

Fig. S1 Identification of differentially expressed genes (DEGs) in comparison groups. (A) DEGs Venn diagram, (B) DEGs PCA analysis, (C) Bar graph showed the upregulated and downregulated DEGs of different comparison groups in different colors, upregulated (red) and downregulated (blue). (CK: control, Cd: 3 mg/kg Cd, CdSeL: 3 mg/kg Cd + Se 1 mg/kg, CdSeH: 3 mg/kg Cd + Se 5 mg/kg).

Fig. S2 The top 20 GO term annotation analysis of all annotated DEGs in CK vs Cd (A), CdSeL vs Cd (B), CdSeH vs Cd (C), CdSeH vs CK (D), CdSeL vs CK for leaf. The Y-axis represented the GO term; the X-axis represented the annotated number of DEGs. (CK: control, Cd: 3 mg/kg Cd, CdSeL: 3 mg/kg Cd + Se 1 mg/kg, CdSeH: 3 mg/kg Cd + Se 5 mg/kg).

Fig. S3 The top 20 KEGG term annotation analysis of all annotated DEGs in CK vs Cd (A), CdSeL vs Cd (B), CdSeH vs Cd (C), CdSeH vs CK (D), CdSeL vs CK for leaf. The Y-axis represented the GO term; the X-axis represented the annotated number of DEGs. (CK: control, Cd: 3 mg/kg Cd, CdSeL: 3 mg/kg Cd + Se 1 mg/kg, CdSeH: 3 mg/kg Cd + Se 5 mg/kg).

Fig. S4 Quality control of transcriptome data and Changes in DEGs expression. Heatmap showing the results of the clustering analysis of DEGs. CK vs Cd (A), CdSeL vs Cd (B), CdSeH vs Cd (C). (CK: control, Cd: 3 mg/kg Cd, CdSeL: 3 mg/kg Cd + Se 1 mg/kg, CdSeH: 3 mg/kg Cd + Se 5 mg/kg).

Fig. S5 The top 20 GO term and KEGG pathway enrichment analysis of the key module of WGCNA. The Y-axis represented the GO term and KEGG pathway; the X-axis represented the rich factor of DEGs (Physiological cell wall energy photosynthesis). (CK: control, Cd: 3 mg/kg Cd, CdSeL: 3 mg/kg Cd + Se 1 mg/kg, CdSeH: 3 mg/kg Cd + Se 5 mg/kg).

Fig. S6 The top 20 GO term and KEGG pathway enrichment analysis of the key module of WGCNA. The Y-axis represented the GO term and KEGG pathway; the X-axis represented the rich factor of DEGs (Enzymatic and non-enzymatic antioxidant mechanism). (CK: control, Cd: 3 mg/kg Cd, CdSeL: 3 mg/kg Cd + Se 1 mg/kg, CdSeH: 3 mg/kg Cd + Se 5 mg/kg).

Fig. S7 The top 20 GO and KEGG term annotation analysis of all annotated DEPs in CK vs Cd, CdSeL vs Cd, CdSeH vs Cd for leaf. The Y-axis represented the GO and KEGG terms; the X-axis represented the annotated number of DEPs. (CK: control, Cd: 3 mg/kg Cd, CdSeL: 3 mg/kg Cd + Se 1 mg/kg, CdSeH: 3 mg/kg Cd + Se 5 mg/kg).

