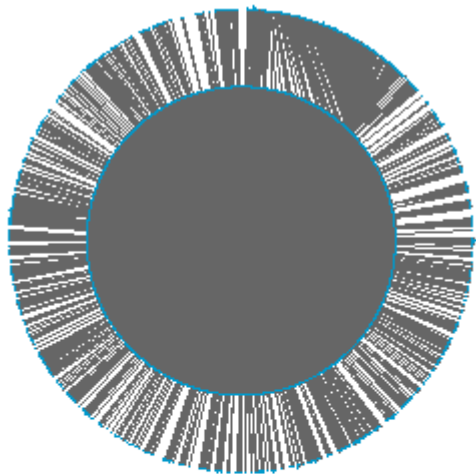


After

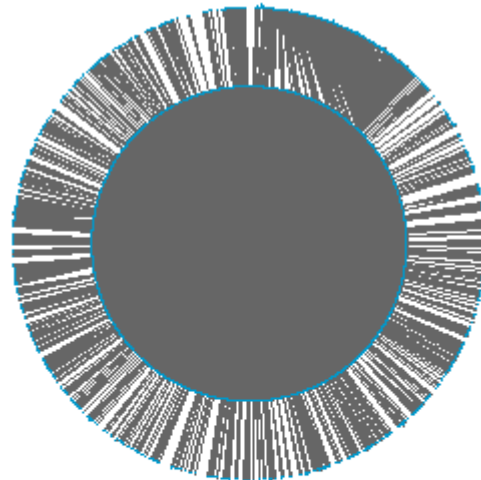


# Network 2 Test - C. elegans

Before

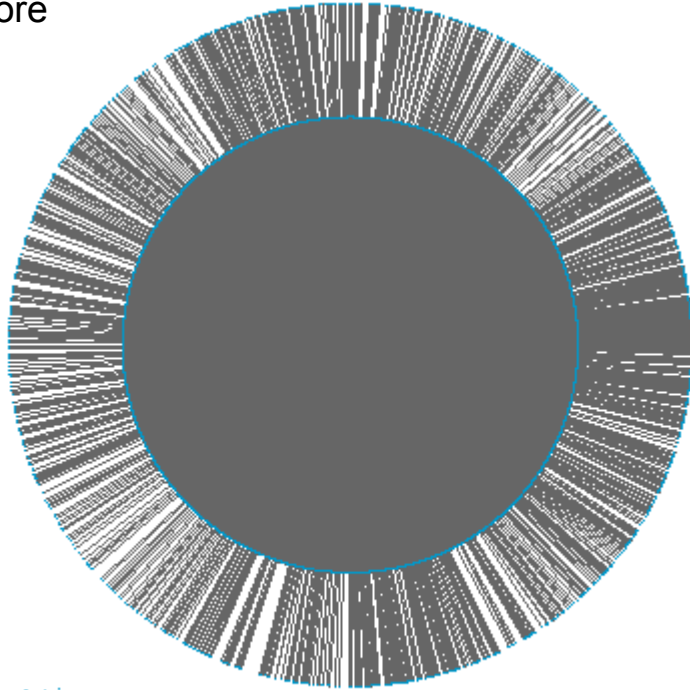


After

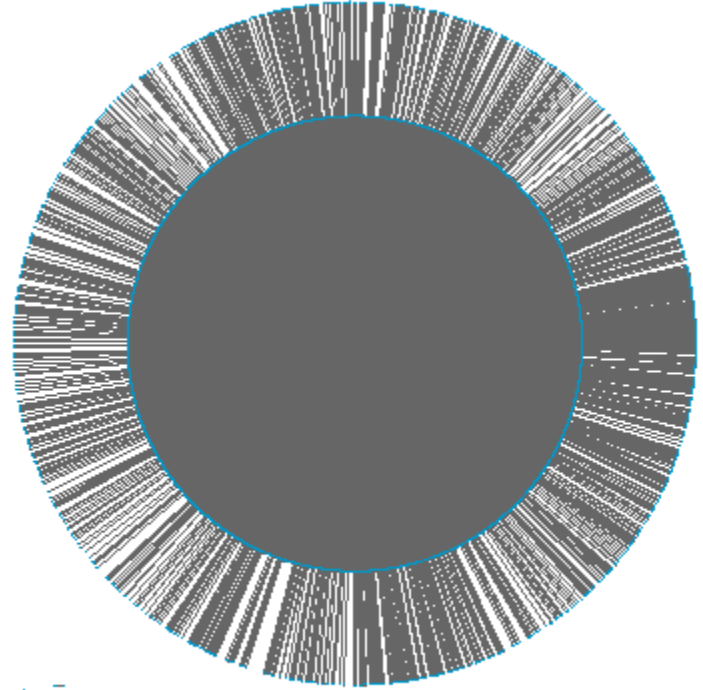


