



ST. XAVIER'S COLLEGE (AUTONOMOUS)
PALAYAMKOTTAI - 627 002
(Recognized as "College with Potential for Excellence" by UGC &
Accredited by NAAC at A++ Grade with a CGPA of 3.66 out of 4)



ANNUAL REPORT 2022-2023
PLANT MOLECULAR BIOLOGY RESEARCH UNIT

In charge: Dr. T. Leon Stephen Raj

The Plant Molecular Biology Research Unit was established in 2001 with the view to promote Molecular Biology research in plants. PMRU is working in diverse research areas of plant science including aquatic Molecular Assessing, Molecular characterization of plants, Micro anatomy and Karyotyping of ferns, Microbial based drug synthesis, Compound improvising, Crop plant improvements via Microbes and Microalgae Culture and Characterizations and all come up with Bioinformatics and Statistics. Currently studies are being carried out for the Screening and Use of Plant Growth Promoting bacteria in Tomato plants in *in-vivo*. Additional importance is given to assess the genetic variability in treated individuals and micro-biomes with supplements. In this academic year, Ms. A. Antony Selvi has successfully defended her thesis and two research scholars have submitted their Ph.D. theses. Three research articles were published in national and international journals. The Research Scholars of the centre participated in five webinars and training programs. More than eight research articles are presented in International conferences. Our facilities include PCR, Gel documentation system, Microscope with photomicrograph facility and Centrifuges are used by the scholars from the nearby colleges too.