

Seminar

Deciphering the minimal functional domain of *PfRALP1*, an indispensable malaria parasite protein

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Human erythrocyte invasion by *Plasmodium falciparum* merozoites is a complex process driven by essential protein-protein interactions (PPIs) contributing to disease progression. *Plasmodium falciparum* rhoptry-associated leucine zipper-like protein 1 (*PfRALP1*) has emerged as one of the essential proteins in the invasion process. Despite its importance, comprehensive studies on *PfRALP1* remain limited. My research will focus on the comprehensive understanding of *PfRALP1* and its functional significance in merozoite invasion. Overall, I will talk about the identification of the minimal functional domain of *PfRALP1* that mimics the function during invasion. This study will lay the foundation for designing drugs or inhibitors to target *PfRALP1*, thus effectively preventing merozoite invasion.

Thursday, Mar 13th 2025

14:30 Hrs (Tea / Coffee 14:15 Hrs)

Auditorium, TIFRH