

Seminar

How cells calibrate motor activity during cell wall morphogenesis

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Construction of the plant cell wall demands harmonized deposition of cell wall construction materials like cellulose and matrix polysaccharides. My research shows that vesicles containing matrix polysaccharides are transported by a kinesin-4 motor into a growing cell wall. Interestingly, plant cells also regulate the abundance of the kinesin-4 motors by a unique mechanism in order to ensure high rate of vesicle secretion required for rapid cellular expansion. Altogether, my research shows how an intricate network of multiple proteins delicately controls plant cell wall morphogenesis.

Thursday, Jan 9th 2020

4:00 PM (Tea/Coffee at 3:30 PM)

Seminar Hall, TIFR-H