

Internal Seminar

Studies on the effects of surface functionalized carbon quantum dots towards hen egg white lysozyme amyloidogenesis

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Accumulation of unfolded and misfolded proteins undergo self-assemble and turn into fibrillary structures commonly referred to as amyloid fibrils. Amyloid formation is linked with the onset of neurodegenerative diseases including Alzheimer's disease, Parkinson's disease, Huntington disease, and others. Voluminous research is being carried out to find effective therapeutics for amyloidosis. In recent times, carbon quantum dots (CQDs) gained attention of active researchers due to unique properties and biocompatibility. The talk mainly focuses on revealing the effects of surface functionalized carbon quantum dots towards in vitro amyloid forming model protein Hen Egg White Lysozyme (HEWL) which is homologous to the human lysozyme implicated for human systemic lysozyme amyloidosis. The results shed light towards the potential candidature of surface functionalized CQDs as therapeutics against amyloidosis.

Thursday, Feb 22nd 2024

14:30 Hrs

Seminar Hall