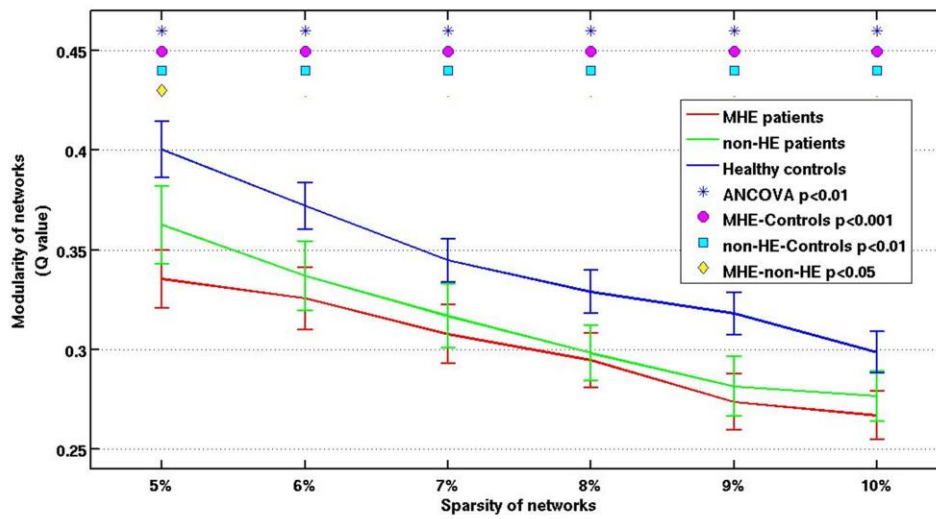
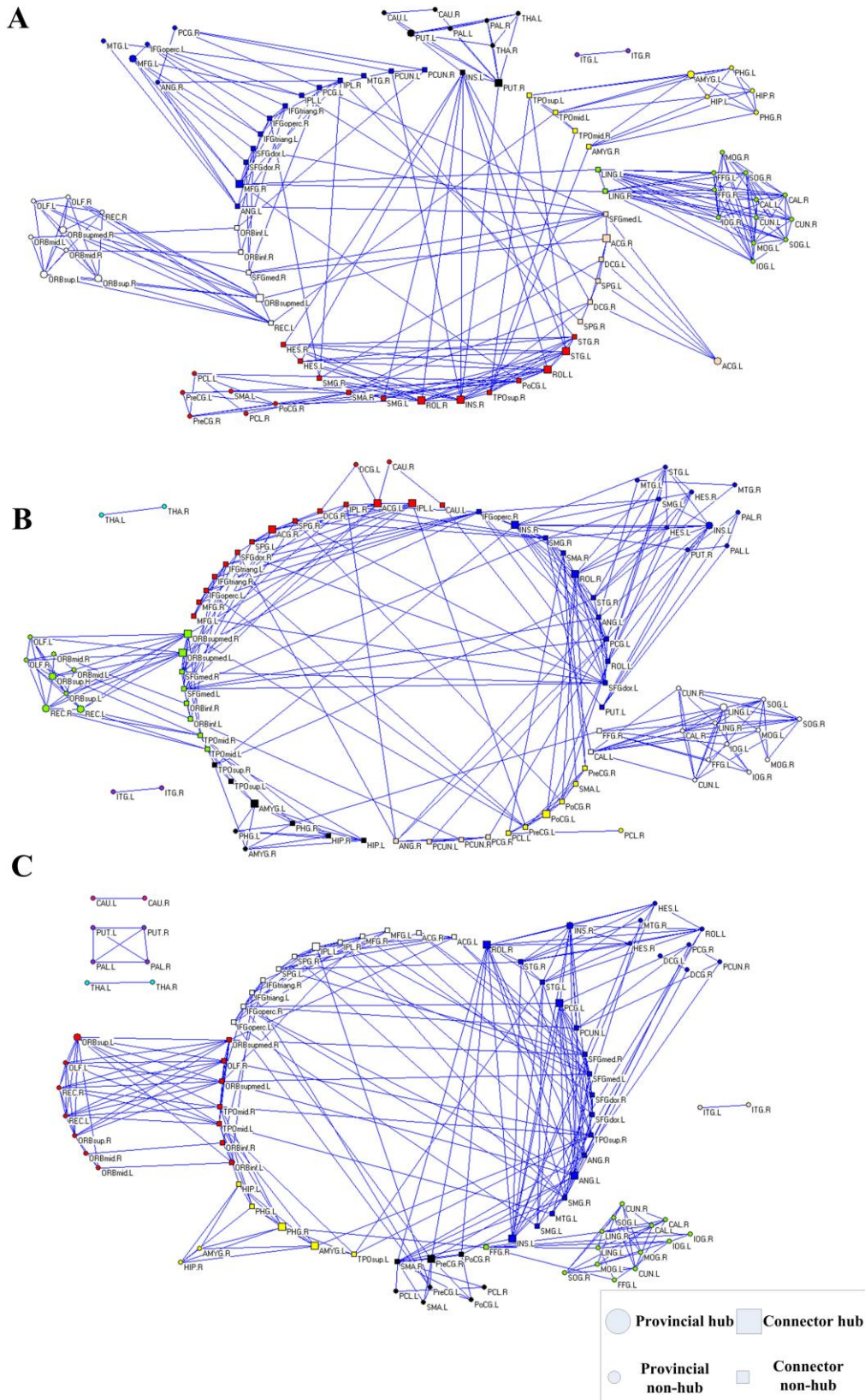


