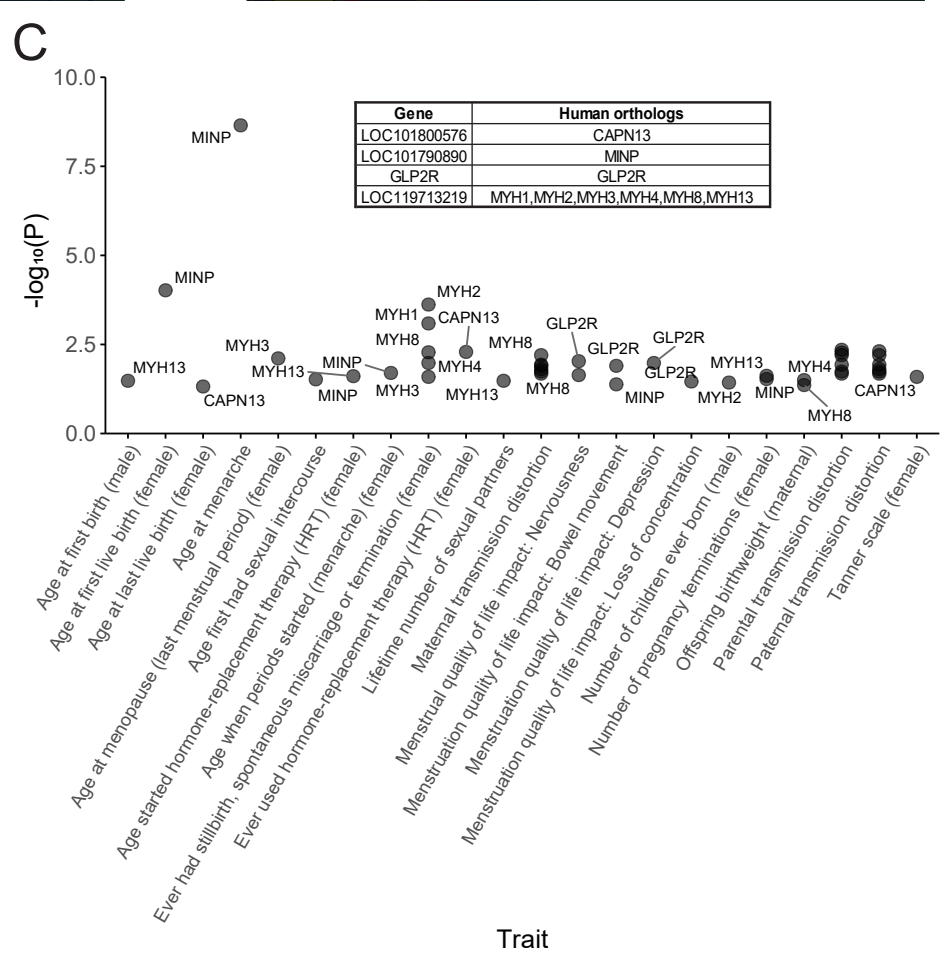
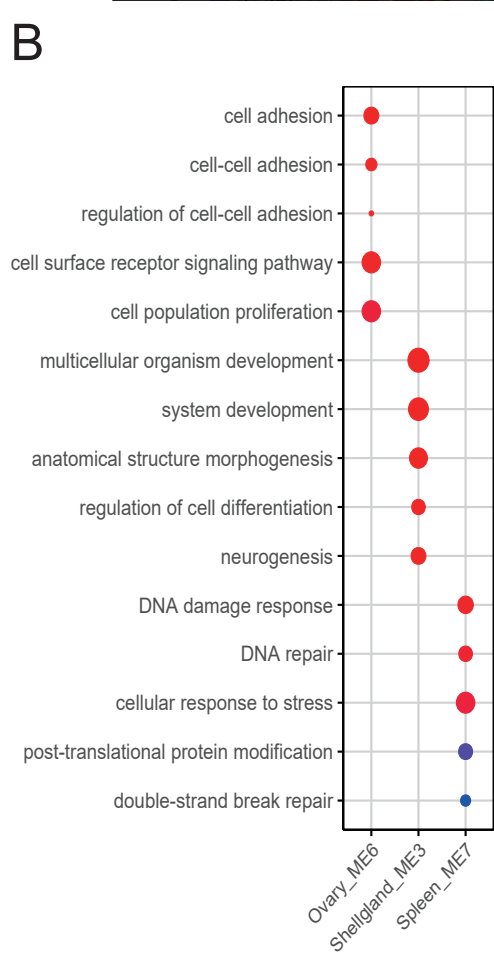
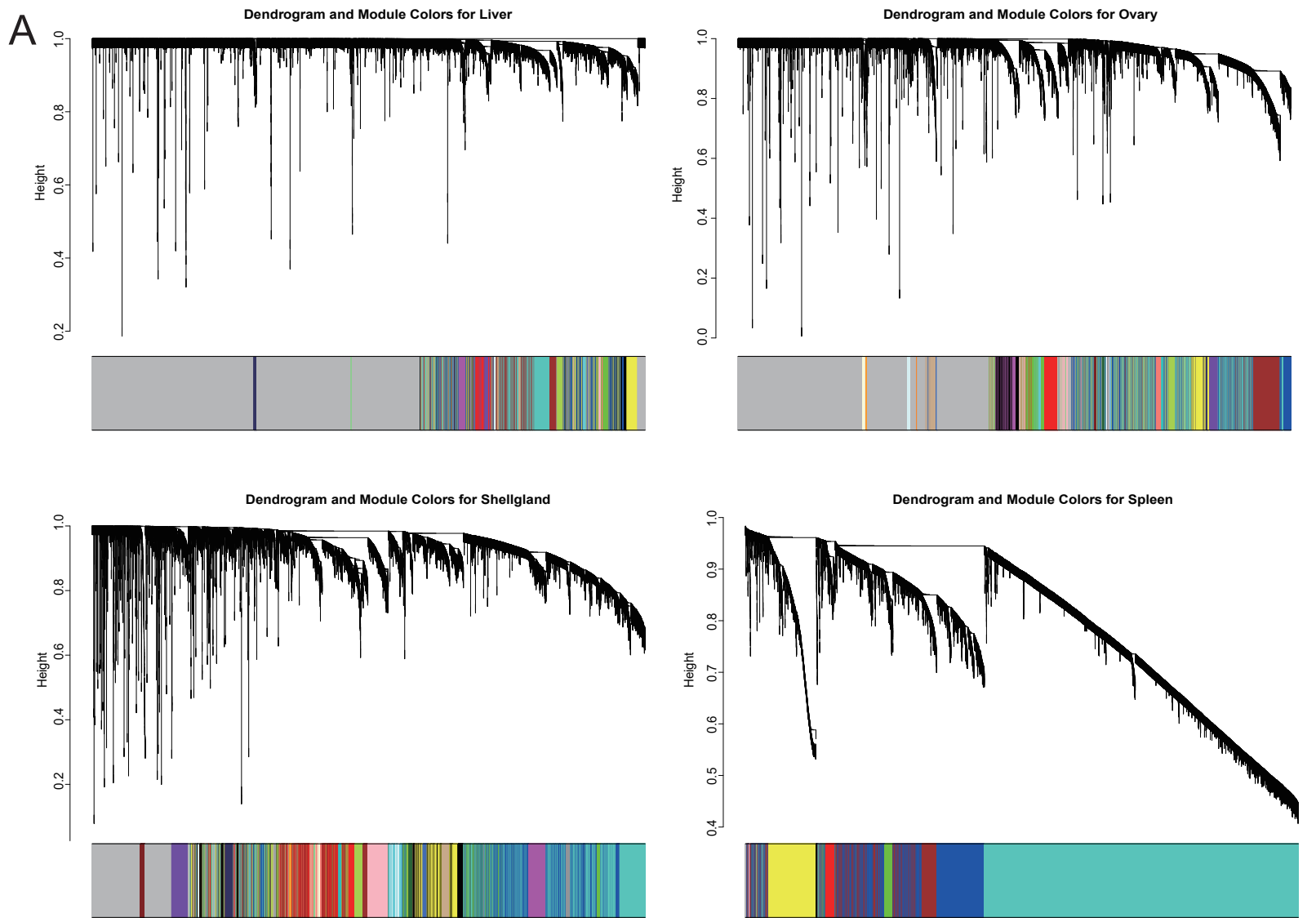




Supplemental Fig S8. The WGCNA and PheWAS results.

A. Hierarchical clustering dendrograms of gene expression in liver, ovary, shell gland, and spleen. The Y-axis represents the height of the dendrogram, which reflects the dissimilarity (distance) between gene expression profiles; higher values indicate lower similarity between branches being merged.

B. GO enrichment analysis of co-expression modules containing genes with causal effects on egg production. LOC101800576 and LOC101790890 were assigned to the ME3 module in the shell gland, GLP2R to the ME7 module in the spleen, and LOC119713219 to the ME6 module in the ovary.

C. PheWAS results of the human orthologs corresponding to genes with causal effects on egg production. The table lists the duck genes alongside their corresponding human orthologs. The x-axis represents human reproduction-related traits, and the y-axis shows the $-\log_{10}(P)$ of the most significant SNP associated with each ortholog in human GWAS.