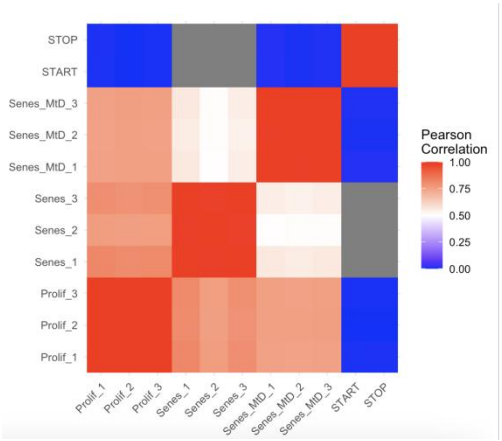
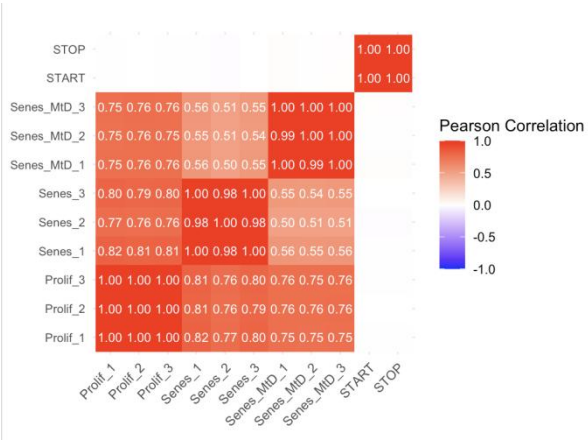
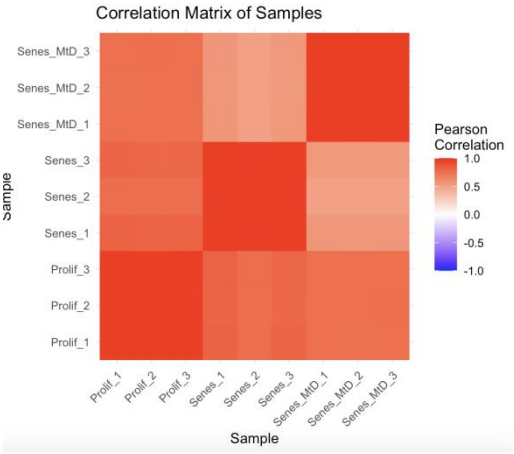
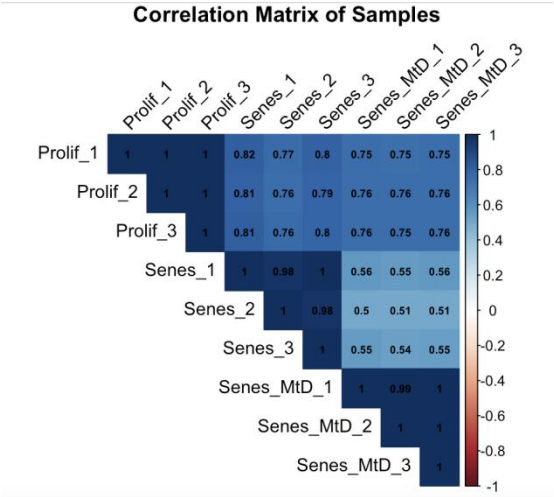
Picture