Fig. S1

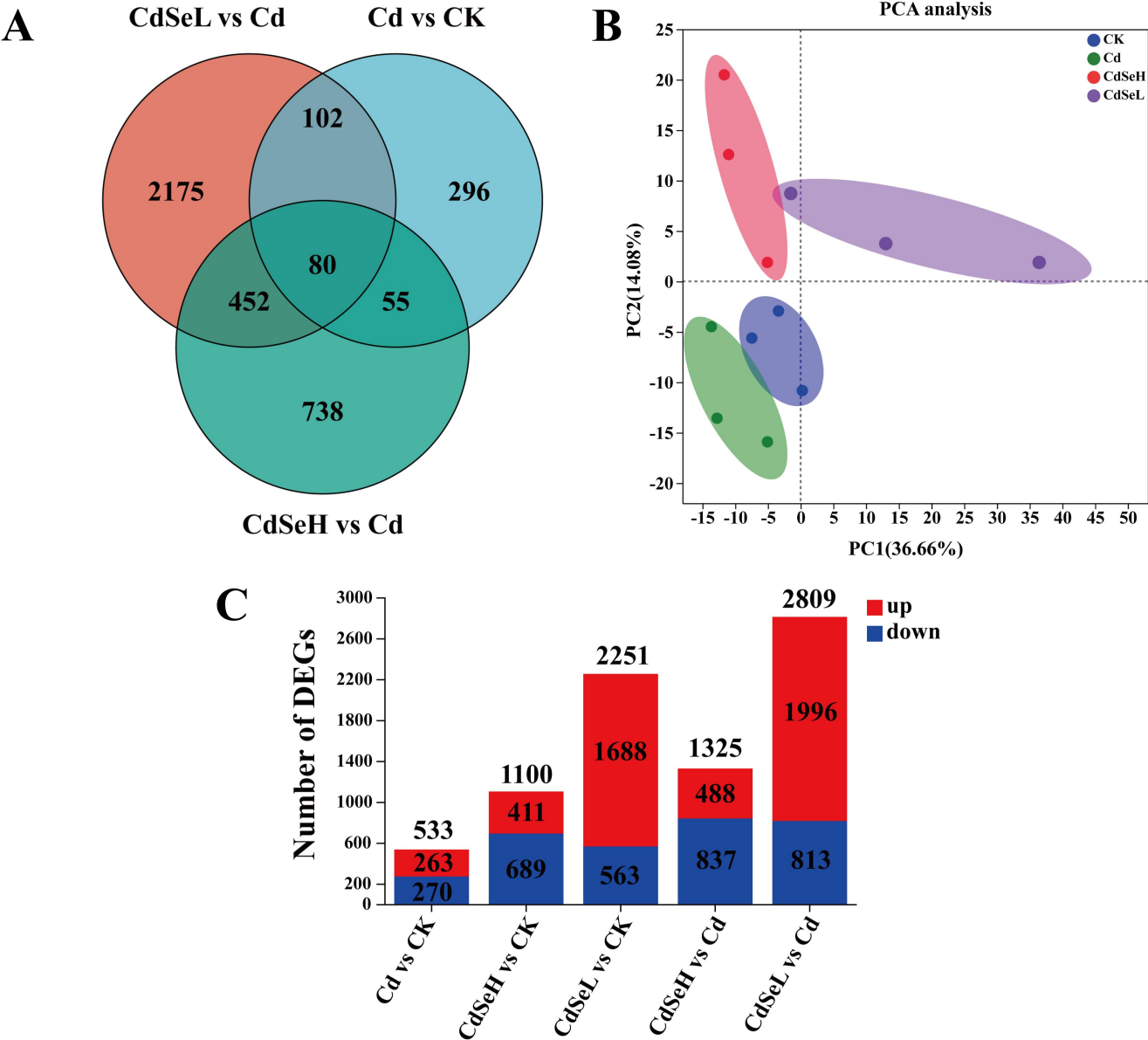


Fig. S2

