CYTOGENE RESEARCH & DEVELOPMENT LLP

Seven days online workshop

on

"Primer designing & Real Time PCR for gene expression analysis"

07 – 13 December 2022

(06:00 pm – 08:30 pm; Wed - Tue)

Day 1 – Introduction & Primer Designing

- Inaugural lecture on PCR and RT-PCR
- Primer Designing

Day 2 – Setup of PCR

- Brief Lecture on PCR
- Preparation of master Mix
- Setup of PCR
- Discussion of Result of PCR

Day 3 – Isolation of RNA

- Brief Lecture on Isolation of RNA
- RNA isolation from Swab
- Visualisation
- Quantification

Day 4 – cDNA synthesis

- Brief Lecture on cDNA synthesis
- Reverse Transcription PCR
- 1st strand CDNA Synthesis
- 2nd strand CDNA Synthesis

Day 5 – Holiday

- Sunday

Day 6 – qPCR Setup

- Brief Lecture on qPCR Setup
- qPCR Master mix preparation
- qPCR Running

Day 7 – Statistical Analysis

- Over view of results of qPCR
- qPCR Calculation
- qPCR statistical Analysis of results
- Question and answer session

Note: COVID-19 test will be considered for live demonstration.