Heat map

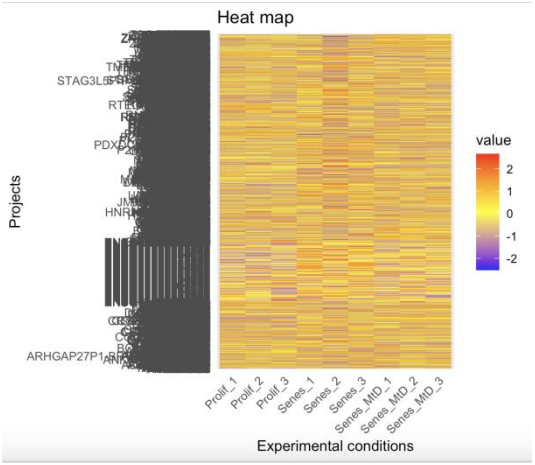


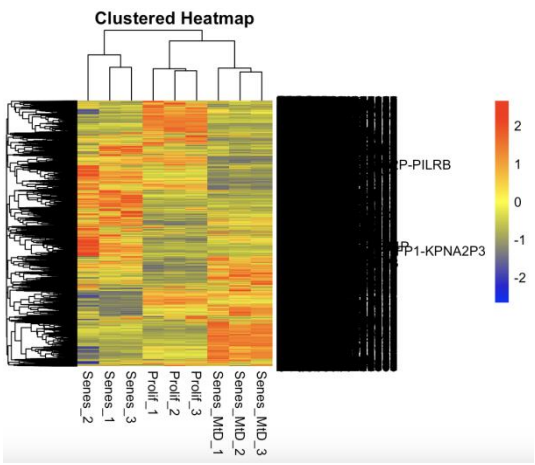




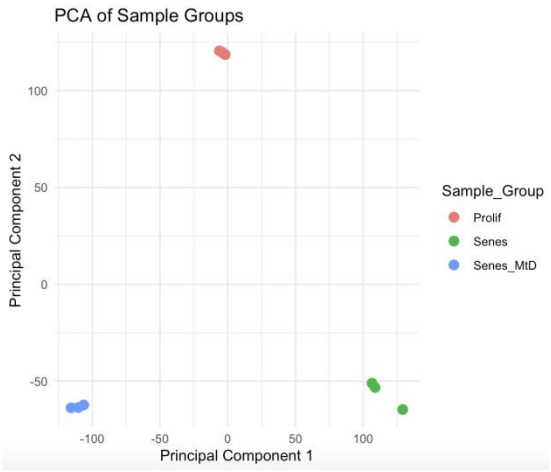


heat map and cluster

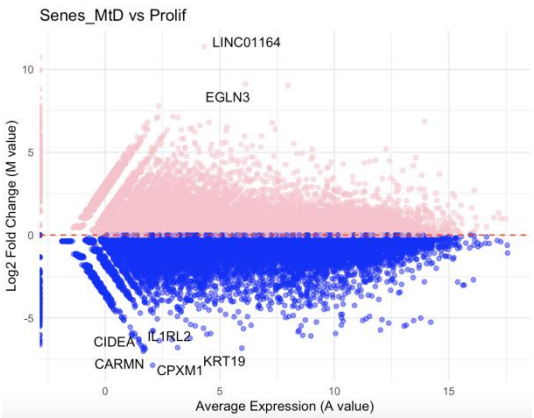


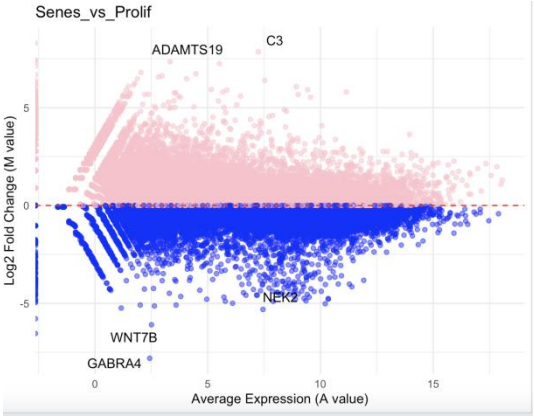


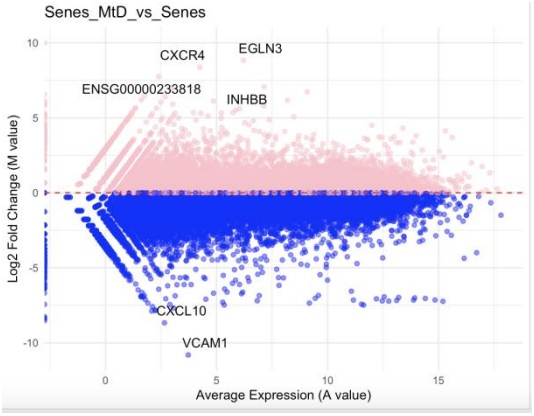
PCA


PCA of Sample Groups
Principal Component 2
Principal Component 1
Sample_Group
Prolif
Senes
Senes_MtD

