



Shri Shivaji Education Society Amravati's

SCIENCE COLLEGE

Congress Nagar, Nagpur - 440012 (M.S.) India.

Accredited With CGPA Of 3.51 At 'A+' Grade.



BOTANY DEPARTMENT

Organizing

ONE-DAY WORKSHOP ON MOLECULAR BIOLOGY TECHNIQUES - PCR

To provide hands-on training in PCR techniques, bridging the gap between theory and real-world applications in molecular biology and biotechnology.



Key Resource Person:

Dr. Sunil Kokane

Product Specialist, HIMEDIA, Thane, Mumbai

Honorary Chairperson

Dr. O. S. Deshmukh

Principal

Organizer

Prof. P. S. Tiwari

Head, Department of Botany

Convener

Miss. Shruti R. Agarwal

Assistant Prof. (Ad-HOC), Department of Botany



Workshop Highlights



Objective:

The workshop aims to equip students with practical skills and theoretical knowledge of PCR techniques, enhancing their ability to apply these methods in molecular biology research and diagnostics.



Scope

Acquire hands-on PCR skills to enhance research capabilities and explore career opportunities in biotechnology and genetics.



Hands-on Training

Participants will engage in practical sessions to master PCR techniques, covering sample preparation, amplification, and analysis, enhancing their research skills in molecular biology.

JOIN US TO ELEVATE YOUR MOLECULAR BIOLOGY SKILLS WITH HANDS-ON PCR TRAINING!

Contact : Miss. Shruti R. Agarwal

Department of Botany,

Shri Shivaji Science College, Congress Nagar, Nagpur.

Date : 21/10/2024

Venue : M.Sc. Lab, Department of Botany.

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

Notice

All the students of B.Sc. Final year and M.Sc. - I and II year are hereby informed that, department of Botany will be organizing "Workshop on Molecular Biology Technique: PCR (Polymerase Chain Reaction)".

This workshop will provide hands-on experience and insights into PCR techniques and their application in Botany. You will also be provided a certificate from HiMedia. All interested participants are encouraged to attend.

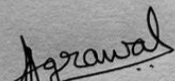
Event Date: **21/10/2024**

Time: **8:30am**

Venue: **C1 Classroom, C-Block.**

Fees: 100/-

Contact No. 7038739199.


Convener

Ms. Shruti R. Agrawal


Prof & Head

Dr. P.S.Tiwari

SSES AMRAVATI'S SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.

Department of Botany

Academic Year: 2024-2025

**Report on One day workshop on
Molecular Biology Technique - PCR**

The Department of Botany at SSES Amravati's Science College, Congress Nagar, organized a specialized training program on the Polymerase Chain Reaction (PCR) technique, a crucial method in Molecular Biology. The program aimed to enhance the academic and practical knowledge of M.Sc. First Year students and Final Year B.Sc. students from semesters V and VI in the fields of Molecular Biology and Genetic Engineering. The primary objectives of the program included familiarizing students with the concepts of PCR, providing practical experience, and fostering an understanding of modern biotechnological techniques relevant to both research and industry. The initiative aimed to bridge the gap between theoretical knowledge and hands-on experimentation, giving students essential skills in these advanced scientific areas.

The program was presided over by Principal Dr. O.S. Deshmukh, whose leadership and vision were vital in ensuring the event's success. Dr. Deshmukh's guidance played a significant role in the smooth execution of the training program, creating a conducive learning environment. Prof. P.S. Tiwari, the organizer of the event, efficiently handled all logistical aspects, ensuring that the program ran smoothly from scheduling to resource management. His organizational skills and attention to detail were crucial in providing students with a well-structured and engaging learning experience. Miss Shruti Agrawal, the convener, ensured the educational objectives were met, overseeing the students' learning process and facilitating a productive training atmosphere. As an expert in Molecular Biology, Miss Agrawal was dedicated to enhancing students' understanding of the subject matter and aligning the program's content with the students' needs.

