



## **SUPPORTING DOCUMENTS**

### **3.2.2**

**NUMBER OF WORKSHOPS/SEMINARS CONDUCTED ON RESEARCH  
METHODOLOGY, INTELLECTUAL PROPERTY RIGHTS (IPR) AND  
ENTREPRENEURSHIP DURING THE YEAR**



## **Hands on training workshop on Gene Cloning**

### **Objectives:**

The key objectives of the workshop were:

1. To familiarize participants with the principles of gene cloning.
2. To provide an understanding of various gene cloning techniques.
3. To offer practical training in the laboratory techniques involved in gene cloning.
4. To explore the applications of gene cloning in modern science and industry.
5. To facilitate discussions on ethical considerations related to gene cloning.

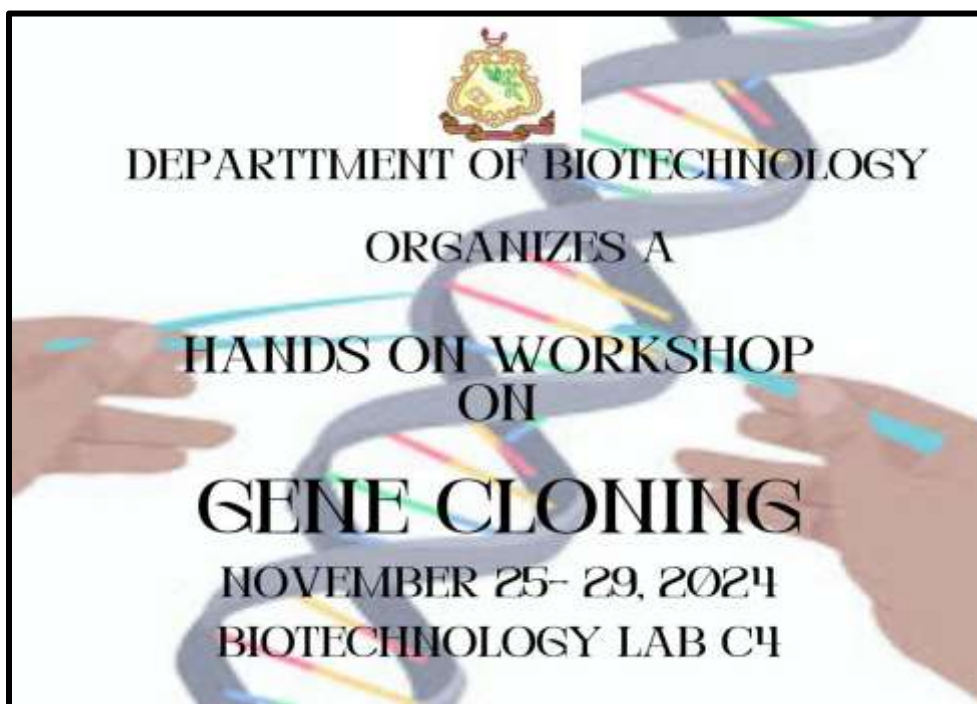
A five-day workshop on Gene Cloning was organized by Department of Biotechnology from November 24- 29, 2024. The workshop aimed to provide a comprehensive understanding of gene cloning techniques, which are fundamental in molecular biology and biotechnology. Participants included students of B.Sc. (Hons.) Biotechnology 2<sup>nd</sup> and 3<sup>rd</sup> year who were keen to explore the intricacies of gene cloning, its methodologies, and its applications in various fields like medicine, agriculture, and environmental science.

The workshop was structured to offer a balance of theoretical knowledge and practical hands-on experience. Dr. Shruti Gupta, assistant professor, department of biotechnology, guided the participants throughout the sessions, which covered everything from the basics of DNA manipulation to advanced cloning techniques.

### **Outcomes:**

The students

1. Gained hands-on experience in gene cloning techniques and laboratory practices.
2. Developed an understanding of various gene cloning and expression systems.
3. Acquired technical skills in DNA extraction, transformation, and protein purification.
4. Learned the applications of gene cloning in biotechnology, medicine, and agriculture.
5. Gained awareness of ethical issues surrounding gene cloning and genetic modification.




*Brochure*



*Hands on training workshop on 'Gene Cloning' (November 25-29, 2024)*



*Hands on training workshop on 'Gene Cloning' (November 25-29, 2024)*

 *Department of Biotechnology  
St. Bede's College, Shimla*

**Hands on Workshop on Gene Cloning**  
**Attendance Sheet**  
**Date: November 25-29, 2024**

S.No.	Name	Class	Signature
1.	Aashika Mishra	Biotech - II	Aashika
2.	Ashish Kumar	Biotech - II	Ashish
3.	Tanveer Verma	Biotech - II	Tanveer
4.	Sakshi Chaudhary	Biotech - II	Sakshi
5.	Anshika	Biotech - II	Anshika
6.	Pooja Chaudhary	Biotech - II	Pooja
7.	Tanisha	Biotech - II	Tanisha
8.	Angeline Noss	Biotech - II	Angeline
9.	Nigati Sharma	Biotech - II	Nigati
10.	Anshika Sharma	Biotech - II	Anshika
11.	Mamta	Biotech - II	Mamta
12.	Ananya	Biotech - II	Ananya
13.	Vaidhvi Sharma	Biotech - II	Vaidhvi
14.	Sandeep Kumar	Biotech - II	Sandeep

*Mallory*  
29/11/24  
Principal  
St. Bede's College  
Shimla

*Attendance Sheet*



Department of Biotechnology  
St. Bede's College, Shimla



15	Akanksha sharma	Bsc. Honors Biotech III year	Akanksha
16	Aditi Saman	B.Sc. (Hons) Biotech III year	Aditi
17	Kanan Sharma	BSc (Hons) Biotech III year	Kanan
18	Neelika Arora	BSc (Hons) Micro. III year	Neelika
19	Snigdha Karmali	BSc. Biotech (Hons) III year	Snigdha
20	Anchal Ugras	BSc. Biotech (Hons) III year	Anchal
21	Ami Thingto	BSc (Hons) Biotech III year	Ami
22	Disha Thakur	" "	Disha
23	Yashika Kishore	" "	Yashika
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29/4/24  
Principal  
St. Bede's College  
Shimla

Attendance Sheet