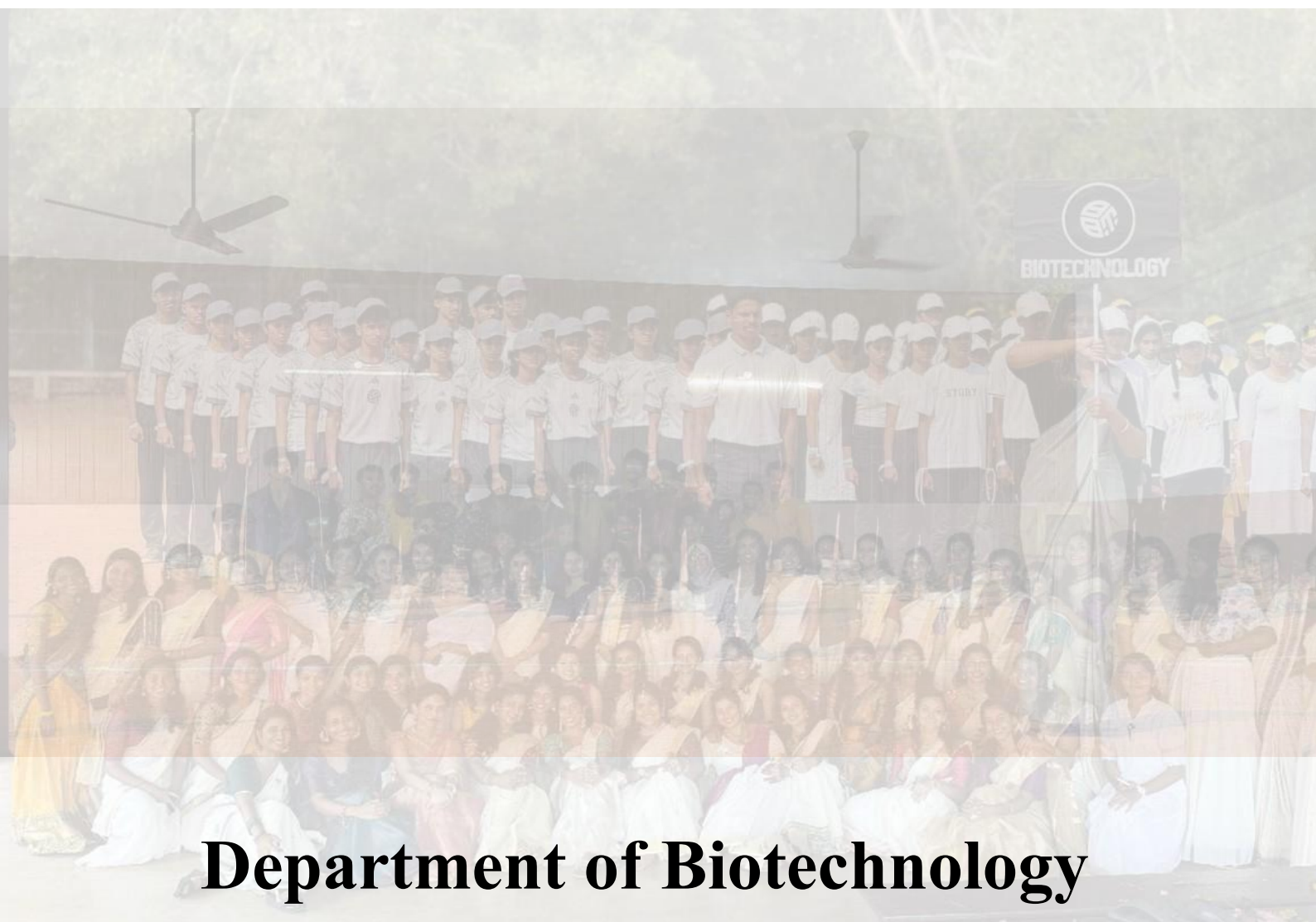


# **Annual Report**

**2023-2024**



## **Department of Biotechnology**

### **Faculties**

**Dr. Lini N. (HOD)**

**Dr. Deepthy Alex**

**Dr. Santhi Krishnan**

## 1. Invited Talks

### 1.1 Lecture on Food Adulteration

Date: 21st February 2024

Venue: Mar Gregorios Hall

Speaker: Mr. Jayaprakash K.N., Retired Manager (Quality Assurance), MILMA Dairy, Trivandrum

Coordinator: Dr Santhi

The Department of Biotechnology organized a guest lecture on the topic 'Food Adulteration'. The session, led by Mr. Jayaprakash K.N, addressed the risks associated with adulterated food, methods of detection, and preventive measures. The talk received excellent feedback from the students.