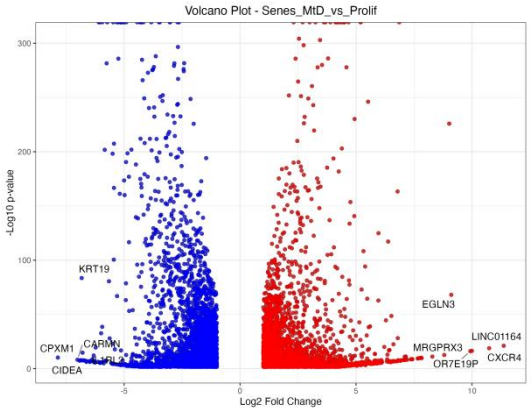
MA

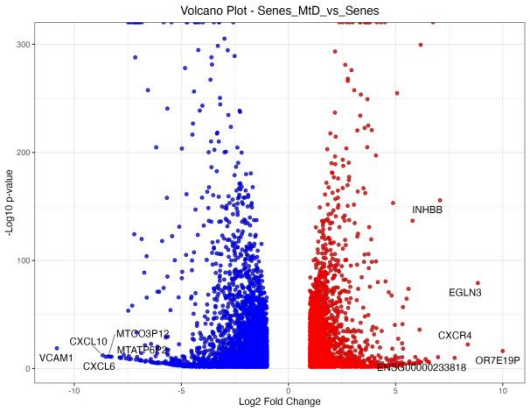

Senes_MtD vs Prolif
LINC01164
EGLN3
CIDEA
IL1RL2
CARMN
CPXM1
KRT19
Log2 Fold Change (M value)
Average Expression (A value)

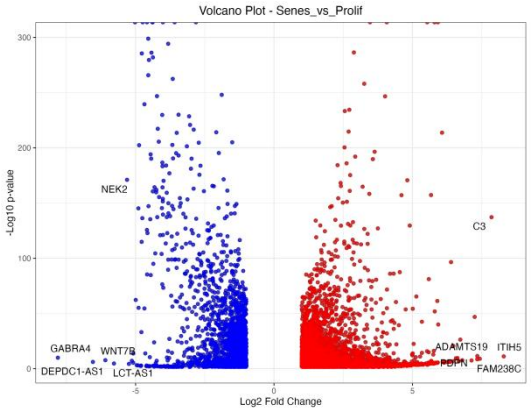

Senes_vs_Prolif
ADAMTS19
C3
NEK2
WNT7B
GABRA4
Log2 Fold Change (M value)
Average Expression (A value)


Senes_MtD_vs_Senes
CXCR4
EGLN3
ENSG00000233818
INHBB
CXCL10
VCAM1
Log2 Fold Change (M value)
Average Expression (A value)

