

MONDAY

COLLOQUIUM

Twisted by association: chirality in molecular assembly

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27 Jul 2026 (Monday) | 16:00 Hrs (Tea / Coffee 15:45 Hrs) | Venue: TIFRH Auditorium

From the spiral shells to the double helix of DNA, nature abounds with structures that distinguish left from right. Yet how such handedness emerges and propagates across length scales remains a fascinating question. In this talk, I will explore how molecules “socialize” through weak interactions to organize into larger chiral assemblies, how tiny imbalances can be amplified into strongly asymmetric structures, and how subtle changes in molecule-solvent interactions can shape assembly pathways. These studies reveal how complexity and function emerge from molecular cooperation, offering fresh insights into the design of optically active materials.