

## **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 remains as the major health threat after the significant failure of the existing antimalarial drugs against the *P. falciparum* parasites in recent times. As there is an urgent need for developing new therapeutics to prevent the spread of this disease, the detailed understanding of key protein-protein interactions is necessary. Evidently, the PfPCRCR complex interacts with the basigin receptor present on the surface of the red blood cells. Within this complex, a small N-terminal domain of PfRIPR is reported to interact with PfCyRPA, facilitating the formation of the pentameric complex - a prerequisite for a successful invasion process. We are synthesising the N-terminal domain chemically to understand its therapeutic potential against the growth of malaria parasite.

***Thursday, Feb 15<sup>th</sup> 2024***

***14:00 Hrs (Tea / Coffee 13:45 Hrs)***

***Seminar Hall, TIFR-H***