



**HSNC UNIVERSITY, MUMBAI
KISHINCHAND CHELLARAM COLLEGE**

Under the aegis of

DBT Star Status

DEPARTMENT OF LIFE SCIENCES

In Collaboration with

HOMI BHABHA CENTRE FOR SCIENCE EDUCATION

A 3 Day Workshop in 'Research Paper Reading'



Resource Persons: Dr. Anuttama Kulkarni and Ms. Deepika Jauhar
Guest Speaker for Inaugural session: Dr. Rekha Vartak, Head, Biology Division, HBCSE
Participants: 26 participants from the second and third year B.Sc. class of Life Sciences Department.

DAY 1: INAUGURATION AND INTRODUCTION OF TERMS TECHNIQUES

The Three Day Online Workshop was inaugurated on 31st August 2020 at 1.30pm. Dr. Rekha Vartak, Head, Biology Division, Homi Bhabha Centre Science Education, TIFR graced the inaugural function and addressed the student participants.

Dr. Sagarika Damle, HOD, Department of Life Sciences also gave insights on importance of scientific reading. Dr.(Ms.)Aashu Vajpai ,Coordinator of the said workshop, described the course of the Three Day Online Workshop . The inaugural function was attended by all the faculty members ,26 student participants from second year and third year of Department of Life Sciences, Ms.Deepika Jauhar from HBCSE .The facilitator for the workshop, Dr. Anuttama Kulkarni, an INSPIRE Faculty Fellow, HBCSE was assisted by Ms. Deepika Jauhar from HBCSE, for the session after inaugural session. Dr Anuttama commenced the session by explaining the differences between a research paper and a review article. She explained the significance of research papers even in non-research careers. The topics explained included functions of cell junction and organization of epithelial tissue, gene induction and Casein and many more. Dr. Anuttama also explained the basic techniques like Antigen-Antibody reactions, Western Blotting, Immunostaining, Mammalian Cell Culture, Cryosectioning and Optical sectioning. Few video links, shared with the students by Ms.Deepika Jauhar gave an outline of methodology of these techniques. First day ended with an assignment of reading half of a research paper given by the resource person.

DAY 2: RESEARCH PAPER READING

The day 2 session was divided in two parts, first one was a test, with a purpose of understanding the depth of a research paper, was conducted for the students. Questions were based on the first part of the research paper. The second part of the session included a detailed discussion of solutions of the question paper by the resource person. Dr. Anuttama explained regarding the aim and hypothesis of a research paper, where in the hypothesis, could be proved wrong, during the course. Dr. Anuttama stressed upon the multiple readings of a research paper to understand it in totality. The session concluded with another assignment of reading the second half of the paper by the students.

DAY 3: STUDENT PRESENTATIONS AND VALEDICTORY SESSION

The 3rd day session was also divided into 2 parts. It began with a test and then students were divided into random groups of five, where each group was to present a particular question in a ppt form. The questions were based on the examination given earlier that day. Dr. Anuttama guided students on techniques of presenting the key points of the research paper pertaining to the questions.

Valedictory Session: It was attended by all faculty members of the Life Sciences Department and the resource persons. After an overview of the three days workshop was presented by Dr. Aashu Vajpai, the program coordinator, students were invited to give feedback. According to the participants, the resource person, Dr. Anuttama Kulkarni, was instrumental in fostering the concept of Research Paper Reading. She helped them to satisfy their intellectual curiosity and cleared their doubts. Around 88% of the participants expressed their satisfaction regarding resource person's knowledge of concerned topic and the efficient content delivery. It helped the participants to increase their scientific knowledge, technical aspects and gave them directions regarding research paper reading for their future endeavors.

Student and resource person's feedback were followed by a vote of thanks by Dr. Shalini Rai, faculty Dept of Life Sciences, who expressed a deep sense of gratitude towards Dr. Rekha Vartak for associating with Department of Life Sciences for this important activity and the resource persons for their valuable inputs and guidance. Dr. Rai also thanked Principal Dr. Bagla for her support in all the activities of the department.

To sum it all, this three day online workshop, was a much needed and appreciated activity by the student participants of the Life Sciences dept.
