



Supported by:

APSI



Training on

“Molecular approaches towards Pathogen & AMR Detection in Wastewater”

29th July- 3rd August 2024

The CSIR-Center for Cellular and Molecular Biology in conjunction with the Alliance for Pathogen Surveillance Innovations (APSI) India, supported by the Rockefeller Foundation is conducting a hands-on training on " **Molecular approaches towards Pathogen & AMR Detection in Wastewater**". The training is open to faculty members/researchers from universities/institutes/industries/hospitals and interested individuals in the field of Life Sciences, Medical Sciences, Pharmaceutical Science, & allied areas. It caters to individuals with varying levels of expertise, offering education and training in molecular approaches utilized for pathogen & AMR detection in wastewater samples. The program includes informative lectures, practical hands-on training, demo-sessions, and in-depth instructions on data collection and analyses.

No. of seat	:	10-12
Minimum Qualification	:	Masters in any branch of Life Science/Allied areas
Dates	:	29 th July- 3 rd August 2024
Mode of the Course	:	In-house training at CCMB
Mode of selection	:	Application form & Statement of Purpose
Course Fee	:	Sponsored

TrainingCurriculum:

- Relevance/Importance of Wastewater-based surveillance, especially molecular approaches
- Sample collection, processing for nucleic acid extraction (hands-on)
- Pathogen detection & quantitation through qPCR (or qRT-PCR) (hands-on) & variant analysis (hands-on)
- Taxonomic & AMR profiling through NGS (Shotgun- WholeGenome Sequencing)
 - (i) Library preparation for shotgun-WGS (demo/lecture-based)
 - (ii) Bioinformatic analyses for taxonomic profiling & AMR signatures (hands-on)

SalientFeaturesof the Training:

- Expert instructorswillprovidelectures andhands-on training
- Certificate ofparticipation willbeissuedto theparticipants
- Exposuretolaboratorysafetyregulations
- One-to-one interaction with the trainers
- Evaluation assignments and Trouble-shooting sessions

Training Coordinator: Dr. Archana Bharadwaj Siva
Senior Principal Scientist
CSIR-CCMB, Hyderabad

Contact: **Dr. Archana Bharadwaj Siva**
Nodal Scientist
Skill Development Program
CSIR-CCMB, Hyderabad
E mail: sdp@ccmb.res.in