

Internal Webinar

Structural and Metabolomics Analysis of Bacteriophage Endolysins and Their Impact on Host Bacteria

K Manikyaprabhu

IIT, Roorkee

Understanding the structure-stability-activity characteristics of endolysin helps in designing phage endolysins as broadband antimicrobial agents. My doctoral research primarily focused on the global metabolomics profiling of host *E. coli* upon overexpression of two endolysins (T4L and T7L) and two T7 endolysin variants (H37A and H48K). Further, the catalytic and structural stability characteristics of the T7L holoenzyme with zinc as a cofactor were elucidated compared to the apoenzyme.

Monday, Aug 26th 2024

14:30 Hrs

