

Training course on “BSL3 practices, genetic manipulation and drug discovery protocols for TB research”

Last date - 27th March, 2023

E-CERTIFICATES PROVIDED

STUDY MATERIAL PROVIDED



ONLINE MODE
28th March – 1st April, 2023
Registration required

REGISTRATION FEES
Rs. 1000 - STUDENTS
Rs. 1500 - FACULTY
Rs. 2000 - CORPORATE

The program will be conducted for various Government and private institutions for skill development and generating quality manpower for working in containment facilities and for using pathogenic *M. tuberculosis*.

The training program will include:-

Online session on the first day of the program will focus on ‘BSL3 Facilities: Design, biosafety levels, risk assessment and beyond’

Daily sessions will be conducted by video demonstration of the following experiments related to Mycobacterial research along with live session discussions:-

- Culturing of *M. tuberculosis* both in liquid as well as solid media
- Genomic DNA and RNA isolation from *M. tuberculosis* culture
- Electroporation and generation of *M. tuberculosis* deletion knockout mutant strain by recombinering method.
- Inhibitor screening against *M. tuberculosis* by microtitre plate based assay.
- Drug susceptibility evaluation of *M.tuberculosis*.
- Macrophage infection and screening of inhibitors against intracellular *M.tb* growth inside macrophages.
- Cytotoxicity of small molecules in mammalian cells.

About the facility:-

The UDSC-BSL-3 facility is providing state-of-the-art biosafety containment laboratory to various TB investigators across the country for their research activities. Apart from promoting high quality TB research in the country, one of the main objectives of the facility is to provide hands on training to students and researchers working in the area of tuberculosis research.



Organizers-
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