SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
Accredited with Grade "A" by NAAC
Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600 119, Tamil Nadu, India.

INTERNSHIP *CUM* TRAINING ON MARINE MICROBIAL TECHNOLOGY

Dates: 02nd to 16th May 2019

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 molecular tools and techniques, in a practical manner, through lectures and hands on training. Advanced topics on Next Generation Sequencing techniques will also be discussed.

REGISTRATION FEE:

For Students & Research Scholars : INR 3000
For Post Docs, Academicians and Faculties : INR 4000

MODULE INSTRUCTORS:

- Kumar Chandrasekaran, Scientist - B
- Thirugnana Sambandam, Scientist - B
- Mohammed Riyaz, NPDF
- Kavitha Ganapathy, NPDF
- Subashni Bhoopathy, SRF
- Dhinakarasamy Inbakandan, Scientist - E

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 phylogenic 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 though fluorescence microscopy and fluorescence spectroscopy.
Module 6	Extraction of bioactive compounds, separation using TLC and identification of novel compounds using GC-MS.

PATRONS

Dr. MARIAZEENA JOHNSON
CHANCELLOR

Dr. MARIE JOHNSON
PRESIDENT

Dr. S. SUNDAR MANOHARAN
VICE - CHANCELLOR
SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

ORGANIZING SECRETARY
DR. B. SHEELA RANI
DIRECTOR (RESEARCH)

CONVENER
Dr. D. INBAKANDAN
Scientist – E, Associate Professor

CO- CONVENERS
Dr. RADHIKA RAJASREE S. R.
Scientist – F, Professor
Mr. C. KUMAR
Scientist – B
Mr. R. THIRUGNANA SAMBANDAM
Scientist – B

For further details contact Convener:
Dr. D INBAKANDAN, Scientist – E / Associate Professor, Centre for Ocean Research,
Sathyabama Institute of Science and Technology, Chennai - 600 119, Tamil Nadu, India.
Official : inbakandan@sathyabama.ac.in