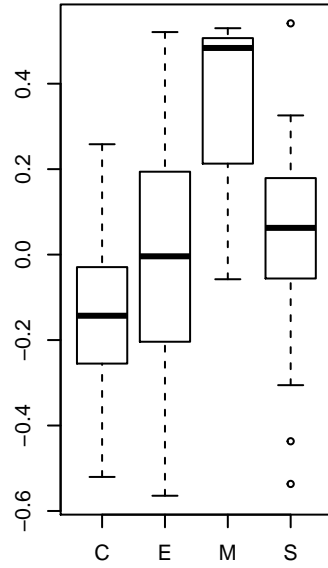


Supplementary File 2.

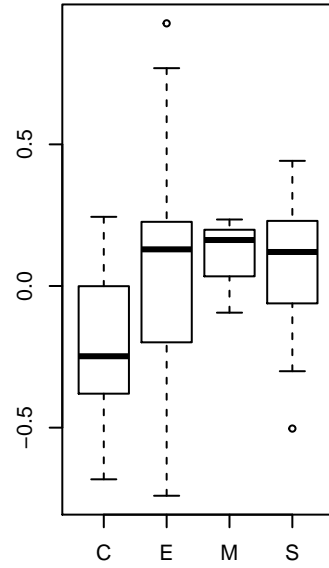
Boxplots of log<sub>2</sub> significant ( $P < 0.05$ ) differentially expressed genes in selected pathways. Kruskal-Wallis test was used for significance test between subgroups. C: Clear Cell, E: Endometrioid, M: Mucinous, S: Serous.

