Input Similarity Blue histogram: Random Cluster Labels (n=100 shuffles) Red line: ovilN connectome mean Cluster 2 Cluster 3 Cluster 1 Cluster 4 Cluster 5 Cluster 6 Cluster 7 200 200 -200 -200 -Cluster 1 200 200 100 100 100 100 100 100 0 0 0 0 0 0.03 0.04 0.0300.035 0.02250300035 0.03 0.04 0.0500.075 0.020.03 0.030 0.035 200 + 200 200 200 Cluster 2 100 100 100 100 100 100 0 0 0 0 0 0.03 0.04 0.02 0.03 0.010.020.030.025.0300.035 0.02 0.04 0.010.020.03200 200 200 200 Cluster 3 200 100 100 100 100 100 0 0 0 0 0.04 0.06 0.02250300035 0.0300.035 0.030 0.035 0.030 0.035 200 -200 200 Cluster 4 200 100 100 100 100 0 0 0 0 0.0300.035 0.02050300035 0.04 0.06 0.03 0.035200 Cluster 5 100 100 100 0 0 0.05**0**.075 0.030.035 0.026.030.035 200 100 100 50 0 0.0250.0500.075 $0.030\,0.035$ 100

0.0250.0500.075