

HANDS-ON LEARNING PROGRAM

Real-TimePCR for Gene Expression

From RNA Extraction to qPCR for
Gene Expression Analysis.



LEARNING PROGRAM OVERVIEW

Quantitative PCR (qPCR) is a powerful and widely used technique for studying gene expression due to its sensitivity, specificity, and ability to provide quantitative data.

Are you interested in becoming proficient in qPCR and acquiring practical skills in gene expression analysis? **Join us for a comprehensive training program, from RNA extraction to qPCR for gene expression analysis.**

LEARNING PROGRAM COVERED

- Basic concepts and qPCR workflow.
- Considerations in designing your gene expression experiments
- **Hands-on Experiences:** Covering RNA isolation, cDNA synthesis, and setting up an appropriate qPCR experiment.
- Analysis steps for Relative Quantification using $\Delta\Delta C_q$ method.

WHAT WILL YOU GET

**DAY 1**

Fundamental theories of qPCR, RNA Extraction and QC.

**DAY 2**

Reverse transcription, qPCR preparation and quantification, Relative Quantification analysis.



- Free Lunch Break
- Certificate & Module