



ORGANIZING COMMITTEE

DST – SERB Sponsored
Workshop on
" MOLECULAR PHYLOGENETICS "
February 18th & 19th, 2020

Registration Form

Name :
Designation :
Department :
Aided / Self Financed :
Institution :
Mobile Number :
E – Mail Id :
Signature of the Faculty :

Signature of the Head of the Department :

Note :
The Completed registration form should reach us on or
before 12th February , 2020.

PATRONS

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

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

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

Dr. Melchias Gabriel
Deputy Principal

Convener

Dr. G. Jeya Jothi Assistant Professor

Organizing Committee Members

Dr. R. Ravindhran Head of the Department

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. Jaquiline Chinna Rani Assistant Professor

Mr. S. Karthik Assistant Professor

Address For Correspondence

Dr. G. JEYA JOTHI

Convener

Applied Plant Biotechnology Research Unit (JF - 09A)

Loyola College

Chennai - 600 034

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

DST - SERB Sponsored
Workshop on
" **MOLECULAR PHYLOGENETICS** "

February 18th & 19th, 2020



Convener

Dr. G. JEYA JOTHI

Organized by

Department of Plant Biology & Biotechnology

Loyola College, Chennai - 600 034

Let Your Light Shine

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. The UGC has elevated Loyola College to the status of "College of Excellence" for the period from April 1, 2014 to till date.

ABOUT THE DEPARTMENT

The Department of Plant Biology and Biotechnology sprouted in 1950 as a young Department of Botany; Rev. Fr. Alfred Rapinat.S.J., Rev. Dr. Pallithanam S.J. Mr. Rama Rao, Dr. T.A.Lourdusamy, Mr. Wilson, Mr. C.R. Babujee and Dr. S.J. Kingsley were 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, the 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, Loyola College - Times of India & DST-SERB. The Department conducts DBT sponsored training

teachers and research scholars in biotechnology. Some of our undergraduate students have become Entrepreneurs in Plant Tissue Culture, Production of Mushroom, Biofertilizers.

ABOUT THE EVENT

'Phylogenetics' is used to reconstruct the past evolutionary history of existing species or taxa based on morphological or molecular information. Phylogenetics is important because it enriches our understanding of how genes, genomes and species evolve and very useful for numerous applications like classification, identification of species, forensics, bioinformatics and conservation.

Currently, research in Plant Molecular Biology is attracting and increasing attention within the scientific and student communities due to its involvement in developing agricultural, chemical and pharmaceutical products. Also presently our college curriculum is reoriented towards modern technology of plant biology and biotechnology. Hence it is an emergent need for faculty to inculcate the molecular phylogenetic techniques to enrich the knowledge of the students as well as self to guide the research students. Thus the present workshop aims to provide hands-on training and demonstration on molecular phylogenetic analysis for faculty. The participating faculty could learn the basic principles of molecular phylogenetics and its applications in biology viz: different approaches to phylogenetic tree building such as Distance, Parsimony, Likelihood and Bayesian methods. Hands-on training and lectures will be given on DNA isolation, Polymerase Chain Reaction, Electrophoresis, Sequencing and Phylogenetic construction.

THE RESOURCE PERSONS

Dr. D. Narasimhan, Associate Professor (Retd.), Department of Botany, Madras Christian College, Chennai. Tamil Nadu, India.

Dr. R. Geeta, Professor (Retd.), Department of Botany, University of Delhi, India; Emerita, Ecology & Evolution, SUNY, Stony Brook, NY, USA.

PROGRAMME

Training includes

I. Molecular Techniques

DNA Isolation

DNA Gel Electrophoresis

Polymerase Chain Reaction (PCR)

II. Molecular Phylogenetics

Sequencing generation / Databasing

BLAST / Multiple Sequencing Alignment

Sequence Divergence statistics

Phylogenetic Tree Construction

REGISTRATION

Interested faculty (Botany / Plant biology and Plant Biotechnology / Biotechnology) from the colleges can send the filled in registration form to the following **E-mail Id : apbtloyola@gmail.com** on or before 12th February, 2020. Selected Faculty will be intimated on or before 14th February, 2020.

Registration Fee: Rs. 700/-

Pay the registration fee on 18th February, 2020 at the registration desk.

TRAINING KIT

The selected Participants will be provided with a Training kit along with the Laboratory Manual. Tea, snacks and Lunch will be provided.