

Internal Seminar

Neuronal Health and Mitochondrial Biogenesis

Neha Singhal

CCMB, Hyderabad

Mitochondria play crucial roles in the cellular bioenergetics and are essential for neuronal survival. Hence, the maintenance of mitochondrial homeostasis through the balance of mitochondrial turnover, fission and fusion, and generation of new mitochondria via mitochondrial biogenesis is a critical cellular process. As a result of which, mitochondrial dysfunction is linked to aging and neurological disorders in humans. However, identification of various factors involved in mitochondrial biogenesis has been difficult, due to the complexity of mitochondrial dynamics. The physiological and molecular parallels between fly and human organs validate the use of *Drosophila* to study various neuronal human diseases and design therapies.

Monday, Aug 28th 2017

04:00 PM (Tea/Coffee at 03:45 PM)

Auditorium, TIFR (FReT-B)