

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

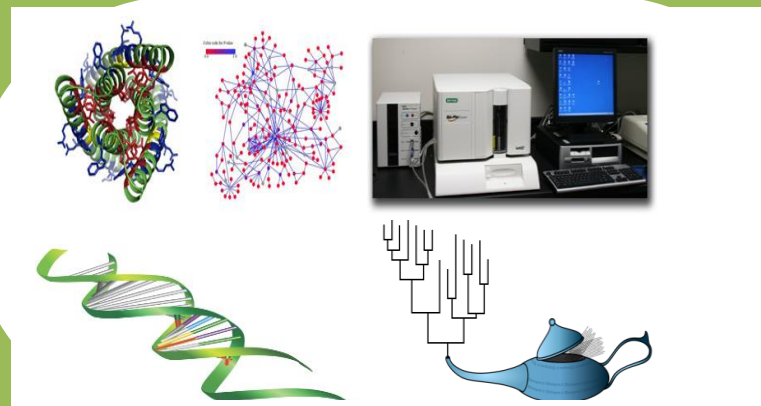
9 Academic records

Exam Passed	Subjects	Year of passing	Percent/OGPA	University
Ph.D.				
Masters degree				
Bachelors degree				

Signature of the applicant

10. Date: _____
11. Place: _____
12. Recommendation of forwarding institution/organization:

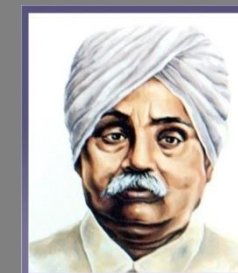
A Training Course on "Techniques in biotechnology and peptide synthesis" 10th to 30th September 2019



Course Director: *Dr. Sushila Maan*
Course Coordinator: *Dr. Joshi V. G.*
Course Faculty: *Dr. Minakshi*
Dr. Aman Kumar
Dr. Pawan Kumar



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



OBJECTIVES

Techniques in molecular biology can be used for various biomedical applications such as diagnostics and therapeutics. These techniques can help in generating biologically valuable recombinant DNA materials. Recombinant DNA (rDNA) pertains to the creation of new combinations of DNA that would not otherwise be found in biological organisms or in nature. Along with rDNA technology other tools and techniques in molecular biology are very helpful and define way to understand the molecular basis of the diseases of human and animal origin. Therefore, it is important that these tools should be developed indigenously based on the problems of concern field or geographical region. Nowadays these basic molecular biology tools are commonly used in the area of genomics, transcriptomics, metabolomics, metagenomics and different aspects of reproductive biotechnology for various purposes like disease specific molecular marker development, molecular typing of microbes, new generation vaccine development, development of antisense technology, molecular therapeutics identification of breeds etc. These tools are also useful in the area of forensic science, molecular medicine and to know the meat adulteration. Further the applications of rDNA tools have entered in era of high throughput technologies. Bioinformatics helps in analyzing huge data generated through newer techniques like next generation sequencing. However, DNA based tools are yet not routinely used for diagnosis of infectious diseases of livestock, pets and poultry. Therefore, present practical training course is designed to provide hands on training on Techniques in molecular biology and bioinformatics. The training programme will also include theoretical aspects of molecular biology and bioinformatics techniques for better understanding of the practical events.

Course contents:

- Extraction and purification of genetic material of pathogens from various sources like blood, semen, clinical tissues, faecal samples, etc.
- Electrophoretic separation of nucleic acid using agarose and polyacrylamide gel as supporting media.
- PCR technology (including Real-time PCR/RT-PCR).
- Real-time PCR.
- Molecular cloning of genes.
- Sequencing of Nucleic acid(DNA)
- *In silico* Primer designing.
- Analysis of nucleotide sequences.
- Sequence alignment tools e.g. BLAST.
- Phylogenetic analysis of sequence data.
- Peptide synthesis and its applications

Hisar: It is located 165 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 three trains from Delhi viz., Haryana Express (leaves New Delhi Railway station at 6:00PM) Kisan Express (leaves Old Delhi railway station at 3:00PM) and Gorakdham Express (leaves New Delhi Railway station at 5:30AM).

Duration: 10th September to 30th September, 2019

Course Fees: Indian participants are requested to pay a sum of Rs. 5000/- (Rs five 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..

Laboratory and computing facilities: The molecular diagnostic laboratories are well equipped with modern equipments and other lab wares.

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 market.

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/ Sate 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 **9th September up to 4 P M** 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).

Cell: 08683867495

Email: hod.abt@luvas.edu.in, vinaygjoshi18@gmail.com

Photocopy of the application form can be used