# Network 3 Test - *D. melanogaster*

Before

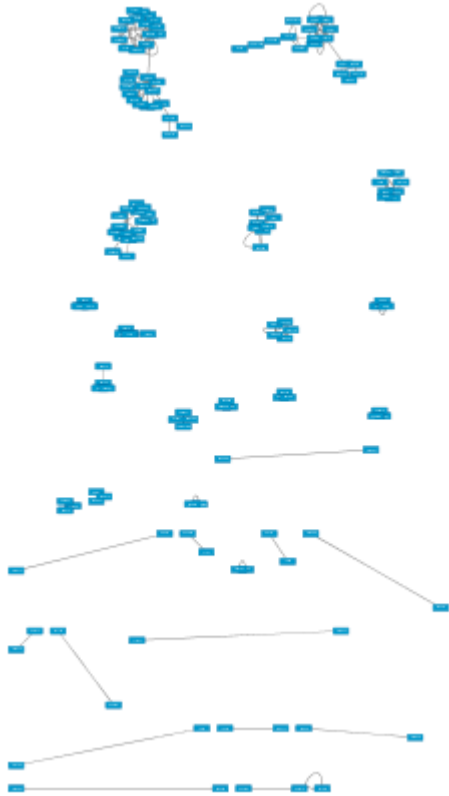


After



# Network 4 Test - D. rerio

Before

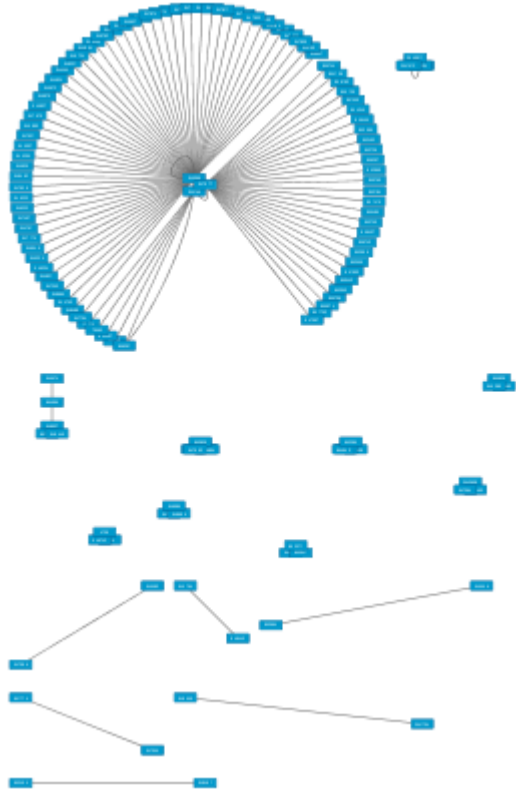


After

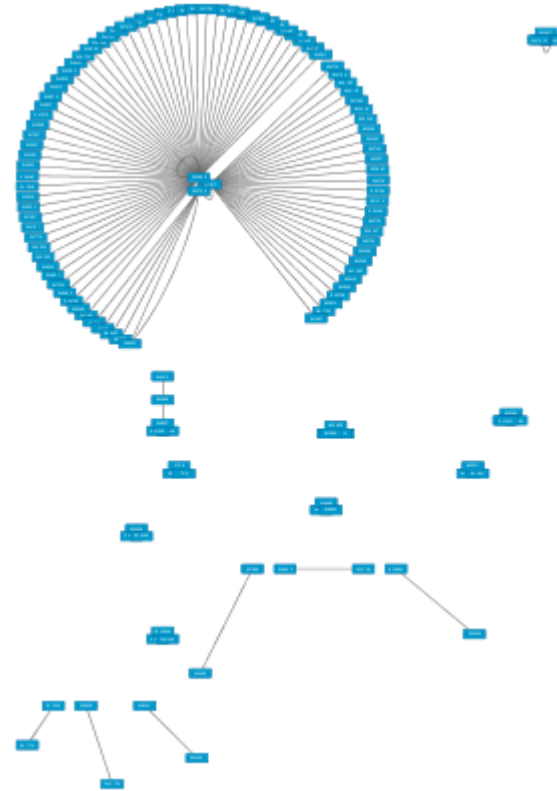


