

**Faculty Training Programme  
on  
Techniques in Genome Biology  
(8.02.2023 to 10.02.2023)**

**PROGRAMME**

**Day 1: 8.02.2023 – 9.00 a.m.to 4 p.m.**

**Inauguration**

Welcome Address: Dr. N. Arokiya Mary,  
Head and Associate Professor of Zoology

Inaugural Address: Dr. Sr. Kulandai Therese,  
Deputy Principal,  
St. Mary's College (Autonomous), Thoothukudi

Topic: **Identification and Screening of Plant Viral Genome**

Resource Person: Dr. T. Jebasingh  
Assistant Professor,  
Dept of Plant Sciences,  
School of Biological Sciences,  
Madurai Kamaraj University



**Day 2: 9.02.2023 – 9.00 a.m.to 4 p.m.**

Topic: **Molecular Characterization of Microbial Genome**

Resource Person: Dr. Sujatha Kabilan,  
Assistant Professor,  
Lady Doak College,  
Madurai



**Day 3: 10.02.2023 – 9.00 a.m.to 4 p.m.**

Topic: **Isolation and Quantification of Human genomic DNA**

Resource Person: Dr. M. Jayalakshmi,  
Dept of Immunology  
School of Biological Sciences,  
Madurai Kamaraj University



**For Registration** →



### **About the College**

St. Mary's College (Autonomous), a catholic institution of higher education for women founded in 1948, plays a significant role in shaping the destiny of innumerable young coastal women in and around Thoothukudi. With a proud legacy of 74 years, the college has excelled in every discipline, keeping pace with the global trends in academia. The college, affiliated to Manonmaniam Sundaranar University, Tirunelveli, offers graduate, post-graduate, M.Phil., and Ph.D., programmes in various disciplines and has attained Autonomous Status in the year 2009. Recognizing the great potential within the campus, the NAAC has reaccruited the institution with 'A+' grade in its fourth cycle. A holistic education with an overall personality development is ensured by involving students in academic, curricular and co-curricular activities. The motto of the college is FIDE VIVANT (Live by Faith).

### **About DBT STAR College Scheme**

Star College Scheme has been initiated by the Department of Biotechnology (DBT) in 2008 to support colleges and universities offering undergraduate education to improve science teaching across the country. DBT identifies colleges with ambition and potential for excellence and provides academic and physical infrastructure for achieving excellence in teaching and unique exposure of students to experimental science. Department has supported around 200 undergraduate colleges across the country in the past 9 years. Star College scheme was sanctioned in March 2019. Four departments of the college namely Physics, Chemistry, Botany and Zoology have been recommended by the Department of Biotechnology (DBT), Ministry of Science & Technology, Government of India, New Delhi, to receive financial assistance under the Star College Scheme.

### **About the FTP**

With most of the genomes being completely sequenced, the direction of research in life sciences has been geared towards analyzing the organisms at the genome level. The holistic approach to looking into organisms has ended up in the evolution of a new branch of life science "Genomics". The biotechnology research paradigm has been shifting from DNA to gene to the genome to proteome. Analyzing genomes and their functions have been made possible only by the various high-throughput techniques that are applied in these fields. A thorough knowledge of the basics and skilled training on these techniques have become mandatory to pursue a career in the field of biotechnology. The techniques are not only necessary for teaching and learning purposes but also have become obligatory to most of the research work taken by the faculties in their institutes. The faculty training program aims to impart hands-on training on basic experiments in plant genomics, microbial genomics and immunogenomics.



