

"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



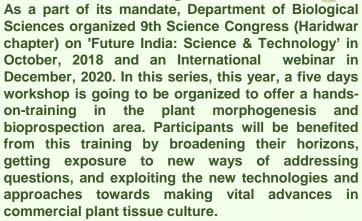
#### **About Us**

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**



## 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, 7248200<u>709</u>8

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

