CELL CULTURE TECHNIQUES

Mammalian cell culture is a vital tool in modern biology, enabling the study of cellular processes, disease mechanisms, and drug responses. It is widely used in cancer research, virology, tissue regeneration, and the production of vaccines and therapeutic proteins. Today, it plays a key role in personalized medicine, drug screening, and gene therapy.

Aseptic Techniques & Sterile Handling

Learn the foundations of contamination-free handling of cells using laminar flow hoods and sterile practices.

Cell Maintenance & Passaging

Master the art of culturing, sub-culturing, and maintaining both adherent and suspension mammalian cell lines.

Microscopy & Viability Assessment

Gain practical experience in counting cells with a hemocytometer and assessing viability using Trypan Blue and microscopy.

Advanced Techniques & Applications

Explore how cultured cells are used in drug screening, toxicity testing, and regenerative medicine through demonstrations and guided practice.

Contact Us

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Get Involved In!

- Cell Culture Environment & Media Preparation
- Cell Handling (Thawing, Seeding, Passage & Cryopreservation)
- Cell Counting & Viability Assays
- Contamination Detection & Troubleshooting
- Advanced Techniques & Applications

Who Should Attend

PG students, Ph. D. scholars, Researchers who aim to work proficiently in mammalian cell culture

Limited slots only.

Free Registration Closes on Sep 10

Total Number of seats – 20
Food & stay on request (charges apply).

Scan the QR for Registration

https://forms.gle/4Ddn1uXn4BZ6KEWp6

Join us in making a positive impact & beyond!

Madurai Kamaraj University
University with Potential for Excellence
Re-accredited by NAAC with 'A++' Grade in the 4th Cycle

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राष्ट्रीय उच्चतर शिक्षा अभियान
NATIONAL HIGHER EDUCATION MISSION

Hands-on Skill Development Training Program on Mammalian Cell Culture Techniques - From Theory to Practical

Sep 22 to Sep 26- 2025

Sponsored by RUSA 2.0

Madurai Kamaraj University

Organized by

Dr. M. PANDI,

Assistant Professor,

Department of Molecular Microbiology,

School of Biotechnology.