

Shri Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur

DEPARTMENT OF BOTANY

Session – 2025-2026

Report on

One-Day Workshop on

Plant Biotechnology: From Students to Molecular Biologist

A one-day workshop on “Plant Biotechnology: From Students to Molecular Biologist” was organized by the Department of Botany, Shivaji Science College, Congress Nagar, Nagpur, on 21st February 2026. A total of 18 M.Sc. students actively participated in the workshop. The workshop aimed to familiarize students with important molecular biology techniques such as Plant DNA Isolation, DNA Barcoding, GMO Detection, Polymerase Chain Reaction (PCR), Agarose Gel Electrophoresis, and ELISA. The participants also gained knowledge about important instruments and equipment used in a Molecular Biology Laboratory.

The core objective of this workshop is to demonstrate the proper methods used in plant biotechnology as well as to provide guidance regarding future career opportunities in molecular biology and biotechnology.

The workshop was conducted by Mr. Aditya Mirkhelkar and Dr. Ankita Mirkhelkar from Molecule Hub – Research and Training Laboratory, Nagpur. The workshop commenced with an introduction to laboratory safety standards, followed by demonstrations and hands-on training on handling various instruments used in molecular techniques. Students were trained in techniques such as Plant DNA Isolation, DNA Barcoding, GMO Detection, Polymerase Chain Reaction (PCR), Agarose Gel Electrophoresis, and ELISA. The interactive sessions with the students further enriched the learning experience and helped clarify their doubts regarding molecular techniques and laboratory practices. The workshop provided valuable insights and practical exposure to students, which will be beneficial for their future careers in Botany, Molecular Biology, Biotechnology, and Genetic Engineering. The workshop was coordinated by Dr. R. H. Mahakhode, along with Dr. S. S. Deshmukh, Dr. A. M. Katgaye, Dr. Tinku Kumar Rajput, MS. Utkarsha Pete, Mr. Swapnil Fuse and Ms. Chaitali Patil from the Department of Botany, Shivaji Science College, Nagpur.



O. S. Deshmukh
Dr. O. S. Deshmukh
Principal & Convener
Principal
S.S.E.S. Amravati's
Science College, Nagpur



R. H. Mahakhode
Dr. R. H. Mahakhode
Head, Dept. of Botany
Associate Professor and Head
Department of Botany
S.S.E.S. Amt's Science College
Congress Nagar, Nagpur-12.

Students attendance

* MoleculeHub - A Research and Training Laboratory - Seminar

21/02/2026

- 1) Falguni. Shivhare Falguni.
- 2) Janhvi. Kayarkar Janhvi
- 3) Karuni. Furre Karuni
- 4) Kajal Meshram Kajal
- 5) Kalyani Shahare Kalyani
- 6) Rasika Patil Rasika
- 7) pooja Rodekar Pooja
- 8) sneha somkuwale Sneha
- 9) Preena Paliwal Paliwal
- 10) Payal Dhaspura Payal
- 11) Khushi Deshmukh Khushi
- 12) Prachi Karoje Prachi
- 13) sneha Ramteke Sneha
- 14) Payal. Maraskolhe Payal
- 15) Sapna Mishra Sapna
- 16) Harshale Thaware Harshale
- 17) Shrevari Raut Shrevari
- 18) Umesh Raut Umesh

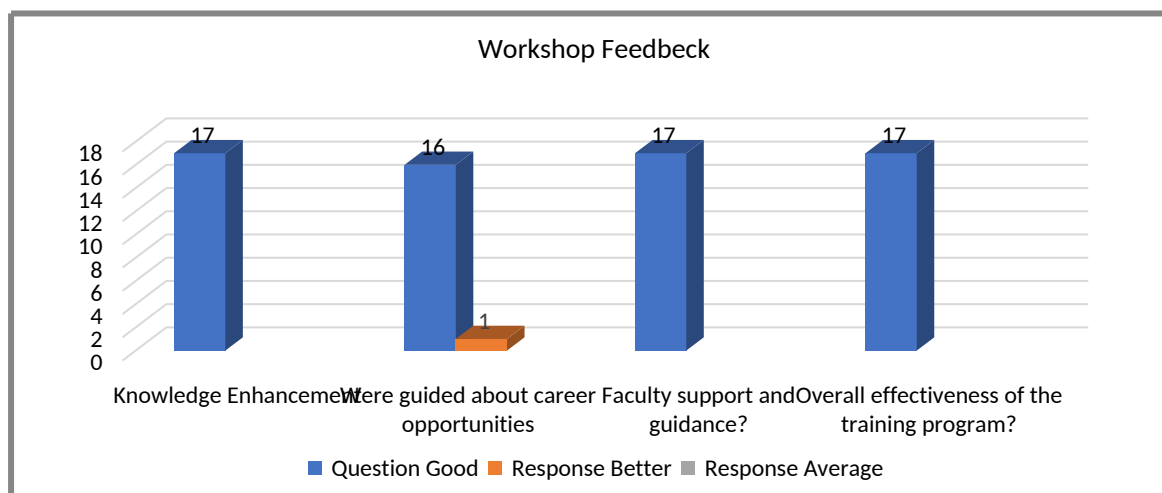
ACTION TAKEN REPORT

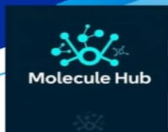
Based on the feedback received from participants, the Department of Botany has taken steps to enhance students' exposure to molecular biology techniques. Students were encouraged to apply the learned skills such as DNA isolation, PCR, and gel electrophoresis in their practical work and research projects. The department also plans to organize more hands-on workshops and training programs in plant biotechnology and molecular biology in the future to strengthen students' practical and research skills.

STUDENT FEEDBACK SUMMARY

The feedback collected from the participants indicated that the workshop was highly informative and beneficial. Students appreciated the hands-on training and demonstrations on molecular biology techniques such as DNA isolation, PCR, agarose gel electrophoresis, and ELISA. The resource persons explained the concepts in a clear and interactive manner, which helped students understand the practical applications of plant biotechnology.

FEEDBACK FORM				
Sr. No.	Question	Response		
		Good	Better	Average
1	Knowledge Enhancement			
2	Were guided about career opportunities			
3	Faculty support and guidance?			
4	Overall effectiveness of the training program?			





CERTIFICATE OF PARTICIPATION



Molecule Hub

Research & Training laboratory

This certificate is proudly present to :

Falguni Shivhare

has successfully completed and actively participated in the:

"Free offline workshop from student to skilled
Molecular biologist"

We extend our sincere appreciation for their enthusiasm, dedication,
and meaningful engagement throughout the event.

Dr. Ankita Mirkhelkar &
Aditya Mirkhelkar

Head of Event

Signature of IQAC Co-ordinator

**IQAC Coordinator
S.S.E.S.A's
Science College, Nagpur**



Dr. R. H. Mahakhode
**Associate Professor and Head
Department of Botany**
S.S.E.S. Amr's Science College
Congress Nagar, Nagpur-12.

Signature of Principal
**Principal
S.S.E.S. Amravati's
Science College, Nagpu.**