

Advanced training course on TB research in BSL3 and protocols

APPLY BEFORE
25th October, 2021

E-CERTIFICATES PROVIDED

STUDY MATERIAL PROVIDED



ONLINE MODE

26th October – 1st November, 2021
Registration required

REGISTRATION FEES

Rs. 1500 – FACULTY/CORPORATE
Rs. 1000 – STUDENTS

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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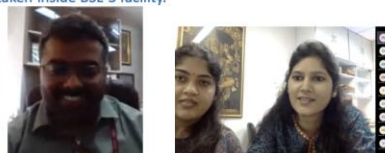
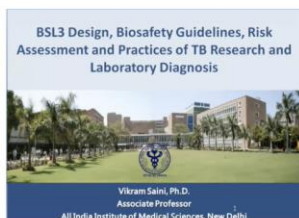
Website: <https://tb-bsl3facilityudsc.com/>



Day 1 of the Online training Programme



Prof. Javed Agrewala highlighted about the importance of PPE while working in biosafety laboratories. He very nicely explained about the biorisk factors and precautions to be taken inside BSL-3 facility.



Dr. Vikram Saini explained us the importance of crucial parameters like negative pressure, air flow systems which govern proper functioning of containment facilities.