# Network 5 Test - E. coli

Before

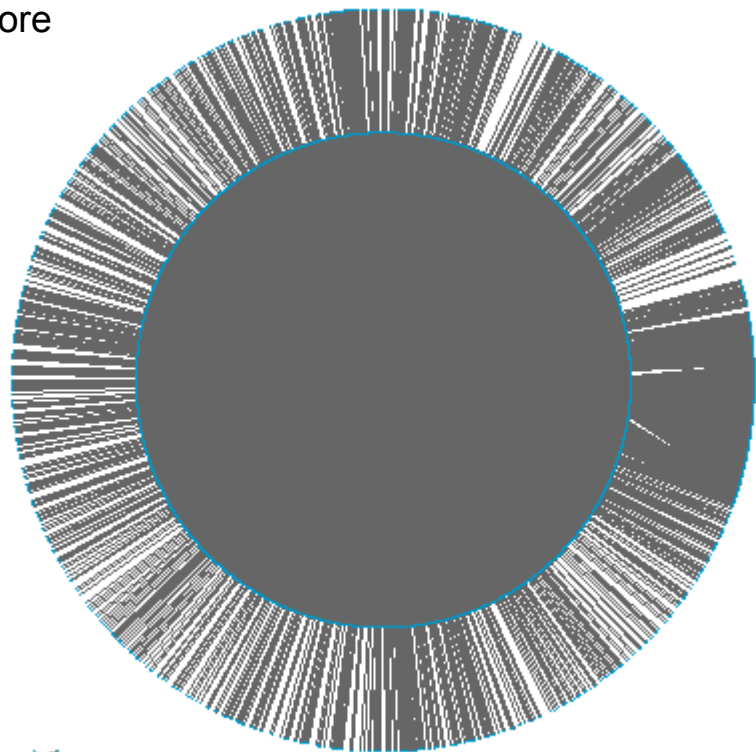


After

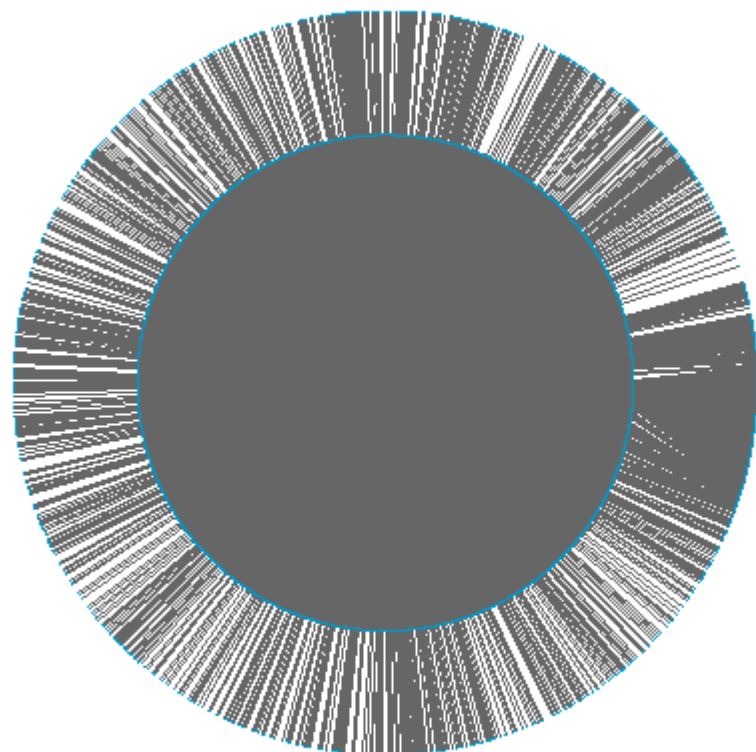


# Network 6 Test - H. sapiens

Before



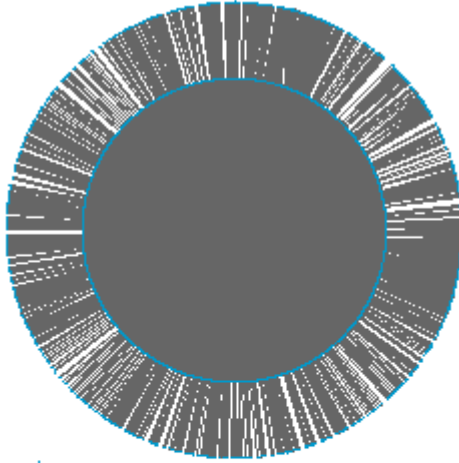