# Chromatin Organization

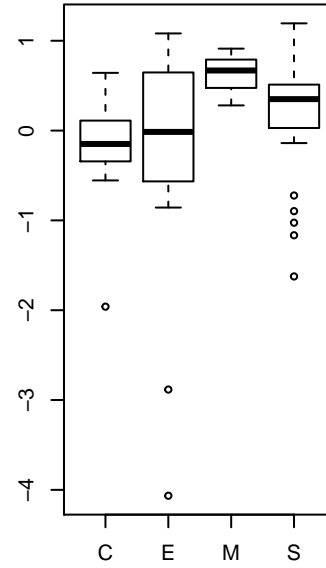
**ARID4B P= 0.038**



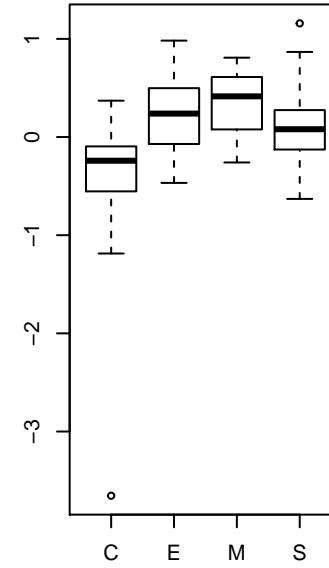
**ATF2 P= 0.019**



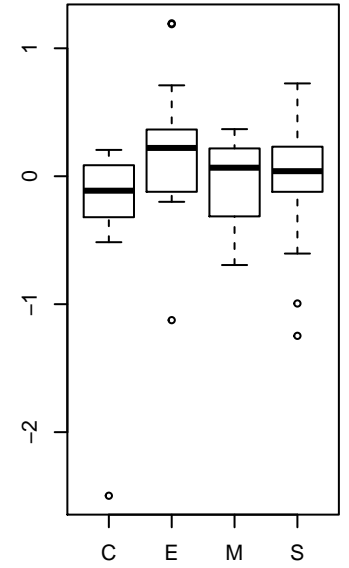
**BRPF1 P= 0.04**



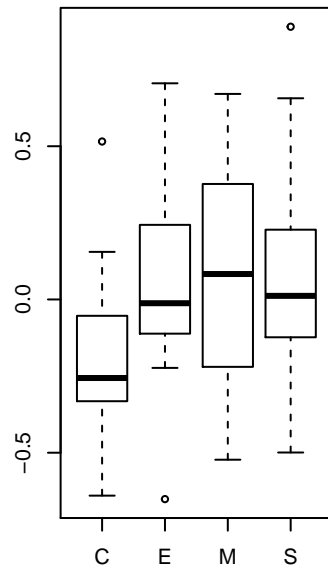
**BRPF3 P= 0.001**



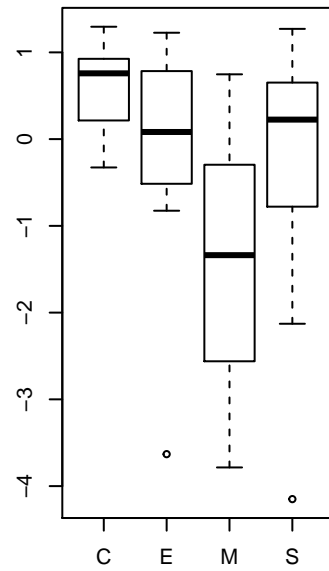
**ELP3 P= 0.05**



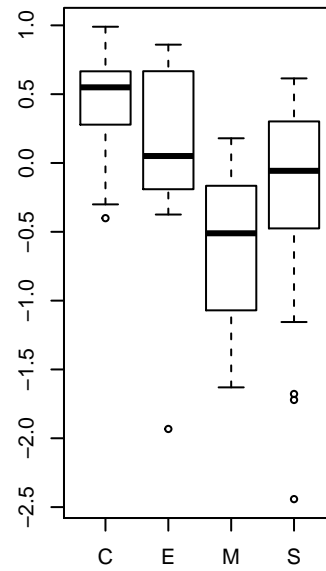
**GATAD2B P= 0.039**



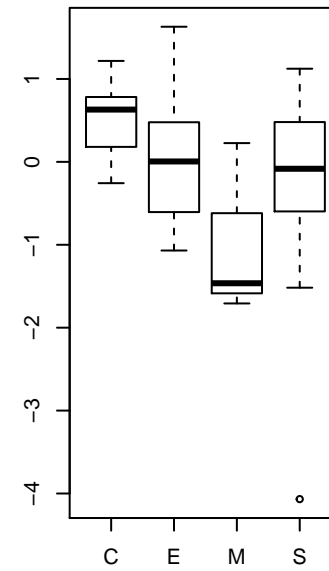
**HIST1H2AB P= 0.037**



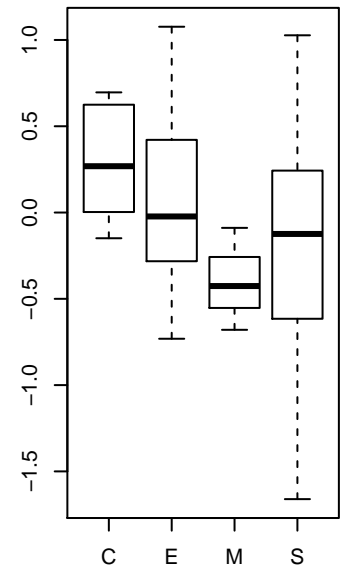
**HIST1H2AC P= 0.004**



**HIST1H2AD P= 0.013**

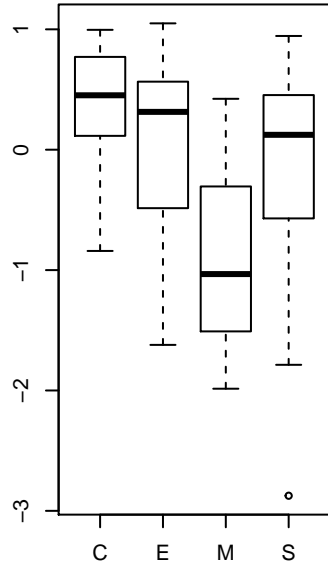


**HIST1H2AH P= 0.019**

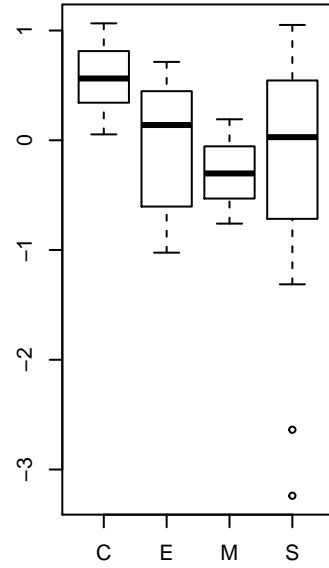


# Chromatin Organization

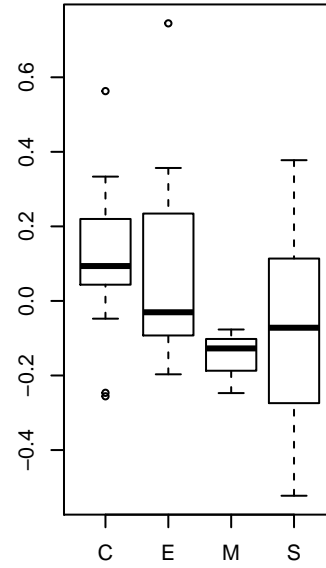
**HIST1H2AI P= 0.034**



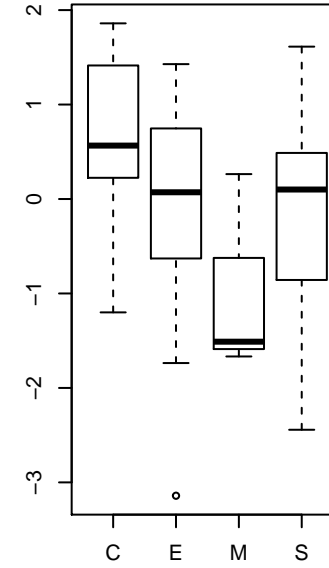
**HIST1H2AJ P= 0.005**



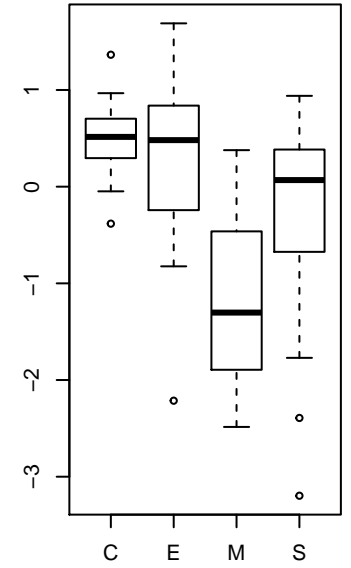
**HIST1H2BC P= 0.045**



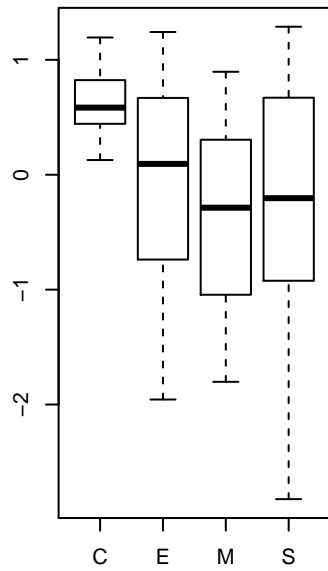
