

Seminar

Deciphering the minimal functional domain of *Pf*RALP1, an indispensable malaria parasite protein

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Successful invasion of human erythrocytes by *Plasmodium falciparum* merozoites relies on essential protein-protein interactions (PPIs). Among these, *Plasmodium falciparum* rhoptry associated leucine zipper-like protein 1 (*Pf*RALP1) has emerged as a crucial protein in the invasion process. However, comprehensive studies on *Pf*RALP1 are still limited. My thesis aims to achieve a deeper understanding of *Pf*RALP1 and its functional significance during merozoite invasion. In this endeavour, I have identified the minimal functional domain of *Pf*RALP1 that mimics its role in the invasion process. The findings of my research will serve as a foundation for developing drugs or inhibitors that target *Pf*RALP1, thereby effectively preventing merozoite invasion.

Wednesday, Jul 9th 2025 14:30 Hrs (Tea / Coffee 14:15 Hrs) Auditorium, TIFRH