After



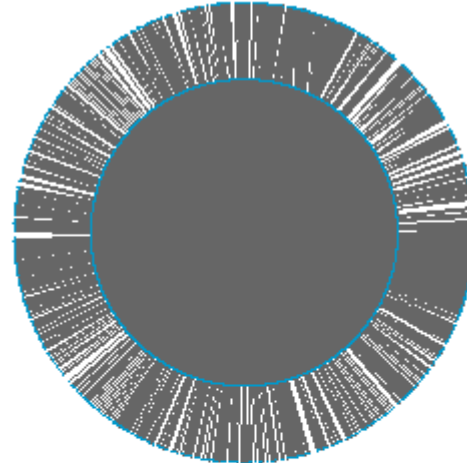


# Network 7 Test - M. musculus

Before

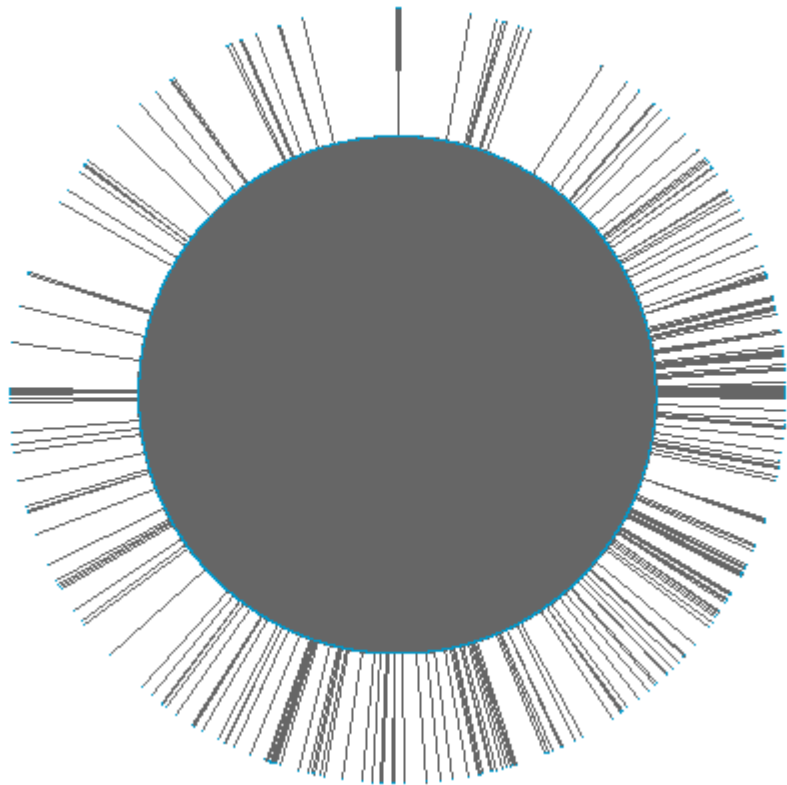


After

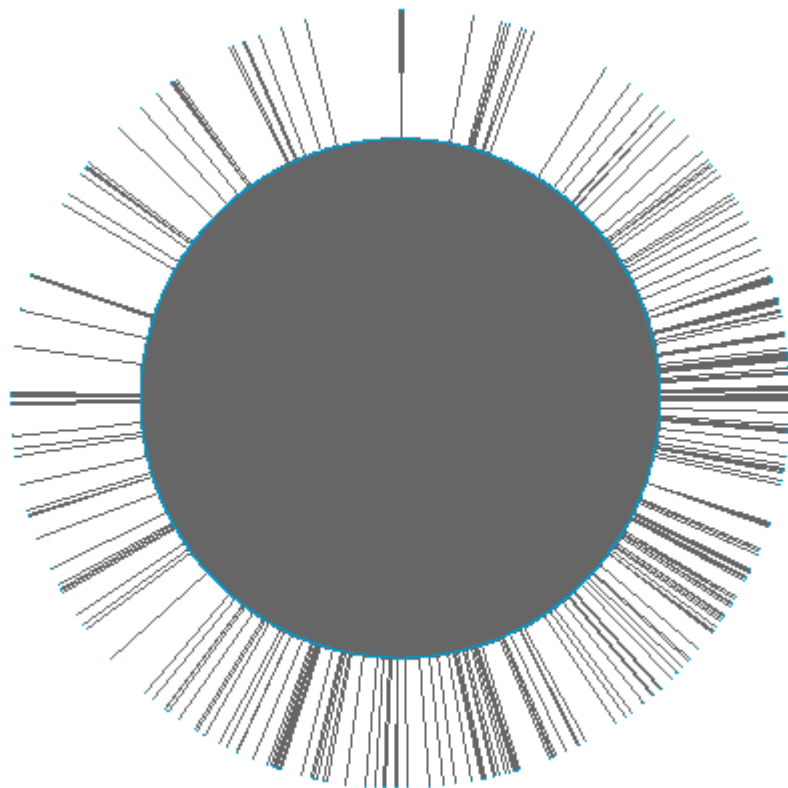


# Network 8 Test - *S. cerevisiae*

Before



