

Draft in favour of 'The Director, Winter School, ABT-MVC payable at Union Bank of India, MVC, Vepery, Chennai - 7.

TRAVEL, BOARDING AND LODGING

Participants will be paid travel (to and fro) fare by rail (restricted to AC-II tier) or by bus as per their entitlement. Actual TA for the shortest route will be paid on submission of the original tickets. Accommodation will be provided only for the participants and they are requested not to bring their family members. Participants are requested to make his / her own arrangements of transport to reach MVC. Free shared accommodation in MVC guest house and free boarding will be provided to the selected candidates during the training programme. The local candidates are not eligible for boarding and lodging. However, they will be provided local hospitality (lunch, tea and snacks etc.)

LOCATION AND CLIMATE

The Madras Veterinary College is located just 1.5 km from Puratchi Thalaivar Dr. M.G. Ramachandran Central Railway Station, 0.75 km from Egmore Railway Station, 17 km from Chennai Airport and 10 km from Chennai Mofussil Bus Terminus (CMBT), Koyambedu. The weather during the proposed winter school duration is expected to be pleasant and comfortable.

IMPORTANT DATES

Closing date of applications : 17.01.2022.

Selected candidates will be intimated by 21.01.2022.

Dr. M. Parthiban, Ph.D.,

Course Director & Professor

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Associate Directors

Dr. G. Dhinaraj, Ph.D.,

Dr. T.M.A. Senthilkumar, Ph.D.,

Dr. S. Parthiban, Ph.D., Dr. P. Raja, Ph.D.,

Application form for ICAR sponsored winter school "Recent Molecular Approaches in Livestock and Poultry Disease Diagnosis" 10.02.2022 to 02.03.2022 (Fill in CAPITAL letters)

1. Full Name :
2. Designation :
3. Present employer and address :
4. Address for correspondence (incl. email, Tel/mobile no):
5. Permanent Address :
6. Date of birth :
7. Sex : Male / Female
8. Marital status : Married / Unmarried
9. a) Teaching / Research / Professional experience :
(Mention posts held in the last 5 years)
- b) Present area of research and number of publications :
10. Mention if you have participated in any summer/winter school/short course etc. during previous years under ICAR/any other organizations (Give details of course, organizers, duration/dates/year etc.,)
11. Details of Demand Draft : Registration fee of Rs.50/- as D.D to be paid at the time of registration. (Non refundable)
12. Academic record (Indicate in tabular form Examinations passed from Bachelor degree onwards, Main subjects, Year of passing, Class/Rank/Distinction, University/Institution, Other information) :
13. Relevance of training to applicant's present academic and research activities :
14. Signature of applicant (indicate name, place and date also) :
15. Recommendation of the forwarding Institute (Signature with date, designation/address):

CERTIFICATE

It is certified that the above information has been verified from the office records and found correct.

(Signature and Designation of
the sponsoring authority)



ICAR Sponsored Winter School on "RECENT MOLECULAR APPROACHES IN LIVESTOCK AND POULTRY DISEASE DIAGNOSIS"

10.02.2022 to 02.03.2022

Organized by

**Department of Animal Biotechnology
Faculty of Basic Sciences**

Madras Veterinary College, Chennai-600 007
Tamil Nadu

Sponsored by

Education Division

Indian Council of Agricultural Research
KAB-II, PUSA, New Delhi - 110 012



ABOUT TANUVAS

Tamil Nadu Veterinary and Animal Sciences University (Popularly abbreviated as TANUVAS) is the first Veterinary and Animal Sciences University in South Asia established in 1989. TANUVAS has been conferred with the prestigious "Sardar Patel Outstanding ICAR Institution Award - 2011" recognizing its outstanding performance in education, research and extension in the country in the field of Agricultural Sciences including Veterinary Science.