**HIST1H2BH P= 0.019**



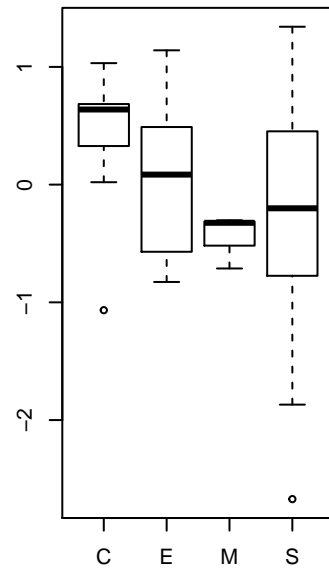
**HIST1H2BK P= 0.007**



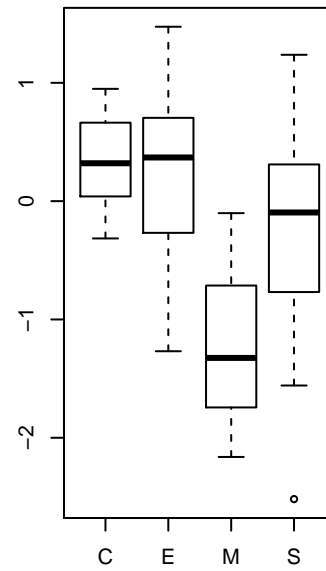
**HIST1H2BM P= 0.021**



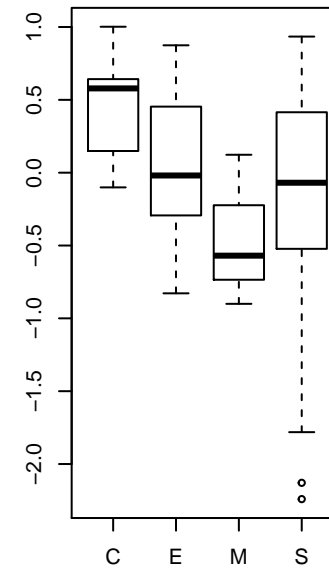
**HIST1H3A P= 0.021**



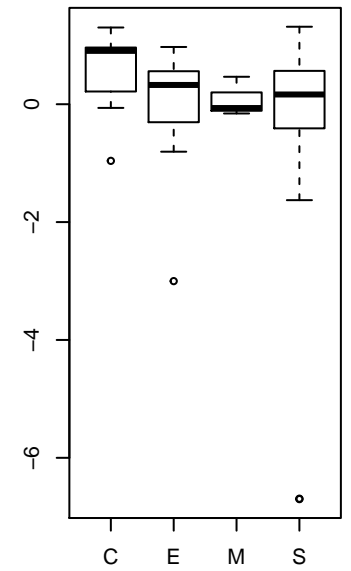
**HIST1H3D P= 0.028**



**HIST1H3F P= 0.005**

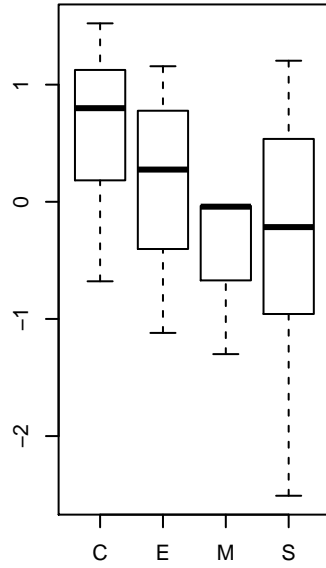


**HIST1H3H P= 0.048**

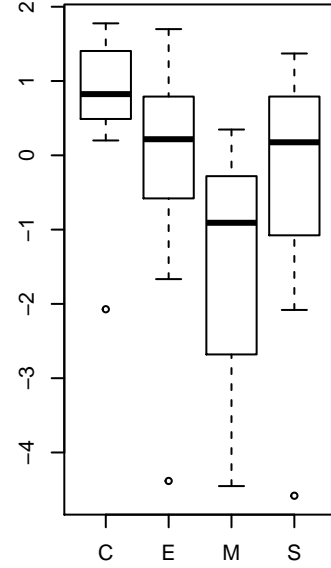


# Chromatin Organization

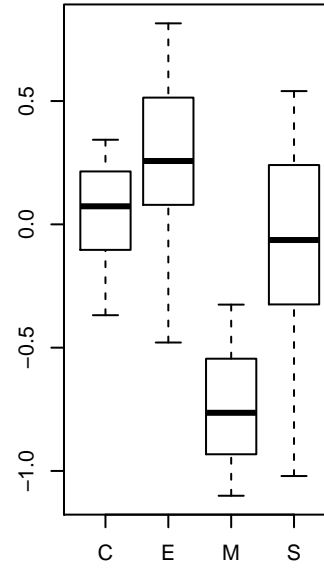
**HIST1H3I P= 0.024**



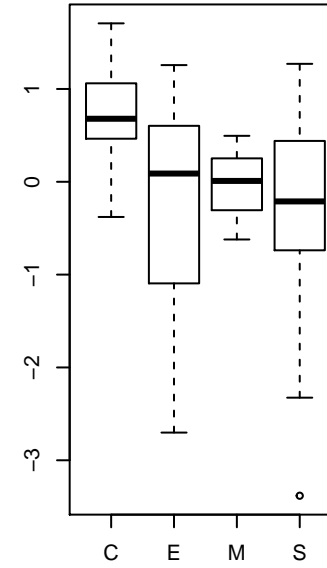
**HIST1H4A P= 0.012**



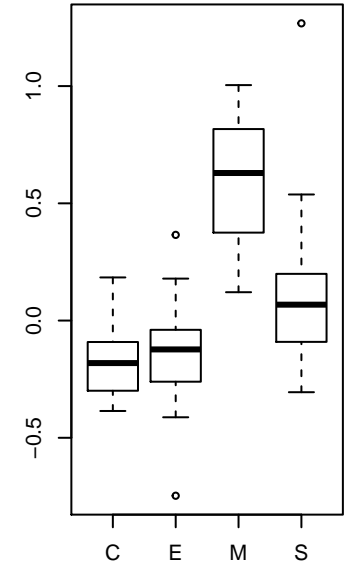
**HIST2H2AA3 P= 0.003**



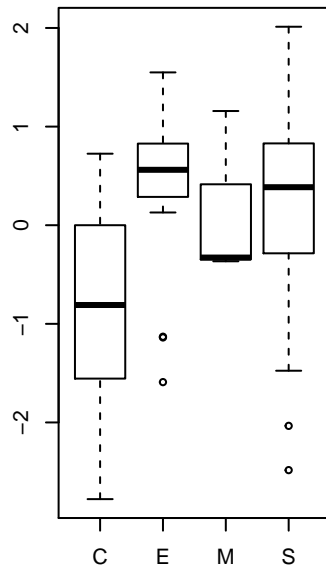
**JMJD6 P= 0.009**



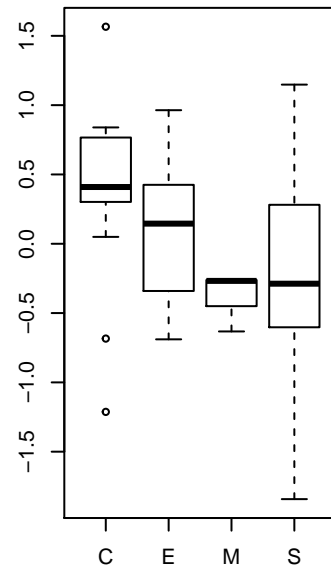
**KAT2A P= 0**



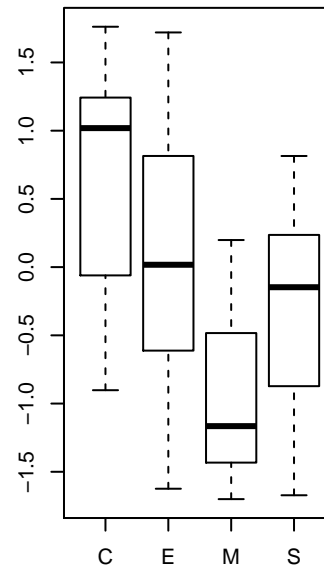
**MTA1 P= 0.007**



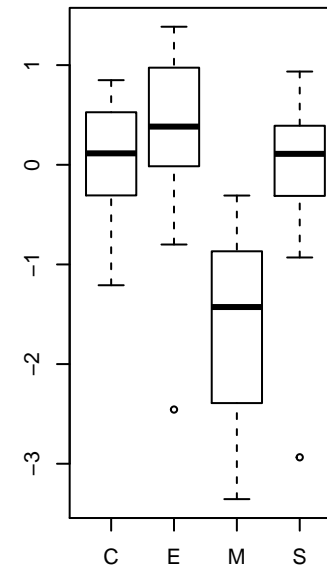
**NFKB2 P= 0.01**



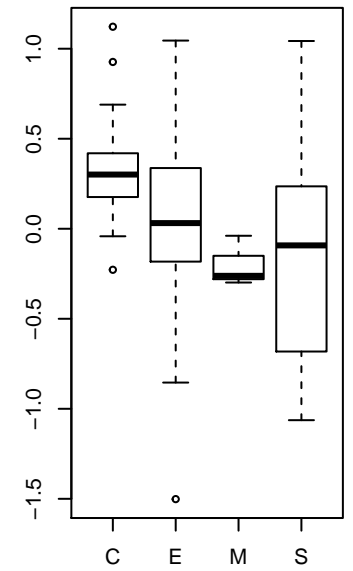