After



# Network 9 Test - Molecular Function

Before



After



# Network 10 Test - Cellular Function

Before

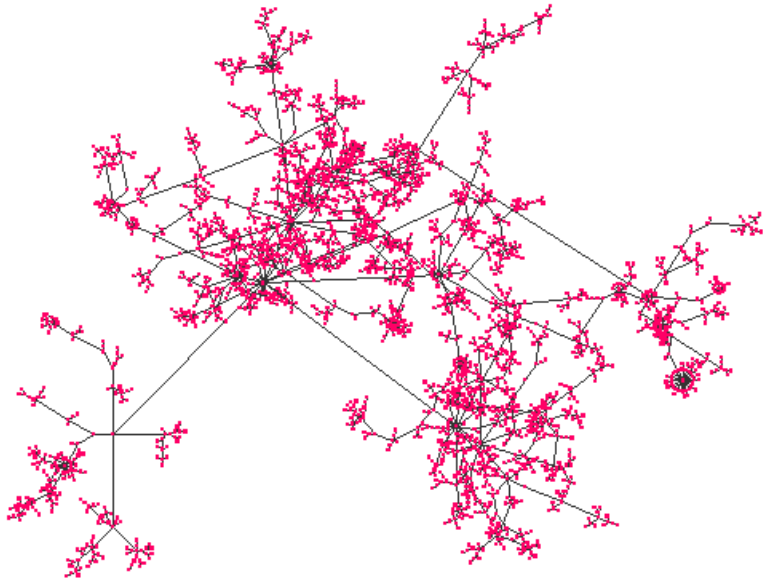


After

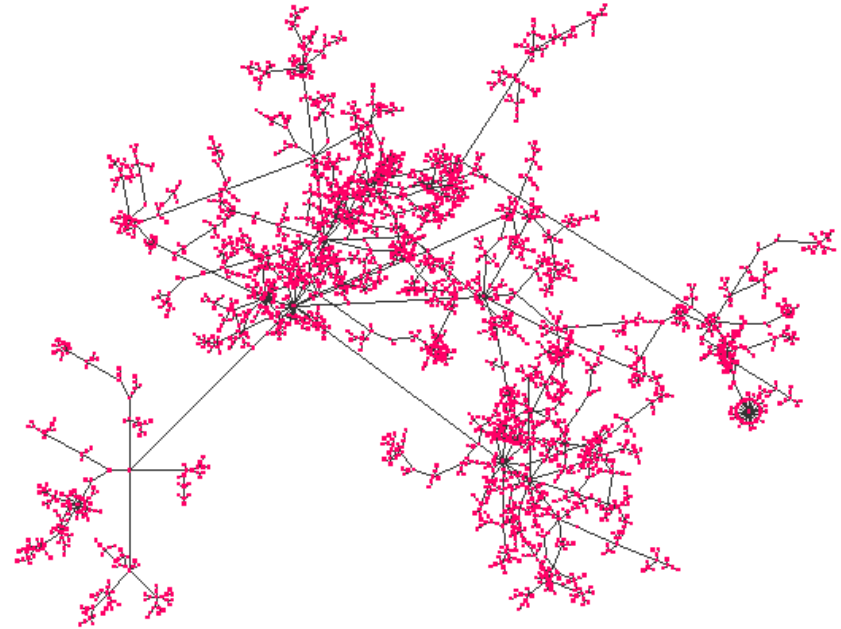


