



Department of Zoology
St. Xavier's College (Autonomous)
Palayamkottai, Tamil Nadu

In collaboration with



AviGen BioTech Pvt. Ltd.,
Chennai

Sponsored by



Tamilnadu State Council for
Science and Technology

TWO-DAY WORKSHOP ON "BASIC TECHNIQUES IN ANIMAL CELL CULTURE"

Date: 12 & 13, September 2024

WORKSHOP HIGHLIGHTS

- ◆ Overview of cell culture laboratory, equipment and applications
- ◆ Aseptic techniques and good cell culture practice
- ◆ Specific composition and preparation of cell culture medium
- ◆ Microscopic observation of cell line
- ◆ Passaging and maintenance of cell line
- ◆ Cell counting using trypan blue exclusion method
- ◆ In vitro anticancer activity against cancer cell line
- ◆ Handling of ELISA plate reader and interpretation of MTT assay results
- ◆ Apoptosis analysis using fluorescence microscopy
- ◆ ROS analysis using fluorescence microscopy

TARGET AUDIENCE

Faculty / Researcher / PG student
(Limited to 30 seats only)

SALIENT FEATURES

- ◆ Skilled resource persons to provide lectures and laboratory training
- ◆ Demonstration and hands-on exposure to every participant
- ◆ Certificate of participation
- ◆ Working lunch, workshop kit and manual
- ◆ On-campus accommodation on prior request (250 INR)

REGISTRATION

Link: <https://forms.gle/tDEUgVZaJAWocVm99>

Fee: 1500 INR (GPay: 9600550844)

Last date: 6th September, 2024

Contact

Dr. S. Mabel Parimala

Organizer - 96005 50844

Dr. R. Azhagu Raj

Co-organizer - 82207 32024

Dr. P. Raja

Convener & Head - 99408 37769

OUR PATRONS

Rev. Fr. Dr. S. Ignacimuthu, S.J.

Rector

Rev. Fr. Dr. G. Pushparaj, S.J.

Secretary

Rev. Fr. Dr. Godwin Rufus, S.J.

Principal



ABOUT ST. XAVIER'S COLLEGE

St. Xavier's College was established at Palayamkottai in 1923 by Jesuit Fathers of the Jesuit Madurai Province with an aim of preparing generations of students for a happy, healthy and harmonious life. The motto of the college is Veritate Lumen et Vita (Light and Life through Truth). It is a grant-in-aid institution recognized by the UGC Act under sections 2(f) and 12(B). The college is affiliated to the Manonmaniam Sundaranar University. In recognition of its service and excellence, the college was granted autonomy in 1987. The UGC awarded the status "College with Potential for Excellence" in 2004 and again in 2010, 2014 and 2019. The NAAC accredited at A++ grade with a CGPA of 3.66 out of 4 in IV cycle in 2019. STAR College scheme has been awarded by DBT, Govt. of India. The college stands 36th in College Category 2024 NIRF ranking. Today more than 4500 students study in 27 post-graduate and under-graduate departments. Doctoral research is carried out in 12 departments. With great joy and pride the college triumphantly marches towards 102nd year.

ABOUT THE DEPARTMENT OF ZOOLOGY

The Department of Zoology was started in 1927 when the subject was taught to the intermediate students. B. Sc. Degree program was started in 1957 and upgraded to M. Sc. In the year 1979. The department was recognized as a research department in 1985 with Ph. D. program and M. Phil. program is offered since 1986. In the year 2003 and 2018, the department was recognized as DST-FIST sponsored department. In 2014, the department was included under STAR-College Department Scheme offered by the Department of Biotechnology, Ministry of Science and Technology Govt. of India. The department in 2018 celebrated its Diamond Jubilee commemorating its 60 successful years. At present, the faculty members have individual laboratories and guide research scholars for their doctoral degree and work in areas of basic and applied aspects of applied zoology, aquaculture, agriculture zoology, medical entomology, insect immunology, wildlife biology, phytochemistry and pharmacology.

ABOUT AVIGEN BIOTECH

AviGen BioTech Pvt Ltd. is a government certified multidimensional Biotech Research Centre, located in Chennai, Tamil Nadu. It undertakes academic research in the frontier areas of life sciences and medicine. It leads significantly in the development of the human resources needed to bridge gap between the academic and bio technological industries. It also conducts and coordinates creative and personalized trainings, organize seminars, symposia and scientific workshops for students doing B.Tech., M.Tech., B.Sc., M.Sc., B.Pharm., M.Pharm., M.Phil., Ph.D. Research Scholars and Faculties. It is actively involved in testing and outsourcing services, contract research, product design and manufacturing and is equipped with core instrumentation facilities.

ABOUT THE WORKSHOP

Conducting a workshop on basic techniques in animal cell culture is of immense significance, especially for students, researchers, and professionals in the life sciences. This hands-on training provides participants with essential skills for growing and maintaining animal cells under controlled laboratory conditions, a foundational technique in biomedical research, biotechnology, and pharmaceutical development. By mastering these techniques, participants can contribute to advancements in areas such as drug discovery, cancer research, and regenerative medicine. Moreover, the workshop encourages precision, critical thinking, and adherence to sterile practices, which are crucial for successful experimental outcomes and reproducibility in scientific research.

ABOUT TIRUNELVELI

Also known as Nellai, is a major city located in the south-west Tamil Nadu. The down town is on the west bank of Thamirabarani river and its twin Palayamkottai is on the east bank, renowned as the Oxford of South India being a hub of many schools and colleges. The city is famous for its historical monument – Nellaiappar temple, iconic sweet Iruttukadai halwa, and the only perennial river of the state – Tamirabarani having its origin from Pothigai hills of the Western Ghats with seven major tributaries draining 4400 sq.km crossing Karaiyar, Papanasam reservoirs and seven dams making nine waterfalls in its course and with its scenic Mundanthurai reserve forests, Manjolai hills, Agasthiyamalai biosphere reserve, Kalakkadu reserve forests and Kutralam hills that harbours rich biodiversity. Tirunelveli is well-connected by road, rail and air with nearest airport Tuticorin (22 km). Port city Thoothukudi (50 km) and India's end Cape Comorin Kanyakumari (70 km) are notable tourist destinations in vicinity.

Organizing Team

Dr. K. Sahayaraj

Dr. A. Jeyaseeli

Dr. J. Ronald

Dr. P. Selvaraj

Dr. J. Babila Jasmine

Dr. T. Pushpanathan

Dr. R. Santha Kumari

Dr. T. Elizabeth