

Students' Annual Seminar

Study of Ions and Cosolutes (ATP/Osmolyte) in Different Environments (Solution/Channel)

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Different cellular dysfunctions originate from poor biomacromolecular stability and solubility driven by several unfavourable cellular conditions influenced by toxic surrounding environment. To resuscitate cellular homeostasis, cell produces some potential small molecules (osmolytes, ATP) which comfort cell-lives and prevent biological instabilities. In this study the influence of ions and multiple cosolutes in biology are investigated with specific molecular details in solution as well as within channel environments. The current findings would provide new physico-chemical insights on biological systems via all-atom computer simulation combined with experiments.

Monday, Apr 3rd 2023

11:00 AM (Tea / Coffee 10.45 AM)

Seminar Hall, TIFR-H