Volcano

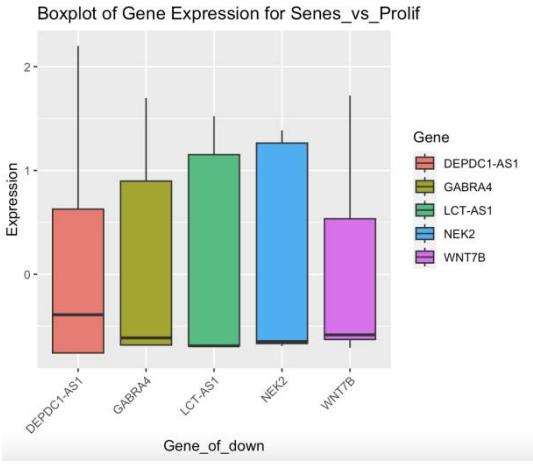




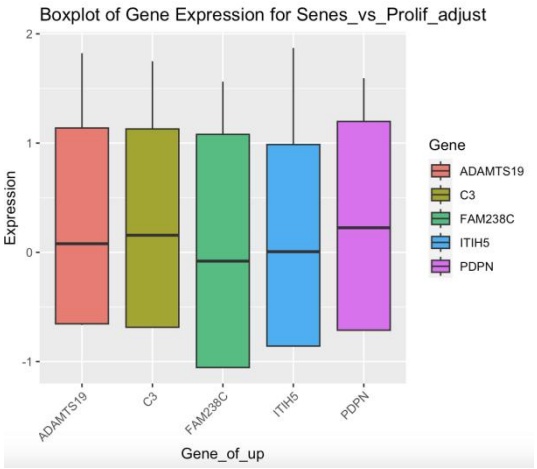


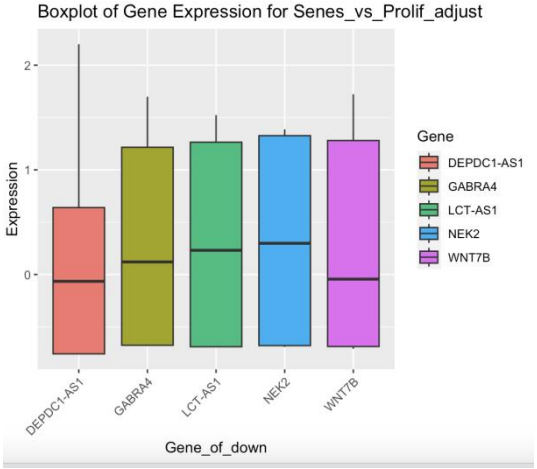
Box

Senes_vs_Prolif

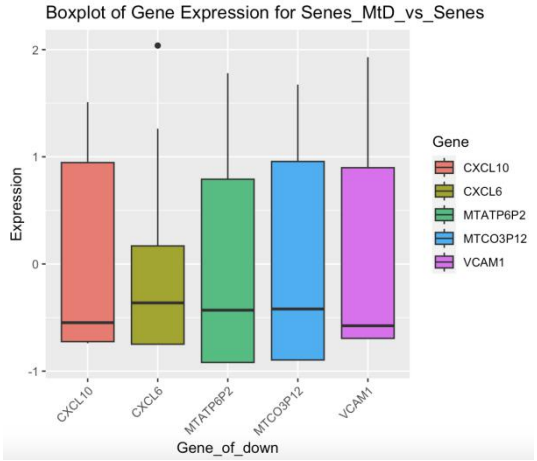


Senes_vs_Prolif_adjust

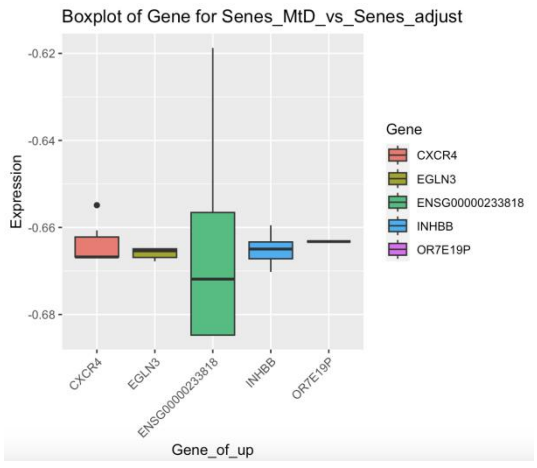


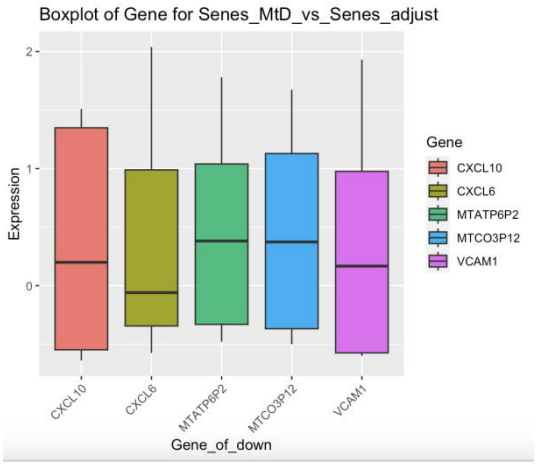


Senes_MtD_vs_Senes

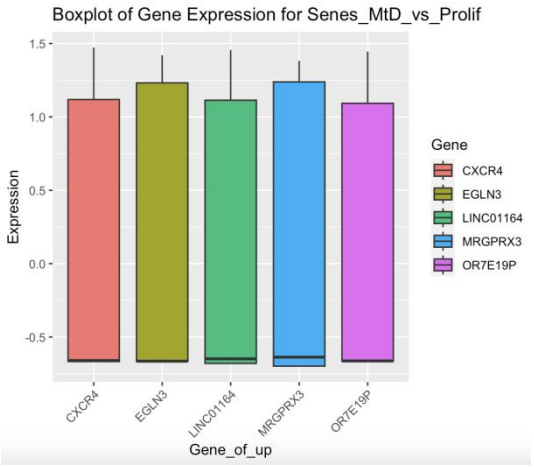


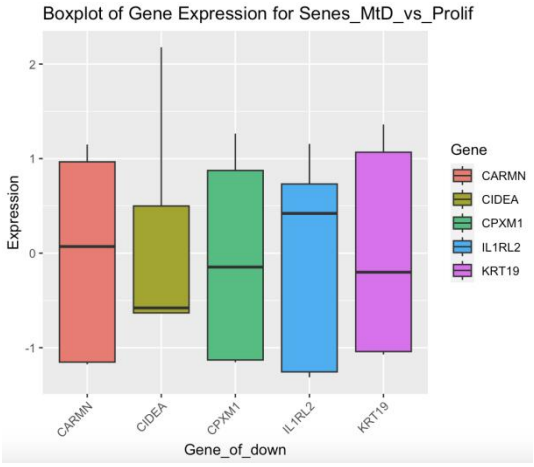
Senes_MtD_vs_Senes_adjust



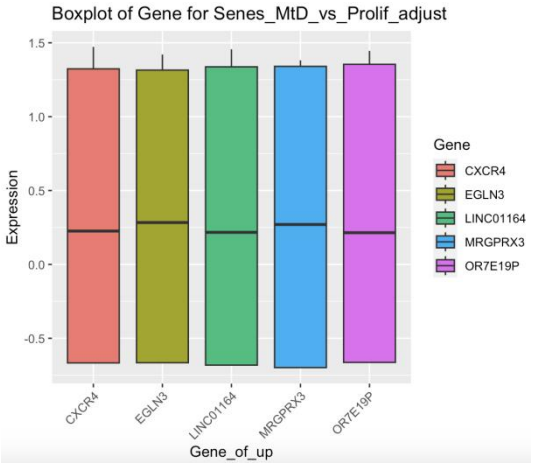


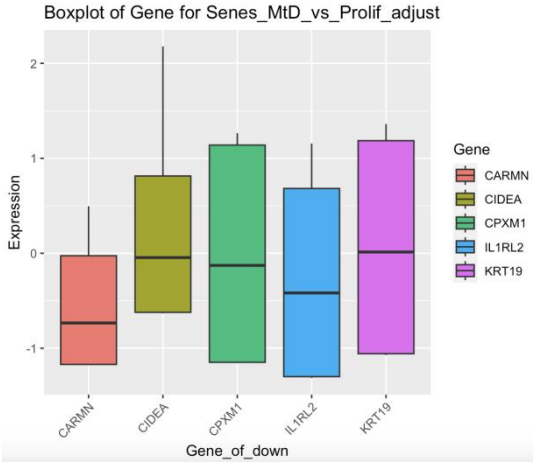
Senes_MtD_vs_Prolif





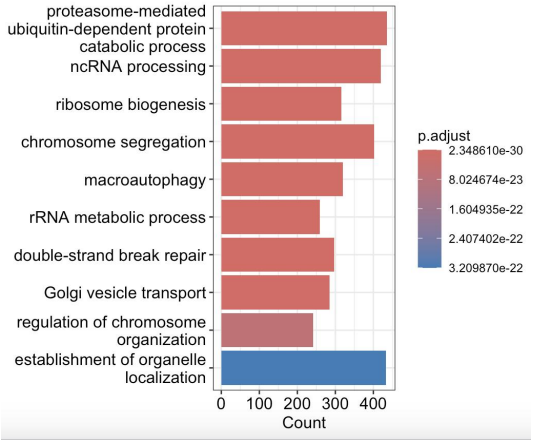
Senes_MtD_vs_Prolif_adjust

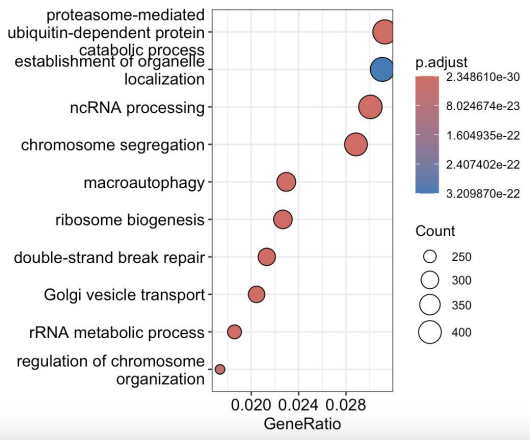


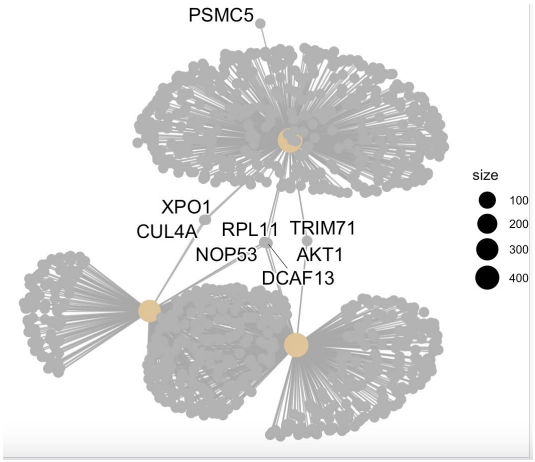


