

# **Comprehensive Seminar**

## **Molecular Fossils and Ageing**

**SK Yasir Hosen**

**TIFR, Hyderabad**

Understanding ageing has immense scientific and socioeconomic importance, and even with state-of-art technologies, ageing research is at a bottleneck as the questions of origin and mechanisms of ageing still need to be understood. In our lab, we serendipitously stumbled upon the implications of polyphosphate, a polymer of orthophosphates  $[(\text{PO}_4)^{2-}]_n$ , in ageing. Polyphosphate exists in all life forms; however, due to their unknown function in multicellular organisms, they are often referred to as "molecular fossils". In my talk, I'll discuss how polyphosphate can play a role in ageing.

***Friday, June 2<sup>nd</sup> 2023***

***10:00 AM (Tea / Coffee 09.45 AM)***

***Auditorium, TIFR-H***