

Department of Biochemistry

Report on the training program on
“Basic Techniques in cell and Molecular biology”
Conducted at Centre for cellular and Molecular biology from
14th March-17th March, 2022.
Under DBT Star college scheme

The Department of biochemistry organized a four day training programme on “Basic techniques in cell and Molecular biology” from 14th -17th March, 2022 in association with Centre for Cellular and Molecular Biology,(CCMB). This programme was conducted under DBT star college scheme for the second and final year students of B. Sc (MBBCC). Eight students were trained for four days in techniques like DNA isolation, PCR amplification, Agarose gelelectrophoresis of DNA, cell culture, and SDS-PAGE of proteins. The students were provided with hands-on training in all the techniques.

On day 3, the students were taken on a visit to the ATAL incubation centre. They were explained about the different schemes available for start up as well as for development of Proof of concept (PoC). The students were given an overview of the various facilities available at the Atal Incubation centre.

The students were then taken for a half day visit to the various labs at Centre for Cellular and Molecular biology (CCMB), Tarnaka, Hyderabad. At CCMB, student were shown various high end equipment related to microscopy, protein characterization, and Proteomics. The students were also taken on a visit to the Drosophila Lab, where they were explained about the culturing, maintenance and breeding of Drosophila. They were also explained about the genetic studies that were being carried out on Drosophila. The students were also shown a video on the activities of LACONES(Lab for conservation of endangered species) and explained about the techniques used for tracking and identification of animals.

On the day 4, the programme ended with a valedictory note and distribution of participation certificates.



Dr.A.Sai Padma, Head, Dept of Biochemistry, BVC along with Dr B.Sravanthi, CCMB Students performig experiments at the training



Visit to Atal incubation centre at CCMB annexe



Students performing electrophoresis



Students performing cell culture experiments



Video presentation on Lacones



Students visiting labs at CCMB

Training in “Clinical Laboratory Diagnostics” at Vimta Labs

3rd to 9th September, 2019

The students of B.Sc, Biochemistry were taken to Vimta Labs, Cherlapally, Hyderabad for observership to gain experience in clinical laboratory setup. This programme was organized under the DBT-STAR COLLEGE SCHEME for undergraduate students from 3rd September, 2019 to 9th September, 2019. In the Clinical Reference Laboratory (CRL), students were given an extensive understanding of the procedures and were shown about the sample collection, processing, barcoding and segregation of various samples. Students were demonstrated about the high end automation used in clinical laboratories. They were also explained and demonstrated about the chemiluminescence immunoassays (CLIA) and serum protein electrophoresis. In the histopathology lab, they were shown the grossing, section cutting, staining and mounting of various biopsy samples. M.Sc Biochemistry students along with other life science students were also shown the same facilities to improve their diagnostic skills. Students have interacted with the staff and cleared their doubts. Overall, the training programme was an enriching experience to the students in terms of high level automation used in clinical diagnostics.



Training course on “Animal Cell Culture methods”at CCMB

12th February, 2019

Students of M.Sc Biochemistry have attended a training program conducted by Centre for Cellular and Molecular Biology (CCMB) on “Demonstration of Animal Cell Culture Methods” on 12th February, 2019. They have observed the steps in preparation of culture media and its sterilization, cell culture methods, freezing and revival of cells, staining and counting of cells in a counting chamber. Students had a good opportunity to learn and get exposed to various practical aspects of cell culture methods.

