



चौधरी महादेव प्रसाद महाविद्यालय C. M. P. DEGREE COLLEGE

(A Constituent P.G. College, University of Allahabad)
Under Strengthening component of DBT Star College Scheme



THREE DAYS HANDS ON-WORKSHOP

(16TH - 18TH AUGUST, 2023)

Under the aegis of



DBT STAR COLLEGE SCHEME

सत्यमेव जयते

Department of Biotechnology
Government of India

DNA BAR-CODING A CHALLENGE TO LINNAEUS CLASSIFICATION

Venue: Department of Botany Time : 10:00 am to 5:00 PM

Registration Link:

https://docs.google.com/forms/d/e/1FAIpQLSfHnwYjRyOOi_Qg0pjoRXCIRiVoFUMmA9kCwgGlyvth2boAQ/viewform?usp=pp_url

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Dr Manoj Kumar Jaiswal

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Zoology

**Jointly Organized by
Departments of Botany and Zoology**

Day 1 (16th August 2023, Wednesday)

S.N.	Time	Program
1	10:00 – 11:00	Inauguration & Guest Lecture on Application of DNA Barcoding
Break		
2	11:15 – 01:00	DNA Isolation (Plant/Blood) – Part 1
Lunch		
3	01:30 – 03:00	DNA Isolation (Plant/Blood) – Part 2
Break		
4	03:15 – 04:00	Agarose Gel Electrophoresis & Result Interpretation

Day 2 (17th August 2023, Thursday)

S.N.	Time	Program
1	10:00 – 10:45	Guest Lecture on PCR and its application
Break		
2	11:00 – 01:00	Preparation of Master Mix & Setup of PCR (Using Universal primer)
Lunch		
3	01:30 – 02:45	Discussion of Variants and application of PCR
Break		
4	02:45 – 04:00	Agarose Gel Electrophoresis & Result Interpretation

Day 3 (18th August 2023, Friday)

S.N.	Time	Program
1	10:00 – 11:00	Guest Lecture on Sequencing
Break		
2	11:15 – 01:00	Analysis of Raw data from Sequencer
Lunch		
3	01:30 – 02:30	Generation of Phylogeny and Introduction of Barcode of Life Database
Break		
4	02:45 – 04:00	Valedictory session Feedback & certificate Distribution

DNA Bar-Coding: A challenge to Linnaeus Classification

Objectives

The aim of the workshop is to improve the research skills and aptitude of the undergraduate students, by enhancing their practical knowledge on various techniques of Molecular Biology. The knowledge of of Molecular Biology seeks to explore learners ability manifold which, in turn, helps them to better cope up and grow with their course-learning, teaching and research output. The workshop will also facilitate to gain insight into

- Sample Selection
- DNA Isolation
- PCR Amplification by Universal primer
- DNA Sequencing (Theory only)
- Bioinformatics Analysis
- Confirmation of species

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