**PHF8 P= 0.003**



**RBBP7 P= 0.044**

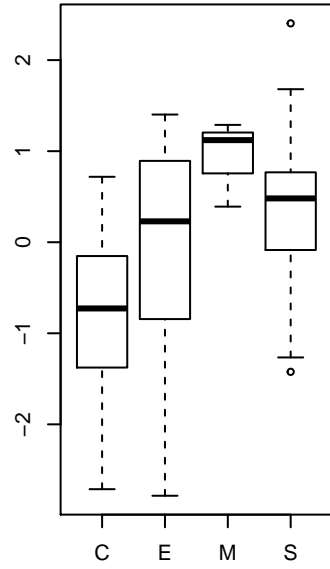


**RUVBL2 P= 0.021**

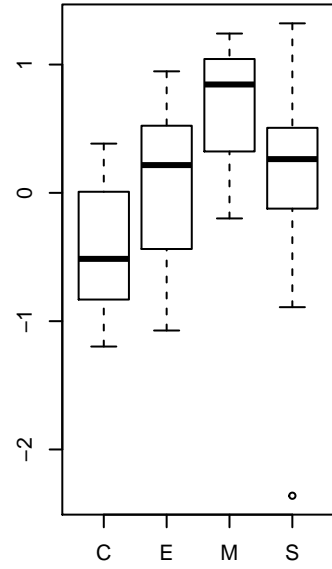


# Chromatin Organization

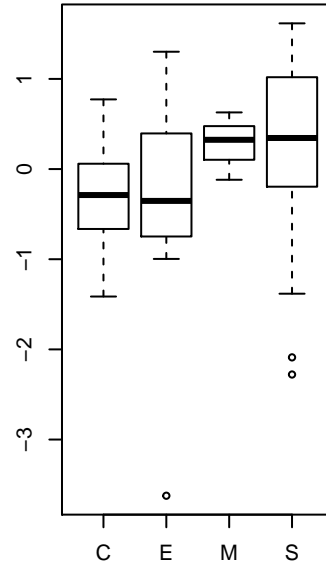
SAP18 P= 0.002



SMARCC2 P= 0.008

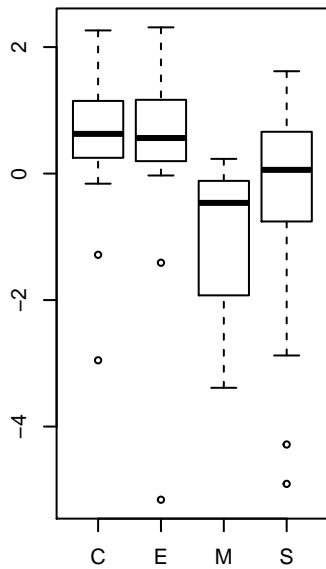


SMARCD3 P= 0.016

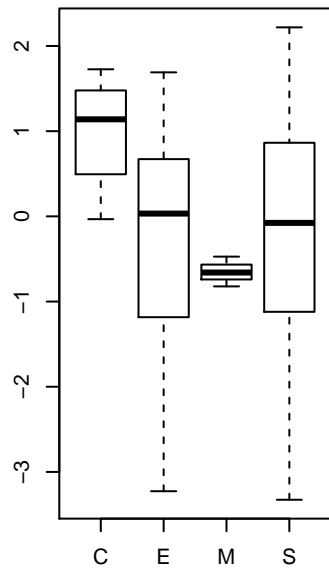


# PI3K/AKT Signaling in Cancer

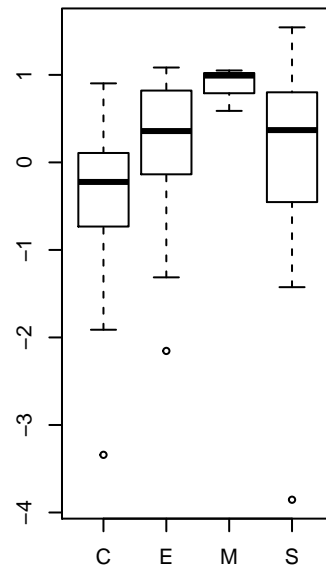
**BTC P= 0.043**



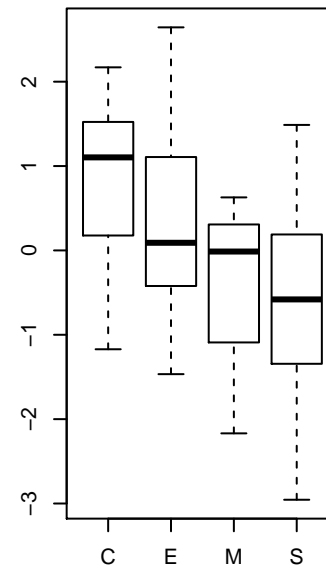
**CDKN1A P= 0.002**



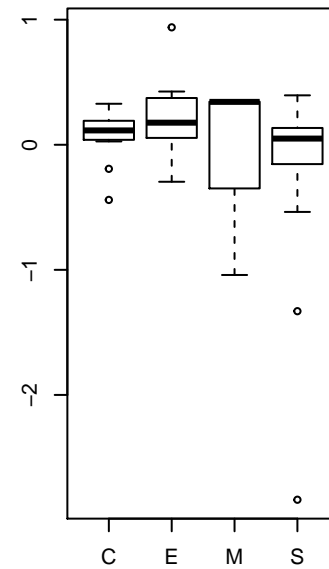
**EGFR P= 0.031**



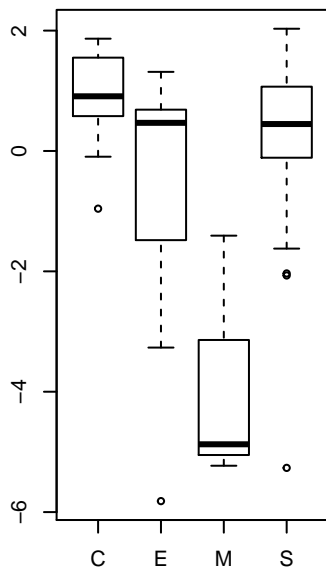
**ERBB2 P= 0.006**



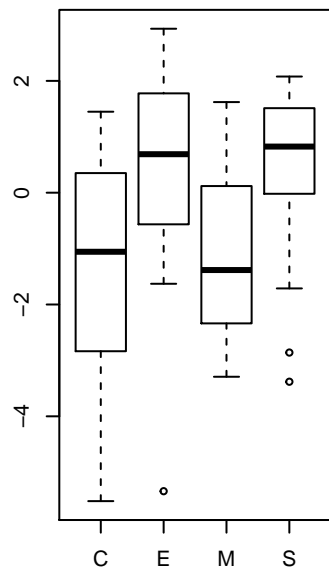
**ERBB3 P= 0.025**



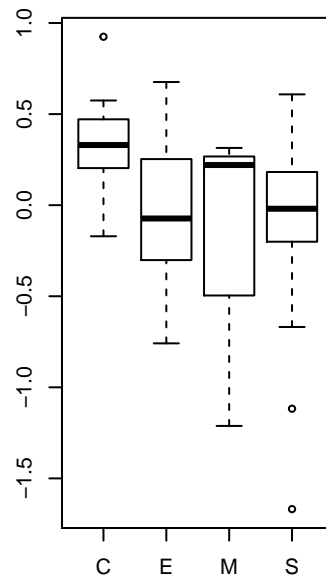
**FGF18 P= 0.007**



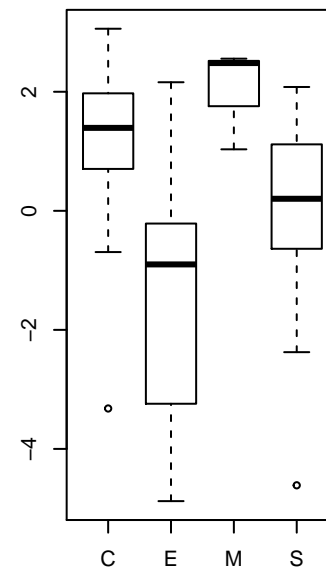
**FGF9 P= 0.012**



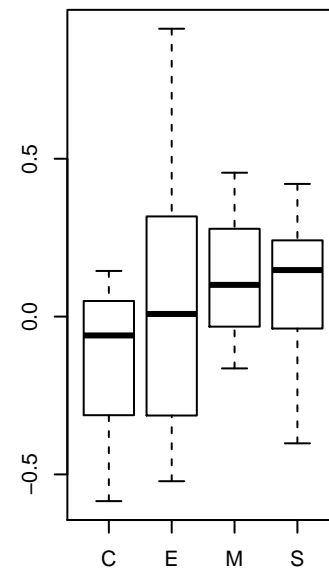
**FGFR3 P= 0.005**



**FGFR4 P= 0**

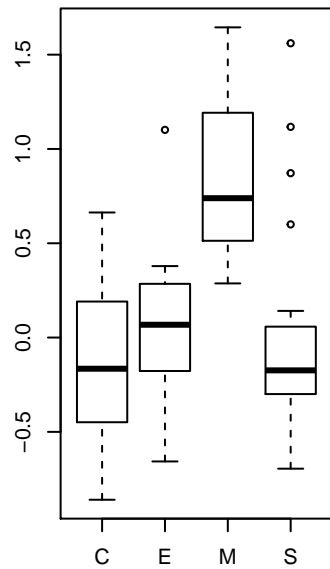


