

## **Seminar**

### **Deciphering the minimal functional domain of *Pf*RALP1, 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 (*Pf*RALP1) has emerged as one of the essential proteins in the invasion process. Despite its importance, comprehensive studies on *Pf*RALP1 remain limited. My research will focus on the comprehensive understanding of *Pf*RALP1 and its functional significance in merozoite invasion. Overall, I will talk about the identification of the minimal functional domain of *Pf*RALP1 that mimics the function during invasion. This study will lay the foundation for designing drugs or inhibitors to target *Pf*RALP1, thus effectively preventing merozoite invasion.

**Thursday, Mar 13<sup>th</sup> 2025**

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

**Auditorium, TIFRH**