

ACTIVITIES OF DEPARTMENT OF BIOTECHNOLOGY 2021-22

Student training program from **27 September - 1 October -2021** at Institute of Genetics, Begumpet, Hyd. On “Diagnosis & Management of Genetic diseases”.

The final year student's of Biotechnology have undergone training on various molecular biology techniques for understanding diseases .The main aim of this program was making them understand how cells work in healthy and diseased states, cell biologists working in animal, plant and medical science will be able to develop new vaccines, more effective medicines, plants with improved qualities and through increased knowledge a better understanding of how all living things live. Eventually it will be possible to produce a ‘health forecast’ by analysing your database of genetic and cell information. Using this you will be able to take more control over your health in a preventive way.

ORIENTATION PROGRAMME



LAB SESSIONS



The final year students of BtZC(36) attended workshop on Molecular and Clinical Genetics, the workshop included various techniques

Day 1. Lymphocyte culturing – chromosomal Analysis, karyotyping

Day 2. Evaluation of the DNA Damage using comet Assay

Day 3 Clinical Genetics

Day 4. Biochemical tests to determine genetic disorders,

Day 5. Pedigree analysis,

Day 6. Observing down syndrome patient in presence of doctor







Date: 01-10-2021

CERTIFICATE OF TRAINING

This is to certify that Ms. L. Prasanna has participated in Internship program on "Clinical Diagnosis, Cytogenetic, Biochemical & Molecular techniques in the Diagnosis of Genetic Diseases" from 27-09-2021 to 01-10-2021 at the Institute of Genetics and Hospital for Genetic Diseases Osmania University, Begumpet, Hyderabad.

A. Venkateshwarani

DIRECTOR

DIRECTOR
Institute of Genetics &
Hospital for Genetic Diseases
Osmania University
Begumpet, Hyderabad - 16.

Workshop on "Immunotechniques on 30-04-2022

A one day Workshop on "Immuno-techniques, based on Antigen-Antibody (AgAb) Interactions" was organized for students of B.Sc. Biotechnology II Year of our college.

A total of 50 students were registered for the workshop. The workshop was intended to provide a hands-on experience to students about immunological techniques being taught in theory but not practically, due to lack of funds. These techniques involved were,

immunoelectrophoresis, double immunodiffusion (ouchterlony method), single radial immunodiffusion (mancini's method) and enzyme linked immunosorbent assay, ELISA (sandwich method). These techniques are widely used in research and diagnosis and hence provide a good learning exposure to undergraduate students.

The workshop started on April 30, 2018 with a brief introduction about antigen, antibody and their interactions. Mrs. D.Kethura, Assistant Professor of Biotechnology, St. Ann's Degree College for Women, Mehdiapatnam, Hyderabad introduced these techniques briefly to students.

Firstly, immunoelectrophoresis was performed by students followed by double immunodiffusion; Radial immunodiffusion and sandwich ELISA were performed by students.

At last, students submitted their feedback wherein they expressed their willingness for many more such workshops in future.



