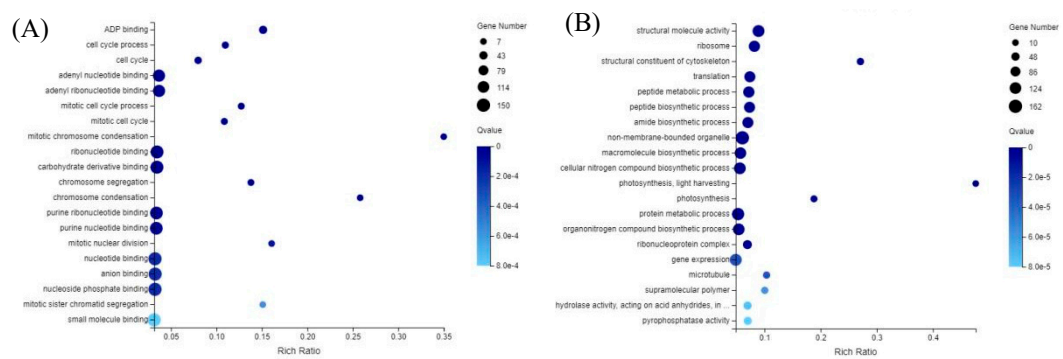
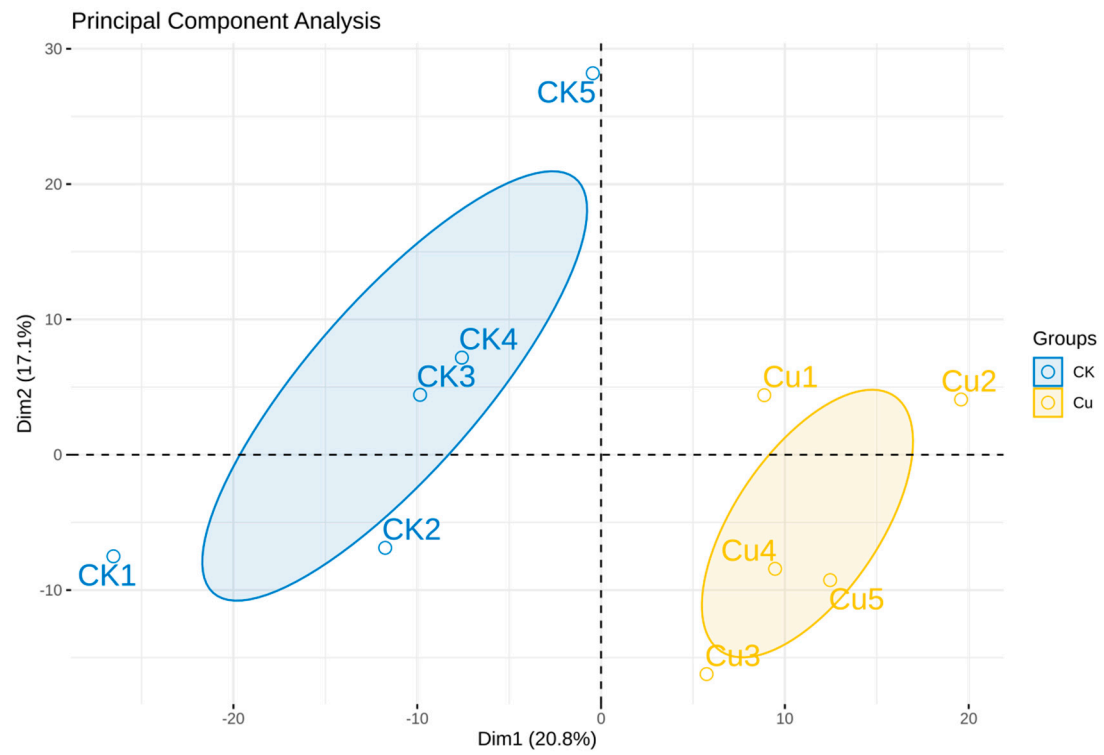


Supplementary Figure S1. Comparison of gene expression by RNA-seq (A) and qRT-PCR (B).



Supplementary Figure S2. The GO enrichment top20 based on genes that were up-regulated **(A)** and down-regulated **(B)** at 24h after Cu stress in *G. lemaneiformis*.



Supplementary Figure S3. The PCA analysis of the metabolism of *G. lemaneiformis* compare with Cu treatment and control.