



(ACCREDITED TO NAAC B++)  
Department of Microbiology

**Work Shop**

**Event Name:** Work Shop

**Event Title:** DNA isolation and Finger printing

**Cell Convenor:** Ms. Padma Madham

**Faculty coordinator:** Ms. Padma, Ms. Suzan, Ms. Arpitha

**Date & Venue:** 19<sup>th</sup> September 2019, Aurora's Degree and PG College

**Target audience:** UG and PG students

**Level:** Under Graduates and Post Graduates

**Budget:**

**Student volunteer's:** Chandra Vamshi, Vaishali, Preethi

**Objective:** To provide practical exposure to the students and enhance their levels of ease in practicality of the subject. The prime purpose was to introduce the students to the realistic facet of molecular entities.

**Proposed activities:** It is a widely accepted fact that the molecular entities present at the sub cellular level play a vital role in a cascade of activities and are indeed regarded as the fundamental molecules that is essential for supporting life. The work shop was organized with an intention of initiating the work that goes on in industries that have pioneered in molecular biology and related discipline. The proposed activities on the day included the isolation of DNA from saliva and qualitative analysis of the molecule based on its appearance on the gel by performing gel electrophoresis. The process of isolating DNA encompassed tedious steps which involved the separation of DNA from the cellular component and involved various organic solvents that allowed the precipitation of the bio molecule through centrifugation.

The proposed activity also involved the preparation of various buffer solutions that were needed to maintain the quality of the isolated bio molecule for further analysis. In addition to isolation of the DNA, the practical session also illustrated the prominence of qualitative assessment of the isolated DNA by performing gel electrophoresis. The isolated DNA were loaded on gel electrophoresis to reveal various insights like its base pair length and molecular density which were analyzed based on the presence of bands on the gel electrophoresis.

<b>Name of the event</b>	<b>Work Shop</b>
<b>Type of event</b>	<b>Departmental Event</b>
<b>Faculty in-charge</b>	Ms. Padma Madham (HOD)
<b>Department</b>	MICROBIOLOGY
<b>Date</b>	19/09/19
<b>Venue</b>	Aurora's Degree and PG College
<b>Target audience</b>	UG and PG STUDENTS

**Objective:**

The objective of the work shop was to enable the students to have an exposure of research related aspects and enhances the practical oriented comprehension of bio molecules. The work shop has introduced the methods involved in the isolation of DNA and their qualitative analysis on a suitable solid platform.

**Brief about the visit:**

The work shop scheduled on the 19<sup>th</sup> of September 2019 started at 10 am in the morning and the students were accommodated in Lab 2 and Lab 3 of Block II. The work shop was conducted for UG and PG Students with intent of enhancing their ease from the context of practical aspects. The Department of Microbiology has managed to invite professionals from Bio-Axis for the work shop. The students have assembled in the lab by 9.30 am and were briefed about the work shop and the proceedings for the students was started at 10 am and went on till 3.30 pm in the afternoon. The morning session included the preparation of solutions for the isolation of DNA. The DNA was isolated from saliva and the entire morning session encompassed the isolation of DNA and was succeeded by the qualitative analysis of the isolated DNA in the afternoon.

**Out comes:**

The consequences of the conducted work shop were indeed affirmative as it has certainly encouraged the students as it was different from their monotonous class room lecture. The demonstrative sessions that went on for the entire day were very interactive which has in turn boosted the enthusiastic levels of the students. The students have indeed learnt a vital practical aspect which included the isolation of DNA and its quantitative analysis because these steps are quite vital and are considered as fundamentals for the process of DNA finger printing. The work shop also enabled the students to know the significance of various ingredients that went in to the process including the prominence of agarose gel that was used as a platform for qualitative analysis.

**List of students**

<b>S.No</b>	<b>Name of the student</b>	<b>Roll No</b>	<b>Section</b>
1	Abburi Prakeerthi	1051-17-459-001	MiGC 3A
2	Beerla Jayasree	1051-17-459-006	MiGC 3A
3	Bijji Divya Bhargavi	1051-17-459-007	MiGC 3A
4	Burra Deepika	1051-17-459-008	MiGC 3A
5	Dasari Akhila	1051-17-459-010	MiGC 3A
6	Devika Jaiswal	1051-17-459-011	MiGC 3A
7	Eranti Shivani	1051-17-459-013	MiGC 3A
8	Etikala Vamshidhar Reddy	1051-17-459-014	MiGC 3A
9	Gajjala Sathvika	1051-17-459-015	MiGC 3A
10	Hasaji Manisha	1051-17-459-019	MiGC 3A
11	Ivan Mark Dausi	1051-17-459-020	MiGC 3A
12	Kancharla Abhilash	1051-17-459-024	MiGC 3A
13	Kulakarni Chandra Vamshi	1051-17-459-025	MiGC 3A
14	Nukala Madhuri	1051-17-459-033	MiGC 3A
15	Peddi Sravan	1051-17-459-034	MiGC 3A
16	Sanaboina Deekshitha	1051-17-459-036	MiGC 3A
17	Shrivaishnavi Idigani	1051-17-459-040	MiGC 3A
18	Uppalanchi Spoorthi	1051-17-459-042	MiGC 3A
19	Venkata Vineela Renduchintala	1051-17-459-043	MiGC 3A
20	P Vishwateja	1051-17-459-045	MiGC 3A
21	Uppala Venkat Sai	1051-17-459-050	MiGC 3A
<b>MiGC 3B</b>			
<b>S.No</b>	<b>Name of the student</b>	<b>Roll No</b>	<b>Section</b>
22	Marupaka Pratyusha	1051-17-459-051	MiGC 3B
23	Prince Mohammed Faisal	1051-17-459-052	MiGC 3B
24	Kollipara Manasa Leela	1051-17-459-059	MiGC 3B
25	Muskan Chowdary	1051-17-459-062	MiGC 3B
26	Pothuganti Vaishnavi	1051-17-459-069	MiGC 3B
27	Chandel Akanksha Singh	1051-17-459-070	MiGC 3B

S.No	Name of the student	Roll No	Section
28	Kavipurapu V J Sai Kaushik	1051-17-459-072	MiGC 3B
29	Maimuna Sultana	1051-17-459-077	MiGC 3B
30	Amtul Sayeeda	1051-17-459-080	MiGC 3B
31	Jeedigunta Satyanagavishalasarvani	1051-17-459-091	MiGC 3B
32	Bandikanti Bhanu Prasad	1051-17-459-095	MiGC 3B
<b>MiBiC III</b>			
S.No	Name of the student	Roll No	Section
33	Baddam Tharunika	1051-17-471-002	MiBiC III
34	Battul Rupali	1051-17-471-003	MiBiC III
35	Polaki Tarun Sai	1051-17-471-017	MiBiC III
36	Prakash Yogesh Sirvi	1051-17-471-018	MiBiC III
37	Sachin Kalyani	1051-17-471-020	MiBiC III
38	Sakshi Tak	1051-17-471-021	MiBiC III
39	Shravani Swamy	1051-17-471-022	MiBiC III
40	Balagari Sai Kiran	1051-17-471-025	MiBiC III
41	Ambati Saivivek	1051-17-471-046	MiBiC III
42	Amardeep Wadekar	1051-17-471-049	MiBiC III

**PHOTOGRAPHS:**

