



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

Seminar

Cell Adhesion and Cell Organelles: Old **Dogs learning New Tricks**

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Integrin-mediated adhesion regulates membrane trafficking to control anchorage-dependent signalling and growth that is deregulated in anchorage independent cancers. Cell organelles like the Golgi and mitochondria are vital regulators of cellular function. Loss of adhesion triggers a rapid and reversible disorganisation of the Golgi. The differential activation of Arf1 by Arf GEF, GBF1, causes the differential recruitment of microtubule motor protein to regulate the same. This further affects acetylation microtubule and cell glycosylation. Using non-adherent cells as a tool we further define how the kinetics of Arf1 inactivation is vital to the regulation of Golgi organisation and function. My talk will discuss these studies, what they have told us about how the Golgi is regulated by adhesion and its implications in anchorage-independent cancers.

Friday, Sep 29th 2023 4:00 PM (Tea / Coffee 03.45 PM) Auditorium, TIFR-H