



ICAR CENTRE OF ADVANCED FACULTY TRAINING

(Established in the year 1995 AD vide O.O.No.1-2/93 (CAS)/UNDP dated 11.11.1994)

32nd ICAR CAFT Course In **VETERINARY MICROBIOLOGY** on

“Recent Advances in Cell based Technologies for Animal Disease Diagnostics and Therapeutics”

October 11-31, 2018

**Dept. of Veterinary Microbiology
Lala Lajpat Rai University of Veterinary
and Animal Sciences, Hisar, Haryana**

<http://www.luvass.edu.in/caft-vet-microbiology.html>

ABOUT THE DEPARTMENT AND UNIVERSITY

Established as Department of Bacteriology & Hygiene in 1965, the department has taken a lead role for teaching and research in Veterinary Microbiology and Immunology. The pioneering and first-time lead studies have been made in the fields of poxviruses, salmonellae, foot-and-mouth disease virus, bluetongue virus, equine herpesvirus, bovine rotaviruses, buffalo immunology, phage display technology for nanobody production, monoclonal antibody-based assays, molecular diagnostic tests, etc. The faculty and students have won several awards, honours and recognition, including Rafi Ahmad Kidwai Memorial Prize, Hari Om Trust Award, ICAR Team Award, National Professor and National Fellows, besides Commonwealth Doctoral Scholarships and Post-Doctoral Fellowships.

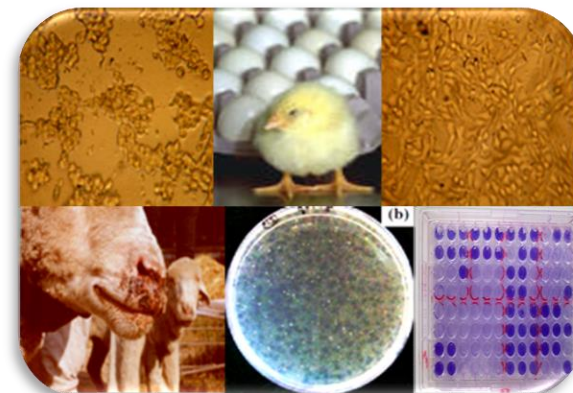
The ICAR had established Regional Centre for epidemiological studies on FMD, at this department in 1969 which has been adjudged as the best AICRP Centre of ICAR-Directorate of FMD consecutively for four years (2010-11 to 2013-14). Since 1995, as ICAR Centre for Advanced Studies/Faculty Training the department has successfully organized 31 Trainings to train the faculty from various SAUs, SVUs and ICAR institutions in India.

College of Veterinary Sciences (COVS) at Hisar is one of the oldest Colleges in Northern India. From Lyallpur (currently in Pakistan), the Campus at Hisar was shifted consequent to partition of India.

Lala Lajpat Rai University of Veterinary and Animal Sciences, Hisar was established by Government of Haryana in December, 2010.

ABOUT THE COURSE

The Department of Veterinary Microbiology, LUVAS is the pioneer in Phage display and hybridoma technologies in the country. It is the leading department in isolation and characterization of viruses of veterinary importance using primary cell culture and cell lines. The proposed training course combines lecture and laboratory exercises with an aim to give the participants a deeper understanding of applications of cell culture in animal disease diagnostics and therapeutics. The participants will be given hands-on training to learn the biological basis and relevance of the process of culturing various cells. This will allow the trainees to translate the techniques learnt over here into applications in their own laboratories.



ELIGIBILITY

- Master's degree in Veterinary Sciences and allied disciplines with working knowledge of Computers.
- Working not below the rank of Asstt. Prof. in the concerned subject under Veterinary/ Agricultural University or ICAR Institutes

COURSE CONTENTS

1. Accreditation of Cell Culture Laboratory
2. Characterization of cell lines and Scaling up for vaccine production
3. Chicken embryo and chicken embryo cell culture for poultry viral disease diagnosis
4. Advances in cell based diagnostic technologies
5. Diagnosis of CPV, BTV and rotavirus using MDBK, BHK-21 and MA-1,04 cell lines
6. Hybridoma technology in disease diagnosis
7. Cryopreservation and revival of cell culture
8. Applications of cytodagnostic techniques in Veterinary oncology and disease diagnosis
9. Contamination in cell culture
10. Flow cytometry in animal disease diagnosis
11. Phages and its application to combat bacterial infections in animals and poultry
12. Phage display technology for production of single-domain antibodies
13. VNT and IFT to study virus-host interaction
14. Application of stem cells and cell cloning
15. Production and characterization of equine mesenchymal stem cells and its use for therapeutics
16. Induced pluripotent stem cells using non-viral mediated approach
17. Luminex® for multiple pathogen detection
18. Automated Microbial identification using Vitek®
19. Lymphocyte proliferation assay for CMIR

LAST DATE FOR SUBMISSION OF APPLICATION IS 30TH SEPTEMBER 2018

SELECTED CANDIDATES WILL BE INFORMED BY 1ST OCTOBER 2018

HOW TO APPLY

Steps for submission of online application

- A. Visit website:
<http://proj.iasri.res.in/cbp/HomePage.aspx>
- B. Login as candidate using your User Id & Password. To create User Id use "Create New Account" link on home page.
- C. To Participate in Training: After login, click on "Participate in Training" link and fill the Performa. Take a printout of filled application form, duly sign it and get it forwarded by the competent authority of your institution. Then scan and upload the approved copy at the above mentioned portal.
- D. An Advance copy (printout of online filled application form duly signed by you) may be sent immediately to Course Director for booking a provisional place in the Training which shall not confer any right. For a confirmed place, the printout of online application forwarded by the competent authority of your institution must reach Hisar by 30th September, 2018.

T.A., BOARDING AND LODGING

The participants will be paid train or bus fare (or by any other means of transport in vogue), restricted to AC-II tier train, for the journey from the place of duty to LUVAS and back by the shortest route on production of valid travel documents. Boarding and lodging shall be arranged by LUVAS.

HOW TO REACH HISAR

Hisar is well connected through buses (day and night) from neighbouring states as well as Delhi [Inter State Bus Terminus (ISBT) at Kashmiri Gate]. Trains for Hisar could be taken from Delhi: 12555/Gorakhdham SF Express (Departure from New Delhi at 06:05 Hours); 14519/Kisan Express (Departure from Old Delhi Station at 14.55 Hours); 14085/Haryana Express (Departure from New Delhi at 18:18 Hours).

ADDRESS FOR CORRESPONDENCE

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COURSE DIRECTOR

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COURSE COORDINATORS

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