

# CENTRE FOR BIODIVERSITY AND BIOTECHNOLOGY

St. Xavier's College (Autonomous)

Palayamkottai - 627 002

organizes

## **HANDS-ON-TRAINING IN PLANT TISSUE CULTURE**

**October 14 - 17, 2017**

Plant tissue culture is a simple technique which takes advantage of the totipotency of plant cells to regenerate whole plants from a single cell or any green tissue. Commencing from its use as a tool for mass propagation, plant tissue culture has a wide array of applications like *ex situ* germplasm conservation, artificial seed production, transgenic crop development and metabolic engineering of secondary metabolites. Regeneration via *in vitro* systems is the basic platform for genetic transformation and genome engineering in various plants. Currently, plant-based research institutes and industries worldwide are in need of skilled plant tissue culturists for developing plant based products. In this context, the hands-on-training programme is designed to impart technical skills to the participants with good laboratory practices in plant tissue culture. The training programme will also provide detailed theoretical inputs by eminent lectures.

### Techniques covered:

1. Micropropagation – Meristem and Nodal culture
2. Shoot organogenesis and Somatic embryogenesis
3. Zygotic embryo culture and Artificial seed production
4. Protoplast isolation from plants

**Training duration:** 10.00 a.m. to 4.00 p.m.

**Total no. of participants:** Limited to 15 on first come first served basis .

**Eligibility:** Undergraduates, Postgraduates, Research Scholars and Technical Assistants

**Registration:** Rs. 1,500/- (includes training kit and working lunch). Outstation participants have to make their own arrangements for accommodation. Registration fees payable in the form of Demand Draft in favour of "The Principal, St. Xavier's College, Palayamkottai". Registration fees along with the application form should be forwarded to **Rev. Dr. L. John Peter Arulanandam, SJ.**, Director, Centre for Biodiversity and Biotechnology, St. Xavier's College, Palayamkottai – 627 002. Last date for registration is October 10, 2017. For further enquiries contact Dr. A. Vinoth (Mobile: 7358373455; Email: [vinoth.loyolite07@gmail.com](mailto:vinoth.loyolite07@gmail.com))



**Rev. Dr. L. John Peter Arulanandam, SJ**  
Convener



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## **Registration Fee Details:**

Amount : Demand Draft No.:

Date : Bank:

Applicant Name :

Educational Qualification :

Institution :

Address for Correspondence :

Email :

Mobile :

Give a statement (in about 100 words) why you want to attend this training and your expectations from the Workshop

Signature of the applicant

Date:

Place: