REX

JUSTIN

1. Clustering
   1. We see structure
   2. What is the cluster at the center of the arms/centrally connected population?
   3. Functional circuits?
2. Hubs
   1. Operational definition for hubs- how did we define them?
      1. Show degree distribution w/ dotted line representing mean jumps in degree (difference matrix) + 1SD
   2. Identify, talk about function, birth time, position in worm body
   3. Show different analyses
      1. Hub similarity matrices
         1. Similar ones seem to be actual pairs
3. Topological importance of hubs: hubs have been found previously but importance for network has not been demonstrated
   1. Show power law distribution of hubs, suggesting scale-free behavior.
      1. But after just 3 top hubs deleted in serial order, the distribution is ruined and everything is equally likely to be classified as a hub due to even distribution of degrees
   2. How important are hub neurons for network structure? Re-clustering when they are deleted.
   3. What happens to functional circuits identified in (1) when they are deleted?
   4. Figures
      1. Clustering plots before and after
      2. Hub plots (connection diagrams) before and after