

**Supplementary Figure 5:** Enrichment analysis of DEGs clustered in four module: **(A)** lightcyan module (NEC). **(B)** thistle module (EC). **(C)** blue module (early SE). **(D)** pink (somatic embryo development stages) using GO terms from GO Slim. Significantly over-represented GO terms were visualized by BiNGO application in Cytoscape. The size of a node represents the proportion of the GO term to the number of targets in GO biological process category. The deeper the color, the higher the level of significance.