KVASU

Hands-on Training Programme on

# Basic Molecular Genetic Techniques and Bioinformatics Tools for Life Science Research – Module I and II (Two separate trainings, each of five days duration)

**(Module I – Feb 03-07, 2026 and Module II – Feb 09-13, 2026)**


**School of Applied Animal Production and Biotechnology,**

**Kerala Veterinary and Animal Sciences University,**

**Mannuthy-680651 Thrissur**

**Kerala, India**

**http://www.kvasu.ac.in**

The School of Applied Animal Production and Biotechnology (SAAPBT), College of Veterinary and Animal Sciences (CVAS), Mannuthy, Thrissur (Kerala Veterinary and Animal Sciences University) is pleased to announce a hands-on training program on **"Basic Molecular Genetic Techniques and Bioinformatics Tools for Life Science Research – Modules I and II."** These are two separate training sessions, each five days long, starting on **February 03, 2026**, at Mannuthy, Thrissur.

## Background

Over the last decade, the SAAPBT has conducted more than 25 training programs on Molecular Genetic Techniques and Bioinformatics Tools. These programs have benefited more than 300 participants, including faculty members, post-graduate and PhD scholars from veterinary, agricultural, medical, and pure science research and teaching fields. Building on this experience, SAAPBT is now organising a training program titled **"Basic Molecular Genetic Techniques and Bioinformatics Tools for Life Science Research"** at SAAPBT, College of Veterinary and Animal Sciences, Mannuthy, Thrissur. This program is designed for faculty members, researchers, and professionals from government and private institutions who are involved in biological sciences research or teaching. It is particularly valuable for those working in molecular genetics laboratories. The training is relevant to a broad range of disciplines, including veterinary science, agriculture, medicine, and basic scientific research. **The training is divided into two modules, and participants have the option to choose either one of the modules or both. Each module provides focused training, and participants will receive a certificate for each module completed.**

The program includes about 25 hours of theory and 14 hours of practical sessions. Each session begins with an introductory lecture followed by hands-on training, allowing participants to directly apply the theoretical knowledge they've learned. This blended approach helps trainees develop a strong understanding of molecular genetic techniques and bioinformatics tools, as well as the practical skills to use them in their laboratories. By the end of the program, participants will be better equipped to incorporate these techniques into their research or teaching. A comprehensive training manual covering all sessions will also be provided.

## Programme Fee

Each module will have a training fee of ₹3,000/- for students and ₹6,000/- for others (faculty, researchers, professionals, etc.). For both modules together, the fee will be ₹6,000/- for students and ₹12,000/- for others. The training fee shall be remitted **only after** receipt of intimation regarding selection for the training programme. The fee shall be paid **online/UPI** to the Course Director (Training), SAAPBT, COVAS, Mannuthy, in the following bank account: **State Bank of India, Ollukkara Branch**; **Account No.:** 67350596935; **IFSC Code:** SBIN0070210.

## Who Should Attend?

The course is open to faculty members, research scholars, postgraduate students, and professionals from government or private institutions involved in research or teaching in the biological sciences.

## Lodging

Accommodation will be provided to participants upon request at nominal charges on a shared basis, subject to availability.

## Travel

KVASU-SAAPBT is located in the CVAS campus, Mannuthy, Thrissur, approximately 7.7 km from Thrissur Railway Station and 50.4 km from Kochi International Airport. Travel and accommodation expenses (TA and DA) must be borne by the participants or their sponsoring organisations.

## Content

**MODULE I**

- Genome organisation and function
- Principles of DNA isolation
- Agarose gel electrophoresis
- Polyacrylamide gel electrophoresis
- Biological databases and resources
- Polymerase chain reaction and primer designing
- Molecular biology techniques for disease diagnosis
- DNA sequencing and submission to databases
- Phylogenetic analysis

**MODULE II**

- RNA isolation and cDNA synthesis
- Restriction endonuclease analysis
- High-resolution melt curve analysis
- Real-time polymerase chain reaction
- Introduction to Next Generation Sequencing
- Basic concepts of recombinant protein production
- Basics of microsatellite and metagenomic analysis
- Enzyme-linked immunosorbent assay (ELISA)
- Cell culture techniques
- Bioinformatics tools in protein prediction and drug discovery

- **How to Apply?**

A scanned copy of the completed application (in the enclosed format) shall be emailed to **iosaapb@kvasu.ac.in**. *The training fee shall be remitted **only after** receipt of intimation regarding selection for the training programme.* The selected applicant must, however, submit proof of remittance of the training fee to the Course Director upon reporting for the training.

## Important Dates

**Module I:** February 03 to 07, 2026
**Module II:** February 09 to 13, 2026
**Last date to receive applications: 22-01-2026**

**Number of seats available: 14**

**For further information, please contact:**

Dr C N Dinesh,
Course Director (Training),
SAAPBT, CVAS, Mannuthy,
Thrissur, Kerala - 680 651
Mobile: 9447227119
E-Mail: iosaapb@kvasu.ac.in

**HANDS-ON TRAINING PROGRAMME ON "BASIC MOLECULAR GENETIC TECHNIQUES AND BIOINFORMATICS TOOLS FOR LIFE SCIENCE RESEARCH" – Module I and II**

(Application to be sent to the mail ID of the Course Director - iosaapb@kvasu.ac.in)

*Whether applying for Module I or Module I or Both Modules (Please put a tick mark (**✓**) against the preferred one or both).*

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|---|---|
| Module I – February 03 to 07, 2026 | |
| Module II – February 09 to 13, 2026 | |

| | **APPLICATION FORM** | |
|---|---|---|
| 1 | Full name (in CAPITAL) | |
| 2 | Designation | |
| 3 | Address | |
| 4 | Mobile No (WhatsApp No) | |
| 5 | Email | |
| 6 | Age | |
| 7 | Sex (Male/Female/others) | |
| 8 | Nature of job (Teaching/ Research/ student, etc.) | |
| 9 | Area of specialisation | |
| 10 | Educational qualification | |
| 11 | Teaching/ Research/ Professional experience (mention post held) during the last 5 years | |
| 12 | Details of the training fee paid *(The training fee shall be remitted **only after** receipt of intimation regarding selection for the training programme.)* | Amount (Rs):<br>Transaction ID:<br>Date of remittance: |
| 13 | Signature of applicant with date | |
| 14 | Forwarded by the competent authority (Signature, date and office seal) | |