MONDAY

COLLOQUIUM

Tracing systems level molecular mechanisms that contribute to NCDs & Aging

Ullas S Kolthur (TIFR, Hyderabad)

18 May 2026 (Monday) | 16:00 Hrs (Tea / Coffee 15:45 Hrs) | Venue: TIFRH Auditorium

Accelerated aging and high prevalence of non-communicable diseases have emerged as a major cause for concern. While lifestyle and specifically dietary/metabolic inputs are known to drive these, molecular mechanisms that govern emergent properties of the system are far less understood. We are interested in unraveling molecular mechanisms that link metabolic or dietary inputs to cellular and organismal physiology with a specific emphasis on components that couple and regulate plasticity. Our research has provided a comprehensive systems level understanding of the pathways involved in metabolic-sensing and their role in metabolic and energy homeostasis at molecular, cellular and organismal levels with implications on aging, diabetes and obesity. I will also highlight efforts to address outstanding public health issues and implement deep-science-driven policy and programmatic interventions.

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