MARY MATHA
COLLEGE OF ARTS AND SCIENCE (Co-Ed)

Accredited with B++ Grade by NAAC in First Cycle

Affiliated to Madurai Kamaraj University | A College Managed by CMI Fathers

Approved by UGC Under Section 2(f) Status | An ISO 9001:2015 Certified Institution

Nallakaruppanpatty, Periyakulam East, Theni Dt. 625 604, Tamil Nadu, India.

Department of Biotechnology

Ribozol Club organizes

One-day Workshop

on

Skill-Building Programme on Bioinformatics Applications in Biotechnology

Resource Person



Dr. KRISHNAGOWDU SARAVANAN, Ph.D.,

Co-ordinator - Research and Development Council

Assistant Professor - Post Graduate and Research Centre in Biotechnology

School of Life Sciences

Arignar Anna College (Arts & Science)

Krishnagiri – 635 115 Tamil Nadu, India

December 20, 2025 | At 10 AM

Venue: Tagore Hall

ABOUT MARY MATHA COLLEGE:

Mary Matha College of Arts and Science is managed by "BODHI NIKETAN TRUST" formed by the member of St. Joseph Province of the Carmelites of Mary Immaculate (CMI), the first indigenous religious congregation in India. This congregation is an embodiment of the dream and vision of Saint Kuriakose Elias Chavara who was a nineteenth Century educationalist and social reformer in India. The CMI congregation with a membership of 3000 renders its services to humanity in educational, social, healthcare, and other activities aiming at the prosperity and well-being of society. Mary Matha College campus is situated below the valley of Kodaikanal Wildlife Sanctuary with fresh air and a pleasant environment. The college is affiliated with Madurai Kamaraj University. It is an ISO 9001: 2015 certified institution and also approved by UGC 2(f) status. Though Mary Matha College is a minority institution, it strives to impart quality education without distinction of religion, caste, or creed.

ABOUT THE DEPARTMENT:

The Department of Biotechnology was established in 2008 with the aim of imparting scientific innovations and creativity to students in rural areas. The department offers the U.G. program and is staffed with qualified, experienced faculty members with academic and research backgrounds. Moreover, the department has fully equipped laboratories for molecular biology, biochemistry, and molecular genetics. Immunology and plant & animal biotechnology practices.

ABOUT THE WORKSHOP:

This programme offers hands-on training in essential bioinformatics tools used in biotechnology. Participants learn sequence analysis, database usage, protein structure visualization, and basic computational workflows applied to real research problems. The sessions focus on practical skills that support work in molecular biology, genetics, and biotechnological research.

What will you learn?

- Nucleotide sequence retrieval system.
- Sequence alignment.
- Protein structure visualisation tools.
- Protein family, and domain analysis.
- Promotersequence analysis.
- Protein characterization analysis.
- Protein homology modelling.
- Ramachandran plot analysis for the built-up protein model.
- Primer designing tools.
- Recent trends in bioinformatics analysis - CRISPR mediated analysis (guide RNA designing and validation).

Organizing Committee

Convener

Dr. G. Pothiaraj
Head and Assistant Professor,
Dept. of Biotechnology

Organizing Secretary

Dr. D. Kasthuri Santira Kumari,
Assistant Professor, Dept. of Biotechnology

Coordinators

Dr. J. Jenifer Annis Christy,
Ass. Prof., Dept. of Biotechnology

Mrs. J. Augostriena
Ass. Prof., Dept. of Biotechnology