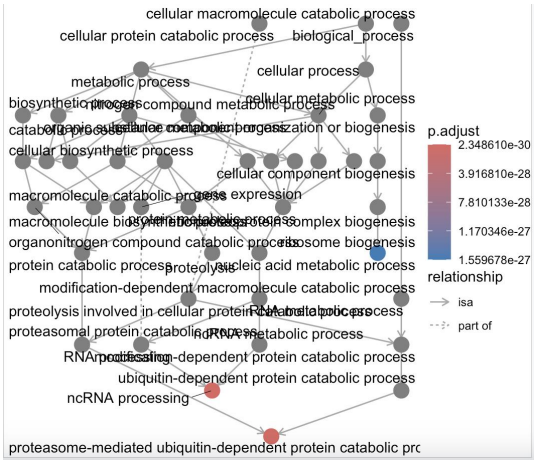
Pathway

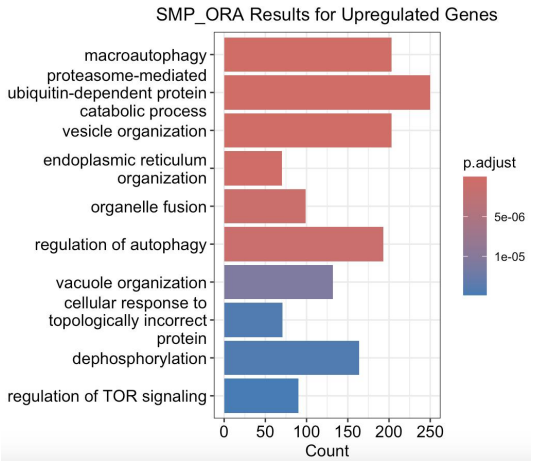
Senes_MtD_vs_Prolif

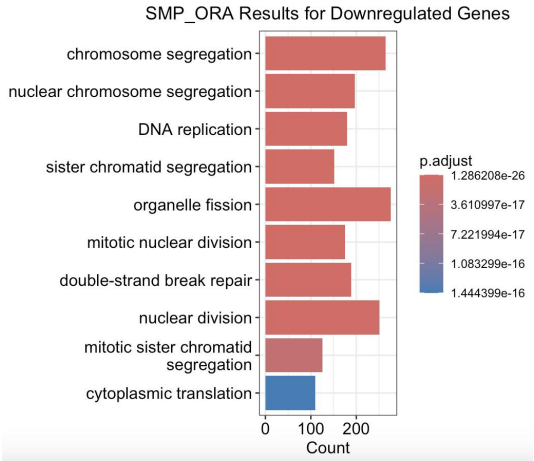




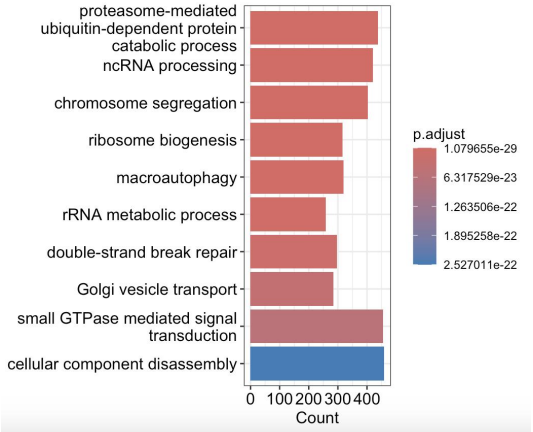


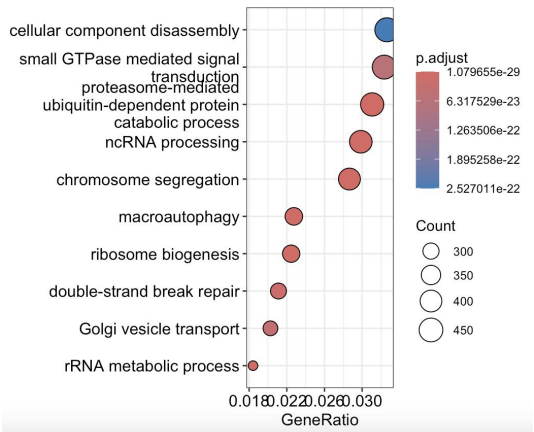


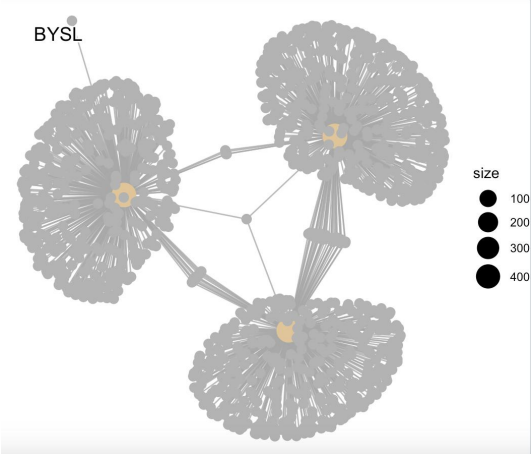


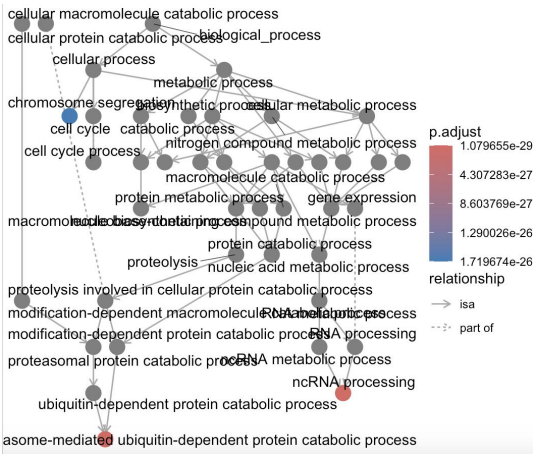


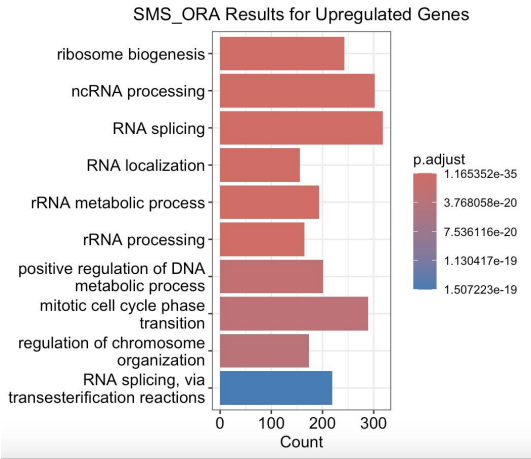
Senes_MtD_vs_Senes

