



Department of Biotechnology
Ministry of Science and Technology
Government of India

DBT



National Institute of
Advanced Industrial Science
and Technology

AIST

DBT - AIST International Laboratory for Advanced Biomedicine


DAILAB

Classroom for Advanced & Frontier Education
CAFE

DAILAB-CAFE

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.