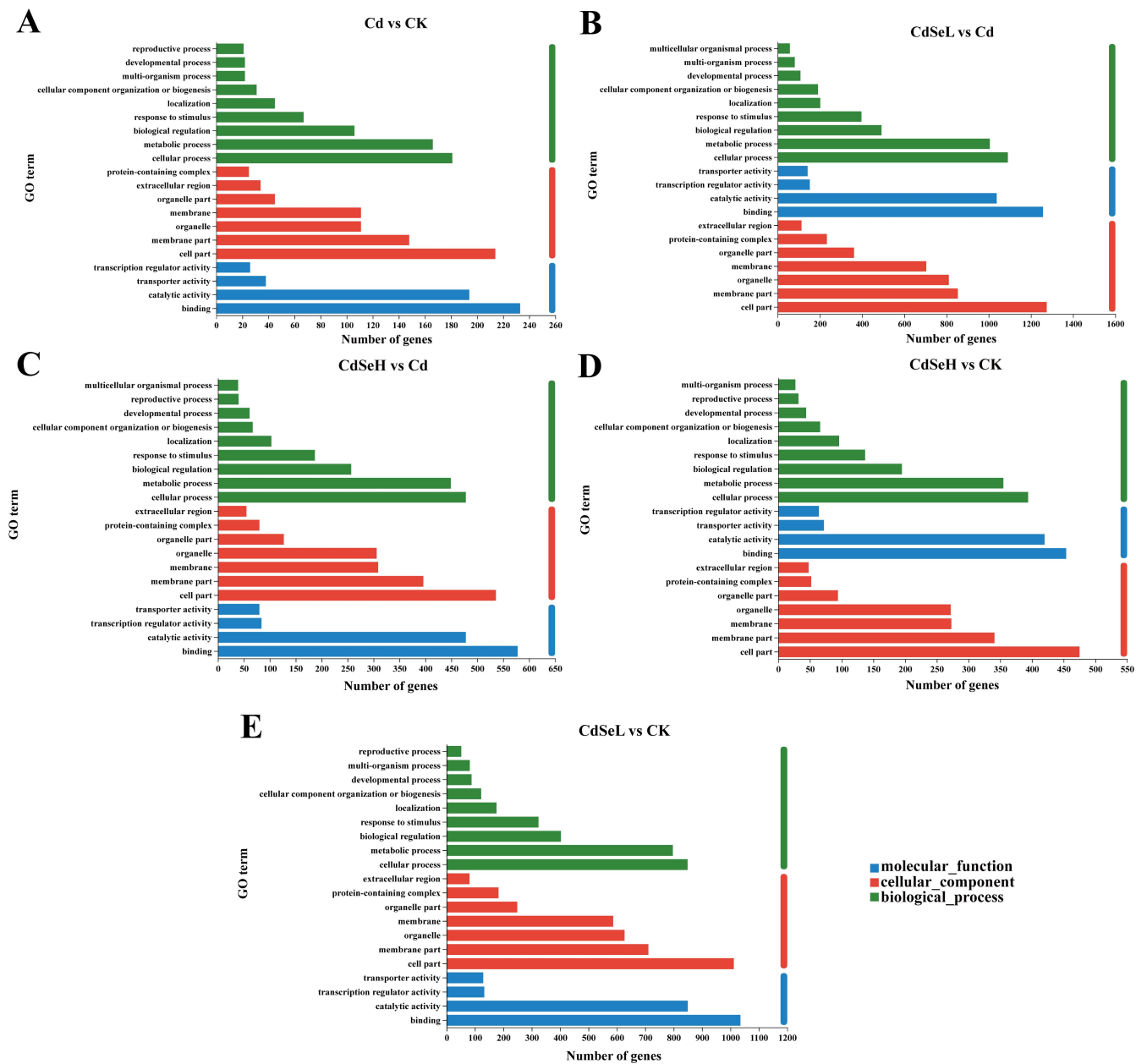


Fig. S3

