

Training course on BSL3 practices and advanced TB research protocols

ONLINE MODE

20th – 26th September, 2022

Registration required

REGISTRATION FEES

Rs. 1000 - STUDENTS

Rs. 1500 - FACULTY

Rs. 2000 - CORPORATE

Last date -
19th September
2022

E-CERTIFICATES
PROVIDED

STUDY
MATERIAL
PROVIDED



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

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.

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
- 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.
- Electroporation and generation of *M.tb* deletion knockout mutant strain by recombineering method.
- RNA isolation from *M. tuberculosis* culture
- Aerosol infection of animals, administration of drugs (oral gavage) and vaccine candidates, tissue homogenisation



Organizers-

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