

LEARNING PROGRAM

FUNDAMENTAL MOLECULAR BIOLOGY

Hands-On Laboratory Course



COURSE OVERVIEW

DNA extraction Principles and Techniques

Understand the basic principles behind DNA extraction and how to assess the quality of your DNA. Gain insight into the exciting process of extracting genetic material from broccoli using our provided DNA isolation kit.

Polymerase Chain Reaction Proficiency

Elevate your comprehensive understanding as we delve into the intricacies of Polymerase Chain Reaction. Not only you will get to learn the principles behind PCR, but you will also have hands-on experience in performing PCR and understanding the various components required for a successful PCR reaction.

Gel Electrophoresis

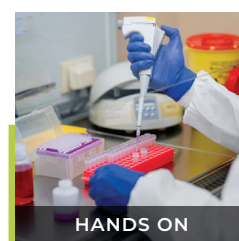
Conduct a crucial technique for separating DNA fragments and visualizing your PCR products. This learning include practical experimentation from casting agarose gels and loading samples into the gels to determination of the DNA molecular weight through the use of a reference DNA ladder.

Sanger Sequencing

Get to know more about Sanger sequencing, the key steps from sample preparation to data interpretation. Learn how to prepare your PCR products to be sent out for sequencing.

What will You get

- 2 Day of Course
- Free Lunch Break
- Certificate & Module



WHO CAN JOIN THIS PROGRAM?

Students and Educators who plan to carry out research that relies on PCR and sequencing methods and Anyone who is eager to expand their knowledge in molecular biology.