

## TECHNICAL FACILITIES

The training is planned for two days. Guest lecture will be delivered by subject experts followed by Practical session. All the participants will be provided with a Training kit along with the Laboratory Manual. Tea, snacks and Lunch will be provided. Participants will be received their certificates after the felicitation ceremony.

### ORGANIZING COMMITTEE

#### Patrons

**Rev. Dr. Francis P. Xavier, S. J.**  
Rector

**Rev. Dr. D. Selvanayakam, S. J.**  
Secretary & Correspondent

**Rev. Dr. A. Thomas, S. J.**  
Principal

#### Convener

**Dr. G. Jeya Jothi** Assistant Professor

#### Organizing Committee Members

**Dr. R. Ravindhran** H.O.D

**Dr. P. Agastian, S. Theoder** Associate Professor

**Mr. L. Antoine Lebel** Associate Professor &  
Vice Principal (Shift - I)

**Dr. J. Joel Gnanadoss** Assistant Professor

**Dr. I. Jaqueline Chinna Rani** Assistant Professor

**Mr. S. Karthik** Assistant Professor

#### Address For Correspondence

**Dr. G. JEYA JOTHI**

**Convener**

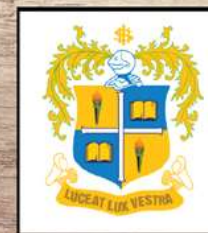
Applied Plant biology & Biotechnology Unit (JF 09)

Loyola College

Chennai - 600 034

E.mail : [apbtloyola@gmail.com](mailto:apbtloyola@gmail.com)

For Enquiry : 75488 19538, 98845 87191, 74484 83805



**LOYOLA COLLEGE (AUTONOMOUS)**  
**(College of Excellence)**  
**Chennai - 600 034**

DST - SERB Sponsored  
Research Facility Training on  
"Molecular Biology & Prospection Techniques"

DECEMBER 5-6, 2019



*Convener*

**Dr. G. JEYA JOTHI**

*Organized by*

**Department of Plant Biology & Biotechnology**

**Loyola College, Chennai - 600 034**



## ABOUT LOYOLA COLLEGE

Loyola College, a Catholic Minority Institution, was founded by the Society of Jesus (Jesuits) in 1925. It started functioning in July 1925 with just 75 students on the rolls in three undergraduate courses of Mathematics, History and Economics. Loyola College, though affiliated to University of Madras, became autonomous in July 1978. It is autonomous, in the sense that it is empowered to frame its own course of studies and adopt innovative methods of teaching and evaluation. The University degrees will be conferred on the students passing the examinations conducted by the college. UGC conferred the status of "College with potential for Excellence" on Loyola College in 2004 and confirmed the same in 2010. NAAC's re-accreditation score in 2012 (Third Cycle) is 3.70 out of 4.00 CGPA. UGC has elevated Loyola College to the status of "College of Excellence" for the period from April 1, 2014 till March 31, 2019.

## ABOUT THE DEPARTMENT

The Department of Plant Biology and Biotechnology was sprouted in 1950 as a young Department of Botany; Rev. Fr. Alfred Rapinats.S.j., Rev. Dr. Pallithanam s. j. Prof. Rama Rao, Dr. T.A.Lourdusamy, Prof. Wilson, Prof. Babujee and Dr. S.J.Kingsley were the instrumental in making the Department blossom. Rev. Dr. S. Ignacimuthu s.j. faculty of our Department and former principal was keen in elevating the Research Department. With the support of the Management, the UGC and the DBT Star College Scheme, Department has very good infrastructure facilities such as separate lab for Plant Tissue Culture, Animal Cell Culture, Microbiology and Molecular Biology for UG and PG students. We have herbal garden with more than 200 plant species and we also use the plants from our garden for the practicals. The staff members have research projects funded by DBT, UGC, ICMR and Loyola College - Times of India. Department conducts DBT sponsored training programs for college teachers and research scholars in biotechnology. Some of our under graduate students have become Entrepreneurs in plant tissue culture, production of mushroom, Bio-Fertilizers.

## ABOUT THE EVENT

Molecular Biotechnology is used to study and modify nucleic acids and proteins for applications in the areas of Agriculture and the environment. It results from the convergence of many areas of research such as molecular taxonomy, molecular biology, microbiology, biotechnology, immunology, genetics and cell biology. It also can be applied to develop and improve drugs, vaccines, therapies and diagnostic tests that will improve human and animal health.

In the same way, Natural phytochemicals contained in plants, such as alkaloids, flavonoids, phenols and tannins are regarded as the molecules with the ability to neutralize free radicals and have gained increased attention of researchers and consumers as potential antioxidants. Moreover phytochemicals extracted from natural plants are considered to be safe and good alternatives when compared to synthetic antioxidants. Presently our entire college curriculum is reoriented towards modern technology. Hence, the students of Master's degree will utilize these technological skills and will apply these techniques for their future research.

## ABOUT THE RESOURCE PERSON

**Dr. K. Kathiravan**, Associate Professor, Department of Biotechnology, University of Madras, Guindy campus, Chennai.

**Dr. V. Sundaresan**, Scientist-In-Charge, CSIR-CIMAP, (Central Institute of Medicinal and Aromatic Plants), Bangalore.



## PROGRAMME

### Training includes

#### I. Molecular Techniques

- DNA Isolation
- DNA Gel Electrophoresis
- Polymerase Chain Reaction (PCR)

#### II. Phytochemical Techniques

- Qualitative Phytochemical Analysis
- Sequential Extraction (Demonstration)
- Column Chromatography (Demonstration)
- Antioxidant Activity



## REGISTRATION

Selection is purely based on merit, interested Post graduate (M.Sc. Botany, Plant biology and Plant Biotechnology) students must send their brief resume or profile (One Page) with seal and signature from respective department H.O.D then send to the following **E.mail Address** : **apbtloyola@gmail.com**, Selected Candidate will receive their confirmation mail, those who received confirmation mail can proceed the their registration procedures.

### Mode of Payment :

Payment should be made in the form of DD drawn in favour of "The Principal, Loyola College" payable at Chennai.

### Note :

The Completed Registration form along with the registration fee Rs.500/- (Demand Draft) should reach us on or before November 27, 2019.

Scanned copy of the Registration form along with Demand draft (DD) should be mailed to [apbtloyola@gmail.com](mailto:apbtloyola@gmail.com)