

**Keshav Memorial Institute of Commerce and Sciences**

**Department of Biotechnology**

**Activities Report 2021-22**

<b>Sl. No.</b>	<b>Date</b>	<b>Type of Program</b>	<b>Title of Program</b>
1	26 <sup>th</sup> June 2021	Webinar	Drug Discovery and Opportunities in Industry
2	4 <sup>th</sup> Jan 2022	Inter-College Competition	Quiz competition on “Genetics and Molecular Biology”
3	5 <sup>th</sup> Jan 2022	Inter-College Competition	Poster, Power-point presentations and Exhibits on “Biotechnology Applications in Medicine and Agriculture”
4	28 <sup>th</sup> Jan 2022	Webinar	DNA Fingerprinting and Applications
5	9 <sup>th</sup> May 2022	Field trip	Visit to “ICRISAT”, Patancheru, Hyderabad.
6	9 <sup>th</sup> May 2022	Field trip	Visit to “Biogas Plant”, Bowenpally, Hyderabad.

26th June 2021 | Webinar | Drug Discovery and Opportunities in Industry | Resource person: Dr. Sarita Sharma, Principal Scientist, Lupin Ltd.

The screenshot displays a Zoom webinar interface. At the top, there are five participant cards: Makadiya Umang, ShashankChandra..., Sarita Sharma (highlighted with a green border), Aruna, and Richa Upadhyay. The main content area shows a slide titled "Approaches for the development of therapeutic antibodies" with four columns: (A) Mouse hybridoma, (B) Phage display, (C) Transgenic mouse, and (D) Single B cell. The slide details the processes from immunization to the final antibody product (Mouse mAb, Chimeric mAb, Humanized mAb, or Human mAb). A citation "Lu et. al, 2020" is visible at the bottom of the slide. On the right, the "Attendees (72)" list includes Kiran Battula (Host), Aruna (Co-Host), Sarita Sharma (Co-Host and Presenter), and several other participants.

Dr. Sarita Sharma has addressed the students, by initiating the talk with the most basics on drug discovery, using the terminologies they have learned during the course. She has explained about the challenges in the path of drug discovery, and investments of time and money by the industry, pointing out the opportunities to enter into this field. Further, she has explained her current works on the development of therapeutic antibodies. On this aspect, she has added a brief note on the historical methods to current developments.

**4th Jan 2022 | Inter-College Competition | Quiz competition on “Genetics and Molecular Biology”**



**5th Jan 2022 | Inter-College Competition | Poster, Power-point presentations and Exhibits on “Biotechnology Applications in Medicine and Agriculture”**

**An Inter-college  
Competition  
Date: 5<sup>th</sup> Jan 2022**

**Poster, Power-point  
presentations and  
Exhibits on  
“Biotechnology  
Applications in  
Medicine and  
Agriculture”**



**28th Jan 2022 | Webinar | DNA Fingerprinting and Applications | Resource Person: Dr. Varsha Srivastava, Scientist, Centre for DNA fingerprinting and Diagnostics**

**Webinar on  
DNA fingerprinting and Applications**  
Date: Friday | 28<sup>th</sup> January 2022 | Time: 4:00 PM

**Speaker  
Mrs. Varsha Srivastava**  
Scientist V ( Senior Scientist )  
Centre For DNA Fingerprinting and Diagnostics



Dr. Varsha, an expert scientist in this field has gracefully accepted our request, and presented the topic, by providing a lot of her experimental work in the form of images, which are advanced technical works, only possible to carry out in highly modernized labs. Further the respected scientist has provided many popular examples, which they have solved and by other experts. Students from first, second and third year have attended the program. They got involved in the subject, by asking many questions, and it was hard to end the session, for the overwhelming questions by them, which has shown that, the idea of this webinar was fulfilled.



**9th May 2022 | Field trip | Visit to “ICRISAT”, Patancheru, Hyderabad. | Resource Person: Dr. Arun, ICRISAT**



Dr. Arun has introduced to the students about the various activities of ICRISAT, which are Crop Improvement, Research and Development, Climate Resilience, Sustainable Farming Practices, Soil and Water Management, Pest and Disease Management, Nutrition and Food Security, and Farmer Training and Extension.

Dr. Varun also mentioned about the varieties they have developed, approaches they have taken in the development process, and showing the transgenics in the fields which they have developed

**9th May 2022 | Field trip | Visit to “Biogas Plant”, Bowenpally, Hyderabad. | Mr. Sandeep, Engineer, Biogas plant, Bowenpally, Hyderabad**



Mr. Sandeep has described the various steps in the production of biogas. He described the processes on processing the raw material, primary digestion process, secondary digestion process, the fermenters used in digestion, design of the fermenters, maintenance of the fermenters, collection of gas, purification of gas, compression of gas, and finally the supply of the gas. Students have learned the whole process of biogas production in live.