



Hands- on Workshop on “Real Time PCR -Gene Expression Analysis”

Workshop Date: Proposed Date 28th and 29th December 2021

Venue: BIOTECH PARK, Lucknow.

About the Workshop:

The workshop designated to give participants a combination of lectures and hands on laboratory experience in quantitative Real Time - Polymerase chain reaction and analysis. The hands on exposure of RT-PCR will add clear concept in mind about working of the instruments and steps involved in RNA isolation and quantification, cDNA synthesis, setting of RT-PCR and analysis of results. Hands on experimental exposure will help the delegates to understand and apply the techniques in their project/Thesis work.

How to Register?

Send the duly filled registration form (attached) by Email : services@biotechpark.org.in .Selected participants will be intimated through mail , only selected participants will pay the workshop registration fee by online mode (g-pay, paytm, upi) (Bank details given) and payment details may be sent along with registration form on or before 27th Dec, 2021.

Maximum Number of Seats: 30 Participants

- 1)Participants should bring their note book and pen
- 2)Lunch and refreshment will be provided
- 3)Participants should wear lab coat and ID CARD

Resource Persons: Chief Guest- Dr. A.K. Singh, CEO Biotech Park

1. Dr.Samir V Savant, Chief Scientist, Molecular and Genetics Biology NBRI, CSIR (Speaker & Guest of Honour)
2. Dr. Jaya Nigam, (RA) KGMU
3. Dr. Anuj Pandey, (SRF) IITR Lucknow
4. Dr. Kasif Khan, Consultant Scientist, Biotech Park
5. Dr. Umashankar, Former Consultant Scientist, Biotech Park, (Coordinator)

Important Dates:

Registration (Starts): 7th December, 2021. Last date of Registration: 27th December, 2021

Registration Fee: Rs. 1500/-

Fee Payment Details:

Indian Overseas Bank, CEO Biotech Park Lucknow

Account No. 179202000000068

IFSC Code: IOBA0001792

Kursi Road Branch 1792, Jankipuram, Lucknow

Contact: **Dr. Kashif Khan**, ph: 0522-4012091/2365050, 09918877444

Email: nextgen.kashif@gmail.com /services@biotechpark.org.in

28th December 2021
Workshop - Day 1

Lectures	
Inauguration	10:00 a.m – 10:30 a.m.
Introduction, Basics and Principles & Applications – “RT-PCR and its application” Dr. Samir Sawant, Chief Scientist, Molecular and Genetics Biology, NBRI, Lucknow	10:30 a.m – 11:15 a.m
Methods, selection guidelines, Precautions and Quantification “RNA Isolation and Quantification” Dr. Jaya Nigam, KGMU, Lucknow	11:20 a.m – 11:45 a.m
Tea Break	11:50 a.m – 12:15 p.m
Principles, cDNA master mix, preparation, “cDNA synthesis” (Wet Lab)- Dr. Anuj Pandey, IITR, Lucknow Dr. Jaya Nigam, KGMU, Lucknow	12:15 p.m.– 1:00 p.m.
Lunch	1:00p.m -2:00 p.m
Primer design and quality check- “Primer Designing” Dr. Ankit Verma - Israel	2:00p.m -2:30 p.m
Question Session	2:40p.m -3:00 p.m

29th December 2021
Workshop - Day 2

Lecture	Timing
Principles, detection chemistry and selection guidelines – “RT-PCR Preparation of reaction mixture” Dr. Jaya Nigam, KGMU, Lucknow	10:00 a.m. – 10:30 a.m.
Lab demonstration – “RT PCR Preparation of reaction mixture and PCR Run”. Dr. Anuj Pandey, IITR, Lucknow	10:30 a.m. – 12:30 p.m.
Question Session	12:30 p.m. – 12:55 p.m.
Lunch	1:00-2:00 p.m.
Calculation basics – methods, data interpretations – “PCR Result Analysis” Dr. Anuj Pandey, IITR, Lucknow	2:10 p.m.-2:30 p.m.
Certificate distribution & Vote of thanks Dr. Kasif Khan Consultant - Biotech Park	2:40 p.m.-3:00 p.m.

Hands-on Workshop on Real Time PCR-Gene Expression Analysis

Date: 28th & 29th December, 2021

Registration Form

Name of the student:	
UG & PG (B.Tech, B.Sc, M.Tech, M.Sc)	
Institute/Department:	
Mobile No:	
Email:	
Date:	
Place:	

Signature of the applicant