

Students' Annual Seminar

Deciphering the functional role of *PfRALP1*, an indispensable parasite protein

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One of the key processes in malaria pathobiology is the human red blood cell invasion by *Plasmodium falciparum* merozoites. This process involves many essential yet underexplored proteins. *Plasmodium falciparum* rhoptry associated leucine zipper-like protein 1 (*PfRALP1*) is one of such poorly understood proteins which resides at merozoite surface and plays an essential role during invasion. Properties such as being indispensable for parasite survival, involves in protein-protein interaction, immunogenic in nature and conserved to only *Plasmodium* species makes this protein a good vaccine candidate. In this endeavour, to decipher the functional role of this protein, we have undertaken recombination expression, purification and characterisation of *PfRALP1*. Some of our recent findings on the functional region/domain of *PfRALP1* will be discussed.

Friday, Apr 28th 2023

2:00 PM (Tea / Coffee 01.45 PM)

Seminar Hall, TIFR-H