



**Fig. S4. Co-occurrence network at the 97% OTU level.** OTU pairs that show positive correlation (Pearson's  $R > 0.8$ ) among normal samples are presented as a network. The edge colors represent correlation of each OTU pair among autistic samples, as indicated in legend. *Prevotella copri* like OTUs and their direct edges are highlighted in yellow and green, respectively, to show the extent of network perturbation resulted from the absence of the OTUs in autistic subjects.