



Training on

“Genetic & Microbial Monitoring of Animals”

26th - 31st August 2024



CSIR-Center for Cellular and Molecular Biology is conducting a hands-on training on ‘Genetic & Microbial Monitoring of Animals’ targeted to faculty members/researchers from universities/institutes/industries and interested individuals in the field of Life Sciences, Medical Sciences, Pharmaceutical Science & allied areas. It is intended to train people in monitoring and maintaining lab animals used for various experiments. The training would involve hands-on experimentations and lectures on tissue collection, DNA isolation, genotyping, biochemical analyzers, microbial contamination detection and preventions.

No. of seats	:	10-15
Minimum Qualification	:	Masters in any branch of Life Science/Allied areas
Dates	:	26 th - 31 st August 2024.
Mode of the Course	:	In-house training at CCMB
Mode of selection	:	Application form & Statement of Purpose
Course Fee	:	Rs.18, 000/- (Including accommodation & GST)

Training Curriculum: Curriculum includes lectures and hands-on sessions on:

- Quality control, both genetic & microbial to maintain genetically homozygous & germ free animals
- Immuno-genetic, biochemical and PCR based testing methods
- Disease screening of lab animals, sample collection & processing techniques for molecular & microbiological monitoring
- Things to sort out during standardization

Hands-on:

- Genomic DNA isolation from tail samples
- Genotyping of tail samples by Standard and quantitative PCRs
- Preparation and observation of agar plates for microbial cultures from different platforms
- Microbial assessment by different staining procedure and ABST
- Biochemical testing by hematology and immunological testing by ELISA
- Fecal examination for endo-parasites and skin scrapping for ecto-parasites

Demos:

- Demonstration on homozygosity of different strains of mice by different genetic and microsatellite markers
- Primer sequence selection and synthesis
- Skin and hair scrapping to identify the presence of ecto-parasites
- Biochemical testing of blood samples - hematology
- Disease screening by immunological method - ELISA
- Basic histopathological techniques involved in health monitoring program

Salient Features of the Training:

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

Contact details:

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