**List of Supplementary files:**

**Supplementary files:**

Supplementary file S1 List of Gene Ontology (GO) terms excel file

Supplementary file S2 Lists of Venn diagram genes - CL 231; RPM 234; 113 common excel file

Supplementary file S3 Lists of 65 genes expressed in thymocytes significance estimated excel file

Supplementary file S4 List of primers used in RT-qPCR based profiling of DEGs excel file

**Supplementary Video:**

Supplementary Video S1 Clinostat (CL) MP4 File

Supplementary Video S2 Random positioning machine (RPM) MP4 File

Supplementary Video S3 Hydrodynamic stress inducing platform (HS) MP4 File