**FOXO3 P= 0.04**

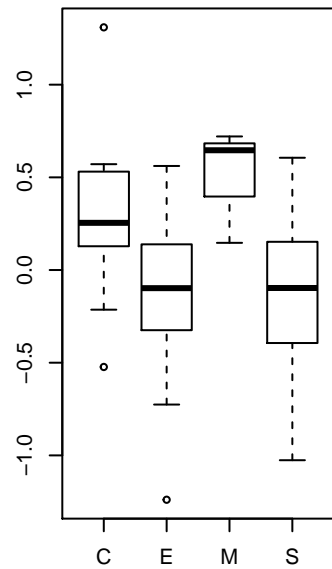


# PI3K/AKT Signaling in Cancer

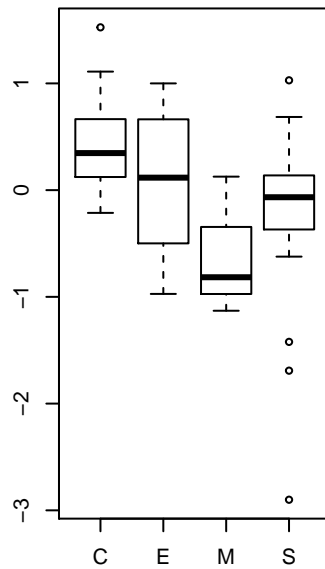
**FOXO4 P= 0.035**



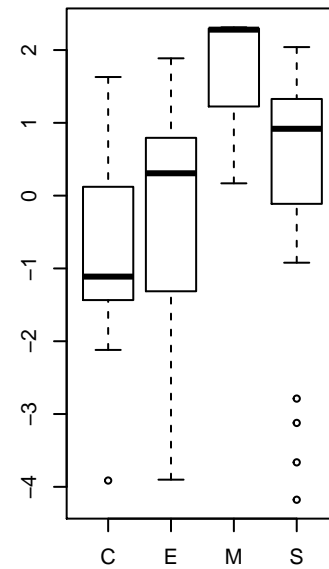
**GAB1 P= 0.002**



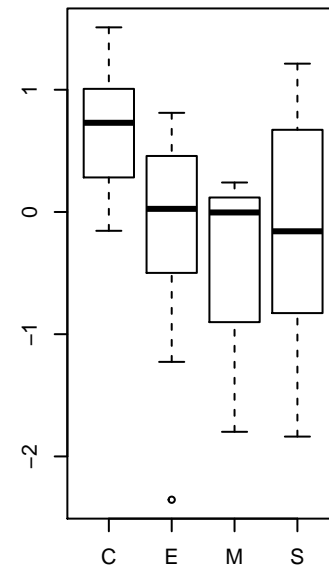
**GRB2 P= 0.007**



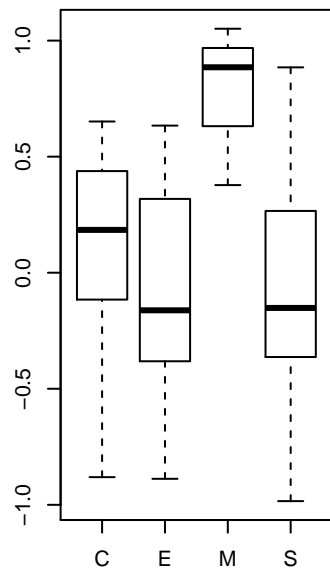
**IRS1 P= 0.02**



**MET P= 0.005**

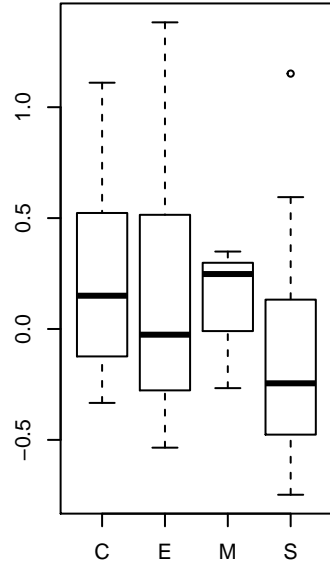


**PDGFRB P= 0.027**

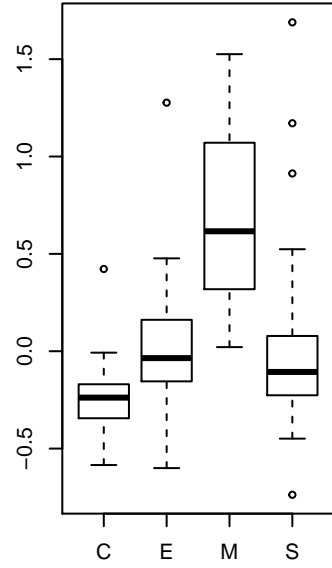


# RAF MAP kinase cascade

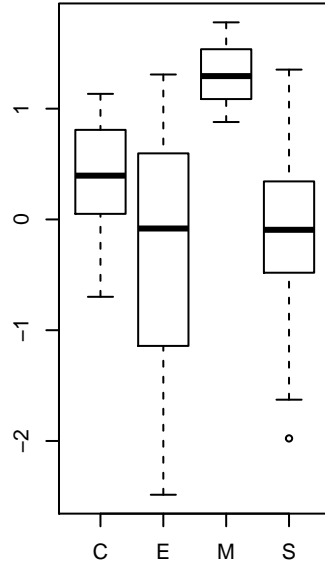
**ACTN2 P= 0.03**



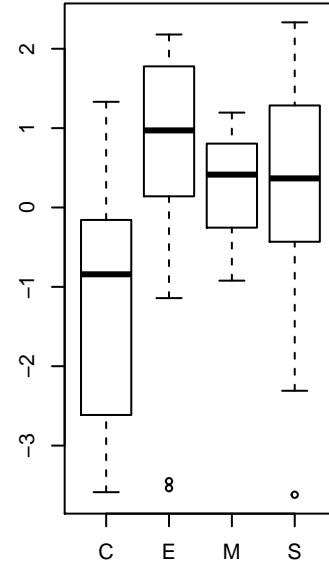
**AKAP9 P= 0.008**



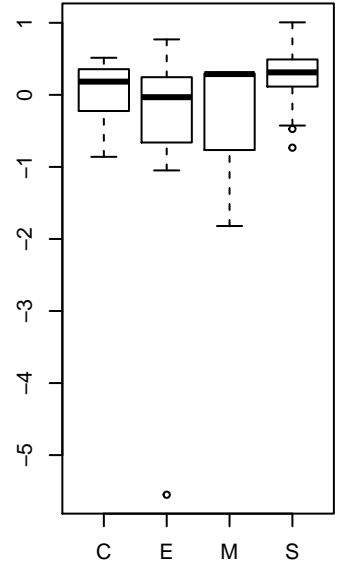
**ARRB1 P= 0.008**



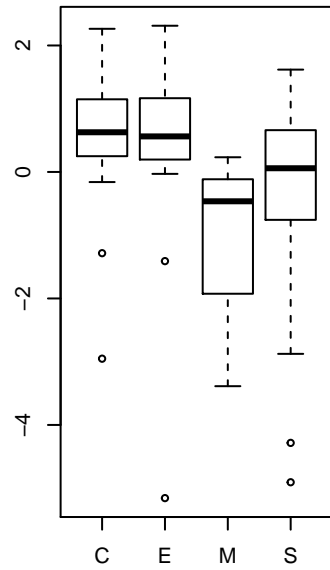
**ARTN P= 0.011**



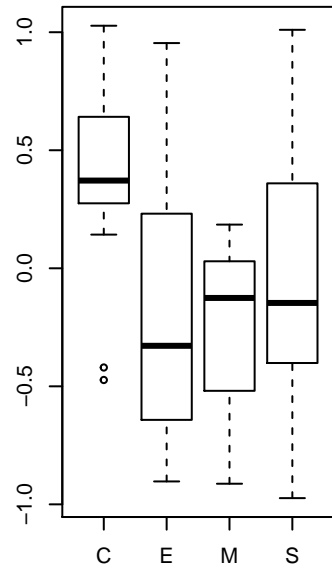
**BRAF P= 0.042**



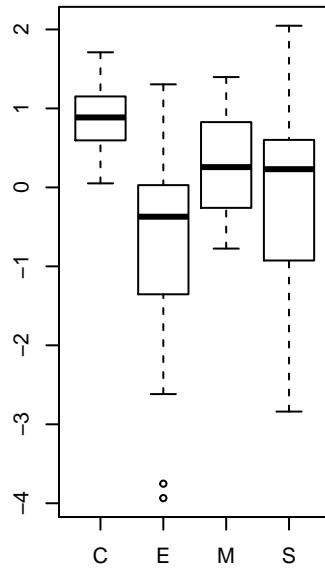
**BTC P= 0.043**



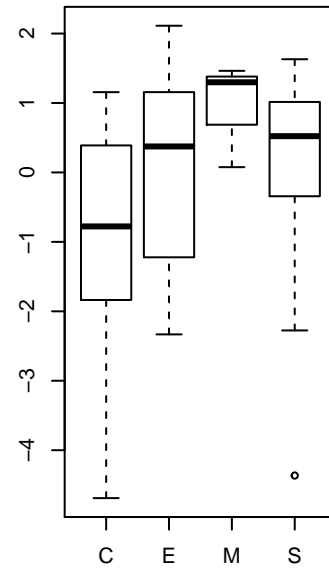
