

## CCRF HANDS-ON WORKSHOP SERIES-I

### “Hands-on Training in Polymerase Chain Reaction (PCR), RT-PCR & Real- Time PCR Technique: Application in Diagnostics & Research”



This is to inform you that we received an overwhelming response with request from 145 applicants for participation in the first workshop organised by General Facility, CCRF, scheduled to be held on the **27<sup>th</sup> and 28<sup>th</sup> February 2020**. Due to the restriction in space and resources, we have selected 20 participants for the hands-on training. **However, all the applicants, who are not shortlisted for registration for the hands-on training, are welcome to attend the lectures to be delivered in the forenoon on both days.** The details of the Program and venue are attached.

### List of finally selected candidates for CCRF Hands-on Workshop Series-I

<b>Title</b>	<b>First Name</b>	<b>Middle Name</b>	<b>Last Name</b>	<b>Department</b>	<b>Current Position</b>
Dr.	Sudheer	Kumar	Arava	Pathology	Additional Professor
Dr.	Niraj		Kumar	Neuroanesthesiology & Critical Care	Additional Professor
Dr.	Aruna		Nambirajan	Pathology	Assistant Professor
Dr.	Tushar		Sehgal	Laboratory Medicine	Assistant Professor
Dr.	Priyam		Batra	Laboratory Medicine	Assistant Professor
Dr.	Maitrayee		Narayan	Microbiology	JR
Dr.	Nellai Krishnan		S	Paediatric Surgery	JR
Dr.	Ranjan		Yadav	Laboratory Medicine	JR
Ms.	Pramila		Pramila	Reproductive Biology	PhD Scholar
Ms.	Puja		Sohal	Pulmonary critical care and sleep medicine	PhD Scholar
Ms.	Urja		Jaiswal	Physiology	PhD Scholar
Mr.	Atanu		Sen	Cardiac Biochemistry	PhD Scholar
Mr.	Lal	Chandra	Vishwakarma	Physiology	PhD Scholar
Ms.	Jyoti		Sharma	Neurology	PhD Scholar
Ms.	Soumya	S.	Pattnaik	Pharmacology	PhD Scholar
Mr.	Brijesh		Kumar	Pediatrics	PhD Scholar
Dr.	Naveen	L	Gupta	Gastroenterology	PhD Scholar
Dr.	Soumya	Jagannath	Mahapatra	Gastroenterology	Research Associate
Dr.	Suman		Lata	Hematology	Scientist-II
Dr.	Jasmeet Singh		Singh	Blood Bank	SR
Dr.	Kishore		Sesham	Anatomy	SR

# CCRF HANDS-ON WORKSHOP SERIES-I



## “Hands-on Training in Polymerase Chain Reaction (PCR), RT-PCR & Real- Time PCR Technique: Application in Diagnostics & Research”



Organized by

GENERAL FACILITY, CCRF

All India Institute of Medical Sciences, New Delhi  
(Venue: 9<sup>th</sup> Floor, General Facility, CCRF, AIIMS New Delhi)  
27<sup>th</sup>-28<sup>th</sup> February, 2020

Time	Day 1 (27/02/2020, Thursday)	
9.15am to 9:30am	<b>Registration for workshop participants</b>	
<b>Inauguration of workshop</b> <b>Venue: SET Facility, 2<sup>nd</sup> floor, Convergence Block</b>		
9:30am to 9:45am	Welcome address and Introduction to the Workshop	Prof. Chitra Sarkar Dean Research
<b>SESSION I</b>		
Time	Topics	Speakers
9:45am to 10:45 am	DNA isolation from different biological samples (Principles, procedure & troubleshooting)	Dr. Archana Singh/ Dr. Amit Singh
10:45am to 11:45am	RNA isolation from different biological samples (Principles, procedure, precautions & troubleshooting)	Dr. Sudip Sen Dr. Amit Singh
11:45am to 12:00pm	<b>Tea</b>	
12:00pm to 1:00pm	Primer designing (manual & online software) and standardization of primers for PCR & Real-Time PCR	Prof. Kunzang Chosdol Dr. Vikas Sharma
1:00pm to 1:50pm	Polymerase Chain Reaction: Principles, application & troubleshooting	Prof. Kunzang Chosdol Dr. Vikas Sharma
1:50pm to 2:00pm	<b>Feedback of session I</b>	
2:00pm to 2:45pm	<b>Lunch</b>	
<b>SESSION II</b>		
<b>Venue: General Facility, 9<sup>th</sup> Floor, CCRF, Convergence Block</b>		
2:45pm to 3:45pm	Hands-on: DNA extraction from blood/ cell line	
3:45pm to 4:45pm	Hands-on: RNA extraction from cancer cell line	
4:45pm to 4:50pm	<b>Tea</b>	
4:50pm to 5:10pm	Hands-on: DNA & RNA- Quantity/Purity/Quality check	
5:10pm to 5:45pm	Hands-on: Preparation of reaction mix and PCR amplification	
5:45pm to 6:00pm	<b>Feedback of session II</b>	

**DAY 2 (28/02/2020, Friday)****SESSION III****Venue: Demo Room, 3<sup>rd</sup> Floor, Biochemistry, Teaching Block**

9:00am to 9:10am	Review and Preview	Prof. P Chattopadhyay
9:10am to 10:00am	Gel Electrophoresis: Principle, Procedure and Troubleshooting	Dr. Riyaz A. Mir/ Dr Vikas
10:00am to 11:00am	Real-Time PCR: Principles and Applications	Prof. P Chattopadhyay Prof. R. Goswami
11:00 to 11:15 am	<b>Director's Address</b>	
11:15am to 11:30am	<b>Tea</b>	
11:30am to 12:30pm	Hands-on: Agarose gel preparation, DNA loading, Electrophoresis & troubleshooting	
12:30pm to 1:15pm	Hands-on: cDNA Preparation	
1:15pm to 1:50pm	Hands-on: Gel imaging & analysis/ troubleshooting	
1:50pm to 2:00pm	<b>Feedback of session III</b>	
2:00pm to 2:30pm	<b>Lunch</b>	
<b>2:30-5:45pm</b>	<b>SESSION IV</b>	
	<b>Venue: General Facility, 9<sup>th</sup> Floor, CCRF, Convergence Block</b>	
<b>2:30-5:45pm</b>	<b>Hands-on: Real-time PCR</b>	
2:30-3:15pm	Hands on: Reaction setup(1 hr) followed by Real-time PCR Run (1hr 10 minutes)	
3:15pm to 3:35pm	Common situations where expert advice is required	Dr Vineet Ahuja, Dr P Chattopadhyay Dr Kalpana Luthra Dr R Lakshmi Dr K. Chosdol
3:35pm to 4:00 pm	Quiz- MCQs- <b>Prizes for first three</b>	Dr Vikas Sharma Dr Amit Singh
4:00 to 4:15pm	<b>Tea</b>	
4:15pm to 6:00pm	Hands-on: Real-time data analysis and troubleshooting	
6:00pm to 6:15pm	Discussion & Feedback of session IV	