



# JOINT WORKSHOP ON MOLECULAR & PLANT TISSUE CULTURE TECHNIQUES

Organized by  
Jaypee University of Information Technology (JUIT) , Waknaghat , Solan &  
Giani Shivdev Singh Dewan Gurbachan Singh Khalsa College, Patiala, Punjab

## PATRON

### **Vice Chancellor, JUIT, Solan**

Prof. R.K.Sharma

### **Principal, Giani Shivdev Singh Dewan Gurbachan Singh Khalsa College, Patiala, Punjab**

Dr. Dharminder Singh Ubha

### **HOD, BT & BI, JUIT, Solan**

Prof. Sudhir Kumar

## Convener

### **Dr. Hemant Sood**

Associate Professor, Department of Biotechnology &  
Bioinformatics, JUIT, Waknaghat, Solan (H.P.)

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### **Dr. Nipunjot Kaur**

Associate Professor and Head,  
Department of Biotechnology,  
Giani Shivdev Singh Dewan Gurbachan Singh  
Khalsa College, Patiala, (Punjab)

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## Resource Persons

### **Prof. (Dr.) Jata Shankar, Professor.**

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*(Session on:- Molecular Techniques)*

### **Dr. Hemant Sood, Associate Prof.**

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*(Session on :- Plant Tissue Culture Techniques)*

## Target Audience

- Students of Biotechnology, Zoology, Botany and Agriculture

## DATE & TIME

27th February, 2024

Time: 10:00 AM - 4:00 PM

<https://www.juit.ac.in/biotechnology-bioinformatics>

## **Joint Workshop on Molecular and Plant Tissue Culture Techniques**

Organised by : Department of BT and BI

Place: Giani Shivdev Singh Dewan Gurbachan Singh Khalsa College, Patiala

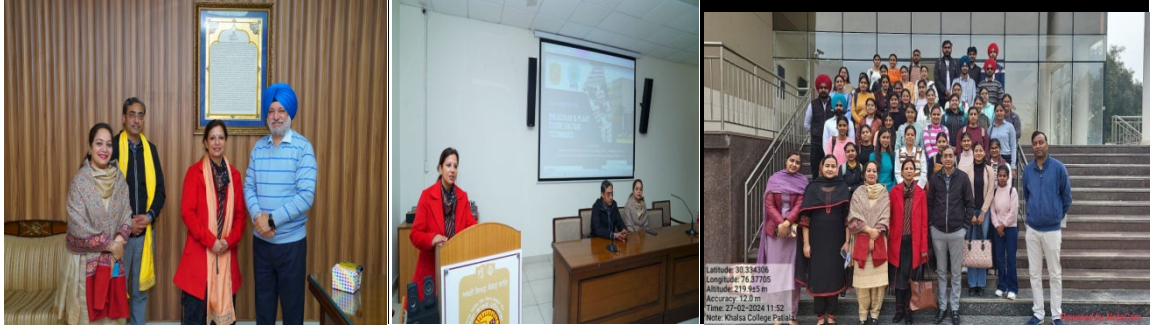
Coordinators: Dr Hemant Sood (JUIT) & Dr Nipunjot Kaur (GSSDGS)

Date : 27<sup>th</sup> February, 2024

Resource Person: Professor Jata Shankar for Molecular Biology Techniques  
Dr Hemant Sood for Plant Tissue Culture Techniques

Supporting Staff: Mrs Mamta Mishra  
Miss Kritika, Miss Priya and Miss Alfeia

The Department of Biotechnology and Bioinformatics, JUIT organized a Joint Workshop on Molecular and Plant Tissue Culture Techniques at GSSDGS Khalsa College Patiala, Punjab for 55 students of B.Sc ( Biotechnology, Agriculture, Zoology, and Botany). Dr. Hemant Sood (Associate Professor, BT&BI) and Dr. Nipunjot Kaur, Head, and Associate Professor were the coordinators of the workshop. The inaugural session was conducted by Dr. Nipunjot, where she acknowledged the support of Dr Dharminder Singh Ubha, Principal GSSDGS Khalsa College, Patiala, the Honourable VC Prof. RK Sharma of JUIT and HoD Prof. Sudhir Kumar for initiated the academic and research the collaborations under the signed the MoU in 2022. Workshop sessions were stated as per the mentioned schedule where Dr Hemant Sood, Associate Professor (BT &BI) took a session on Plant tissue culture by demonstrating the micropropagation of exotic plant species. Professor (Dr.) Jata Shankar (BT &BI) took a session on Molecular Techniques by demonstrating all the basics to the students in quite detail which included a demonstration of SDS-PAGE. The successful culmination of the workshop happened after collecting feedback from participants. Dr Hemant Sood extended gratefulness to the authorities of both institutes for providing all support for the collaborative workshop. **(Glimpses of the events and news coverage are as follows)**



**Inaugural session at Khalsa College, Patiala**



**Demonstration of Molecular Techniques**



**Demonstration of Plant Tissue Culture Techniques**





**Workshop Committee Members**

## Khalsa College Patiala Celebrates National Science Day

PT News  
Patiala, February 28

 PunjabTimes **Special**

To commemorate National Science day on 27th February 2024, Department of Biotechnology organised a workshop on "Molecular and Plant Tissue Culture Techniques" as a joint effort with Jaypee University of Information Technology, Wagnaghat, Solan in Khalsa College Patiala. The workshop was arranged for students to enhance their knowledge in the field of Biotechnology. A total number of 55 students along with faculty members of the department participated in the workshop. In her welcome address, Dr. Nipunjot Kaur, Head, Department of Biotechnology highlighted the importance of such workshops in current scenario. Dr. Dharminder Singh Ubha, Principal, Khalsa



College Patiala encouraged students to participate in such workshops and highlighted the importance of generations of scientific temperament among students. Dr. Hemant Sood, Associate Professor, Department of Biotechnology and Bioinformatics, JayPee University of Information Technology, presented the motto of workshop and applications of Biotechnology in

various fields. She also explained students about the scope of biotechnology and various scholarship programs for further studies. Thereafter, Dr. Hemant Sood, Dr. Jata Shankar, Mrs Mamta (laboratory staff), PhD Scholars Alpha, and Kittu gave technical sessions in which students were given hands on experiences on various techniques of biotechnology. Dr.

Hemant Sood, clarified students about techniques of tissue culture technology to propagate plants in artificial conditions in labs. Dr. Jata Shankar, explained students about Protein Gel Electrophoresis. The PhD Scholars demonstrated the techniques explained by Dr. Jata Shankar to the students and clarified their concepts about practical experience.