



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

Students' Annual Seminar

Towards unravelling the functional role of the N-term domain of PfRIPR, an essential protein for malaria infection

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Malaria is still the major health threat as the concerning parasite *P. falciparum* has developed resistance artemisinin, the commonly used antimalarial. To develop new effective drugs and vaccines, understanding the underlying protein-protein interactions responsible for the red blood cell invasion process is crucial. One such interaction involves the PfRh5 interacting protein (PfRIPR), which forms a pentameric complex to facilitate erythrocyte invasion. This complex has been poorly understood, and previous cryo-EM studies have revealed only that the small N-terminal domain (NTD) of PfRIPR interacts with PfCyRPA, another protein in the pentameric address this knowledge complex. To gap, are chemically synthesising the N-terminal domain (NTD) of PfRIPR with the aim of obtaining its three-dimensional structure, which will finally enable us to decipher the binding mode of the pentameric complex.

Friday, Apr 28th 2023 11:00 AM

CR-4, TIFR-H