DEPARTMENT OF ANIMAL BIOTECHNOLOGY

The Department of Animal Biotechnology (ABT) was started through the pioneering efforts of visionary faculty in the year 1989, the same year when TANUVAS was also formed. Ten years into its existence in 1999, the Indian Council of Agricultural Research (ICAR) recognized the department as a "Centre of Excellence in Veterinary Biotechnology and Immunology". The Department was also awarded with "Niche Area Scheme of Excellence in Avian Biotechnology" in 2012 to conduct research on "Improved and expanded vaccines and Immunological understanding of avian viruses" by ICAR. The Rabies Diagnostic Laboratory of this Department is accredited with ISO/IEC 17025:2017 in the field of biological testing for rabies diagnostic services to the public. Recently, the Department is supported by DST-FIST programme under Department of Science and Technology to improve the infrastructure facility for PG education from 2021-2025 with funding outlay of Rs. 300 lakhs. The Department of Animal Biotechnology is housed in two blocks of three floors each with 'state of art' facilities to carry out research in various facets of biotechnology. The Central Embryo Biotechnology laboratory is located at the University campus in Madhavaram

ABOUT THE WINTER SCHOOL

The health of animals is under the constant threat of various dreaded infectious diseases, which may result in significant economic losses to livestock and poultry

farmers. Maintenance of good health status of animals could be achieved by early detection of causative agents using diagnostic tests which are rapid, reliable, precise and highly sensitive.

Latest advances in the molecular biology and biotechnology have opened new avenues in disease diagnosis. Along with this there is a need to build up qualified, trained and competent manpower for bringing the existing disease diagnostic methods in laboratories to field of action.

The basic objective of the winter school is to acquaint the participants with the concepts, techniques and innovations in the development of newer molecular diagnostics for livestock and poultry diseases.

THE CORE TOPICS OF THE WINTER SCHOOL

- Basic molecular techniques including nucleic acid extraction and polymerase chain reaction (PCR)
- Absolute and relative quantification by Real time PCR
- Multiplex PCR assay for detection of poultry and canine pathogens
- Automatic and High-throughput sequencing technologies
- Confocal microscopy and CRISPR-cas9 technology
- Importance of accreditation for disease diagnosis laboratory
- Different isothermal amplification systems used for disease diagnosis
 - Loop mediated isothermal amplification assay (LAMP)
 - Helicase Dependent Amplification assay (HDA)
 - Recombinase polymerase assay (RPA)
 - Hybridization chain reaction (HCR)
 - Polymerase spiral reaction (PSR)
 - Strand displacement amplification(SDA)

HOW TO APPLY

Application for the winter school should be sent online through CBP portal (<https://cbp.icar.gov.in>) of ICAR in the prescribed format with the approval of the competent authority, where the candidate is employed. In CBP portal,

- After login, click on "Participate in Training" link
- Select the training programme and fill the Proforma online
- Take a printout of filled application, sign it and get it signed by the competent authority and send approved application by post to the Course Director.
- Also upload approved scanned copy of the application on the above CBP portal.

Applicants may send an advance copy, if they anticipate delay in forwarding through proper channel. However, the final selection will be made only if the application duly recommended by the competent authority is received, which must not be later than one week after the closing date.

ELIGIBILITY

The winter school is meant for active researchers / teachers / scientists in SAUs/ICAR institutes in the rank of Assistant Professor or above in the field of Animal/Veterinary Biotechnology/Veterinary Microbiology/Veterinary Pathology/Veterinary Parasitology/Veterinary Preventive Medicine / Veterinary Public Health and Epidemiology and other related fields of Veterinary Science. Only 25 candidates will be selected for this winter school and the selection will be made by a Selection Committee as per the available guidelines of the ICAR. The decision of the selection committee will be final and no correspondence in this regard will be entertained from / for the non-selected candidates. After the candidates are intimated of their selection, they should immediately reply with firm acceptance.

The selected candidates need to pay a registration fee of Rs 50/- (Non-refundable) in the form of a Demand