

The University of Queensland and IIT Delhi Research Academy

KNOWLEDGE NEXUS SEMINAR SERIES

Dr. Parul Pandey

Postdoctoral Associate
Jacobs School of Medicine and Biomedical Sciences
University of Buffalo, New York, United States



DRBD18 acts as a transcript-specific RNA editing auxiliary factor in *Trypanosoma brucei*

ABSTRACT

This talk will explore the mechanisms of uridine insertion/deletion RNA editing in *Trypanosoma brucei*, focusing on how RNA-binding proteins like DRBD18 influence mRNA stability and editing through interactions with editing complexes. The study highlights the transcript-specific role of DRBD18 and its regulation by arginine methylation, offering insights into post-transcriptional gene regulation in pathogens.

ABOUT THE SPEAKER

Dr. Parul Pandey is a molecular microbiologist with a focus on RNA biology, parasitic physiology, and functional genomics. As a Postdoctoral Associate at the Jacobs School of Medicine, SUNY Buffalo, her research targets RNA processing and regulation in *Trypanosoma brucei*, through RNA-binding proteins.

Dr. Pandey possesses skills in genome editing, protein purification, RNA-protein interactions, and high-resolution microscopy, as her research combines molecular biology and bioinformatics to decipher RNA regulatory networks in pathogens.

LINK TO JOIN ONLINE : <https://t.ly/R0KTg>



THURSDAY, 23 JANUARY, 2025
10:30 A.M. IST/3:00P.M. AEST
Venue: Microsoft teams