**DUSP1 P= 0.028**



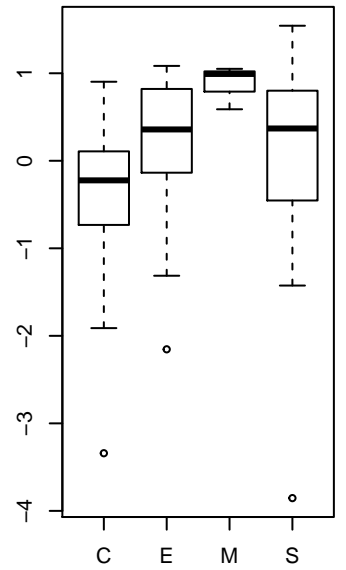
**DUSP5 P= 0.001**



**DUSP8 P= 0.043**



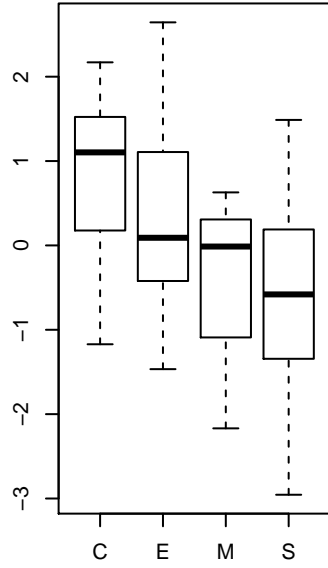
**EGFR P= 0.031**



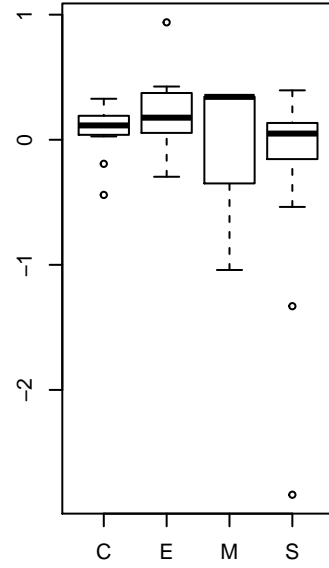


# RAF MAP kinase cascade

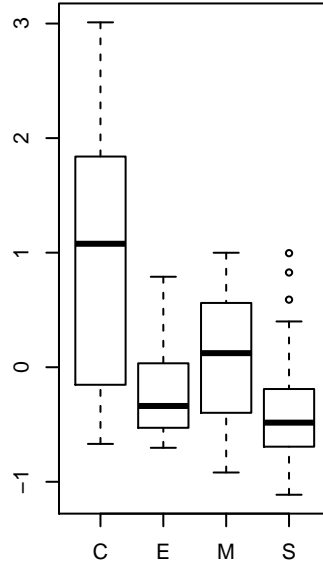
**ERBB2 P= 0.006**



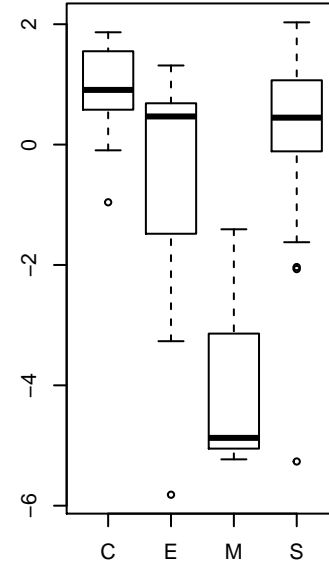
**ERBB3 P= 0.025**



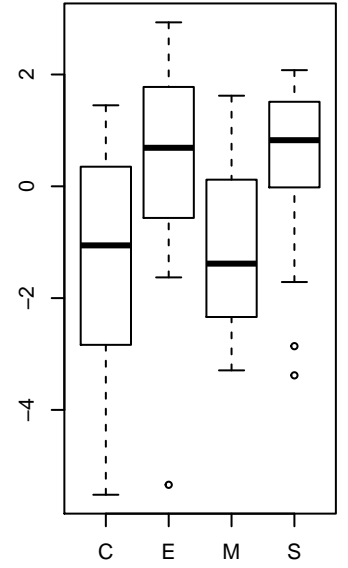
**FGA P= 0.002**



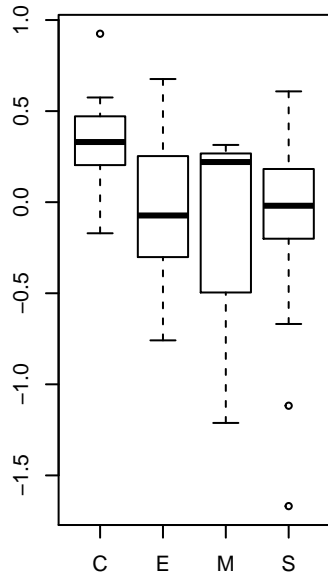
**FGF18 P= 0.007**



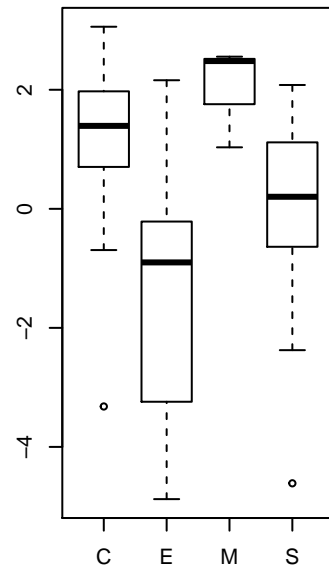
**FGF9 P= 0.012**



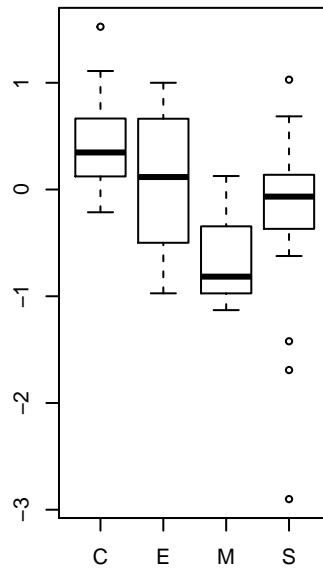
**FGFR3 P= 0.005**



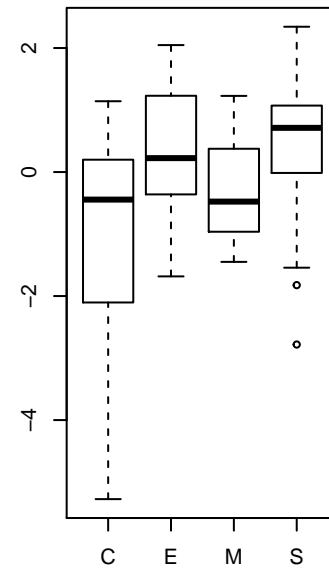
**FGFR4 P= 0**



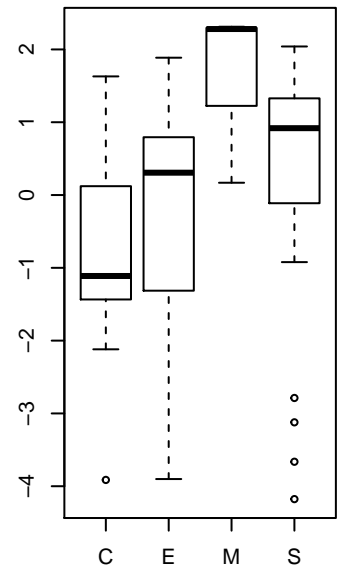
**GRB2 P= 0.007**



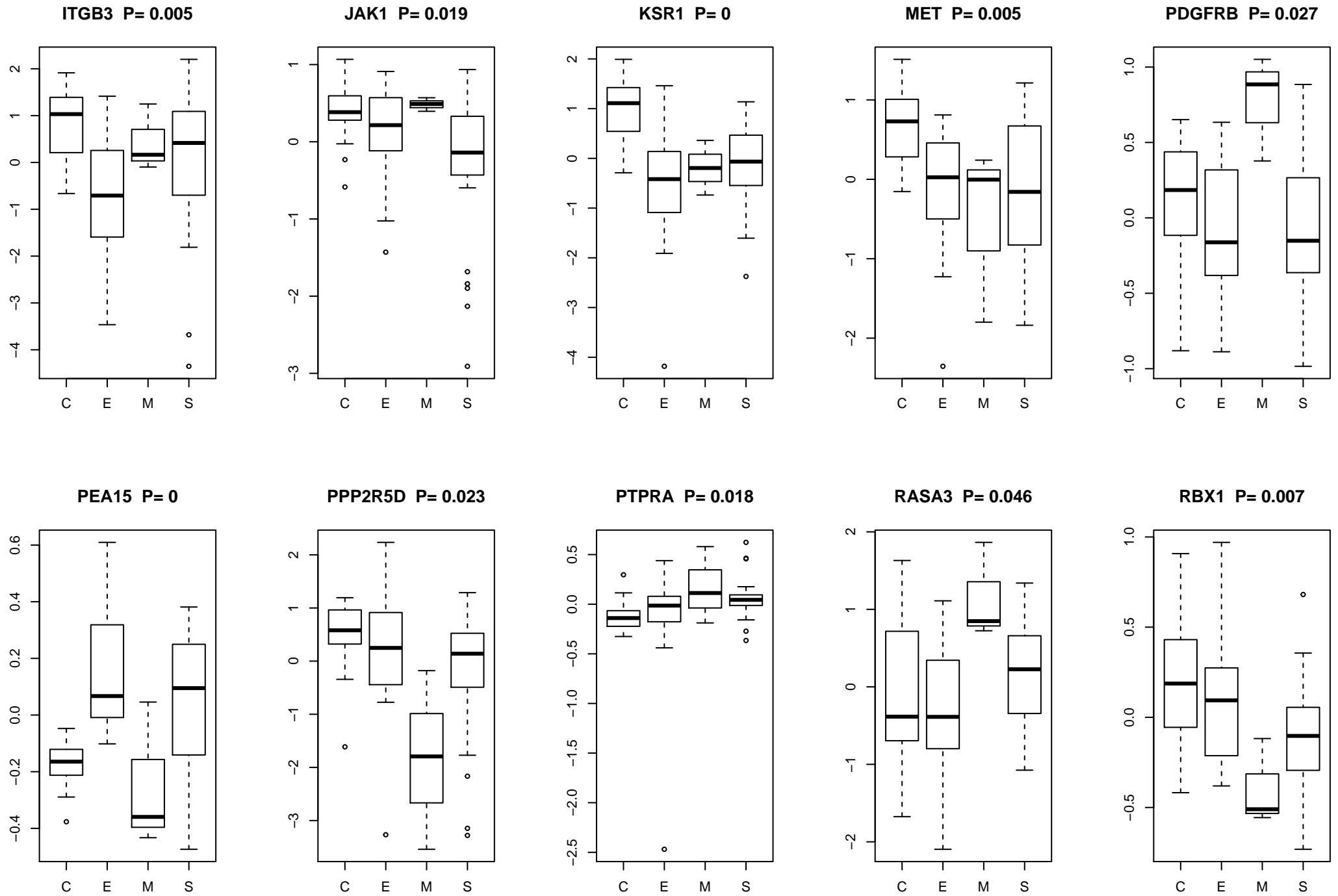
**IL17RD P= 0.036**



**IRS1 P= 0.02**

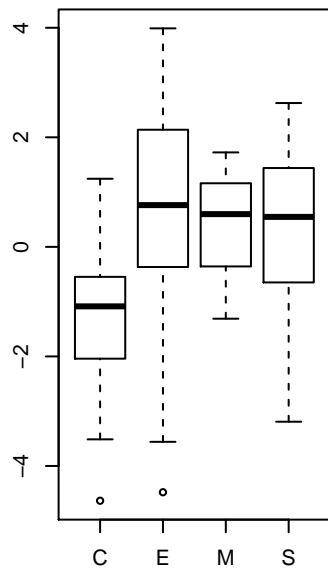


# RAF MAP kinase cascade

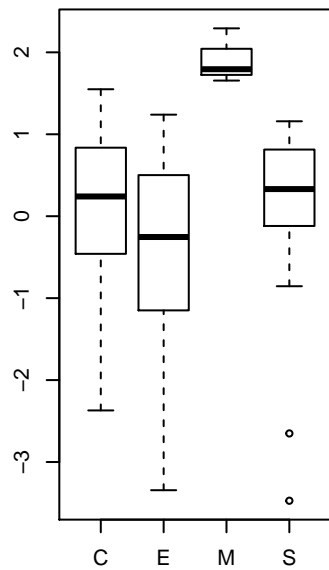


