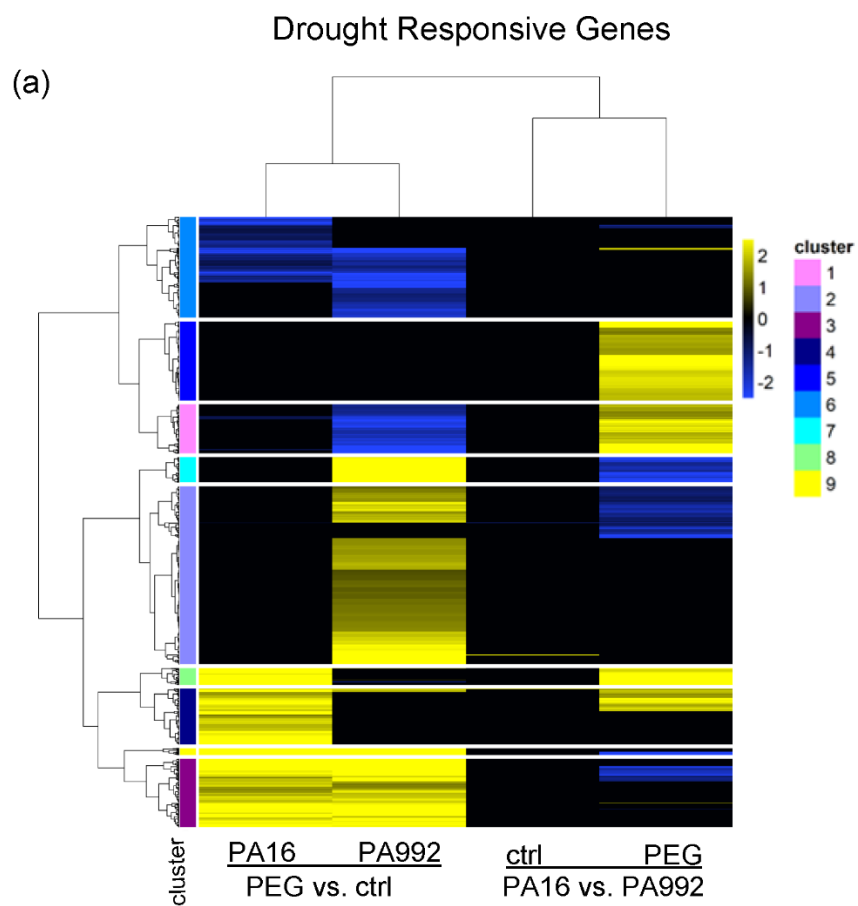




(b) Drought Response Correlation Between PA16 and PA992 Varieties
Pearson R= 0.935

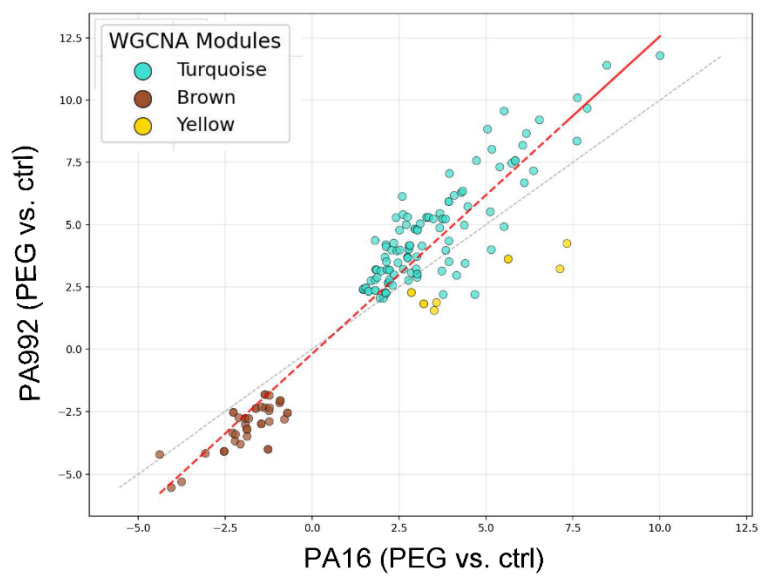


Figure S1- (a) Heatmap displaying differentially expressed genes (DEGs) responsive to PEG-induced drought stress in *Cajanus cajan* genotypes PA16 and PA992 under treated and control conditions. The color gradient represents $\log_2$ fold-change values, transitioning from blue (downregulation) to yellow (upregulation), with intermediate shades indicating moderate expression changes. (b) Correlation analysis of drought-responsive DEGs from PA16 and PA992 with key WGCNA modules (turquoise, brown, and yellow), highlighting their module membership under drought stress conditions.