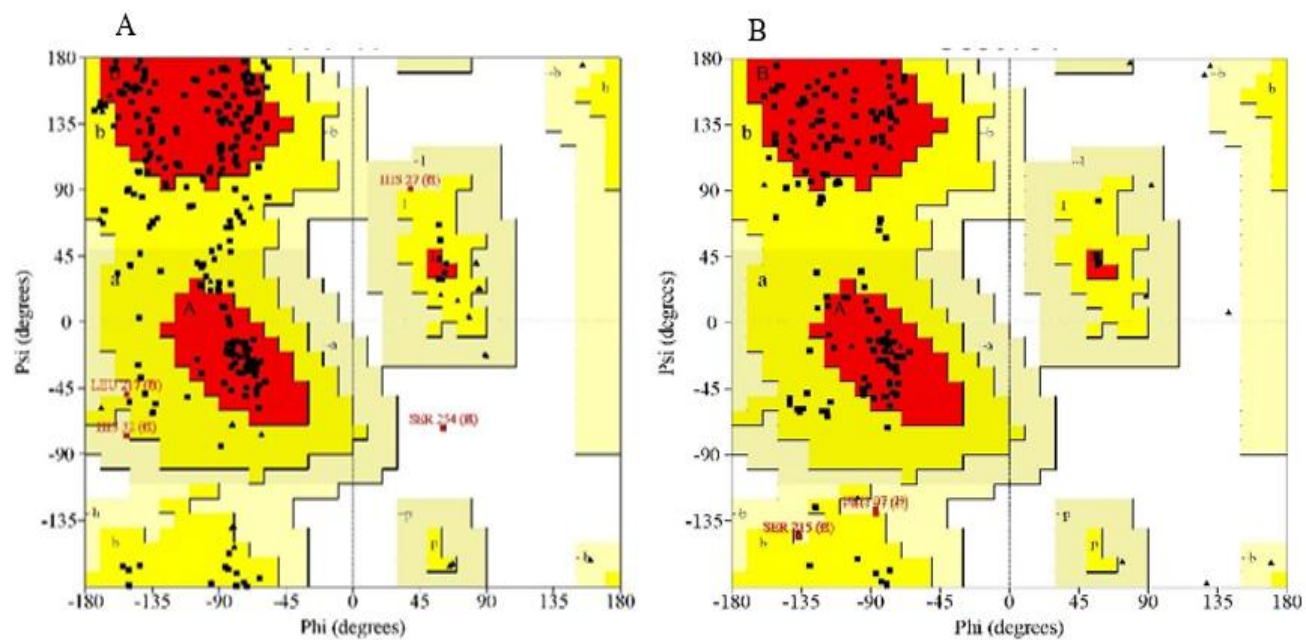
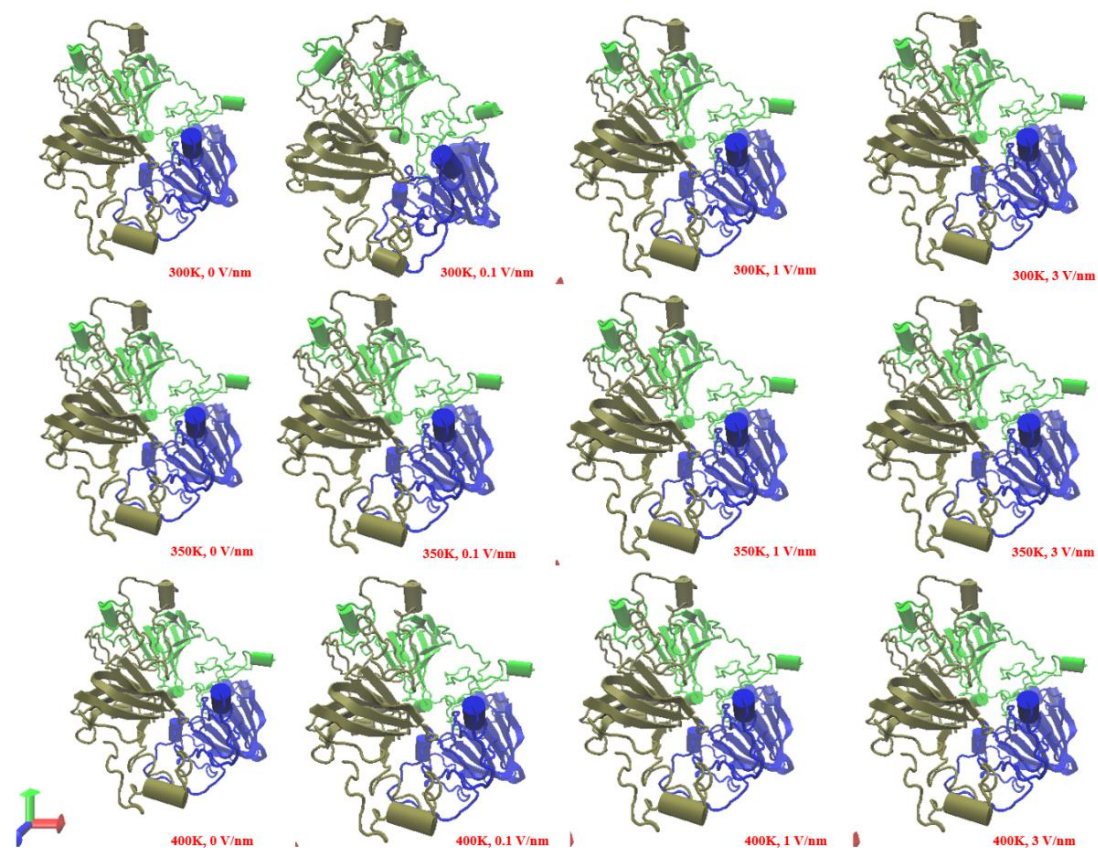


## Supplementary Materials



**Supplementary Figure 1.** Ramachandra plots of geometry minimized glutelin type-B 5-like protein models (A) model from Swiss-Model server (B) model from Robetta server.



**Supplementary Figure 2.** Snapshots of glutelin type-B 5-like protein molecule after 1 ns simulation under different simulation conditions. No major disruption to the secondary structure. No difference observed in the snapshot.