



SERB Sponsored
Two day online workshop
on

**“DNA Isolation, Diversity
Assessment and Analysis using
ISSR markers in plants”**

under

SERB Scientific Social
Responsibility Policy

(11th & 12th February, 2022)

Google Meet Platform

Objectives of the Workshop:

The workshop aims at exposing faculty members of colleges to DNA isolation technique, its working & application. Besides, the participants will be acquainted with sophisticated instruments used in DNA isolation and analysis such as Thermal cycler, Spectro-photometer, Gel electrophoresis and Gel Documentation Systems and also with software used in genetic diversity analysis.

Experiments to be performed:

1. Genomic DNA Isolation from leaf tissue.
2. Agarose Gel Electrophoresis
3. Qualitative and quantitative analysis of genomic DNA
4. PCR Amplification using ISSR markers
5. Separation of amplified products using electrophoresis and scoring of bands
6. Intra- and inter-specific diversity analysis using data on scored bands and by employing software.

About the Host Institution:

The Department of Botany (UGC-SAP DRS-I and DRS-II), University of Jammu established in 1998, has earned a name as an important centre of studies in Botany in the country. It has the expertise and infrastructure to help students opt for getting advanced training in many areas of specialization such as Reproductive Biology, Cytogenetics, Mycology and Plant Pathology, Mushroom Diversity and Cultivation, Biosystematics, Ecology, Tissue Culture, Bryology and Stress Physiology. While the contributions have been tremendous in the understanding of fundamentals of Plant Sciences, the Department has also kept pace with the changing national priorities. The Department has a sprawling Botanical Garden and a unique Cactus Garden spread over an area of more than 8 acres, which are an abode to plant species from various categories like RET, medicinal and aromatic plants, succulents etc. The herbarium cum museum has maintained more than 13,000 specimens of different plant taxa. Department of Botany is regularly conducting refresher courses and workshops for faculty members of colleges for providing the advanced updates and giving them training in latest techniques.

Who Should Participate?

Faculty members of the colleges of Jammu and Kashmir

How to register:

Apply by filling the Google registration form at the following web link:

https://docs.google.com/forms/d/e/1FAIpQLSf-WSnVUi9chE2iHpXtOyTuqRt5joLW3WQkfUJ6v_P4cKXOLw/viewform?usp=pp_url

Maximum Seats:

25

Selection Process:

First come first served

Registration Fee:

Nil

Organizing Secretary:

Dr. Geeta

Assistant Professor,
Principal Investigator,
SERB Project on “Assessment of
cytological, biochemical and
molecular variability in *Viola*
species from Jammu and Kashmir”

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Convener:

Prof. Veenu Kaul

Head

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