



DST-SERB KARYASHALA



One Week High End Workshop  
on

## Plant Bioprospecting - Analytical Techniques, Sustainable Practices & Opportunities

20 - 26 March 2024  
@ KSCSTE-MBGIPS  
Kozhikode



### KSCSTE - MALABAR BOTANICAL GARDEN AND INSTITUTE FOR PLANT SCIENCES

GA College P.O., Kozhikode - 673 014, Kerala  
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One Week High End Workshop on  
**Plant Bioprospecting- Analytical Techniques,  
 Sustainable Practices & Opportunities**

### About the Workshop

Bioprospecting, also known as biodiversity prospecting, is the exploration of biological material for commercially valuable genetic and biochemical properties. In simpler terms, this involves exploring living organisms to determine their potential commercial value to humans. India has the potential to benefit economically and in conservation due to its rich biodiversity.

To achieve the broad objective, researchers must stay updated with modern analytical techniques in bioprospecting while prioritizing conservation. The one-week hands-on training aims to equip biotechnology researchers with analytical approaches and contemporary research tools necessary for various stages of bioprospecting. Hands-on sessions on bioinformatics tools, including sequence editing alignment, etc, useful for researchers in plant sciences, are also planned. Further, the training will bring together experts in biotechnology, phytochemistry and plant sciences to highlight the field's prospects and facilitate biodiversity conservation practices.

The workshop will consist of lectures and practical sessions covering multiple aspects of biotechnology, which in general include:-

- Biodiversity: Rules and Regulations Including IPR
- Ecological Niche Modelling and Its Applications in Biodiversity Conservation
- Genomics and Metabolomics
- Extraction, Purification and Analysis of Bioactive Compounds
- Plant Genomic DNA Isolation and Characterization

- Phytochemical Analysis of Plant Extract and Essential Oil
- Screening of Plant Extracts/Essential Oils for Antimicrobial and Antioxidant Properties

### Organising Committee

#### Advisory Board

Prof. K P Sudheer, Executive Vice Presidents, KSCSTE

Prof. A K Pandey, Former Professor, Dept. of Botany Delhi University & Chairman, Research Council, KSCSTE-MBGIPS

Prof. M. Sabu, Emeritus Scientist, KSCSTE-MBGIPS

#### Convenor

Dr. N S Pradeep, Scientist-in-Charge, MBGIPS

#### Co-Ordinator

Dr. Jaya Jacob, Scientist, KSCSTE

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**Who can Apply:** PG Students, Research Scholars, Young Faculty Members

**Registration Fee:** Nil (*Selected participants will be provided travel assistance restricted to sleeper class, food & accommodation during workshop days*).

### Important Days to Remember

Workshop Dates : 20 to 26, March 2024

Last Date of Application : 14 March 2024

Intimation of Selection : 15 March 2024

**Registration form: Click the link or visit Website**



<https://forms.gle/ioVkFXyhwaWtE5A27>