

# 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 "Advanced techniques in molecular biology & bio-informatics" March 6<sup>th</sup> to 26<sup>th</sup>, 2020



Organized by  
*Department of Animal Biotechnology*

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



**Lala Lajpat Rai University**  
of Veterinary and Animal Sciences

लाला लाजपतराय पशु चिकित्सा एवं पशु विज्ञान विश्वविद्यालय



## OBJECTIVES

Newer technologies either improve existing techniques or develop new approaches to old questions in order to generate information more quickly, easily, accurately and repeatable than existing methods. Advanced techniques in molecular biology can be used for various biomedical applications such as diagnostics and therapeutics. Therefore, it is important that these tools should be developed indigenously based on the problems that are of our concerned. Nowadays, these molecular biology tools are being used in different aspects of human as well as animal medicines. These tools are also useful in the area of forensic science, molecular medicine and to know the food adulteration. Since, advanced techniques are generating huge data hence; to handle and analyze these data bioinformatics tools are necessary. Therefore, present practical training course is designed to provide hands on training on basic to advanced 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 nucleic acid from diverse biological samples.
- ❖ Electrophoretic separation of nucleic acid.
- ❖ Qualitative and quantitative assessment of Nucleic acid
- ❖ PCR technology.
- ❖ Real-time PCR.
- ❖ Molecular cloning
- ❖ Capillary Sequencing of Nucleic acid
- ❖ Next Gen Sequencing
- ❖ Bioinformatic analysis of biological data.
- ❖ Solid phase peptide synthesis
- ❖ Phage display technology
- ❖ Next generation bacterial identification platform (Vitek 2)
- ❖ Luminex technology for multiplex assays.
- ❖ FACS technology

**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:** 6<sup>th</sup> to 26<sup>th</sup> March 2020

**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 state of art facilities.

**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/ 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 **5<sup>th</sup> March 2020 up to 4:30 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).

Cell: 9466088610/9467746083

Email: [hod.abt@luvas.edu.in](mailto:hod.abt@luvas.edu.in), [aman.abt@luvas.edu.in](mailto:aman.abt@luvas.edu.in)

**Photocopy of the application form can be used**