

Fig. S8

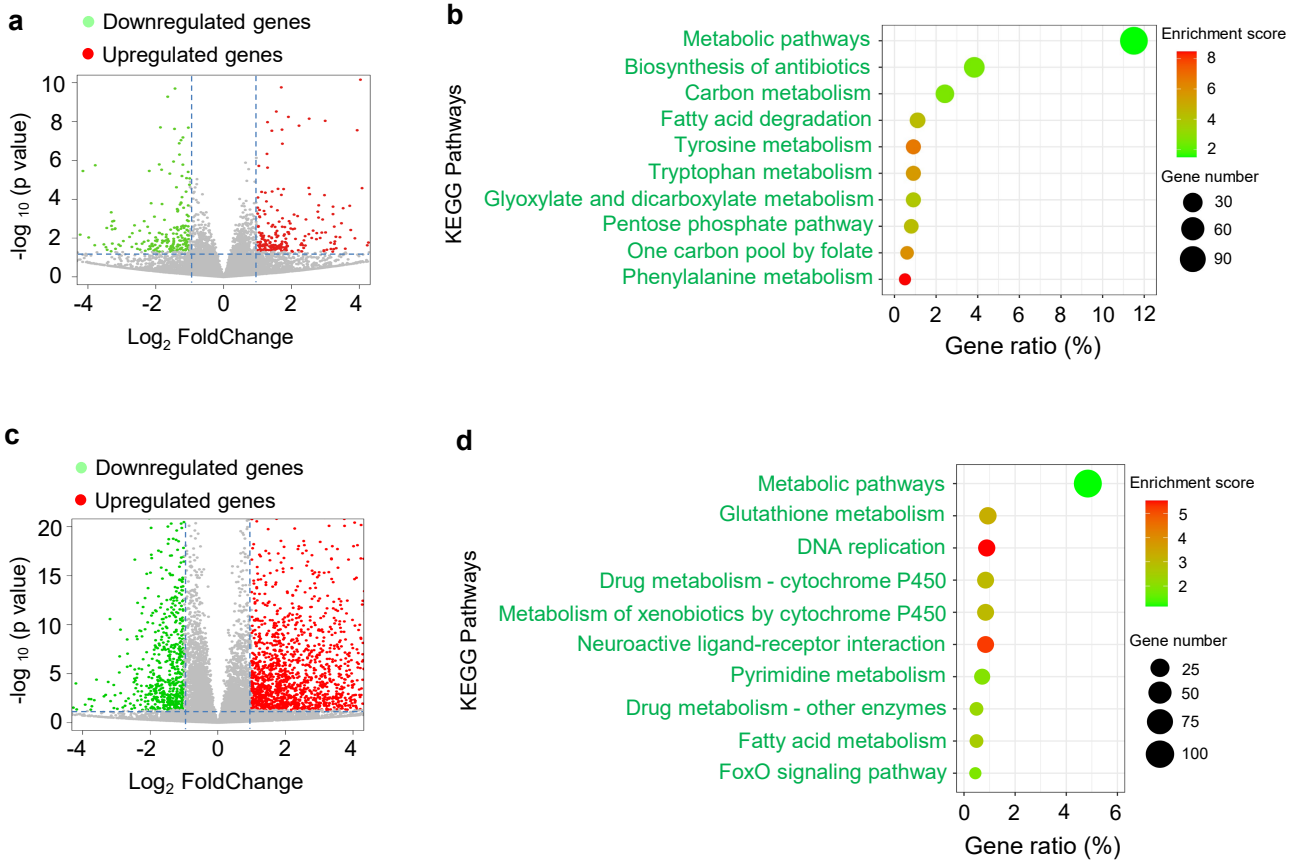


Fig. S8: Analysis of gene expression changes in the fat body induced by dietary cysteine and FMRFa injection.

(a-b) RNAseq analysis of the fat body of flies fed with 5% sucrose or 5% sucrose added with 0.2% cysteine for 5 days (n=6). **a** Volcano plot showed differentially expressed genes between the two groups (green: downregulated genes in the cysteine group; red: upregulated genes in the cysteine group). The horizontal line indicated the significance threshold ($p = 0.05$), and the vertical lines indicated two-fold change threshold. **b** The top influenced signaling pathway by dietary cysteine from KEGG analysis. **(c-d)** RNAseq analysis of the fat body of flies incubated with synthetic FMRFa (20 $\mu\text{g/ml}$) or not (n=5-6). Volcano plot was showed in c and KEGG analysis was shown in d.