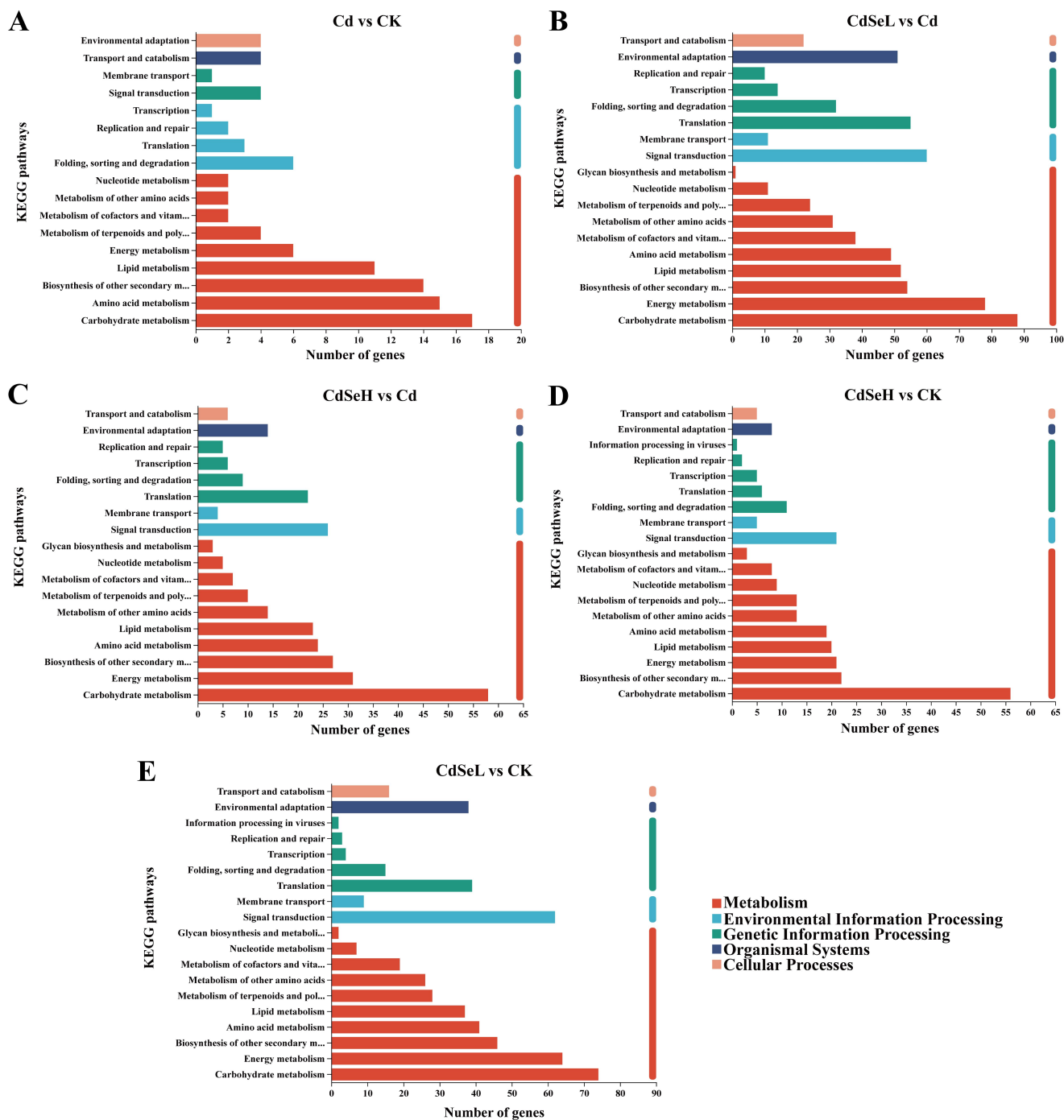


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