Tata Institute of Fundamental Research
Survey No. 36/P, Gopanpally Village, Serilingampally Mandal, Ranga Reddy Dist., Hyderabad – 500 046

Seminar

Regulation of mitochondrial homeostasis during development and disease

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Mitochondria are highly dynamic organelles that adapt their shape, number, and function to distinct cellular needs. However, how cells integrate distinct regulatory processes to achieve context-specific changes in mitochondrial states is poorly understood. In this talk, I will first discuss the mechanisms governing a complicated mitochondrial remodelling process during Drosophila spermatogenesis. Next, I will describe how cells increase mitochondrial biogenesis in response to mitochondrial stress. Finally, I will explore how these results could further our understanding of mechanisms regulating mitochondrial homeostasis during development and disease.

Thursday, Dec 4th 2025

09:30 Hrs (Tea / Coffee 09:15 Hrs)

Auditorium, TIFRH