

Short term course
on
Basic Techniques in Animal Cell Culture
2nd to 6th September 2024



CSIR-Center for Cellular and Molecular Biology shall conduct a 5-days long hands-on- training workshop on 'Basic Techniques in Animal Cell Culture' targeted to faculty/ researchers from Universities/ institutes as well as people working in the industry in the field of Life Sciences, Medical Sciences, Pharmaceutical Science & allied areas. This introductory workshop is intended for beginners to teach and train them in animal cell culture using the human/cancer cell lines for various experiments. It will be supported by lectures on basic cell culture techniques, media preparation, gene/protein expression, and cancer cells.

Duration	:	05 days
No. of seats	:	06
Target Audience	:	Faculty/ Researcher from Academia/Industries/ Institutes
Minimum Qualification	:	Masters in any branch of Life Science/Allied areas
Dates	:	2 nd - to 6 th - September 2024
Mode of the Course	:	In-house training at CCMB
Mode of selection	:	Application form & Statement of Purpose
Course Fee	:	Rs.18000/- plus GST

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

- Overview of cell culture laboratory, equipment, and applications
- Description of tissue culture area design & required equipment
- Importance of sterility
- Do's & don'ts in a Tissue culture lab

Hands-on:

- Aseptic techniques and good cell culture practice (GCCP)
- Animal cell culture techniques, passaging and maintenance of cell lines
- Preparation of medium and sterility testing
- Cryopreservation (freezing and thawing of cell lines)
- Sub culturing, determination of confluency, cell counting, and viability testing

Demos:

- Demonstration of different cell types and culture procedures.
- Transfection electroporation of cells.
- Cell fusion techniques and collection of feeder cells (macrophages).
- Demonstration of protein expression by transfection through immunofluorescence.
- Mycoplasma testing, MTT Assay.

Salient Features of the Training:

- Skilled resource persons will provide lectures and laboratory training
- Certificate of participation will be issued to the participants
- Exposure to laboratory safety regulations

Contact:

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