



CSIR- CCMB

## Short term course

on

## Basic Techniques in Animal Cell Culture

21-25 March 2022

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.

<b>Duration</b>	:	05 days
<b>No. of seats</b>	:	06
<b>Target Audience</b>	:	Faculty/ Researcher from Academia/Industries/ Institutes
<b>Minimum Qualification</b>	:	Masters in any branch of Life Science/Allied areas
<b>Dates</b>	:	21 -25 March 2022
<b>Mode of the Course</b>	:	In-house training at CCMB
<b>Mode of selection</b>	:	Application form & Statement of Purpose
<b>Course Fee</b>	:	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)
- Subculturing, determination of confluency, cell counting, and viability testing

**Demos:**

- Demonstration of different cell types and culture procedures.
- Transfection or 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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