



Molecular Microbiology Workshop at Tata Medical Center, Kolkata 12-16th Sept 2016

Availability of molecular techniques has changed the way infections are diagnosed and managed in 21st century. The next generation sequencing has been another feather in the cap of molecular techniques. However the development, standardization and validation of in-house PCR continue to be a task for many laboratories, and over-dependence on kit based PCRs often pose questions on cost-effectiveness of these molecular tools, leading to under utilization of these advancements. Tata Medical Center, Kolkata is in its 6th year of successful functioning and is a state-of-the-art cancer center, providing innovation and modern care to cancer patients.

Department of Microbiology, Tata Medical Center, Kolkata is organizing hands on workshop in molecular microbiology from 12-16th September 2016. The 5 days workshop would be held in Tata Medical Center, and MD/MSc microbiology residents and faculty are welcome to attend this workshop. The techniques to be discussed are as follows-

1. DNA extraction
2. RNA extraction
3. End point PCR
4. Real time PCR (Syber green, Taqman probe)
5. Melt curve analysis
6. Gel electrophoresis and documentation
7. DNA sequencing
8. Phylogenetic analysis
9. Duplex PCR
10. Quantitative PCR



Participants would get following PCRs hands on (or as a demonstration):

Bacteriology:

1. MRSA PCR
2. Bacterial identification by 16s r-DNA sequencing

Mycobacteriology:

1. MTB-MOTT identification by real time PCR
2. End point PCR, Melt curve analysis and DNA sequencing

Mycology:

1. Fungal DNA extraction
2. Aspergillus PCR
3. Candida PCR
4. Fungal identification by DNA sequencing

Virology:

1. Respiratory virus PCR
2. CMV quantitative PCR
3. HBV quantitative PCR
4. VZV PCR

Each day would start with a lecture, followed by demonstration and the hands on workshop. The lectures planned are-

1. Organization of a molecular biology laboratory
2. Quality control in molecular biology
3. Basics of next generation sequencing
4. Approach to the development of a PCR
5. Practical topics to be discussed for each day in lecture format.

Number of participants: The maximum number of participants would be twelve (12), on first come, first serve basis.



Course fee:

The workshop fee would be Rs. 7,500/- for MD/MSc students and Rs. 10,000/- for post MD/MSc participants. The fee includes course fee, course material, and breakfast- lunch on each day.

Accommodation:

Hospital guest house has limited accommodation and participants may avail the twin-shared accommodation for **Rs. 1,500/- per head per day (charges extra)**.

Registration: Send Demand Draft/at par cheque in favour of **Tata Medical Centre Trust** payable at Kolkata.

Application should have name, address, contact details (email, mobile), and current position (**see application form below**). Alternatively, send by NEFT using the following details:

Payee Name: TATA MEDICAL CENTRE TRUST; **Bank Name:** HDFC BANK LTD.

Bank Address: Fort Mumbai, Manekji Wadia Building, Ground Floor, Nanik Motwani Marg, Mumbai-400001

Account no.: 00601660000021; **Account Type:** Savings; **IFSC Code:** HDFC0000060; **MICR Number:** 400240015; **Swift code:** HDFCINBB

Application: Send **DD/cheque (or soft copy of NEFT receipt) and email** to Dr. Gaurav Goel, Consultant Microbiologist (email: gaurav.goel@tmckolkata.com; Contact number: 98310-39415) OR Dr. Sanjay Bhattacharya, Senior Consultant Microbiologist, South Lab, Tata Medical Center, 14 Major Arterial Road (E-W), Newtown, Rajarhat. Kolkata 700 156, India. Email: sanjay.bhattacharya@tmckolkata.com; Contact number: 94323-44206.

For more details about the institution please visit the hospital website at www.tmckolkata.com



**Application form
Molecular Microbiology Workshop at
Tata Medical Center, Kolkata
12-16th Sept 2016**

Name (in Block capitals as you would like to be on the certificate):

Age:

Gender:

Qualification:

Current designation:

Current Institution:

Guest house accommodation requirements: Yes/No (fee to be paid later)

Meal choice: Vegetarian/ Non-vegetarian

Email:

Mobile number:

Experience in molecular biology:

Primary area of work:

Registration fee paid by: Cheque/DD/NEFT

Details of Cheque/DD/NEFT (reference number):

Amount paid:

Date:

Signature and stamp of the HOD in case the applicant is an MD/MSc student: