REGIONAL CENTRE FOR BIOTECHNOLOGY
Seminar series

Title: Nod-Like Receptors in Pathogen Recognition and Host Defense

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3:00 PM
Seminar Room

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Abstract

Innate immune system relies on cytosolic Nod-like receptors (NLRs) to offer protection against microbial invasion by activating NF-κB and inflammasome signaling. Additionally, extracellular recognition of pathogens by Toll-like receptors (TLRs) promotes these functions by triggering robust pro-inflammatory responses. Yet, how these distinct innate pathways cross-talk to maintain immune homeostasis is not completely understood. Furthermore, which innate immune mechanisms eventually facilitate pathogen degradation downstream of NLRs is still unclear. Data from our recent studies highlighting the significance of NLRs in innate immunity, immune homeostasis and pathogen elimination.