Tata Institute of Fundamental Research
Survey No. 36/P, Gopanpally Village, Serilingampally, Ranga Reddy Dist., Hyderabad - 500107

Internal Webinar

Development of Tailor-made Fluorescent Bioprobes Through Green Synthetic Approach

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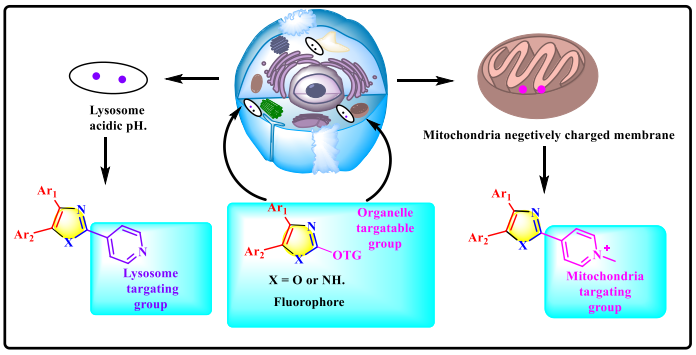
Sub-cellular organelles particularly, mitochondria and lysosome are extremely significant part of cells that maintains the basic requirements of life through different biochemical reactions and the corresponding information can be gathered by organelle targetable fluorescent probes. Due to non-invasiveness, excellent accuracy and bio-sensitivity, small molecule fluorescence bio-probes offers most potent area for biological sensing with diagnostic imaging ability that is extremely useful towards clinical diagnosis as well as therapeutic modalities. Thus, the development of fluorescent-bioprobes and technologies opens up a smart avenue towards scientific and social advancement/interest as well as public health related issues. Currently due to non-invasiveness, small organic molecules are preferred for cell staining over metal-based ligand and nanoparticles that can be readily synthesized from easily accessible starting materials via one-pot green synthetic approach and can be tuned accordingly.



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