



Faculty Development Program



VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

Title : Microplastics as an emerging pollutants

Event Outcome

- Participants will gain insight into the recent emerging pollutants of plastics

Date : 2024-11-15 - 2024-11-15

Time : 10:00 - 17:30

Venue : CBMR 205



Resource Person 1 - Details

Name : Dr S Sahabudeen

Designation : Associate Professor and Head, Cellular and Molecular Neuroscience Pharmaceutical Biotechnology Molecular Immunology

University/ Company : SRM Chennai, Chennai

Address : Chennai , 603203.



Resource Person 2 - Details

Name : Dr Sundramanikam

Designation : ASSOCIATE PROFESSOR, CAS IN MARINE BIOLOGY

University/ Company : Annamali University , Parangipettai

Address : Parangipettai, 608002.



Resource Person 3 - Details

Name : Dr Vinay

Designation : Professor, Saveetha Medical College and Hospital

University/ Company : Saveetha Medical College and Hospital, Chennai

Address : Chennai, 602105.



Resource Person 4 - Details

Name : Dr Abdel

Designation : Professor , National Research Centre

University/ Company : National Research Centre, egypt

Address : Egypt, 632009.

Resource Person's Profile :

1. Profile of Dr S Sahabudeen

A biotechnologist striving to achieve a sustainable and safe environment by addressing environmental toxins such as micronano plastics, multi drug resistant organism in environment. *Drosophila melanogaster* and other aquatic models are used as a model organism to study the behaviour and physiology after toxin exposure. In Charge of EBP-SRMIST lab, an international industry sponsored lab for research and consultancy work on environmental aspects.

2. Profile of Dr Sundramanikam

Has more than 50 publications in peer reviewed journals. Completed 2 research projects and completed two projects

3. Profile of Dr Vinay

Prof. Vinay Kumar is an eminent researcher in biomaterials, emerging environmental toxicants, and tissue engineering. Prof. Vinay completed his Ph.D. in biotechnology at the School of Biotechnology, Jawaharlal Nehru University, New Delhi, India, one of India's premier institutes. He worked as a postdoctoral Fellow in several countries overseas. In addition, he completed a SERB research grant worth INR 2.25 million at the Indian Institute of Technology Roorkee. Moreover, he delivered lectures as

4. Profile of Dr Abdel

Dr. Mossa obtained his Ph.D. degree from Alexandria University in the field of pesticide chemistry and toxicology. Dr. Mossa research interest includes green pesticides, nanoformulations, nano pesticides, and bioassay-guided fractionation (BGF) for investigating botanical monitoring of toxic living organisms, mammalian toxicology, evaluating risks and hazards of environmental toxicants, detoxification, and environmental remediation approaches. He is the PI of several projects funded by the Nati

The increasing presence of microplastic pollution is a worldwide environmental threat, requiring focused efforts to mitigate its consequences. The proposed FDP examines the various aspects of microplastic issues, such as their origin, dispersal, and impact on both the environment and human health. The FDP discusses the global dispersion, toxicity, and abundance of microplastics in various ecosystems. A look at their influence on marine life followed by modern techniques for their identification and elimination. Moreover, novel approaches to microplastics degradation and the impacts of soil contamination, which have a substantial influence on the well-being of ecosystems. The program addresses the challenges associated with controlling microplastic contamination, proposing solutions specifically focused on agriculture and food safety. It investigates the connections between microplastics, soil health, and crop development. This program aims to provide educators and researchers with valuable insights and resources, encouraging them to actively address the issue of microplastics in order to work towards a sustainable future.

Not Applicable

**Coordinator's: Prof. JOHN THOMAS 13638 - Associate Professor Grade 2 - CNBT
Prof. KRISHNA RAO ESWAR N 20206 - Associate Professor Grade 1 -
CNBT**