Tata Institute of Fundamental Research
Survey No. 36/P, Gopanpally Village, Serilingampally, Ranga Reddy Dist., Hyderabad – 500 046

Internal Seminar

Proton-Catalysed Oligomerisation, non-Stokesian Diffusion, and the Slaving Effect of Glycerol on Protein Folding and Dynamics

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The utility of glycerol in the area of biophysical chemistry as a molecular crowder, cryo-protectant, viscogen in friction related studies, aggregation inhibitor and as a co-solvent to enhance the stability of protein raises some serious concerns with regard to the property of glycerol itself. The research work focuses on the perturbations in the structure and internal dynamics of the protein in the presence of aqueous glycerol. The physical properties of the binary mixture: water-glycerol are also investigated as a function of pH (since the protein is functionally active at certain pH condition) and concentration to understand the combined effect of these components on the structure of protein.

Friday, Jan 5th 2024

11:30 AM

Seminar Hall