



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

Seminar

Regulation of mitochondrial homeostasis during development and disease

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Dynamic changes in mitochondrial morphology, content, and function are crucial for several developmental processes as well as stress adaptation. However, how cells integrate distinct regulatory processes to achieve contextspecific changes in mitochondrial states is understood. In this work, I will discuss the alteration of mitochondrial states in two distinct contexts with insights into the possible causes and consequences of these first part, I will the alterations. In discuss mitochondrial fission and fusion are coordinated during Drosophila spermatogenesis to achieve the division of the large post-meiotic spermatid mitochondria called the Nebenkern. In the second part, I will describe how cells mitochondrial biogenesis when faced increase mitochondrial stress. Finally, I will give a glimpse into how these results could further our understanding of the regulation of mitochondrial homeostasis.

Monday, Jul 15th 2024 14:30 Hrs (Tea / Coffee 14:15 Hrs) Auditorium, TIFR-H