# Network 11 Test - Biological Process

Before

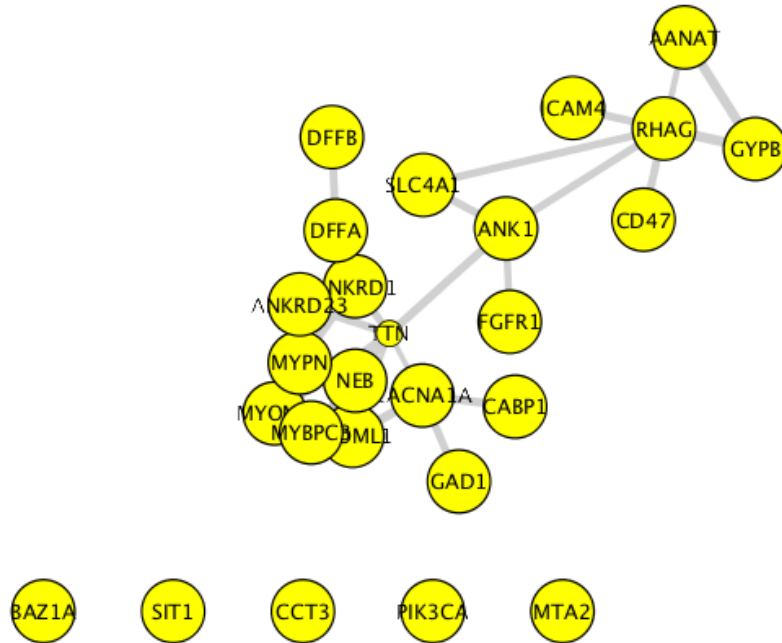


After

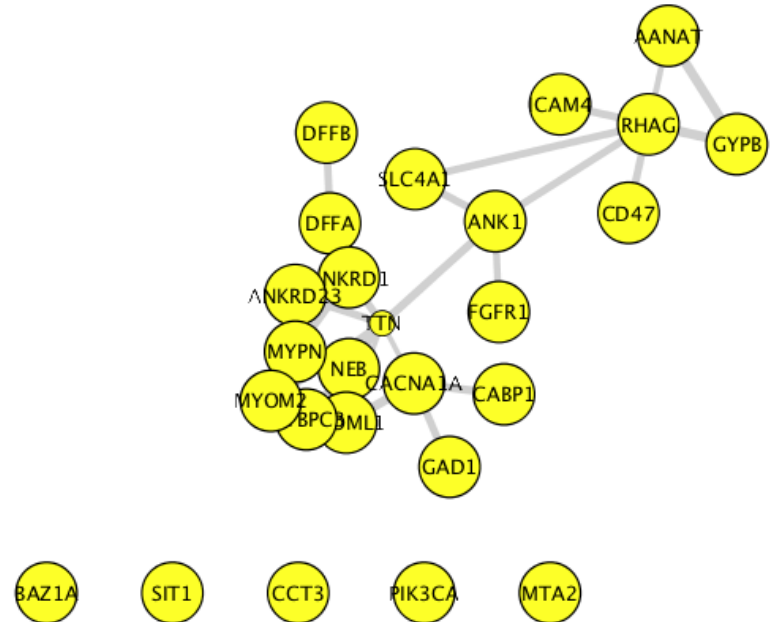


# Network 12 Test - LUAD cluster cl2

Before

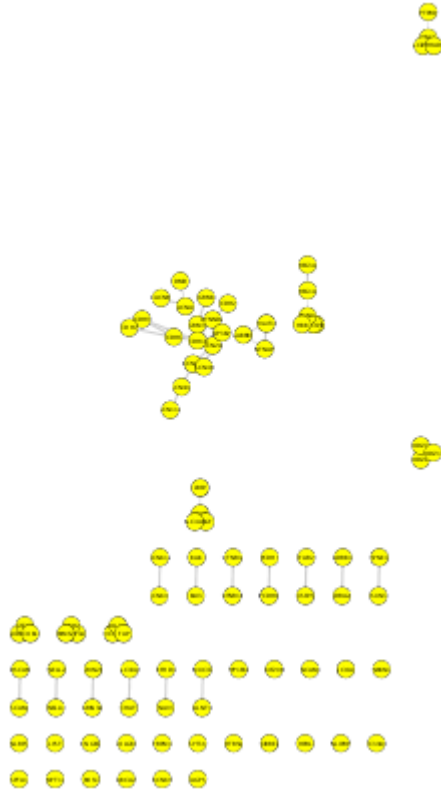