# RAF MAP kinase cascade

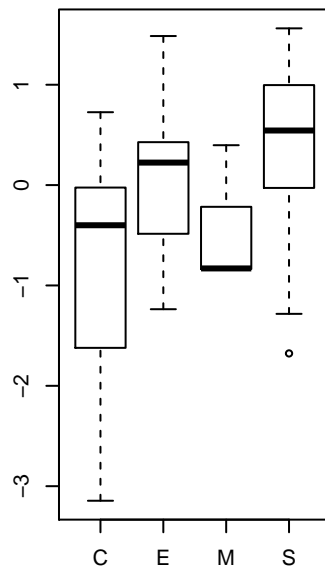
**RET P= 0.012**



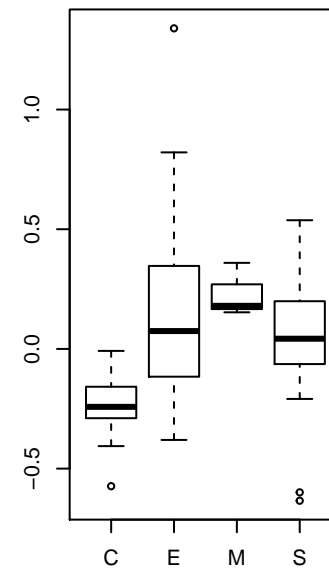
**SPTBN1 P= 0.008**



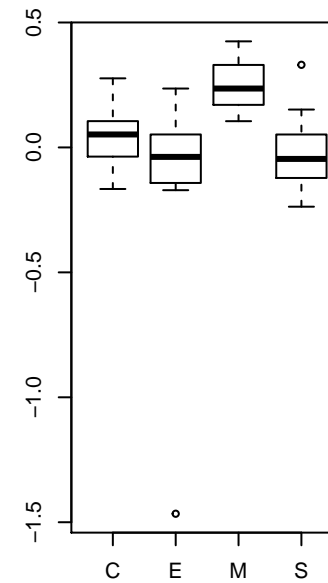
**SPTBN2 P= 0.002**



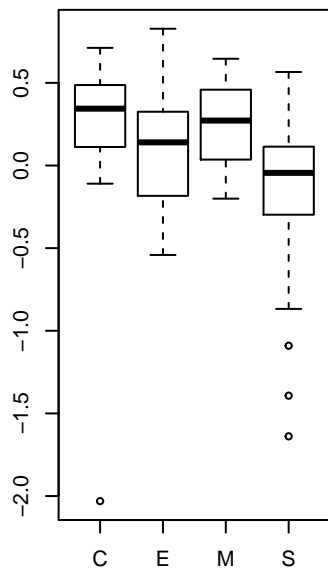
**UBA52 P= 0**



**VWF P= 0.017**

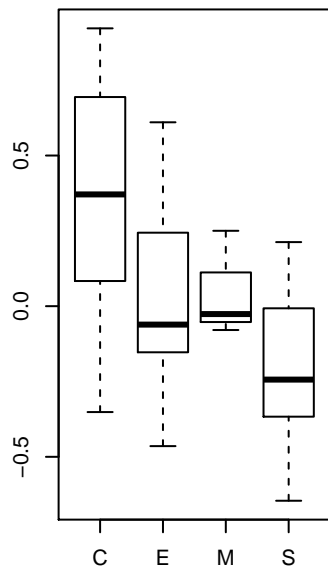


**YWHAB P= 0.016**

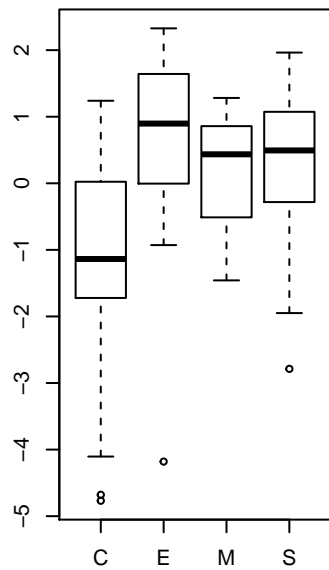


# Rho GTPase Cycle

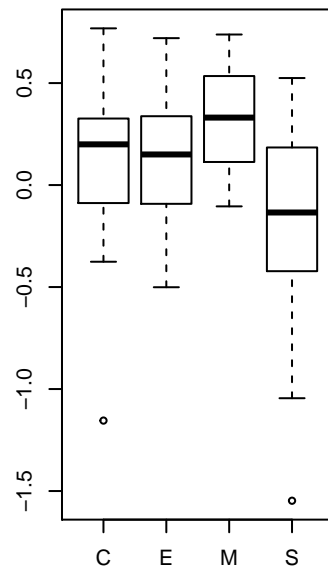
**ARHGAP1 P= 0**



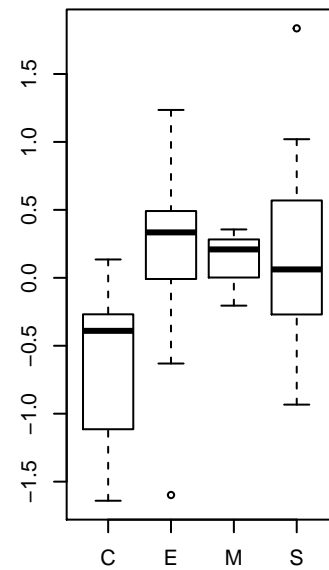
**ARHGAP26 P= 0.006**



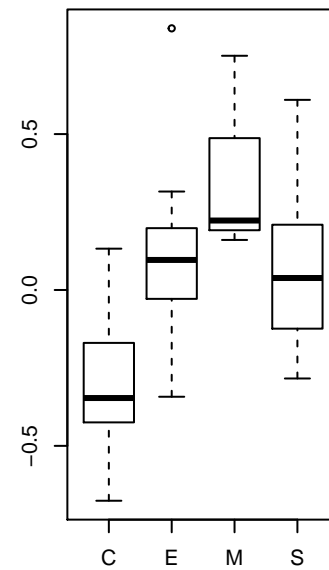
**ARHGEF16 P= 0.049**



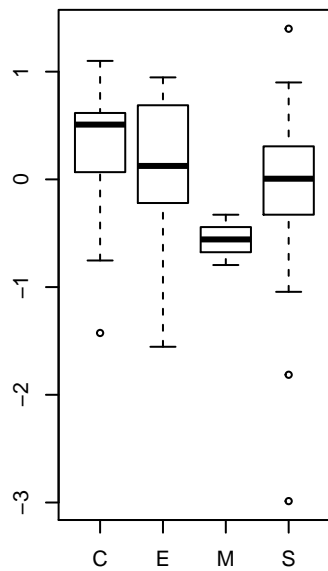
**ARHGEF19 P= 0**



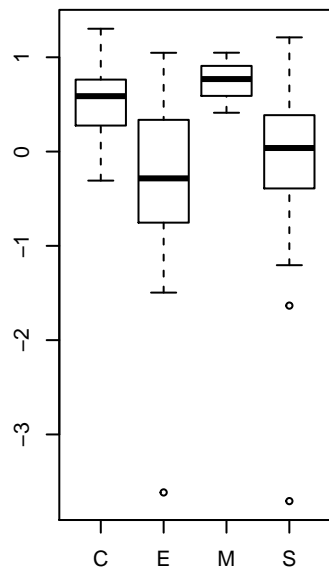
**ARHGEF2 P= 0**



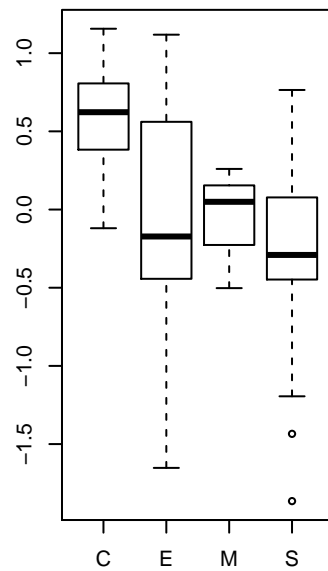
**ARHGEF5 P= 0.041**



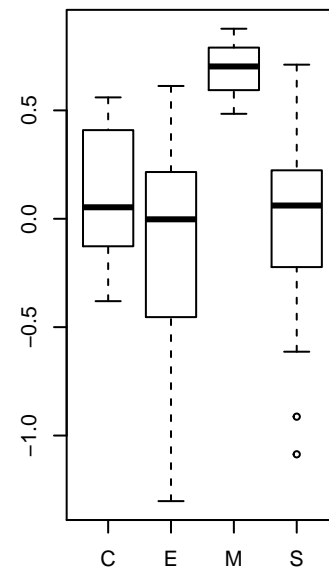
**ARHGEF6 P= 0.003**



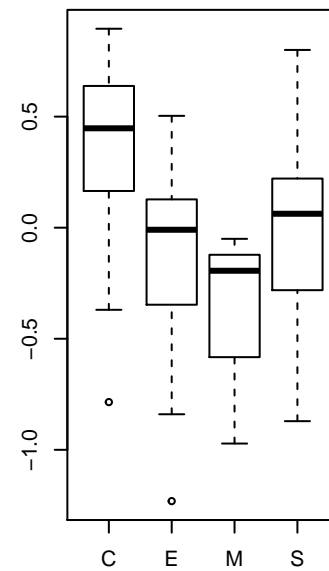
**CDC42 P= 0**



**DLC1 P= 0.047**

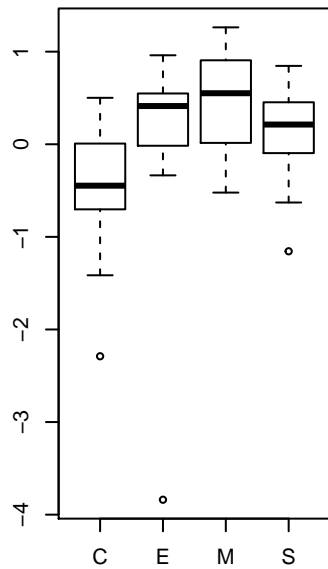


