



## Course details

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

### Technique :-

DNA and RNA extraction,  
Quality check and quantification of DNA and RNA,  
Polymerase chain reaction,  
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  
Identification of the PCR product,  
primer designing.

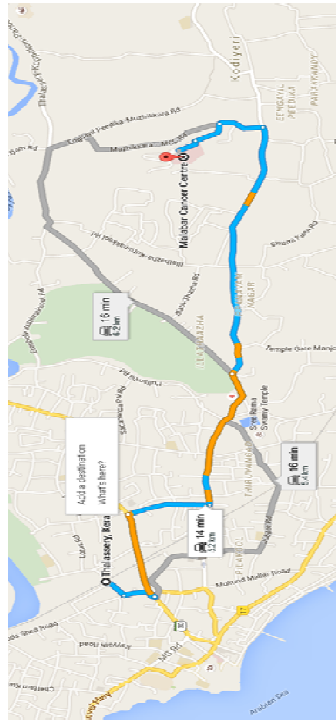
### Lectures :-

Elements of medical genetics,  
Real time& PCR, DNA sequencing,  
High throughput screening for detection of mutations.  
Statistical methods used to calculate sample size and analysis of genotype-phenotype data.



Workshop on "Basic Techniques in Molecular Biology in Clinical perspective" 2015

## How to Reach



Travel Time from Thalassery Railway Station to Malabar Cancer Centre is 0 hour(s) 13 min(s)  
Thalassery Railway Station to MCC auto fair Rs80/-

### Trains and timing

#### From Trivandrum (Time at thalassery)

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

#### From Mangalapuram (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)

## Malabar Cancer Center

*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 thrust 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.



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