



"Hands-on-training"  
(May 3- May 7, 2024)

on

*In vitro* approaches to  
micropropagation and metabolic  
profiling of medicinal plants

**Organized by**

**DEPARTMENT OF BIOLOGICAL  
SCIENCES, COLLEGE OF BASIC  
SCIENCES & HUMANITIES**

**Chief patron**

Dr. M.S. Chauhan, Hon'ble VC, GBPUA &T

**Patron**

Dr. Sandeep Arora, Dean, CBSH

**Course Coordinator**

Dr. Preeti Chaturvedi

**Co-coordinator**

Dr. D.S. Rawat

**VENUE**

**Department of Biological Sciences College of  
Basic Science and Humanities, GBPUA&T,  
Pantnagar**



**About Us**

G. B. Pant University of Agriculture and Technology is the first state agricultural university in the country established in the year 1960. University has introduced innovative and modern technologies in agricultural research, produced trustworthy seeds and varieties which have played a key role in ushering in the green revolution in the country.

College of Basic Sciences and Humanities is the most prestigious college of G. B. Pant University of Agriculture and Technology. The founding fathers of the University envisioned a strong base in basic and applied sciences as a foundation of teaching and research in agriculture and related sciences.

The Department of Biological Sciences was founded in 1960 and offers M.Sc. and Ph.D. Botany programs focusing on plant taxonomy, morphogenesis, medicinal plants bioprospecting, bryology and plant-microbial interactions. Notably, the department has successfully generated micropropagation protocols of valuable medicinal plant species of Uttarakhand, developed herbarium of plant wealth of Uttarakhand and got two patents awarded.

**Background**

As a part of its mandate, Department of Biological Sciences organized 9th Science Congress (Haridwar chapter) on 'Future India: Science & Technology' in October, 2018 and an International webinar in December, 2020. In this series, this year, a five days workshop is going to be organized to offer a hands-on-training in the plant morphogenesis and bioprospection area. Participants will be benefited from this training by broadening their horizons, getting exposure to new ways of addressing questions, and exploiting the new technologies and approaches towards making vital advances in commercial plant tissue culture.

**Registration**

**Apply before April 28, 2024**

The seats are limited and will be filled  
on *first come-first basis*

**Registration link**

<https://forms.gle/yADrxTARfvEoDhzv5>

The participants also have to send duly filled form in the prescribed format with online payment receipt/cash via email.

**Registration fee: Rs 3500/-**

**Bank details: PNB Pantnagar**

**Account Number: 4446000100024768**

**IFSC code: PUNB0444600**

**Account Holder's name: Dean, CBSH**

**Contact**

**Mb: 8750523707, 9354392452, 72482007098**

**Email: pchaturvedi.biolsc@gmail.com**

## Vision

This training will help participants acquire the necessary tissue culture skills and will also train them in using the techniques for commercial purpose.

## Application Format

Name of Applicant: .....

Date of Birth (DOB): .....

Gender: .....

Educational Qualification: .....

Designation: .....

Research Experience (if any): .....

Name of Department and Institution address:

Accommodation needed: Yes/ No

(Accommodation charges are to be borne by the participants in the university guest house)

E-mail Id: .....

Mobile No: .....

Payment details: .....

Signature of Applicant:

Forwarded by:

Signature (With Stamp)

Research Supervisor/ Head of the Department

## Deliverables

Exposure to plant tissue culture  
phytochemical profiling

**Certificates & study material**

**EXPLORE THEORETICAL ASPECTS &  
GET HANDS-ON PRACTICAL  
EXPOSURE!!!**

## Content

- Introduction to plant tissue culture, media preparation and sterilization techniques.
- Stock solutions & plant tissue culture media preparation
- Nodal culture, plant embryo culture
- Metabolic profiling using different methods
- Spectrophotometric quantification of secondary metabolites

## Organizing Team

Preeti Chaturvedi, D.S. Rawat,  
Sugandha, Divya, Aabha, Ishita, Sheetal



## Eligibility

The training is intended for undergraduate/post graduate students and research scholars from life sciences primarily from Colleges, Universities, Private academic Institutions



Last Date: 28<sup>th</sup> April

**Enrol Now!!**