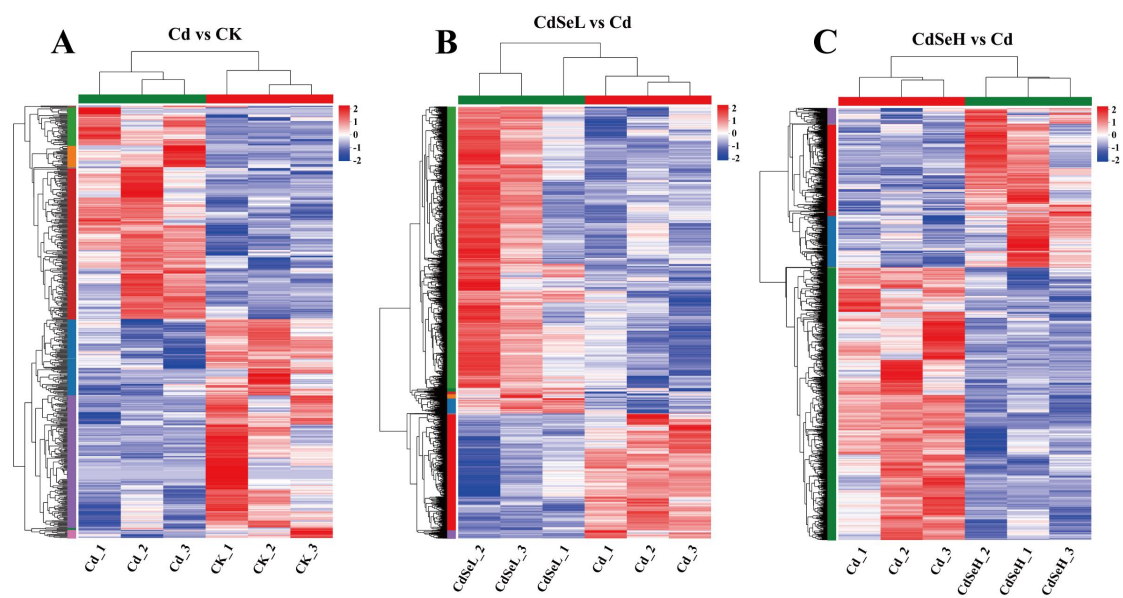