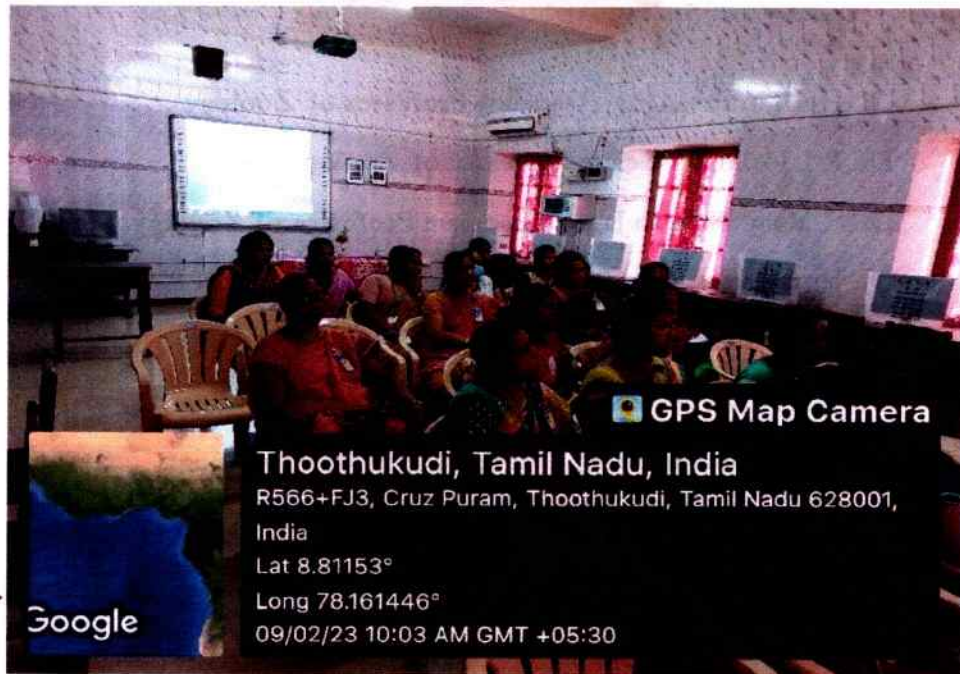
## ORGANIZING COMMITTEE

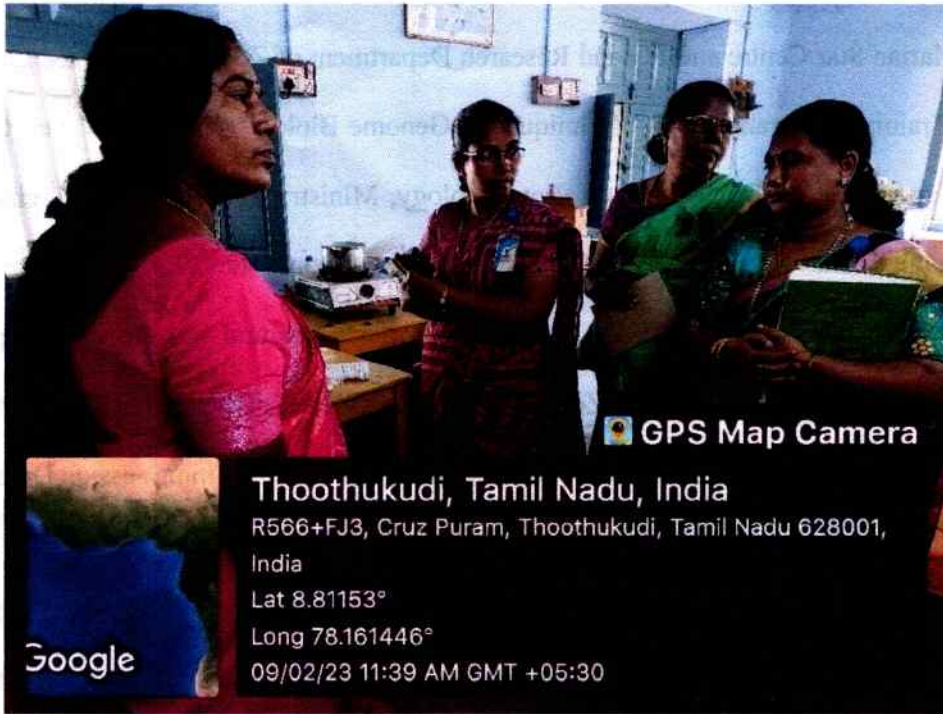
Patron	Dr. Sr. C. Shibana, Secretary, St. Mary's College (Autonomous), Thoothukudi
Chairman	Dr. Sr. A.S.J. Lucia Rose, Principal, St. Mary's College (Autonomous), Thoothukudi
Overall Coordinator	Dr. Sr. Arockia Jenecius Alphonse Assistant Professor of Botany
Convener	Dr. N. Arokiya Mary, Head and Associate Professor of Zoology
Department Coordinator	Dr. R. Sri Priya Assistant Professor of Zoology

## ORGANIZING TEAM

- Dr. Hermin Pasangha, Associate Professor of Zoology
- Dr. P. J. Joslin, Associate Professor of Zoology
- Dr. S. Mary Baptista Janet, Associate Professor of Zoology
- Dr. Jemma Hermelin Jesy Diaz, Assistant Professor of Zoology
- Dr. S.R.T. Sherly Cross, Assistant Professor of Zoology
- Dr. S. Selvi, Assistant Professor of Zoology
- Dr. M. Paripooranaselvi, Assistant Professor of Zoology
- Dr. P. Subavathy, Assistant Professor of Zoology
- Ms. T. Esther Elsie, Assistant Professor of Zoology

Photos





## **Report**

Marian Star Centre and PG and Research Department of Zoology organized three-day Faculty Training Programme on “Techniques in Genome Biology” under DBT Star College Scheme, sponsored by Department of Biotechnology, Ministry of Science and Technology, New Delhi from 8.02.2023 to 10.02.2023. On Second day of the programme, Dr.SujathaKabilan, Assistant Professor, Lady Doak College, Madurai was the resource person. Dr. P.J.Joslin, Associate Professor of Zoology, St. Mary’s College (Autonomus), Thoothukudi, introduced the resource person and welcomed the gathering. In the morning session Dr. Sujatha Kabilan delivered a lecture on Molecular Characterization of Microbial Genome. She gave a short introduction on PCR , types of PCR, protocol for PCR, preparation and loading of Agarose gel. She encouraged the participants to operate the PCR and to load the gel. She also explained about the Biopolymers and its advantages. In the afternoon session Dr.A. Mahalakshmi, Assistant Professor, Lady Doak College, Madurai was the resource person. She gave a talk on 16srRNA Based Characterization of Microbes from Environment and its Taxonomical Authentication using Insilico Analysis. The session focused on the BLAST, sequence alignment, submission of gene sequence and construction and interpretation of phylogenetic tree. Dr. Jemma Hermelin Jesy Diaz, Assistant Professor of Zoology, St. Mary’s College (Autonomus), Thoothukudi, proposed the vote of thanks. This faculty development programme enriched the knowledge of faculties and developed skills on various techniques in Biotechnology. 12 faculties participated and benefited out through this programme.

## Certificate



*N. Arokiya Mary*  
Head of the Department

**Dr. N. AROKIYA MARY** M.Sc., M.Phil., Ph.D.  
Associate Professor & Head  
PG & Research Department of Zoology  
St. Mary's College (Autonomous)  
Thoothukudi - 628 001.

*B. Serena Margaret*  
IQAC Coordinator

**IQAC Co-ordinator**  
**St. Mary's College (Autonomous)**  
**Thoothukudi**

*Lucia Rose*  
Principal

**St. Mary's College (Autonomous)**  
**Thoothukudi-628 001.**