Dr. Sunil Kokane, a renowned expert in Molecular Biology and Genetic Engineering, led the training program, offering valuable insights and guiding students through the complexities of PCR. The training combined theoretical sessions on PCR principles, components, types, and applications with practical sessions where students set up experiments, performed PCR reactions, and analysed results. A demonstration of gel electrophoresis allowed students to visualize PCR outcomes and better understand the technique's results. The event also received substantial support from faculty members, including Dr. R.H. Mahakhode, Dr. S.S. Deshmukh, Dr. Anita M. Katgaye, Dr. R.P. Sonwalkar, Ms. Aishwarya Zure, Mr. Swapnil Fuse, and Dr. Tinku Kumar, who contributed to the event's success through their guidance and involvement. The technical staff members, Mr. Prashant Ankalwar and Mr. Shivam Ambone, also played a crucial role by providing valuable technical support throughout the training program.

The vote of thanks was proposed by Mr. Piyushkumar R. Sharma, who expressed gratitude to all the participants, speakers, and supporting staff for their contributions. The training program successfully achieved its objectives by equipping students with practical experience and a deeper understanding of PCR. It boosted student proficiency in conducting PCR experiments independently and enhanced their comprehension of the significance of PCR in biotechnology,

genetics, and molecular diagnostics. Additionally, students gained important laboratory skills such as troubleshooting PCR issues, analysing gel electrophoresis results, and conducting experiments with confidence, preparing them for future advancements in the field.



Insightful speech given by Mr. P. Singh on scope of Molecular techniques



Presenting memento to Dr. Sunil Kokane by our Hon'ble Principal Sir, as a token of appreciation and gratitude



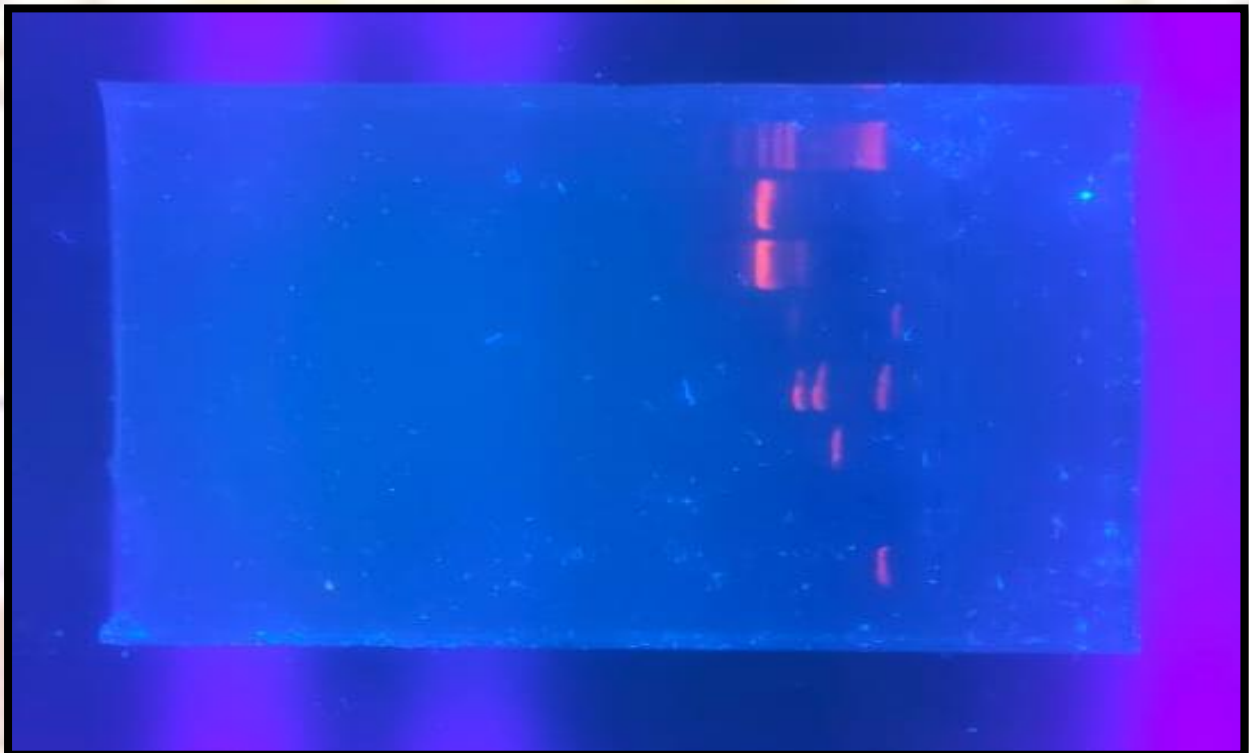
Mastering the Art of PCR: Performing Gel Electrophoresis