Supplementary materials

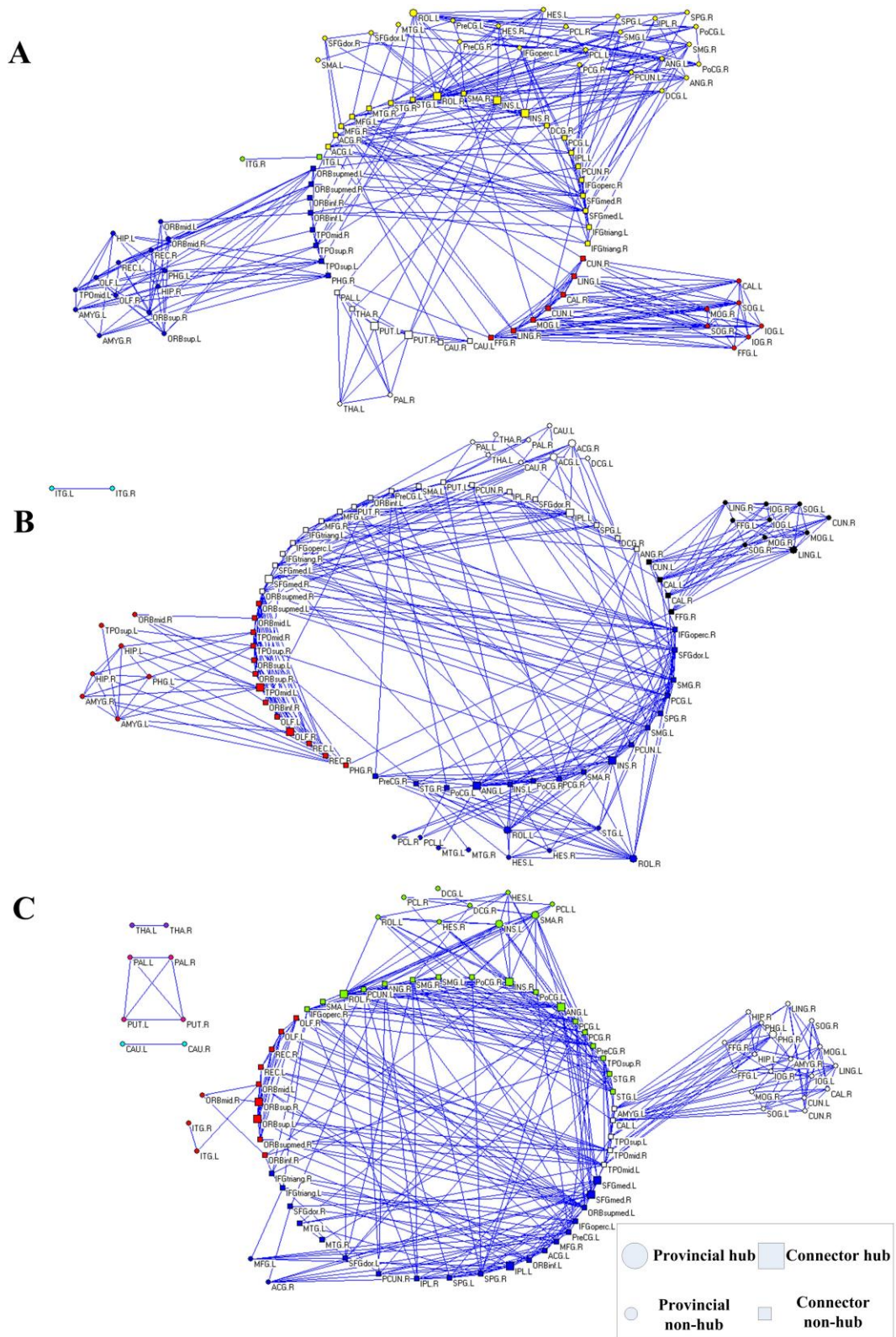


Supplementary figure 1 The network modularity Q values of healthy controls, non-HE and MHE patients from sparsity=5% to sparsity=10% at 1% intervals. (Based on 1024 parcels)



Supplementary figure 2 The community structures of healthy control, non-HE and MHE groups' for mean functional networks at sparsity=7%. A. The community

structure of Healthy control group; B. The community structure of non-HE group; C. The community structure of MHE group.



Supplementary figure 3 The community structures of healthy control, non-HE and MHE groups' for mean functional networks at sparsity=9%. A. The community

structure of Healthy control group; B. The community structure of non-HE group; C. The community structure of MHE group.