

TIFR Centre for Interdisciplinary Sciences

21, Brundavan Colony, Narsingi, Hyderabad 500 075

Internal Seminar

Effects of Photocatalytic Nanoparticle Interfaces on Biological Membrane and Biomacromolecules

Manoranjan Arakha

National Institute of Technology, Rourkela

Inside the biological milieu, nanoparticles come in myriad shape and size those upon interaction with different biomolecules form nano-biomolecular complexes. The interface formed as a result of nanoparticle and biomolecular interactions determines fate of both the nanoparticle and biomolecule inside the biological milieu. Accordingly, investigating the interaction pattern at different interfaces will help in optimizing the use of nanoparticle for relatively wider biomedical applications. Hence, the study effects of different photocatalytic intends to explore the interfaces nanoparticle on biological membranes and biomacromolecules, like nucleic acid and protein. Thus, the experimental findings, altogether, suggested that the physicochemical properties of photocatalytic nanoparticle interfaces significantly affect the fate of biomembrane and biomacromolecules inside the biological milieu.

Friday, Dec 16th 2016

10:30 AM (Tea/Coffee at 10:15 AM)

Seminar Hall, TCIS