



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

## Seminar

## Coumarin: A Versatile Scaffold for **Diverse Biological Applications** Sambashiya Banala HHMI, MD

Coumarin is a structurally simple scaffold widespread in nature, found in many plants and edible foods. Coumarins have attracted great attention in biological applications due to their three unique characteristics: 1) fluorescent, emit light in ultraviolet and blue; 2) photocleavable, routinely utilised to prepare caged compounds; 3) biologically active, many drugs and pharmaceuticals contain coumarin scaffold. These properties can be modulated as desired by introducing substitutions on the coumarin core. I have used coumarins for preparing useful caged compounds for neuroscience. fluorescent and better stains mitochondria and thoroughly investigated the underlying mechanisms. My findings from mechanism details offered new applications in biology and medicinal chemistry.

Tuesday, Sep 13th 2022 4:00 PM (Tea/Coffee at 3:45 PM) Auditorium, TIFR-H