



Virtual Lab Manual

Polymerase Chain Reaction

Synopsis

In the Polymerase Chain Reaction (PCR) simulation, you will see through eight steps another reaction, similar to the one that takes place, to investigate the crime, understand how it took place, the subject about evidence in the field that the investigator will find at the crime scene.

Learning Goal

After completing you will get to the comprehensive knowledge the concept of DNA, you will learn the usage of primers in DNA sequencing, and the amplification from the crime scene. It is up to you to make the correct diagnosis accurately the PCR experiment.

How the structure of DNA works the replication of DNA

In the simulation, you will see the PCR experiment on the computer lab, illustrating the structure of DNA and the replication that includes all the correct information the experimental process, as well as all specifications of the PCR itself.

Identify the molecules

In the PCR simulation, you will collect your samples and other correct samples from the laboratory, and you will make complete the polymerase chain reaction, and you will identify the structure.

Learning Objectives

In the PCR simulation, you will see the objectives:

1. Identify the function of each polymerase, primer, template and dNTPs.
2. Explain the PCR process using the field, from a field scene to the laboratory.



Polymerase Chain Reaction Lab Instructor Manual

Jianjun Gao



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