



**Ministry of Science and Technology, Department of Biotechnology
Sponsored
Short Term Training Course for College Teachers
Teaching Undergraduate Students of Life Sciences and Biotechnology
Organized by
Frontier Lifeline and Dr. K.M. Cherian Heart Foundation
International Centre for Cardio Thoracic and Vascular Diseases
Chennai
17th – 31st December 2009**

The International Centre for Cardio Thoracic and Vascular Diseases at Chennai is a center of excellence promoted by Frontier Lifeline and Dr. K. M. Cherian Heart Foundation headed by Dr. K. M. Cherian, one of the pioneers of cardiothoracic surgery in India.

RESEARCH

The Research unit of Frontier Lifeline was inaugurated by Dr. A.P.J. Abdul Kalam during his tenure as the President of India. It is a growing unit with academic and industrial foresight into modern medicine. The research unit has been actively forging research in key areas of Tissue Engineering, Stem cell Technology, Genetics and Molecular Biology. Here, scientists and physicians work collaboratively towards our many objectives: providing education and training in research, conducting innovative basic or laboratory investigation, performing patient-oriented research to translate discoveries into improved clinical cardiac care and piloting studies in the community to improve the health and well-being.

OUTLINE OF THE WORKSHOP

This workshop aims to make the basic techniques in molecular biology accessible to the teachers responsible for imparting scientific knowledge to our young minds. The workshop will help the college teachers teaching life sciences and biotechnology, to update their laboratory skills and improve technical knowledge, thereby further enhancing their teaching skills.

The following techniques would be taught, with individual hands-on exposure

- Isolation of Plasmid DNA from E.Coli
- Isolation of Genomic DNA from Blood
- Polymerase Chain Reaction
- Amplification refractory mutation system polymerase chain reaction
- Protein Isolation from Blood
- Polymorphism Studies – Restriction Fragment length polymorphism, Single strand confirmation polymorphism
- Cloning
- Blunt end Ligation
- Poly-acrylamide gel electrophoresis
- Western Blotting

Eligibility

Faculty teaching undergraduate students in life sciences and biotechnology at any Indian University/College may attend the course.

Selection Procedure

Selection is on a 'first come first served' basis with proof of eligibility. The number of participants is limited to 25 only. Not more than two faculty members from the same department will be entertained.

Course material, tea/coffee and a working lunch will be provided for all participants. TA/DA will be paid as per GOI norms.

How to apply?

Application forms may be downloaded from www.frontierlifeline.com. Faculties interested in participating in this short term training course are requested to submit a completed application. Incomplete applications would be summarily rejected. Upon selection, the teachers are requested to confirm their registration on or before 10th December 2009.

Course will be held from 17th – 31st December 2009

Important Dates

- Date of announcement of training program in National Dailies/Scientific Journals – **1st November 2009**
- Last date for submission of completed applications – **30th November 2009**
- Announcement of Selected/Participants Wait Listed – **2nd December 2009**

Venue:

Frontier Lifeline

TICEL Biopark,

Taramani Road, Taramani,

Chennai 600113

(Venue is very close to IIT, Madras, CLRI and Madras University, Taramani Campus)

Information regarding the Short Term Training program can be obtained from

Course Secretaries

Mrs. Geetha/Mr.Sarangan

Ticel Biopark, Business Center,

Taramani Road, Taramani, Chennai – 600113

Email: frontiertissueline@gmail.com

Phone: 044-22542335

Web: www.frontierlifeline.com

Chief Patron

Dr. K.M. Cherian

Chairman and CEO, Frontier Lifeline

Course Director

Dr. Soma Guhathakurta, Frontier Lifeline

Director - Research

Course Faculty

Dr. Kavitha S., Sr. Scientist, Frontier Lifeline

Mr. C. Anbarasan, Scientist, Frontier Lifeline

Mr. M. Ashok Kumar, Scientist, Frontier Lifeline

Mr. Suneel Rallapalli, Scientist Frontier Lifeline

Mr. Dillip Kumar Bishi, Scientist, Frontier Lifeline

Mr. Satish Galla, Scientist, Frontier Lifeline

Dr. Santhosh Mathapati, Scientist, Frontier Lifeline