
Seminar

Thermodynamics of aggregation of amyloid proteins

Kanchan Garai

TCIS, Hyderabad

Many proteins self-assemble to one-dimensional structures known as amyloid fibrils. However, thermodynamics of the equilibrium between the soluble and insoluble species in amyloid aggregation is still poorly understood. We have investigated the equilibrium between the fibrils and the protein monomers under different conditions to measure the changes in free energy, enthalpy and entropy. Our results suggest similarities between amyloid aggregation and the phase transition of conventional polymers however there are significant differences arising due to significant contributions from changes in the conformational free energy in the case of amyloid aggregation.

Wednesday, Jan 20th 2016

4:00 PM (Tea/Coffee at 3:45 PM)

Seminar Hall, TCIS