

## ( tiff Tata Institute of Fundamental Research

Survey No. 36/P, Gopanpally Village, Serilingampally, Ranga Reddy Dist., Hyderabad - 500 046

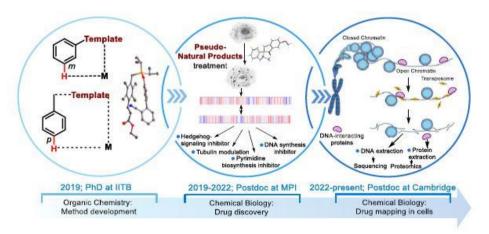
#### Seminar

# Molecular engineering: From directing group designing to drug mapping in genome

## Sukdev Bag

### University of Cambridge, UK

Achieving the medical promise of a new era in neurodegenerative research is a profound scientific goal with the potential to address major global health challenges. Drug discovery plays a key role in this effort and demands interdisciplinary expertise across chemistry and biology. My research spans contemporary organic chemistry to drug discovery, chemical biology, and genomics. During my Ph.D. with Prof. Debabrata Maiti (IIT Bombay), I developed novel nitrileand pyrimidine-based templates for remote C-H functionalisation, enabling selective para- and meta-activations. In my postdoctoral work with Prof. Herbert Waldmann (Max Planck Institute of Molecular Physiology, Dortmund), I designed and synthesised pseudo-natural products. identifying four new chemotypes through phenotypic Currently, working with screening. am Prof. Ι Balasubramanian (University of Cambridge) on mapping drug binding to chromatin in cells.



Tuesday, Aug 5<sup>th</sup> 2025 11:30 Hrs (Tea / Coffee 11:15 Hrs) Seminar Hall, TIFRH