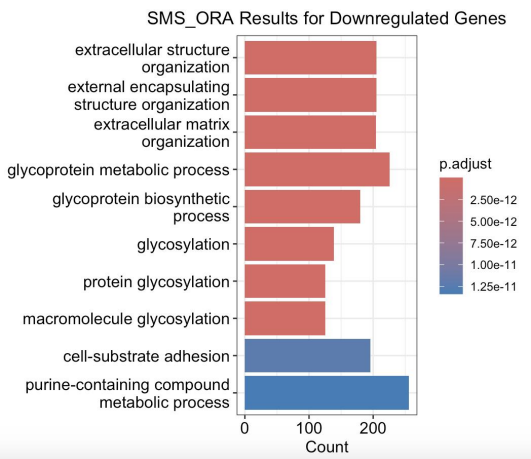




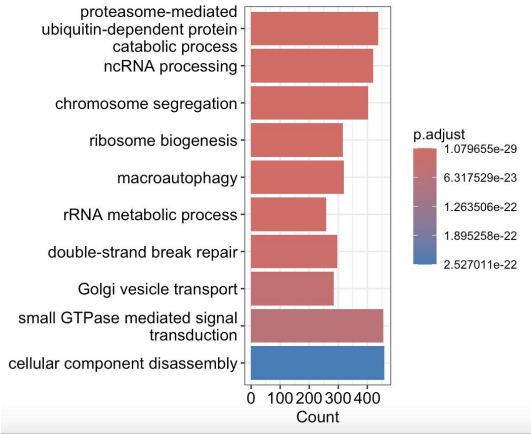


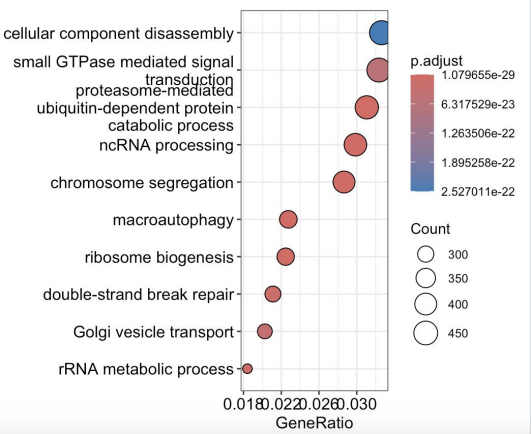


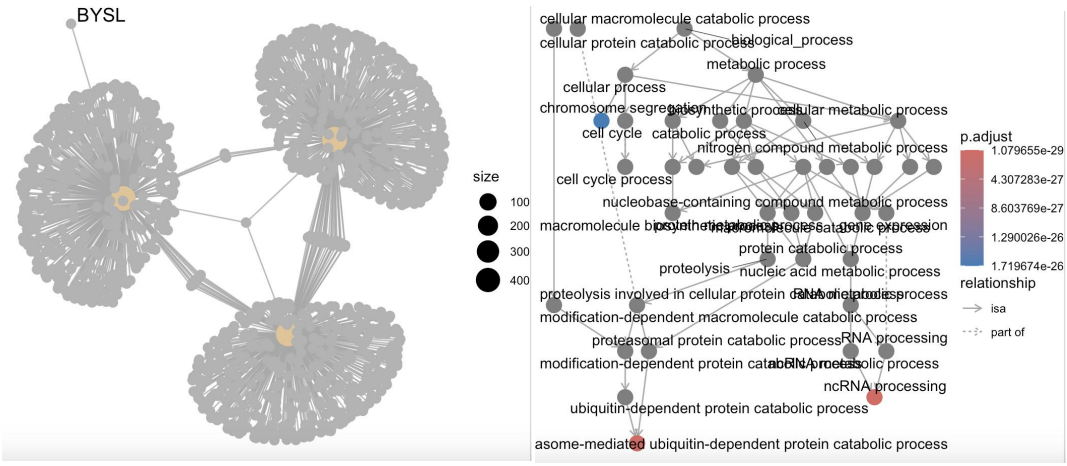


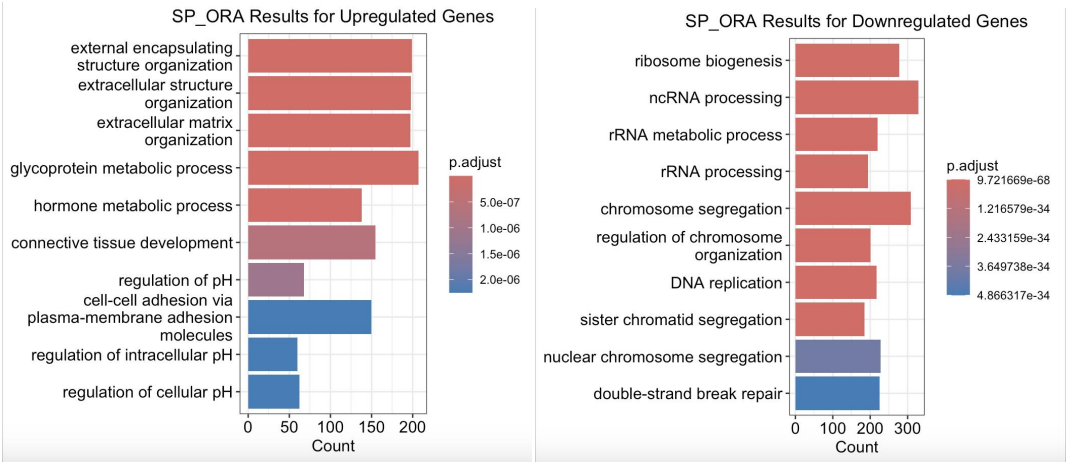


Senes_vs_Prolif









In the Gene Ontology (GO) enrichment analysis experiments, the results of the Senes_MtD_vs_Senes and Senes_vs_Prolif groups were the same, indicating similarities in their functional classifications. However, the analysis of overexpressed (upregulated) and underexpressed (downregulated) genes in these two experiments showed significant differences, suggesting that despite their functional similarities, there are notable differences at the level of gene expression regulation.