After



# Network 13 Test - LUAD cluster cl4

Before

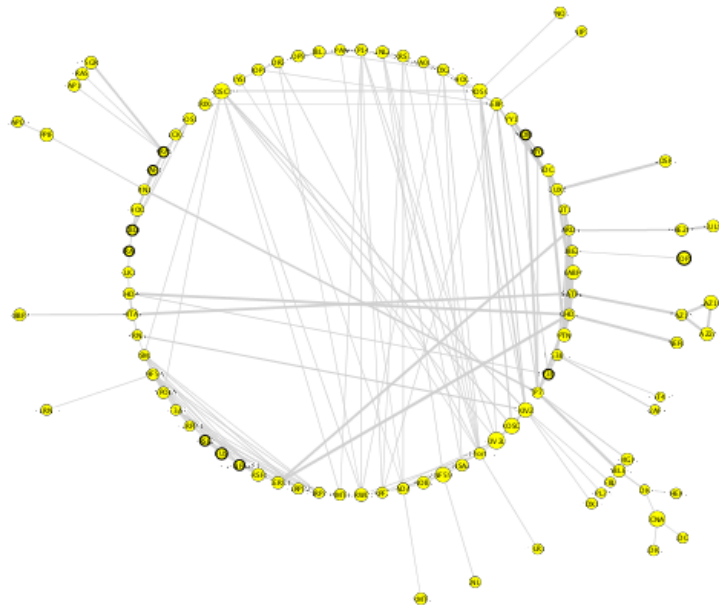


After

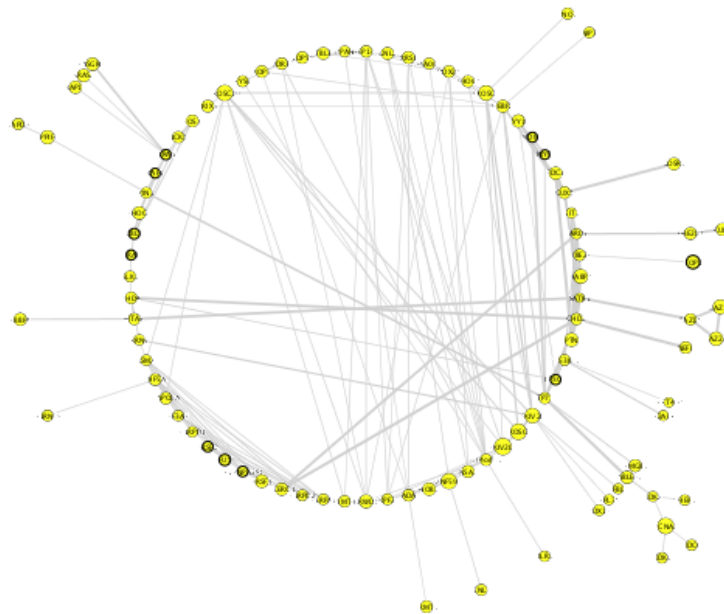


# Network 14 Test - H. sapiens (4)

Before



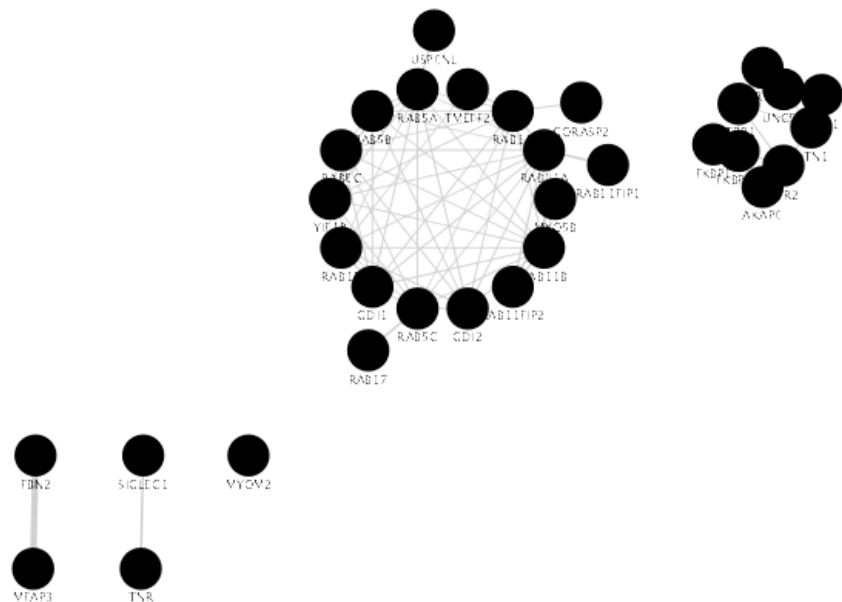