Fig. S5

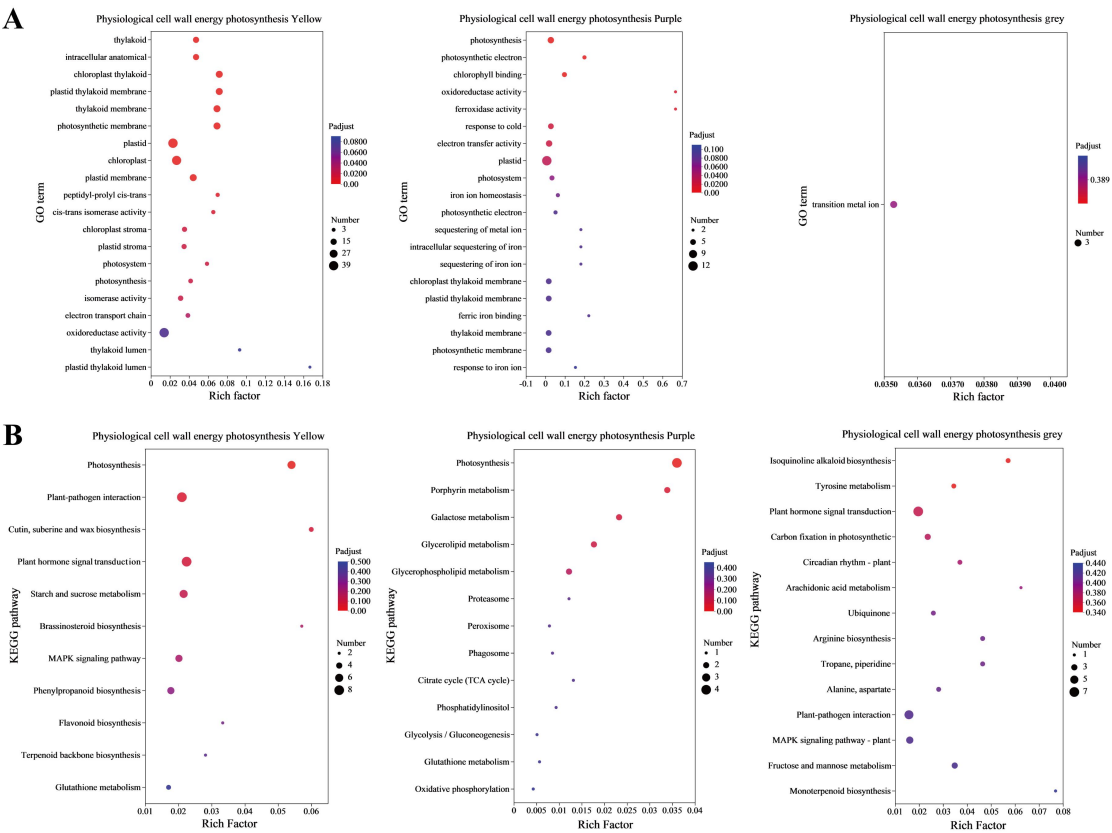


Fig. S6

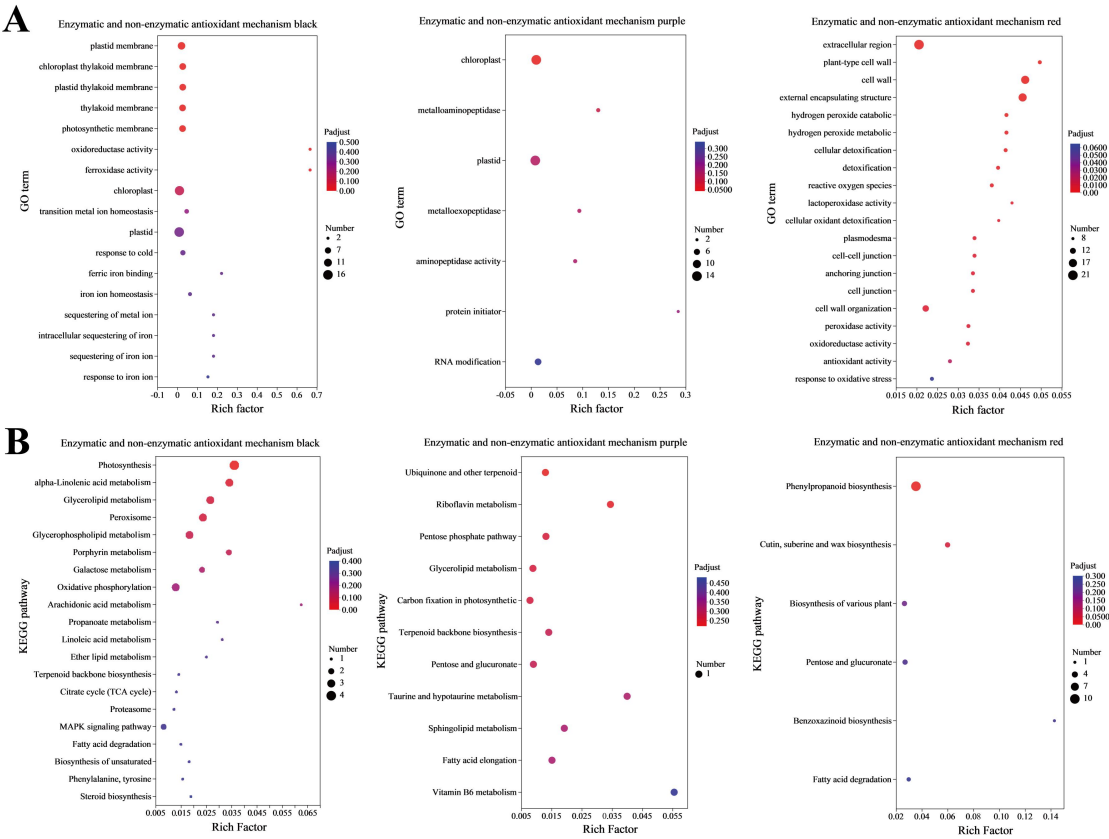


Fig. S7

