

**ICMR-sponsored training on**  
**“Molecular Approaches For Rapid And Confirmatory Diagnosis Of**  
**Infectious Diseases of Zoonotic Origin”**

**Organized by the Department of Animal Biotechnology**  
**in collaboration with IQAC, College of Veterinary Science, A.A.U., Khanapara, Guwahati**

**From 5<sup>th</sup> to 13<sup>th</sup> February, 2024**

It has been reported that 60% of the infectious diseases and 75% of the emerging diseases are of zoonotic importance. North-Eastern region is having multiple porous international borders and movement of man and animals across the border is a serious concern, especially for potential transmission of infectious diseases of zoonotic importance. This training has been organized with an aim to train 15 selected teachers/ researchers/ biomedical workers / veterinary or medical practitioners on applications of advanced tools and techniques in molecular biology specifically giving hands-on experiences in respect of diagnosis of zoonotic diseases. The trained manpower is expected to gain expertise needed to tackle zoonotic infections to ascertain achieving national and global one-health goals.

**Contents:**

Isolation of Bacterial Genomic DNA
Isolation of DNA from Tissue/Blood
Isolation of Viral RNA
PCR primer designing
Polymerase Chain Reaction for detection of pathogens
Polymerase Spiral Reaction (PSR)
SDS-PAGE
Western Blotting
Sequence Analysis
Real-time PCR
Isolation of Viruses in cell culture
ELISA for diagnosis of important zoonotic diseases
FAT for detection of viral pathogens

**Application procedure:**

Download the application form from the link and send the soft copy of the filled in application to [nabaassam@gmail.com](mailto:nabaassam@gmail.com) OR [luit.barkalita@aau.ac.in](mailto:luit.barkalita@aau.ac.in) .

No need to send hard copies of the applications. For any clarification, the interested applicants may contact Naba Kumar Deka (6901119256) or Dr. Luit Moni Barkalita (7002743612).

### **Application Fee:**

Registration fee of **Rs. 1000.00** (excluding accommodation) may be paid by the selected applicants at the time of registration on the first day of the training in the form of Demand Draft drawn in favour of DIRECTOR OF RESEARCH (VETERINARY), AAU payable at Khanapara. No TA/DA will be admissible to the participants to attend the training.

### **Lodging & Food:**

Lodging for the selected candidates may be arranged in the College Guesthouse on twin sharing basis. The charges for accommodation have to be paid directly in the Guesthouse at the time of check out. Working lunch along with session tea will be served in the department for the participants during the training days.

### **Last Date of Application:**

Last date of application is 28<sup>th</sup> January, 2024. List of the selected candidates will be posted in the website- <http://vetbifg.ac.in> ~~http://www.vetbifg.ac.in/~~ on 30<sup>th</sup> January, 2024.

### **Organizers:**

#### **Dr. Luit M Barkalita**

Organizing Secretary

Assistant Professor,

Department of Animal Biotechnology

College of Veterinary Science, AAU, Khanapara-22

#### **Dr. Dipak Deka**

Convener

Assoc. Professor & Head of the Department,

Department of Animal Biotechnology

College of Veterinary Science, AAU, Khanapara-22