

Application Form

1. Full Name: _____
2. Designation: _____
3. Sex: _____ 4. Date of birth _____
5. Present address:

6. Tel No. _____ (office) _____ (Res)
7. Email address _____
8. Teaching/ research /professional experience along with the posts held (During last five years)

Post held	Institution	Period	Nature of duty

9 Academic records

Exam Passed	Subjects	Year of passing	Percent/ OGPA	University
Ph.D.				
Master degree				
Bachelor degree				

Signature of the applicant

10. Date: _____

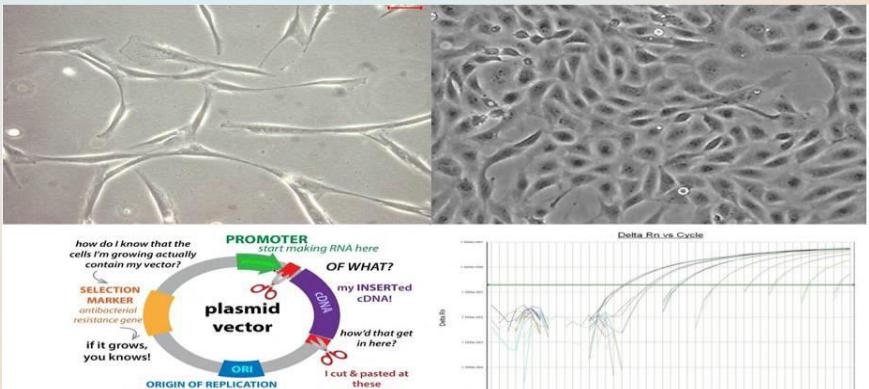
11. Place: _____

12. Recommendation of forwarding institution/organization:



Organized by
Department of Animal Biotechnology
College of Veterinary Sciences, LUVAS, Hisar
125 004, Haryana

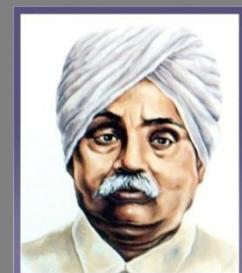
**A 21-days training course on
"Current methods in Molecular Biology and
Cell Culture"
February 4-24, 2026**



Course Director: *Dr. Sushila Maan*

Course Coordinators: *Dr. Pawan Kumar*
Dr. Kanisht Batra

Course Faculty: *Dr. Aman Kumar*
Dr. Joshi V. G.



OBJECTIVES

The current biotechnology tools have significantly transformed the fields of disease diagnosis, drug testing, and vaccine development. Modern molecular diagnostic techniques now enable rapid, reliable, and unambiguous detection of known pathogens and disease conditions, while also offering the capability to identify novel and emerging pathogens. Despite the remarkable progress in molecular biology, classical techniques such as cell culture continue to remain the gold standard for pathogen isolation and for conducting in vitro drug evaluation studies. These approaches have demonstrated their indispensable role in diagnostics and therapeutics. In addition to healthcare applications, biotechnology and cell culture tools are extensively used in forensic science, molecular medicine, and the detection of food adulteration. The widespread use of advanced biotechnological techniques has led to the generation of large and complex datasets, necessitating the application of bioinformatics tools for effective data management, analysis, and interpretation. In this context, the present practical training course has been designed to provide comprehensive hands-on training in key molecular biology and cell culture protocols. The programme also incorporates relevant theoretical components to enhance conceptual understanding and to facilitate better interpretation of practical procedures.

Course contents:

- Sample collection, transport and storage for molecular diagnostics
- Reagents preparation and calculations for molecular biology experiments
- Extraction and purification of nucleic acids (DNA/RNA) of pathogens from diverse biological sample.
- Qualitative and quantitative assessment of Nucleic acid
- Primer designing and PCR technology, Real-time PCR
- Electrophoretic (AGE) separation of nucleic acid.
- Recombinant DNA Technology/ Molecular cloning: Culturing of *E. coli*, Cloning vectors, Ligation, Transformation, Clone screening and confirmation, isolation of plasmid DNA, plasmid profiling
- Sequencing of Nucleic acid(DNA)
- Diagnosis and therapeutic applications of peptides.
- Bioinformatic tools and molecular diagnostic development.
- Preparation of cell culture media
- Maintenance of different cell lines.
- Propagation of viruses in cell lines.
- Cryopreservation of cells

Hisar: It is located 180 Km from Delhi, 320 Km from Jaipur. It is connected from Delhi by train as well as bus. The buses ply between interstate bus terminuses (ISBT) New Delhi and Hisar. There are four trains from Delhi to Hisar viz., Gorakdham Express, Shri Ganganagar Express, Kisan Express and Sirsa Express.

Duration: February4- 24, 2026

Course Fees and selection: Indian participants are requested to pay a sum of Rs. 8000/- (Rs.Eight thousand only) while for foreign delegates US\$ 200 per week as registration fee. The registration fee shall be deposited in cash at the time of registration. Selection of candidates will be done on first come and first serve basis. Results will be notified to selected candidates on 3rd February, 2026.

Accommodation: Arrangements for the stay of the participants (if he/she is govt./private employee) during the training program will be made in faculty house of the University on the payment basis. For others, private PG/Hotels are available in the city.

Number of participants: The maximum number of participants shall not exceed 20.

Participants and eligibility: Participants are invited from ICAR Institutes/ SAU/Basic Science Institutes/ State Governments/Private Organizations. Students from relevant disciplines can also participate.

How to apply: The application for participation may be sent in prescribed format, duly forwarded by Head of the institution. It should reach to the Course Director latest by 3rd February, 2026 up to 5:00 PM by post, in-person, fax or email. TA & DA of the participants will be borne by participants/sponsoring institutions/ organizations etc. The participants will also have to pay for their boarding and lodging charges during the training program. The organizers of the course will not bear any expenses on account of the participants.

All correspondence may please be addressed to:

Dr. Sushila Maan, Course Director cum Prof. & Head
Department of Animal Biotechnology, LUVAS, Hisar
Phone no. 01662- 256130 (office).

Dr. Kanisht Batra and Dr Pawan Kumar (Cell: 9466263979;
9991850394).

Email: hod.abt@luvas.edu.in

Photocopy of the application form can be used