



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

Seminar

Grand world of small RNAs: Navigating the balance between translation and small RNA biogenesis

Meetali Singh Institut Pasteur, Paris

elegans germline, mRNAs thousands In C. of are concomitantly expressed with antisense small RNAs, which are loaded by an essential germline Argonaute CSR-1. Despite their essential functions for animal fertility and embryonic development, how CSR-1 associated small RNAs are produced remains unknown. I will talk about the function of CSR-1 pathway in germline and embryo development, while mainly focusing on the biogenesis of CSR-1 associated small RNAs. I will highlight how the interplay of argonaute slicer activity and translation efficiency of target mRNAs dictate the activity of an RNA-dependent RNA polymerase synthesise to CSR-1associated small RNAs.

I will also talk about my new ventures into the field of infection biology and role of small RNAs in host-pathogen interaction by highlighting our findings on a SARS-CoV-2 derived microRNA which hijacks host RNAi machinery to suppress the activation of host interferon stimulated genes to evade immune response.

Thursday, Mar 30th 2023 4:00 PM (Tea / Coffee 3.45 PM) Auditorium, TIFR-H