

Students' Annual Seminar

Effect of Protein-Stabilizing Osmolytes on Hydrophobic and Charge Interaction of a macromolecule

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Many organisms utilize small cosolutes as osmoprotectants to stabilize protein. Here, we will discuss, whether all the osmolytes (TMAO, glycine, betaine etc.) display a single unified mechanism towards hydrophobic interactions. We will also discuss the effect of charge interaction on folding equilibrium of a model polymer chain as a function of number of charged monomers and charge density. We will explain these phenomenon in terms of conformation dependent exclusion/binding of osmolytes from/to macromolecule.

Friday, Mar 1st 2019

12:15 PM (Tea/Coffee at 11:30 AM)

Seminar Hall, TIFR-H