

REGISTRATION FORM

Name:

Student ☐ Staff ☐

Institution:

Experience in PCR:

Low ☐ Medium ☐ High ☐

I would like to attend:

Day 1 ☐ Day 1-3 ☐ Day 1 & 2 ☐ Day 1 & 3 ☐

Workshop Fees:

	Student	Staff
Day 1 only:	RM 200	RM 300
Day 1-3 :	RM 300	RM 400
Day 1&2 :	RM 250	RM 350
Day 1&3 :	RM 280	RM 380

Mode of payment:

Cash ☐ Cheque ☐ PO ☐

Bank / Jurnal
Transfer

Vote .No :

The fee should be made payable to:

Account Name : Kira-Kira Am UPM

Bank Name : 12150005004050 (CIMB Bank)

SECRETARIAT

PCR WORKSHOP

Laboratory of Halal Science Research,
Halal Products Research Institute,
Putra Infoport, Universiti Putra Malaysia,
43400 Serdang, Selangor

No. Tel : 03- 89471344 / 1343 / 1034
/1843 / 1830 (Technical)
: 03-89471831 (Financial)

Email : beginnersworkshop@gmail.com

* Price excluded 6% GST where applicable

CONVENTIONAL AND REAL TIME PCR FOR BEGINNERS



Date: 15 – 17 December 2015

Time: 8.30 am – 5.00 pm

Venue: Laboratory of Halal Science Research,
Halal Products Research Institute, UPM

Organized by:



LABORATORY OF HALAL SCIENCE RESEARCH
HALAL PRODUCTS RESEARCH INSTITUTE, UPM

CONVENTIONAL AND REAL TIME PCR FOR BEGINNERS

OBJECTIVES

- To introduce principles and concept underlying PCR as a routine method used in research laboratory
- To enable attendees to design and evaluate their own primers and probe for PCR usage.
- To provide hands-on experience for both conventional and real time PCR
- To equip attendees with the ability for result analysis and basic problem troubleshooting in conventional and real time PCR

OVERVIEW

‘Conventional and Real Time PCR for Beginners’ is a specially designed workshop aims to provide useful step-by-step guided theoretical concepts and hands-on training for students or entry-level researchers who intended to enrich their knowledge or use PCR in their future research.

This specially structured workshop will equip the attendees with the theoretical concepts underlying conventional and real time PCR and tackles the first step of successful PCR; which is the primers and probe design. The attendees will be equipped with the knowledge and ability to design and evaluate their own primers and probes using their target sequence of interest. The attendees will be then bring to the complete experimental PCR workflow from sterile preparation of PCR reagent mixture, methodology input to the machine, software handling, result monitoring to result analysis and troubleshooting. Interactive session is also included to allow for massive discussion among attendees and experts.

It is hoped that this workshop will provide a beneficial platform for beginners to venture into the wide application of PCR in research and clinical field.

WHO SHOULD

- Undergraduate and Post-graduate students
- Science Officers/Lab assistant

Day 1 Tue, 15 December 2015	Theoretical Lectures:- <ul style="list-style-type: none">• Basic PCR concept• Primers and Probe: Design & Evaluation• Experimental design for Conventional and Real-Time PCR Interactive Session
Day 2 Wed, 16 December 2015	Hands-on:- <ul style="list-style-type: none">• Primers and probe design and evaluation• Introduction to Mastercycler <i>ep</i> gradient; conventional PCR machine, (Eppendorf)• Agarose gel electrophoresis of PCR products Result Analysis and Problem Troubleshooting
Day 3 Thu, 17 December 2015	Hands-on:- <ul style="list-style-type: none">• Introduction to Mastercycler <i>ep</i> realplex; real time PCR machine (Eppendorf)• Results Monitoring using Realplex software• Result analysis and Problem Troubleshooting Interactive Session Workshop Wrap-up: Closing speech