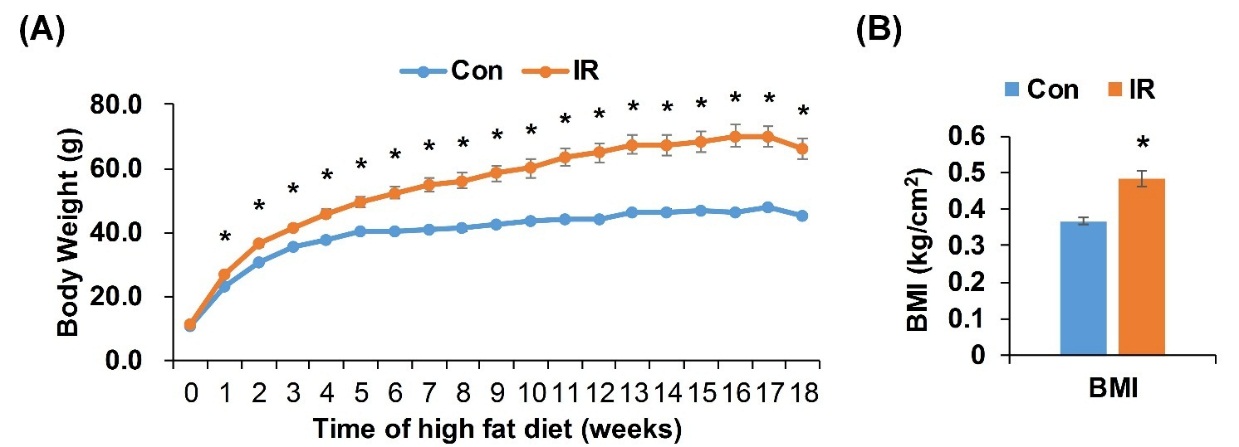
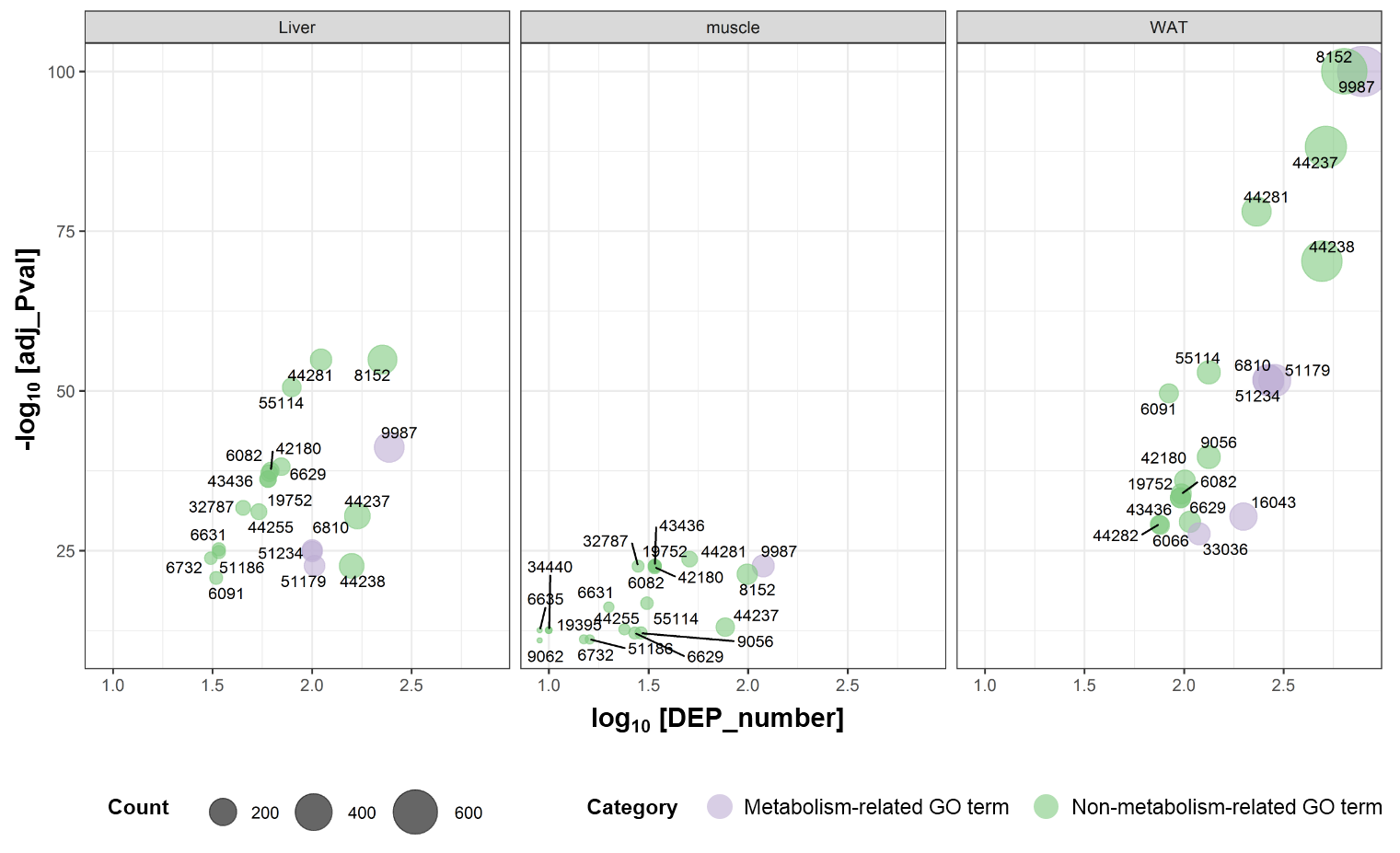
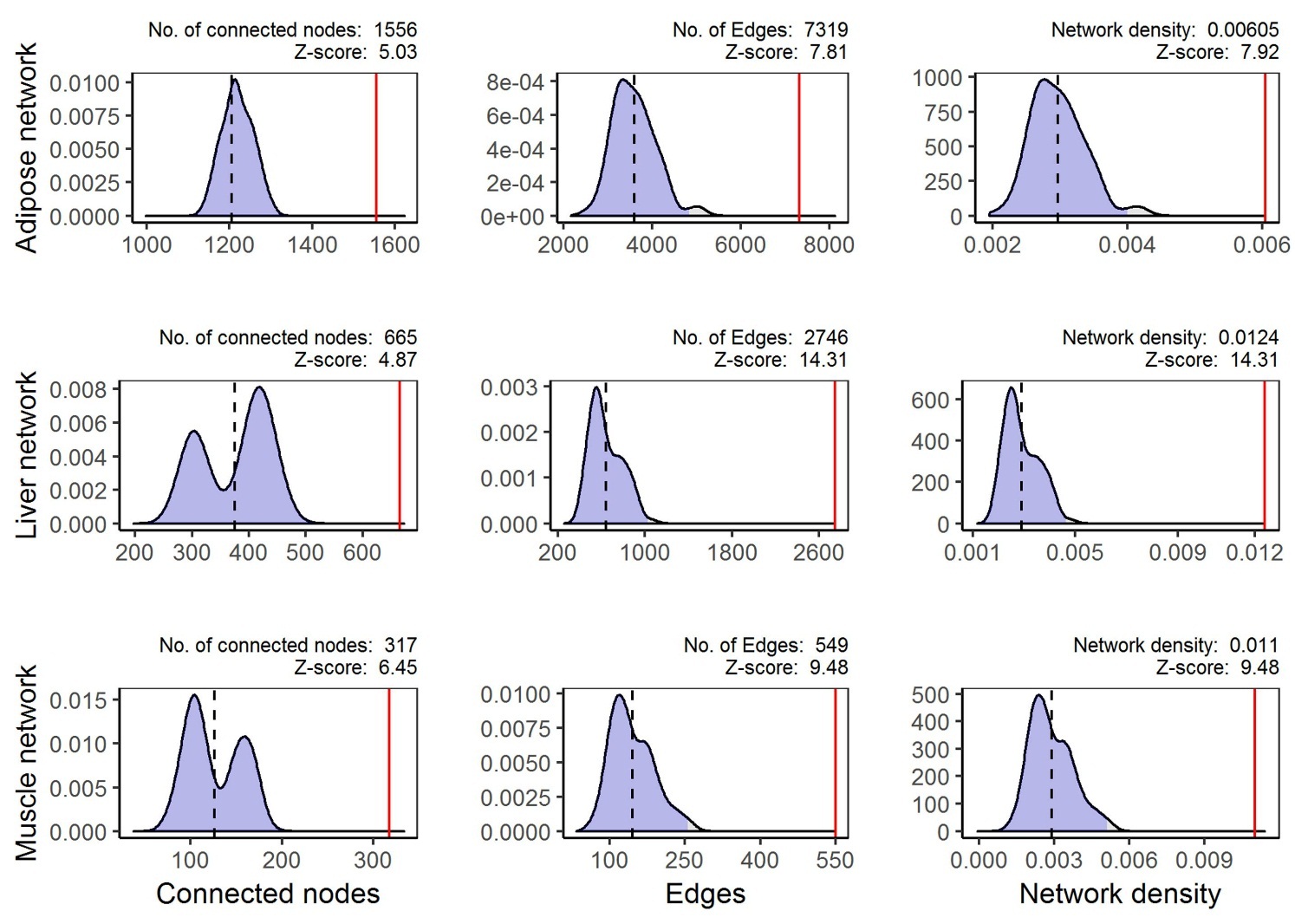
Supplementary Figures



**Supplementary Figure 1. Body weight and BMI of experimental subjects.** age 21 weeks (Con, n = 12; IR, n = 9).



**Supplementary Figure 2. The** **TOP20 most enriched GO terms in WAT, Liver and skeletal muscle.** Where, GO terms were labeled by their GO IDs; metabolism-related GO terms were highlighted in violet and others were colored in green.



**Supplementary Figure 3. Distribution of connected nodes, edges and network density of 100 random networks.** Where, the distribution of global parameters was generated by kernel density estimation and the vertical lines colored in red represent the true value of these parameters in tissue-specific networks. Z-score > 2.33 denotes the parameter in tissue-specific network was significantly higher than random networks.