

## Course Details

Practical & demonstrations and hands-on training in the following molecular biology techniques

### Technique :-

DNA and RNA extraction,  
Quality check and quantification of DNA and RNA,  
Polymerase chain reaction (PCR),  
Gel electrophoresis: horizontal and vertical,  
Real time-PCR.  
DNA sequencer (Demonstrations)  
2D electrophoresis. (Demonstrations)

### Bioinformatics:-

locating the gene sequence of interest,  
SNP and somatic mutation database  
Primer designing.  
Identification of the sequenced PCR product,

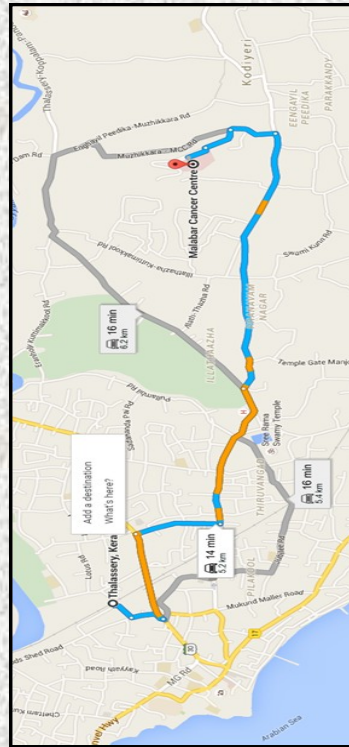
### Lectures :-

Elements of medical genetics,  
Real time PCR & PCR, DNA sequencing,  
High throughput screening for detection of mutations.



Workshop on "Basic Techniques in Molecular Biology in Clinical perspective - 2017"

## How to Reach



Travel Time from Thalassery Railway Station or Bus stand to Malabar Cancer Centre is around 15 minutes.  
Auto fair from Thalassery Railway Station to MCC: Rs80/-

### Trains and timing

#### **From Trivandrum (Arrival time at Thalassery)**

MALABAR EXP (16629) - 06:02AM  
MAVELI EXPRESS (16604) - 04:44AM  
MANGALORE EXP (16347) - 07:11 AM

#### **From Mangalore (Arrival time at Thalassery)**

MNGLA LKSDP EXP (12618)- 05:30 AM  
PARASURAM EXP (16649) - 07:44 AM

### Hotels for Stay and distance from MCC

The Pearlview Regency-0490 232 6702 (7KM)  
Soubhagya Residency-094460 82278 (6KM)  
Hotel Paris Presidency- 0490 234 2667 (5KM)  
Sree Gokulam Fort-490-2321222 (6KM)

## Workshop on "Basic Techniques in Molecular Biology in Clinical perspective - 2017"



Recent developments in molecular biology techniques have introduced a new dimension to the medical research laboratory and clinical diagnosis laboratory. It is very important for clinical and non-clinical medical professionals to gain fundamental knowledge of molecular biology techniques.

In view of the increasing importance of basic molecular biology techniques in clinical application, the division of Genetics, Malabar Cancer Centre Thalassery is organizing three days hands-on workshop in molecular techniques in clinical perspective, during 9 November 2017 to 12 November 2017.

The aim of this workshop is to provide participants with basic training in molecular biology tools, bioinformatics techniques and scientific concept. The current workshop covers important molecular biology techniques like DNA and RNA isolation, PCR, Real time PCR, electrophoresis, and sequencing. The training course has been designed especially for the young members with clinical background. We cordially invite you to participate in this clinical oriented workshop in molecular techniques.



Workshop on "Basic Techniques in Molecular Biology in Clinical perspective - 2017"

## MALABAR CANCER CENTRE

*Malabar Cancer Centre, an autonomous institution under Health and Family welfare department of Government of Kerala, thrives for excellence in the field of early detection, diagnosis and treatment of cancer. The institution is being developed as a state of art cancer centre with equal trust on clinical care, education and research. Various therapeutic, diagnostic and research departments are enriched with state of art equipment.*

*Vision "The development of an exponentially progressing high quality institution with equal trust on clinical care, oncology related education and multifaceted research."*

### DIVISION OF GENETICS & CYTOGENETICS

*Division started functioning during end 2014 under department of clinical laboratory services and translational research. Division is fully equipped with the state of art equipment for molecular studies. Division is mainly focusing to understand the molecular mechanism of tumorigenesis. Along with molecular research, division is also involved in the molecular diagnosis. Division is also focused on the HR development by providing short-term training for BSc, MSc life Science and B Sc MLT students and dissertation works for MSc/MD/MDS course.*



**Malabar Cancer Centre, Moozhikkara  
(PO)Thalassery , Kannur Kerala –PIN**

**Workshop on "Basic Techniques in Molecular Biology in Clinical perspective – 2017"**

## Objectives

- ⊗ Provide hands-on training in basic molecular tools required in clinical perspective and medical research.
- ⊗ Provide basic concepts of bio-informatics
- ⊗ Provide a knowledge base for medical genetics and related research.

**Targeted participants:-** Students doing MD/MDS or those who completed MD/MDS

**Selection Criteria:** A maximum of 12 participants will be selected, based on 'first-come first-served' basis.

**Registration fee** - Rs. 7500/-.

**Study material** :- Included

**Accommodation** :- Not Included

**Food** :- Tea, Snacks and Lunch

**Important dates** :-

Last date for registration:- 30th October 2017 , 5 pm

Date of confirmation - 2nd November 2017

**Date of workshop** - 9th November –12th November 2017.

**Venue** :- Division of Genetics; MCC, Thalassery

**Fee Deposition Details:-**

DD in favor of Director, Malabar Cancer Centre,  
Payable at Thalassery (only through Nationalized Banks)

**Note:-** Make the payment after provisional confirmation. For provisional confirmation:- send mail to

[divofgeneticsmcc@gmail.com](mailto:divofgeneticsmcc@gmail.com) or register online —

<https://goo.gl/forms/aBcFFkUt64GJNjL33>

**Final confirmation will be given after receipt of payment.**

### Organizing Committee

**Chief Patron:-** Prof. (Dr)Satheesan B (MCh), Director MCC

**Organizing Chairperson:-** Prof. (Dr)Sangeetha K Nayanar  
(MD Pathology) HOD, Dept. of CLS&TR

**Organizing Secretary:-**Dr. Deepak Roshan VG (PhD)

**Co-Organizing Secretary:-**Dr. Renjith P Nair (PhD)

Mrs Vincy  
Mrs Shreeja  
Mis Sheethal KP  
Mis Gopika



## Registration Form

Name	<input type="text"/>
Age	<input type="text"/>
Sex	<input type="text"/>
Qualification:	<input type="text"/>
Designation	<input type="text"/>
Institute	<input type="text"/>
E-mail:	<input type="text"/>

Address for correspondence: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone \_\_\_\_\_

Payment Details \_\_\_\_\_  
\_\_\_\_\_

Reason for your interest in this workshop \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Previous experience in molecular biology: Yes / No

If Yes details \_\_\_\_\_  
\_\_\_\_\_

Technique to which you are interest in this workshop \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Proposed future plan - Research / Clinical

Details \_\_\_\_\_  
\_\_\_\_\_

The duly-filled registration form with DD may be addressed to:

Dr. Deepak Roshan VG (PhD) Organizing Secretary  
Division of Genetics  
Dept of Clinical Laboratory Services & Translational  
Research  
Malabar Cancer Centre, Thalassery 670 103