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Course Director:

Dr. K. Shaghan, Lecturer (SG) in Botany

Course Co-ordinator:

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Dr. M. Ghouse Binha, Associate Prof of Botany
Dr. H. Syed Jahangir, Lecturer (SG) in Botany
Dr. M. Karim, Assistant Prof of Botany

Advisors:

Dr. A. Ganapathi, Professor and Head, Department of Biotechnology, Bharathidasan University
Dr. S. Uma, Principal Scientist (Hort.), Crop Improvement Division, National Research Centre for Banana, Thiruvananthapuram, Trichy
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DBT, GOVERNMENT OF INDIA, NEW DELHI

Sponsored



Short Term Hands-on Training Course for

BASIC TECHNIQUES IN PLANT MOLECULAR BIOLOGY (For College Teachers)

18th April – 3rd May 2011

Organized by

Plant Molecular Biology Laboratory
PG & Research Department of Botany
Jamal Mohamed College (Autonomous)
Accredited at A Grade by NAAC (CGPA 3.84/4)

Trichirappalli – 620 020
Tamilnadu, INDIA

www.jmc.edu

About the Host institution

Jamal Mohamed College was founded in 1951 as an affiliated college to the University of Madras. Over the period of six decades, the college was able to scale greater height and raise the present status as a multi faculty institution affiliated to Bharathidasan University. The college was reaccredited at 'A' grade (CPGA 3.6 out of 4) by NAAC during the year (2006 – 2009). The PG and Research Dept. of Botany is one of the DST-FIST sponsored Departments and it has well established research labs for plant tissue culture, plant molecular biology and environmental microbiology. This department has already conducted several seminars and workshops in National and Regional levels. The Department has several ongoing major research projects funded by prestigious funding agencies.

About the training

Biotechnology is emerging as one of the most innovative technologies in Life Sciences and is influencing almost every aspect of human life. It provides a set of tools that if appropriately amalgamated with other technologies, can be applied for the sustainable development. Even though, the biotechnology is included in the syllabus of all Lifescience courses at undergraduate level, the practical part of this subject is still in its infancy in colleges of rural areas, because of the lack of trained teachers in the field of biotechnology. Therefore this workshop is designed to give hands on training for undergraduate teachers, which will be helpful to take these techniques to student community with full understanding and confidence.

Content of The Training Course

Plasmid DNA extraction - Agarose gel electrophoresis - Restriction digestion analysis - Plasmid map construction - Electroelution - Plant DNA extraction - Plant protein extraction - SDS PAGE - Native PAGE (isozyme analysis) - Protoplast isolation from Plant tissues - Gene specific PCR - Primer designing - Random Amplification of Polymorphic DNA (RAPD) techniques - Basic Plant micropropagation techniques.

Registration Process

Participants are requested to pay the registration fee (Rs. 500/-) along with requisition on or before **12th April 2011**. The registration fee can be drawn as DD in any nationalized bank in favor of "**Course Director, STTC for Basic Techniques in Plant Molecular Biology**" payable at Tiruchirappalli. Selection will be based on the bio-data of the applicant. Accommodation will be arranged on request.

ADDRESS FOR CORRESPONDENCE

Dr. A. Shajahan,

Course Director, DBT Sponsored STTC,
PG & Research Dept. of Botany, Jamal Mohamed College, (Autonomous)
Tiruchirappalli - 620 020 Tamilnadu, INDIA.
Email: pnb.jmc@gmail.com, shajahan.jmc@gmail.com
Phone : +91 94438 74731.

