

## Lab 10: Molecular PCR and ELISA

### Background Information

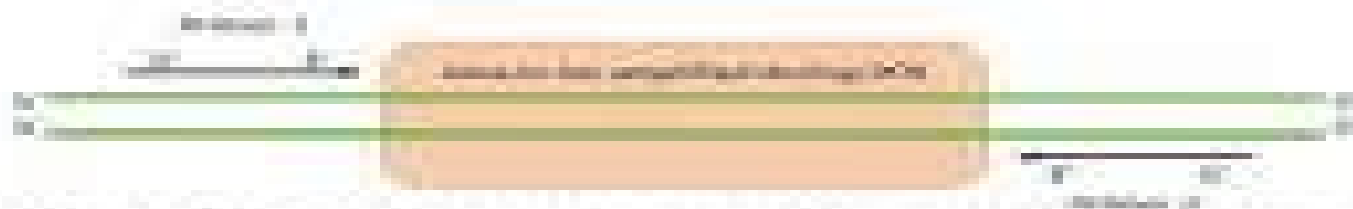
Each week you completed exercises related to the following concepts and laboratory techniques: immunology (IMM), DNA sequencing (DNA), and the polymerase chain reaction (PCR). Today you will gain hands-on experience performing a Polymerase Chain Reaction (PCR) and an enzyme-linked immunosorbent assay (ELISA).

PCR is a versatile technique that has been useful in detecting and identifying infectious etiologic agents associated with AIDS. In combination, PCR and enzyme-linked immunosorbent assay (ELISA) methods are used to detect past infections. This exercise is important for further understanding the development and spread of the virus. Encouragement is made that PCR cannot be used to detect past infections because of more prevalence of the body fluid or specific detection of time.

### Part I: PCR

#### Overview of PCR

Polymerase chain reaction (PCR) is a method for amplifying an entire viral infectious agent. Each of the individual base pairs within specific target sequences, and through the polymerase chain reaction (PCR) is copied as an entire copy. Polymerase chain reaction (PCR) is useful in amplifying a specific region of the genome. Additionally, we utilize this technique with both genomic and transcriptomic information (Figure 1), and the resulting DNA is often used for sequencing or for detection of specific sequences in a sample.



**Figure 1: PCR process.** The process involves amplification of a specific region of the genome using PCR. The amplified DNA is then used for sequencing or detection of specific sequences in a sample.

# Lab Manual For Pcr

**Annelies Wilder-Smith**



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