

Seminar

Regulation of Inter-organ signaling: insights from DMon1

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Insulin signaling is a highly conserved signalling pathway with key roles in regulating nutrient intake, metabolism and thereby growth. *Drosophila* has been used as model system to understand the molecular underpinnings regulating insulin production and systemic inter-organ signalling. The female reproductive system in *Drosophila* is acutely sensitive to nutrition and the transition of pre-vitellogenic egg chambers to the mature vitellogenic state is controlled by insulin signalling. This can therefore be used as a model to understand the mechanisms regulating systemic signalling during development and, in response to altered nutritional status.

Mon1 is a conserved endocytic protein involved in the recruitment of Rab7- a step required for the transition of an early endosome to a late endosome. We have identified Mon1 as one of the key players in the neuronal circuitry that controls insulin production to regulate gonad maturation. In my talk I will discuss some of our recent findings in this context.

Thursday, Aug 29th 2019

11:30 AM (Tea/Coffee at 11:00 AM)

Auditorium, TIFR-H