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"Molecular diagnostic approaches for pathogens & AMR Surveillance"

We invite microbiologists, health technicians and Ph.D. students to apply for the 3-days hands-on skill enhancement workshop.

Raspuri, NCBS-TIFR
GKVK Campus,
Bangalore-560065



September 16-18, 2024
9am-7pm



Register Now

<https://bit.ly/MolDiagnostics>



**last date to apply
Sept 4, 2024*



"Molecular approaches for Pathogens & AMR Surveillance"

A hands-on training for capacity building

The National Centre for Biological Sciences (NCBS) with Tata Institute for Genetics and Society (TIGS) invites applications for a 3-days hands-on training "**Molecular diagnostic approaches for Pathogens & AMR Surveillance**" targeted to healthcare technicians/microbiologists and interested individuals in the field of Life Sciences, Medical Sciences, Pharmaceutical Science, & allied areas. This training caters to individuals with varying levels of expertise, offering education and training in molecular approaches utilizing wastewater-based epidemiology (WBE) and clinical samples for pathogen & AMR detection in different biological samples. The program includes informative lectures, practical hands-on training for skill enhancement, demo-sessions, and in-depth instructions on data collection and analyses.

No. of seats	: 15 (10 for microbiologists/ health technicians + 5 Ph.D. students across Bangalore)
Minimum Qualification	: Masters in any branch of Life Science/Allied areas
Dates	: September 16-18, 2024
Mode of the Course	: In-house training at NCBS & TIGS
Mode of selection	: Application form & Statement of Purpose

Training Curriculum:

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

Salient Features of the Training:

- Expert instructors will provide lectures and hands-on training
- Exposure to laboratory safety regulations
- One-to-one interaction with the trainers
- Evaluation assignments and Trouble-shooting sessions
- Interactive and engaging team-building activities
- Certificate of participation will be issued to the participants

Mentors

Dr. Shivranjani C Moharir
Senior Scientist, TIGS,
Bangalore

Dr. Mansi Mallik
Scientist, TIGS, Bangalore

Dr. Farah Ishtiaq
Principal Scientist, TIGS,
Bangalore

Dr. Awadhesh Pandit
NGS, Facility In-charge
NCBS, Bangalore

Send application and statement of purpose to
sufias@ncbs.res.in

Dr. Sufia Sadaf

Program Manager, Outreach & Science Communication
The Rockefeller Foundation-APSI
National Centre for Biological Sciences (NCBS-TIFR)
GKVK Campus, Bengaluru- 560065, India

**The course fee, accommodation and food charges are sponsored by RF-APSI*