



Supplementary Fig. 3. Supplementary observations on transcriptome analysis and metabolomics analysis in the liver from adult SD rats. A: Volcano plot of liver differential expressed genes (DEGs) in EW_{SD}+Leu vs. C_{SD}. **B:** KEGG enrichment analysis of liver DEGs in EW_{SD}+Leu vs. C_{SD}. **C:** Hierarchical clustering heat map and GO enrichment analysis of

DEGs in EW_{SD}+Leu vs. C_{SD}. *D*: Variations of the top 31 enriched metabolites in EW_{SD}+Leu vs. C_{SD}. *E*: KEGG enrichment analysis of liver metabolomics analysis in EW_{SD} vs. C_{SD} and EW_{SD}+Leu vs. EW_{SD}. *F*: Quantity statistics of different metabolites in each group.