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Objective of the Workshop

Cell-lines have revolutionized scientific research in the field of Cellular and Molecular Biology. There have been significant contributions to research using cell lines as model systems in various areas like vaccine production, drug discovery, cytotoxicity, antibody production, study of gene function, generation of artificial tissues (e.g., artificial skin) and synthesis of biological compounds e.g., therapeutic proteins. The workshop will provide an opportunity to the participants to learn the skill of setting up cell-culture experiments. They will be exposed to various techniques associated with different cell lines, testing of drugs and microscopic analysis.

Registration Details

No. of participants	30
Registration fee	Rs. 1500/-

Bank Details:

Name of Bank: State Bank of India
Branch: Lucknow University
In favour of: ONGC Centre of Advanced Studies (OCAS)
A/C Number: 40478014885
IFSC: SBIN0014906

You can register using the link given below:

<https://docs.google.com/forms/d/e/1FAIpQLSfqYI7nr2HMAL79rlwJP66erHkXavFaPEXsJaApClXOlb-XQ/viewform?vc=0&c=0&w=1&flr=0>

Hands-on Workshop
Cell Culture Techniques and Cytotoxic Analysis
Institute of Food Processing & Technology (IFPT)
ONGC Centre of Advance Studies
November 15-17, 2021

Resource Persons

Keynote Speaker:

Dr. S. K. Rath, Chief Scientist and Professor, AcSIR
CSIR-CDRI, Lucknow

Title: “Challenges in *in vitro* studies”

Dr. Arun Trivedi, Senior Principal Scientist
CSIR-CDRI, Lucknow

Title: “Basics of mammalian cell culture”

Dr. A. B. Pant, Senior Principal Scientist
CSIR-IITR, Lucknow

Title: “Applications of cultured mammalian in specific *in vitro* assays”

Dr. Anurag Tripathi, Principal Scientist
CSIR-IITR, Lucknow

Title: “Splenocyte culture and its applications”



Day 1

- Introduction of cell culture, Sub-culturing & Cell counting.
- Cell viability by Trypan Blue, Cell seeding.

Day 2

- Cryopreservation of cells.
- Drug treatment of cells, Cell Migration Assay.

Day 3

- Microscopic observation of treated/control cells.
- MTT assay, Cytotoxicity analysis using Microplate Reader.

Research Personnels



Dr. Sakshi Mishra
CSIR-CDRI, Lucknow



Ms. Farheen Jameel
Fish Biology Cell Culture Lab
Department of Zoology UoL



Mrs. Priyanka Agrawal
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Mr. Saurabh Kumar,
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Ms. Shama Parveen,
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