

Students' Annual Seminar

Development of a fly model to probe the functions of inorganic polyphosphates (polyP) *in vivo*

Sunayana Sarkar

Inorganic polyphosphate (polyP), polymer of orthophosphate residues, is found in all living organisms. While the biological and molecular functions of polyP have been studied in prokaryotes and unicellular eukaryotes, it has often been referred to as a molecular fossil in metazoans. The major limitations in studying the function of polyP in metazoans is the elusiveness of the genes involved in polyP synthesis and turnover. My thesis work involves developing the *Drosophila* model to study the functions of polyP. In this talk, I will update on tool and technique development for detection, quantification, visualisation and manipulation of polyP in flies. I will also talk about how certain polyP functions are conserved across evolution and how that would help us in moving forward with this model.

Friday, Mar 31st 2023

2:00 PM (Tea / Coffee 1.45 PM)

Seminar Hall, TIFR-H