**GNA13 P= 0.006**

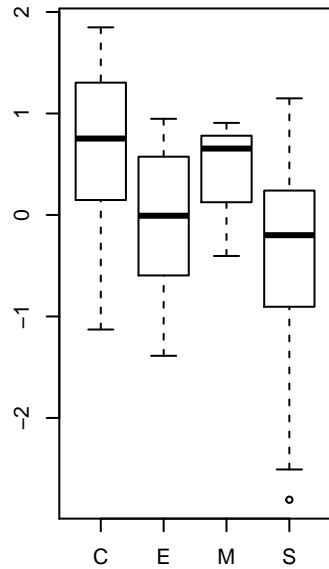


# Rho GTPase Cycle

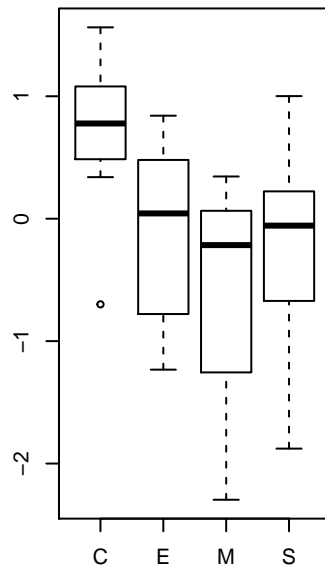
**NET1 P= 0.004**



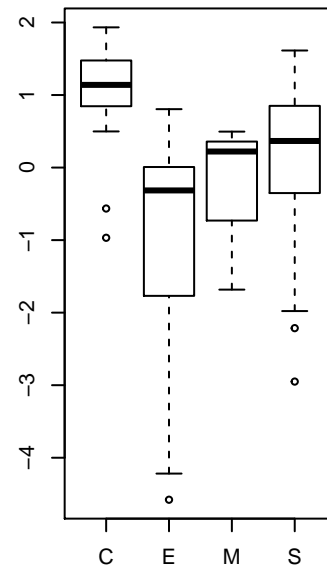
**OPHN1 P= 0.012**



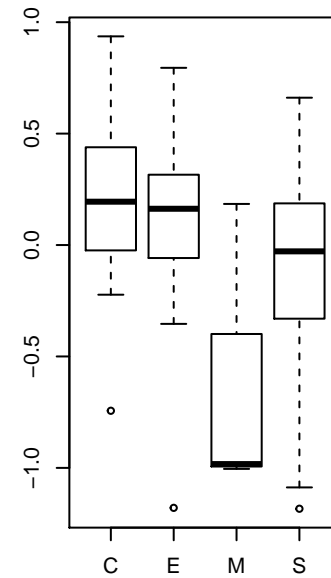
**RHOB P= 0**



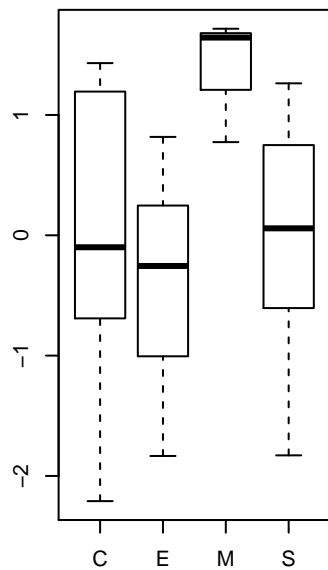
**RHOF P= 0**



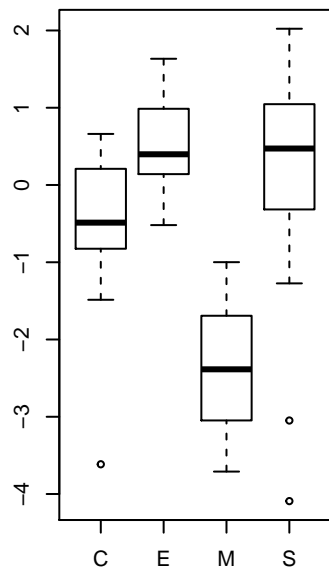
**RHOG P= 0.045**



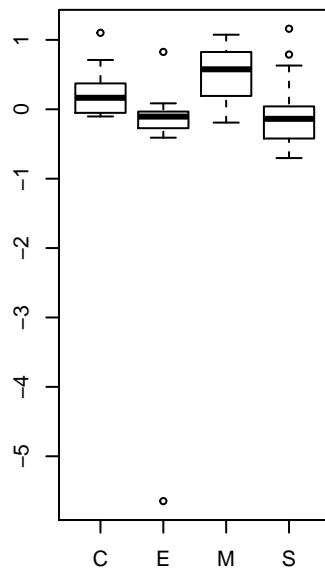
**RHOJ P= 0.026**



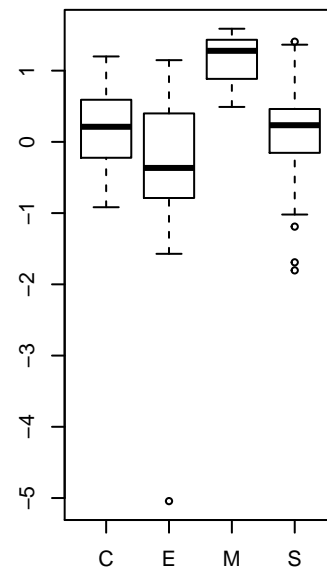
**SRGAP3 P= 0.001**



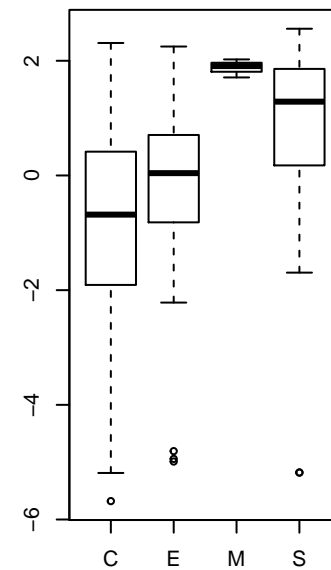
**STARD8 P= 0.004**



**SYDE1 P= 0.029**

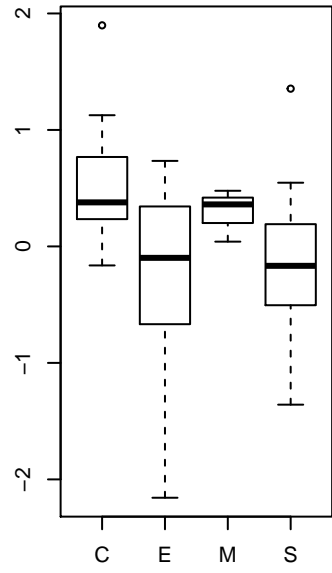


**TIAM2 P= 0.007**

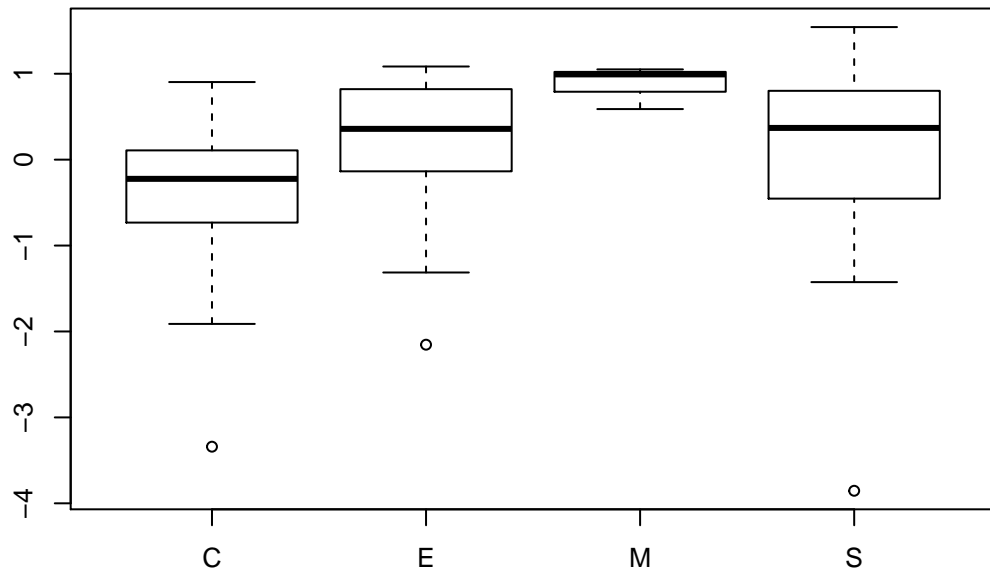


# Rho GTPase Cycle

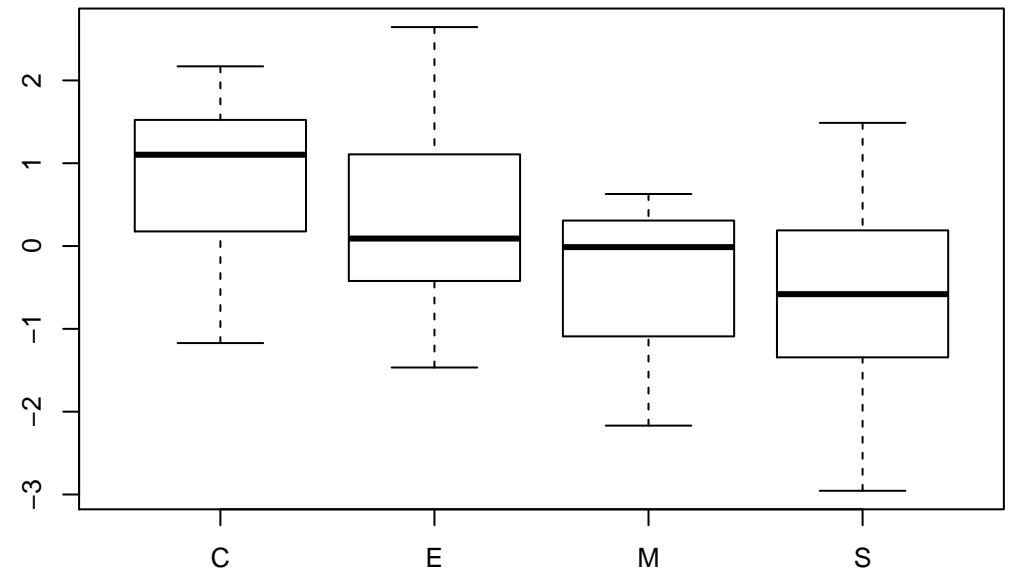
VAV2 P= 0.001



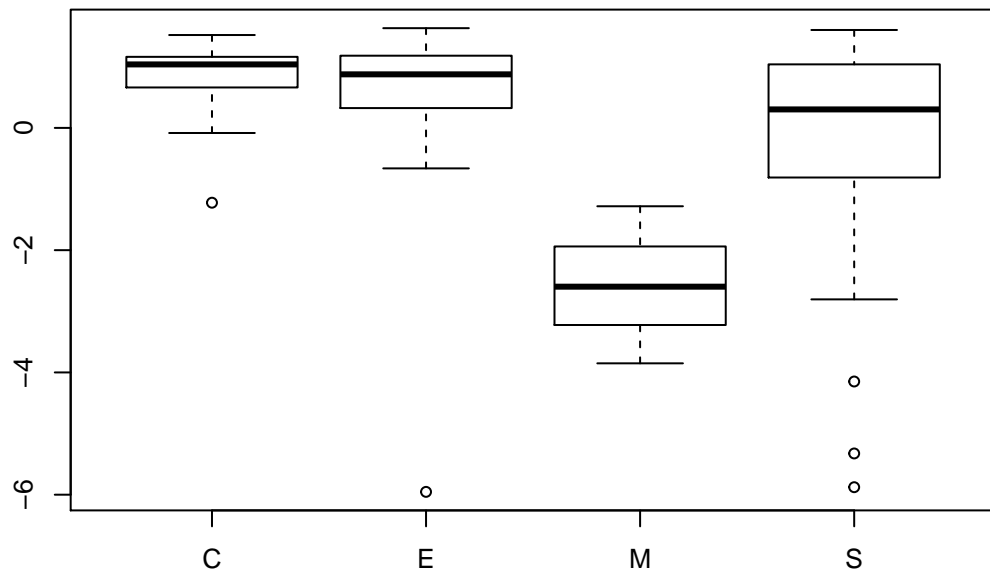
**EGFR P= 0.031**



**ERBB2 P= 0.006**



**TFAP2A P= 0.013**



**TFAP2C P= 0.001**

