

## **DNA Fingerprinting**

Please highlight all your answers with a yellow background or use a different color font that is easy to read.

### **LEARNING OBJECTIVES**

1. Describe the structure and function of DNA.
2. Describe the procedure of agarose gel electrophoresis and its application to DNA separation.
3. Perform selective DNA digestion using restriction enzymes.
4. Separate the DNA by electrophoresis and estimate the size of a DNA fragment.
5. Evaluate and interpret various scenarios by which DNA fingerprinting is used as a biotechnology tool to identify individuals and show whether individuals or animals are related to each other.

### **INTRODUCTION**

This experiment introduces the basic concepts of DNA fingerprinting, a method used in various medical and forensics procedures, as well as in paternity determinations. This protocol will demonstrate the similarities and differences in organisms at the genetic level. The basic concept of any DNA fingerprinting protocol includes the extraction of DNA from any cell, the restriction or cutting of the DNA by enzymes called endonucleases, and the analysis of the resulting DNA fragments using agarose gel electrophoresis.

Two basic techniques exist that allow analysis of DNA. Polymerase Chain Reaction (PCR) is commonly used in molecular and genetic research. Restriction Fragment Length Polymorphism (RFLP) analysis is another technique used to compare differences and similarities between individuals at the genetic level. We will use this second technique in our investigation. Many forensic scientists, including those involved with criminal investigations, use RFLP analysis in order to eliminate potential suspects related to a crime scene. For our experiment, you will be given five DNA samples, consisting of DNA collected from a crime scene and DNA collected from five different

# Dna Fingerprinting Study Guide Answers

**L Darling-Hammond**



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