



SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

Accredited with "A" grade by NAAC
Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600 119, Tamil Nadu, India.



CERTIFICATE & HANDS ON TRAINING COURSE ON BASIC TECHNIQUES IN CELLULAR & MOLECULAR BIOLOGY

Dates 10th to 20th December 2018
Venue: Col. Dr. Jeppiaar Research Park
Sathyabama Institute of Science and Technology

ORGANIZED BY



COL. DR. JEPPIAAR RESEARCH PARK
CENTRE FOR OCEAN RESEARCH
(DST-FIST Sponsored Centre)
MoES – ESTC (Marine Biotechnological Studies)
Sathyabama Institute of Science and Technology
Chennai - 600 119, Tamil Nadu, India

About the course:

The Course is aimed for students, scholars and researchers of biotechnology, bioinformatics, chemistry, and life sciences at undergraduate and postgraduate level. It will cover basics of cellular and molecular tools and techniques, in a practical manner, through lectures and hands on training. Some advanced topics on Next Generation Sequencing techniques will also be discussed.

Registration fee:

For Students : INR 5000
For Post Docs, Academicians and Faculties : INR 6000

Topics covered on the workshop:

Module 1	Bacterial genomic DNA isolation, quantification using Nanodrop, DNA agarose gel electrophoresis and Visualization through Gel documentation.
Module 2	Silver nanoparticles synthesis (Biological and Chemical method), Chitosan nanoparticles synthesis, Separation of nanoparticles from colloids using lyophilizer for further applications.
Module 3	Protein extraction, isolation, quantification using Nanodrop and separation using SDS-PAGE electrophoresis method
Module 4	16s rRNA Sequence submission in NCBI, Drawing phylogenetic tree using MEGA, Primer designing tools. Basics of whole bacterial genome sequencing and metagenomic studies.
Module 5	Polyhydroxybutyrate synthesis in microorganisms, Melanin synthesis in microorganisms, identification of PHB through fluorescence microscopy and fluorescence spectroscopy.
Module 6	Extraction of bioactive compounds, separation using TLC and identification of novel compounds using GC-MS.

PATRONS

Dr. REMIBAI JEPPIAAR
CHANCELLOR

Dr. MARIAZEENA JOHNSON
PRO CHANCELLOR

Dr. MARIE JOHNSON
PRESIDENT

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

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Chair Person & Organising Secretary
DR. B. SHEELA RANI
DIRECTOR (RESEARCH)
COL. DR. JEPPIAAR RESEARCH PARK

Convener
Dr. D. INBAKANDAN
Scientist – E
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Co- Convener
Dr. RADHIKA RAJASREE S. R.
Scientist – F, Head
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For further details contact Convener:

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