### 1.2 FABIO Association Day - Invited Talk

Date: 21st December 2023

Venue: Silver Jubilee Hall

Speaker: Dr. Satheesh Kumar PK, Professor, Department of Botany, Banaras Hindu University

Coordinator: Dr Lini N

As part of the FABIO 2K'23 Association Day celebrations, the department hosted an invited lecture by Dr. Satheesh Kumar PK. His lecture emphasized recent advancements in plant biotechnology and career opportunities for students in the domain.

## 2. Advanced Learners' Programme

Coordinator: Dr Lini N

### 2.1 Debate on NEP - 4 Year Graduation: Pros and Cons

Date: 8th December 2023

Venue: Room 115

The Advanced Learners' Programme hosted a debate on the topic 'New Education Policy and 4 Year Graduation: Pros and Cons'. The participants actively engaged in thoughtful discussion, highlighting both opportunities and challenges brought forth by the new academic framework.

### 2.2 Literature Review Presentation - Precision Oncology

Date: 9th January 2024

Speaker: Diya Cheriyan (1st DC BBT)

Venue: Room 115

As part of the programme, Diya Cheriyan delivered a presentation on 'A Literature Review on Precision Oncology - The Future of Cancer Care'. The session fostered awareness of recent research advancements in targeted therapy for cancer.

### 2.3 Debate on Stem Cell Therapy: Pros and Cons

Date: 16th January 2024

Venue: Room 115

The debate revolved around the ethical, scientific, and clinical aspects of stem cell therapy. Students showcased commendable critical thinking and scientific reasoning.

## 3. Training Programme

### **3.1 Good Laboratory Practice (GLP) Training**

Date: 2nd April 2024

Venue: Mar Gregorios Hall

Coordinator: Dr Lini N

Good Laboratory Practice (GLP) is a set of principles intended to ensure the quality, integrity, and reliability of non-clinical laboratory studies. The Department of Biotechnology at Mar Ivanios College organised a dedicated GLP training program to familiarise students with the essential practices and ethical standards required in laboratory-based research and diagnostics. The training aimed to instil discipline, safety consciousness, proper documentation habits, and accuracy in experimental work, thereby preparing students for careers in research laboratories, pharmaceutical companies, and quality control departments. Through lectures and hands-on sessions, students gained insights into standard operating procedures, laboratory safety protocols, and the importance of maintaining detailed records in scientific investigations.

### **3.1 Micropropagation Training**

Date: 2nd April 2024

Venue: Mar Gregorios Hall

Coordinator: Dr Deepthy Alex

Successfully conducted a 40-hour micropropagation certificate course. The goal was to provide training in plant tissue culture technology to foster entrepreneurial abilities and to teach personnel appropriate for the demands of the plant tissue culture industry and research facilities. Plant tissue culturing, subculturing, and hardening procedures were demonstrated through practical instruction and hands on training were given. On March 16, 2024, a field visit was made to Kerala University's plant tissue culture lab. Ten botany department students enrolled in the course and finished the certificate program with success.

## **.4. Alumni Programme / Food Fest**

### **4.1 Charity Food Fest - Payasam Distribution**

Date: 19th February 2024

Coordinator: Dr Lini N

The Department of Biotechnology hosted a Food Fest as part of alumni and social outreach programs. Students organized a payasam stall, and the proceeds were used for charitable purposes. This event also provided a platform for showcasing managerial and communication skills among students.

## 5. School Student Outreach

Coordinator: Dr Lini N

## 5.1 Invited Talk on Genetic Engineering

Date: 10th February 2024

Speaker: Dr. Lini N

Venue: Department Lecture Hall

An invited session on 'Genetic Engineering' was delivered by Dr. Lini N to a group of visiting school students. The talk introduced fundamental concepts in modern biotechnology, highlighting practical applications and ethical concerns.

