

Students' Annual Seminar

Studying the role of an E3 ligase, SkpA, during developmental autophagy in *Drosophila*

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Autophagy is an intracellular recycling process that helps maintain homeostasis by removal of damaged proteins and organelles. Looking beyond its role in homeostasis has shown an important role for autophagy during development, but the physiological cues regulating this process are not well understood. *Drosophila* larval fat body provides a model system to study two types of autophagy - developmentally induced and starvation induced. During larval to pupal transition, most of the larval tissue undergoes apoptosis and autophagy mediated clearance to be later replaced by the adult tissues. This is known as developmental autophagy and is initiated by release of the ecdysone hormone. In my talk I will be covering work done on understanding the role of SkpA, an E3 ligase protein, in controlling autophagy in larval fat body at different developmental stages and its implication in regulating *Drosophila* metamorphosis.

Friday, June 2nd 2023

2:00 PM (Tea / Coffee 1.45 PM)

Seminar Hall, TIFR-H