Immunology and Molecular Biology Teaching Laboratory (316):

This laboratory is located on the third floor of the department building and contains a large number of microscopes, PCR machines (Polymerase Chain Reaction), genome identification devices, and electrophoresis equipment for nucleic acids and proteins, along with workspace for the required experiments. The lab has a capacity of 25 students per practical session.

This laboratory includes the practical teaching of the following subjects:

1-Immunology and Serology: This course provides training on immunological testing techniques such as ELISA (Enzyme-Linked Immunosorbent Assay), PCR (Polymerase Chain Reaction), and antibody tests. It aims to train students on how to diagnose immune-related diseases and infections. Students learn the immunological laboratory methods performed in medical diagnostic laboratories using molecular and cellular techniques.

2-Molecular Biology: This course includes a practical component where students isolate genetic material from bacteria and then amplify specific genes using the polymerase chain reaction (PCR) method. Students also use restriction enzymes in gene cloning or excision processes, as well as in mapping genes and plasmids.

3-Diagnostic Genetics: This course covers recent advancements in the applications of genetic testing techniques and gene sequencing. It includes molecular genetic tests, genetic tests for individual genes, and identification of variations or mutations that lead to genetic disorders. Chromosomal genetic tests are also considered.


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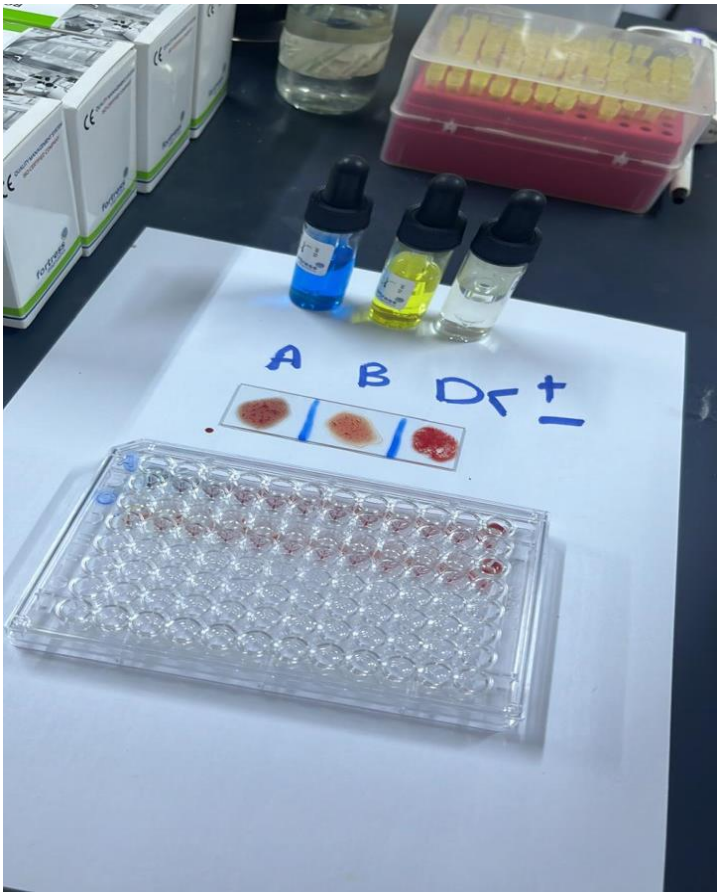
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