Workshop Certificate Distribution to participants by Dignitaries



Polymerase Chain Reaction Workshop, along with the Enthusiastic Participants Engaged in Hands-on Learning



Result analysis: When a gel is stained with a DNA-binding dye and placed under UV light, the DNA fragments will glow, allowing us to see the DNA present at different locations along the length of the gel

List of Participants:

List of students Participated in Mol. Bio Workshop.

- 1) Aakanksha. L. Wasnik Wasnik
- 2) Rajshree P. Kowe Kowe
- 3) Aishwarya P. Bambal Bambal
- 4) Megha S. Bangadkar Bangadkar
- 5) Chaitali S. Patil Patil
- 6) Jyoti. H. Kayarkar Kayarkar
- 7) Anushka Khare Khare
- 8) Falguni. Shivhare Shivhare
- 9) Karini Furre Furre
- 10) Preena. Pallwal Pallwal
- 11) Rasika Patil Patil
- 12) Kalyani C. Shahare Shahare
- 13) Sneha Somkuwar Somkuwar
- 14) Payal Dhaspore Dhaspore
- 15) Riddhi Desai Desai
- 16) Puja Rodkan Rodkan
- 17) Chetan. S. Kolhe Kolhe
- 18) Jiwale. D. Wasekar Wasekar
- 19) Ekta Tadhar Tadhar
- 20) Yash Dorle Yash
- 21) Sanika Raut Raut
- 22) Avanti J Avanti
- 23) Snita S. Snita
- 24) Nikita Dhole Dhole
- 25) Ritika Tandekar Ritika
- 26) Ruchi Kale Ruchikale
- 27) Gunjan sherkar Sherkar
- 28) Saebhi kakde Sk.
- 29) Peadhnya wasnik Wadnya
- 30) Payal kodwate Payal

P. Tiwari
Professor and Head
Department of Botany,
SSES Am's Science College,
Congress Nagar, Nagpur-42

Action Taken Report :

Following the successful planning and organization of the PCR training program, the Department of Botany took several key actions to ensure its smooth execution and maximum impact on students. A comprehensive schedule was developed, incorporating both theoretical and practical components, to give participants a well-rounded understanding of PCR. The necessary resources, including PCR machines, reagents, and electrophoresis equipment, were arranged in advance to facilitate hands-on training. In total, **30 students** from the **M.Sc. First Year** and **Final Year B.Sc.** courses actively participated in the workshop. The faculty ensured that the students received personalized attention during practical sessions, and interactive discussions were held to address queries and deepen their understanding. Feedback was collected from participants, helping assess the effectiveness of the training and identify areas for improvement in future sessions. These steps ensured that the workshop met its educational objectives and provided students with valuable skills and knowledge for their academic and professional growth.

FEEDBACK FORM

Sr.No.	Question	Response		
		Good	Better	Average
1)	Overall effectiveness of the training program?			
2)	Relevance of practical sessions?			
3)	Clarity of experimental results?			
4)	Faculty support and guidance?			

