

Department of Biotechnology Ministry of Science and Technology Government of India

**DBT** 



**AIST** 

## DBT -AIST International Laboratory for Advanced Biomedicine



Classroom for Advanced & Frontier Education





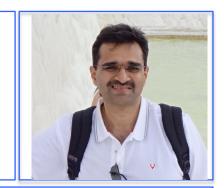
## Series -

Date and Time: **JULY.12**, **2019** (3:30 **JST**) Venue: Central 5-41 2F (Meeting Room -1)

Speaker: Raghunand Tirumalai

Affiliation: CSIR-Centre for Cellular and Molecular Biology, Hyderabad, India

E-mail: raghu@ccmb.res.in



## Title: Dissecting the Physiology and Pathogenic Mechanisms of *Mycobacterium tuberculosis*

The extraordinary success of *Mycobacterium tuberculosis* (*M.tb*), the etiologic agent of human tuberculosis (TB), has been attributed to its ability to modulate host immune responses. The identification and characterisation of bacillary factors involved in evasion, and their interplay with host defence components during infection is therefore vital to understanding the pathogenic mechanisms of *M.tb*. We believe that understanding the basic biology of the pathogen and its interactions with the host is the best way forward towards the development of improved anti-TB therapeutic approaches. Research in our laboratory is focussed towards identification of bacillary virulence factors, identifying novel antibiotic resistance mechanisms and characterising the events at the host-pathogen interface.