Vision and Mission

In this workshop, students will be introduced to a comprehensive range of techniques, including:

- ANALYTICAL METHODS

Mastery of cutting edge analytical tools and methodologies

- DATA INTERPRETATION

Skills for effectively interpreting complex data sets

- INNOVATIVE PROBLEM SOLVING

Strategies for approaching and solving unique challenges

These techniques aim to equip students with the knowledge and skills necessary to excel in their respective fields.

INAUGURAL ADDRESS

PROF. M.KRISHNAN

HONOURABLE VICE CHANCELLOR

ORGANISING SECRETARY

DR. JAYALAKSHMI KRISHNAN
ASSISTANT PROFESSOR
jayalakshmi@cutn.ac.in

ORGANISING TEAM

DR. S. VIDHUSHINI
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DR. M. PRADEEPA
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Registration Link: https://forms.gle/FE9L1EtbhrB7WvCQ7

CENTRAL UNIVERSITY OF TAMILNADU
SCHOOL OF INTEGRATIVE BIOLOGY
DEPARTMENT OF BIOTECHNOLOGY

One-Week Hands-on Workshop on Advanced Techniques in Biotechnology

06/01/25 TO 11/01/25

Program Schedule

PROF. S. KATHIRESAN

PLANT GENOMICS AND METABOLIC REGULATION RESEARCH LAB

- Sensitivity test for plants against Kanamycin and Hygromycin
- Agrobacterium mediated transformation in plants using co-cultivation method
- Confirmation of genetic transformation

DR. MEGANATHAN KANNAN

BLOOD AND VASCULAR BIOLOGY RESEARCH LAB

- Platelet functional Analysis by Aggregometry
- Apoptotic analysis by Flow Cytometry
- Mutation screening by CSGE

PROF. J. RAJESH BANU

ENVIRONMENTAL BIOTECHNOLOGY AND BIOPROCESS RESEARCH LAB

- Green Synthesis of Nanoparticles and its characterization using FTIR
- VFA production by anaerobic fermentation and its Quantification using HPLC

DR. JAYALAKSHMI KRISHNAN

VECTOR BIOLOGY RESEARCH LAB

- Amplification of COI region from dengue vector using PCR
- Molecular investigation for the presence of virus in mosquitoes

PROF. E. M. SHANKAR

INFECTION AND INFLAMMATION RESEARCH LAB

- PBMCs (Peripheral Blood Mononuclear Cells) extractions for use in flow cytometry (FACS)
- Data Interpretation

DR. RAJESH PARSANATHAN

INTEGRATED BIOMED RESEARCH LAB

- Introduction to Network Pharmacology and its Applications
- Constructing Drug-Disease Interaction Networks
- Gene - Protein Interaction Mapping for Drug Target Identifications
- Pathway Enrichment Analysis in Network Pharmacology

Eligibility

Final year Master students of Life Sciences and allied fields.

Venue

HGK Block, Department of Biotechnology, Central University of Tamil Nadu, Thiruvarur 610 005

DEADLINE: DECEMBER 20, 2024

***REGISTRATION FEE: NIL**

***ACCOMMODATION AND FOOD WILL BE AVAILABLE WITH SEPARATE CHARGES**

Experiment, Innovate, Succeed: Biotechnology Bootcamp