After



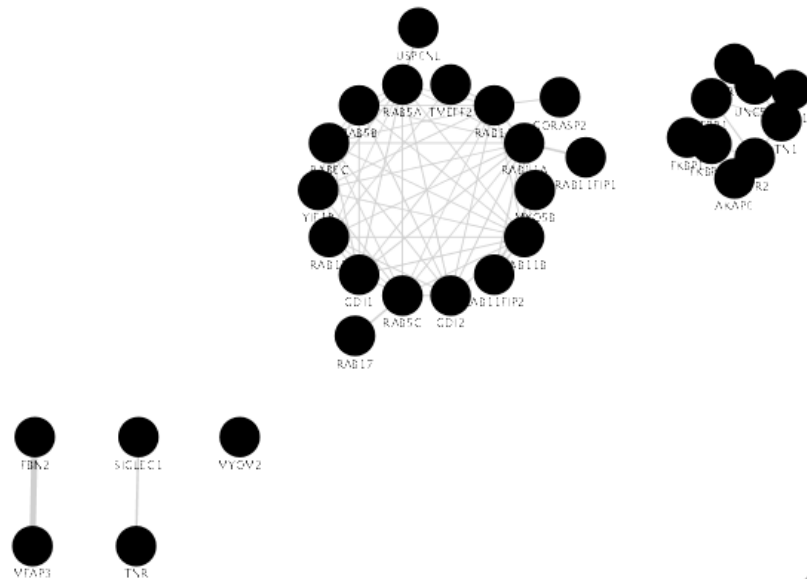


# Network 15 Test - H. sapiens (6)

Before

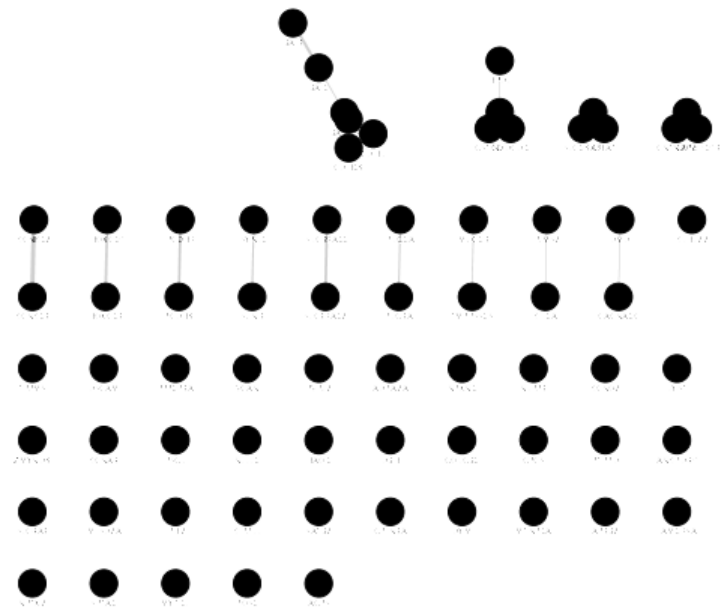


After



# Network 16 Test - H. sapiens (7)

Before



After

