

Work shop
on

ELECTROPHORESIS TECHNIQUES

(20– 29th May, 2010)

Organised by

(Sri Kandasamy Kannan Educational Trust)

THE ELECTROPHORESIS INSTITUTE
BIOTECH - YERCAUD
YERCAUD - 636 601
Salem- Dist. TN.

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Director
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1. Scope & Objectives

Electrophoresis is a novel technique introduced by a Nobel Laureate A.W. Tiselius in 1937. In order to study biological molecules like proteins and nucleic acids, different electrophoresis methods are evolved. They separate molecule by molecule ; detects them even at pico gram level and identify very specifically. That is why they have been become an essential tool in modern Biology.

In the last Two decades, BIOTECH has been catering students and researchers with a number of electrophoresis systems. The recent popularity of electrophoresis techniques even at graduate level warrants sufficient theoretical & practical background for effective utilization of the equipment. The Electrophoresis Institute, has been aimed at fulfilling the current demands by way of conducting short-term training programs at nominal costs.

The program will expose every participant individually with various electrophoresis techniques. Instrumental facilities as well as expert guidance are available readily to learn variety of electrophoresis techniques. Every participant has to undergo minimum 75% of time in the lab. The Institute is located in a quiet and pleasant atmosphere. It is a great opportunity to learn Electrophoresis amidst a memorable ambience.

2. Topics

The course will be primarily practical oriented. Various electrophoresis techniques employed from Clinical medicine to Biotechnology laboratories will be covered. The Course faculty consists of experts in the field for over 25 years.

Theory :

1. Principles of Electrophoresis & design of Apparatus
2. Immuno electrophoresis Techniques
3. DISC electrophoresis/SDS PAGE
4. Isoelectric focusing & 2D
5. Western Blotting & its applications
6. DNA Sequencing & gel Documentation
7. Pulse field Gel electrophoresis / Capillary electrophoresis.
8. Genomic DNA isolation
9. Restriction digestion / ligation
- 10 RAPD / RFLP

Practicals:

1. Agarose gel Electrophoresis
2. Immuno electrophoresis – counter – rocket
3. SDS-PAGE & Western Blotting
4. PCR and DNA fragment analysis by Submarine electrophoresis
6. Gel Documentation
7. Genomic DNA isolation methods
8. RAPD / RFLP

3. **Duration** – 10 days
4. **Eligibility** - Post Graduate students / research scholars / Lab Technicians / faculty.
5. **Participants** - 25 only.
6. **Course Fees** - Student / scholar - **Rs. 7000/-** ; Lab Technician / Faculty – **Rs. 8000/-**
7. **Accommodation** – Rs. 1000/- (Dormitory) & **Food - Extra.**
8. **General Information**

Yercaud (4800 feet above MSL) is one of the best hill stations in South India. The Electrophoresis Institute is located in the heart of Yercaud Town. Day temperature will be around 20°C. There are many sightseeing places in and around Yercaud like, BSI-Orchidarium, Horticultural research stations, Lake, view points, Temples, water falls etc.

9. **To participate** - Register your name (s) with course fee as DD in advance.
Selection will be on 'first come - first served basis'. In case of cancellation after April 30th 2010, course fees cannot be refunded.

REGISTRATION FORM

Name :

Position :

Organisation :

Full Address :

Tel/Fax/Email :
Represented by :

Dear Sir

*I am / we are interested to participate in the training program. Please enroll my/our name(s) for the course. I am enclosing here with the necessary course fee Rs/- as DD / at par cheque No.....dt.in favour of **The Trustee, Sri Kandasamy Kannan Educational Trust, payable at Yercaud/Salem.***

Signature

Date

Pl. courier the registration form To

**Director
The Electrophoresis Institute
(Biotech-yercaud)
YERCAUD – 636 601.**