



PSGR  
Krishnammal College for Women



# DEPARTMENT OF BOTANY

IN COLLABORATION WITH  
**GENOLITES PRIVATE LIMITED**

ORGANIZES  
**THREE DAYS INTERNATIONAL SEMINAR CUM WORKSHOP ON  
RECENT TRENDS AND PERSPECTIVES OF MODERN  
OMICS AND DRUGS DESIGN IN PLANT SCIENCE**

**DATE: 03.03.2025 To 05.03.2025**

**VENUE : Botany UG lab, PSGRKCW**

**REGISTRATION LINK:**

**<https://forms.gle/HnLYkzrs66C4sJun8>**



**NOTE: KINDLY NOTE THAT IF PAYMENT IS NOT POSSIBLE  
TODAY ,CAN BE COMPLETED TOMORROW.**

## **ABOUT THE COLLEGE**

PSGR Krishnammal College for Women, Coimbatore (KCW) was established in 1963 with a motto of 'Empowering Women through Education'. KCW is an autonomous institution, affiliated to Bharathiar University, Coimbatore. It is ranked #4 among colleges in the country in 2023 by the NIRF. The college is accredited by NAAC with the highest A++ grade, certified 'College of Excellence' by UGC. KCW is home to 8,500+ students and 425+ faculty members. The GRG-BIRAC E-YUVA Centre has been established as one of the ten centres in India with the support of BIRAC. The Centres of Excellence in Life Sciences, Material Sciences, Commerce professionals and Apparels, Made-ups and Home Furnishings are engaged in cutting-edge research in emerging fields of study. All the science departments have been recognised with 'Star Status' by the DBT. Interdisciplinary research in sciences is augmented through the support of the DBT BUILDER, DST-FIST, DST-CURIE. KCW has been recognised as a Nodal Training Institute under the Agri-Clinics & Agri-Business Centres (ACABC) programme launched by the Ministry of Agriculture and Farmers Welfare, Government of India, in association with NABARD. A Rural Women Technology Park (DST-sponsored) has been launched to empower women in rural areas through technology transfer and entrepreneurship. The College is a recognised Skill Satellite Centre under DSIR. Over the last 60 years, the GRG Brand has come to signify excellence in education in South India with more than 100,000 alumnae spread across 25+ countries around the globe.

## **Department of Botany**

Established in 1967, the Department began with the introduction of its undergraduate (UG) program. Over time, it evolved into a center for postgraduate education (MSc) and emerged as a Research Center for MPhil and PhD studies in Botany. Currently, the department comprises 13 faculty members, Recognized as a DST-FIST (Fund for Improvement of Science and Technology Infrastructure in Higher Educational Institutions) sponsored Department in 2009, it has been supported by the Star College Scheme/Status of DBT since 2012.

## **ABOUT THE SEMINAR CUM WORKSHOP**

With the rapid evolution of genomics, transcriptomics, proteomics, and metabolomics, plant scientists now have powerful tools to understand plant biology at a systems level. These insights help in improving crop traits, enhancing plant resistance, and identifying bioactive compounds for drug discovery. Furthermore, AI-driven approaches and computational drug design techniques are revolutionizing the identification of potential plant-derived pharmaceuticals.

This International Seminar Cum Workshop on "Recent Trends and Perspectives of Modern OMICS and Drug Design in Plant Science" aims to integrate experts, researchers, and students to explore the latest advancements in OMICS technologies and computational drug design in plant science.

## **REGISTRATION DETAILS**

The registration fee is ₹ 1000 for all the participants. All are requested to register their participation by filling in the registration form at the following link:

**REGISTRATION AND PAYMENT LINK** : <https://forms.gle/HnLYkzrs66C4sJun8>

### **Note:**

- **All the participants are requested to carry their own laptops.**
- **Only 50 participants will be accommodated for the seminar on a first-come, first-served basis.**

## RESOURCE PERSONS:



**Dr. Gothandapani Sellamuthu**  
Faculty of Forestry and Wood Science,  
Department of Forest Genetics and Physiology  
Czech University of Life Sciences, Prague, Europe



**Dr. M Arun**  
Assistant Professor,  
Department of Biotechnology,  
Bharathiar University, Coimbatore



**Prof Sambasivam Periyannan**  
Director,  
Australian Cotton Disease Collaboration  
( Virtual National Centre),  
Centre for Crop Health  
School of Agriculture and Environment Sciences  
University of Southern Queensland,  
Toowoomba, Queensland, Australia



**Mr. Karukuvel Raja**  
Founder & Director,  
Genolites Research and  
Development laboratory,  
Coimbatore

# Agenda

## Day 1 (03/03/2025)

- Inauguration
- Invited Lecture - Dr. Gothandapani Sellamuthu
- Title : Advanced Molecular Tools for Enhancing Plant and Insect Research: From \_\_\_\_\_ Fundamental Insights to Practical Applications

## **Workshop session I: Mr. Karukuvel Raja(Founder & Director, Genolites laboratory, coimbatore)**

- Fundamentals of Molecular Modeling
- Molecular Structure Preparation
- Molecular Docking
- Docking result analysis

## Day 2 (04/03/2025)

- Invited Lecture- Dr. M Arun
- Title: Plant genome editing using CRISPR systems

## **Workshop session II: Mr. Karukuvel Raja(Founder & Director, Genolites laboratory, coimbatore)**

- Fundamentals of Molecular Dynamics Simulation
- Preparing Molecular Dynamics Simulation and Execution

## Day 3(05/03/2025)

- Invited Lecture - Dr. Sambasivam Periyannan
- Title : Genomics and transcriptomics to understand crop-pathogen interactions

## **Workshop session III: Mr. Karukuvel Raja(Founder & Director, Genolites laboratory, coimbatore)**

- Post-MD Analysis & Visualization
- Research Plan for Drug Discovery

## ORGANIZING COMMITTEE

### Convener:

**Dr.C.Krishnaveni, Associate Professor and Head,**  
Department of Botany, PSGR Krishnammal College for Women, Coimbatore.

### Organizing Secretaries:

**Dr.K.Gajalakshmi, Associate Professor,** Department of Botany,  
PSGR Krishnammal College for Women, Coimbatore.

**Dr. S. Subhashini, Assistant Professor,** Department of Botany,  
PSGR Krishnammal College for Women, Coimbatore.

### Organizing Committee :

- Dr. M. Kamalam, Associate Professor
- Dr. M. Kanchana, Associate Professor
- Dr. K. S. Tamilselvi, Associate Professor
- Dr. H. Rehana Banu, Assistant Professor
- Dr. B. S. Chithra Devi, Assistant Professor
- Dr. R. Sumathi, Assistant Professor
- Dr. E. Uma, Assistant Professor
- Dr. K. Kiruthika, Assistant Professor
- Dr. K. Sunitha Kumari, Assistant Professor
- Dr. Sarah Jaison, Assistant Professor

*For More Details, Contact:*

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