AURORA'S DEGREE & P.G. COLLEGE
Department of Microbiology

Departmental/Academic Event

Event Name: Work Shop

Event Title: Work Shop on Molecular Biology Techniques

Faculty coordinator: Vasudevan

Date & Venue: 5th and 6th December 2019, Vasavi Hospital, Lakdi Ka Pul

Target audience: PG students

Level: M.Sc 1st Years

Student volunteer's: Shiva, Haripriya, Sowjanya

Objective: The objective of the organized work shop is to provide hands on experience to the participants in various wet and dry lab techniques employed in molecular biology, biotechnology and bioinformatics.

Proposed activities: The proposed work shop aimed at providing a better understanding of various techniques commonly employed in molecular biology and have disclosed the prominence of tools used for achieving appropriate outcomes through molecular techniques. The activities involved various facets of molecular and cell biotechnology, genetics and bioinformatics. The intent was to provide the students with the fundamentals of these allied disciplines of life science and disclose the applicative aspects of these fields towards to betterment of humans.

Aurora's Degree & PG College

(ACCREDITED BY NAAC WITH 'B++' GRADE)
Chikkadpally, Hyderabad 500020

DEPARTMENT OF MICROBIOLOGY

NAME OF THE EVENT	**Work shop on molecular biology techniques**
TYPE OF EVENT	**Work shop**
FACULTY INCHARGE	Vasudevan
DEPARTMENT	MICROBIOLOGY
DATE	5th and 6th December 2019
VENUE	Vasavi Hospital, Lakdi ka Pul
TARGET AUDIENCE	PG Students

Objective

To provide a comprehensive understanding on the molecular techniques and associated tools that would reveal a plethora of bimolecular aspects and their affiliated functions.

Brief about the work shop

The work shop organized at Vasavi Hospital on the 5th and 6th of December 2019 commenced at 9.30 in the morning and the preamble in accordance to the work shop was given by Ms. Shravya. The initial session for the students comprised of the theory part of the work shop followed by the practical procedures. Ms. Shravya was assisted by Ms. Fathima and Ms. Shubangi. Students were provided the training in DNA isolation, PCR, RFLP, Primer designing and Agarose gel electrophoresis. The students were divided in to two batches and the proceedings were carried out as per the schedule in morning and afternoon sessions.

Outcomes

The work shop would have certainly equipped the students with various allied and distinct aspects of molecular biology and bioinformatics. In addition, students were also provided a cohesive understanding on genes and their prominence from the context of normal well being of humans. The following affirmative impact on the students have been achieved through the work shop

- DNA and its insights
- Isolation of DNA
- DNA replication
- Difference between DNA replication and DNA amplification
- DNA amplification using PCR (Polymerase Chain Reaction)
- Sample preparation for PCR (including PCR mix, enzyme, templates and nucleotides)
- Restriction fragment length polymorphism
- Primer designing
- Agarose gel electrophoresis
- Gel doc operation

LIST OF STUDENTS

S.No	Name of the student	Roll No
1	Hajra Kazim	1051-19-518-001
2	Rampogu Mercy	1051-19-518-002
3	Devarakonda Kaveri	1051-19-518-005
4	Chiluka Madhuri	1051-19-518-006
5	KachamYamini	1051-19-518-007
6	Ankapuram Jagadeeshwar Reddy	1051-19-518-010
7	Kommu Saritha	1051-19-518-011
8	Naramoni Anil	1051-19-518-012
9	Dhara Narender Srujana	1051-19-518-014
10	Puchakayala Sowjanya	1051-19-518-015
11	Gogikar Jyothirmayi	1051-19-518-017
12	Ch Divyarani	1051-19-518-019
13	Miryala Shivakumar	1051-19-518-020
14	Udari Vasantha	1051-19-518-021
15	Anjum Fathima	1051-19-518-022
16	Geervani Tummala	1051-19-518-023
17	Panjala Premkumar	1051-19-518-026
18	Kasam Haripriya	1051-19-518-028
19	Anagandla Shivakumar	1051-19-518-029
20	Adepu Ramya	1051-19-518-030
21	Baddam Shruthi	1051-19-518-031
22	Vadyala Sreekar Reddy	1051-19-518-033
23	Ch Pranay Kumar Goud	1051-19-518-034
24	Chakka Shanthi Shikhara	1051-19-518-035
25	Pakkir Sai Teja	1051-19-518-036
26	Bakshi Anusha	1051-19-518-037