



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

**Workshop Date: Proposed Date 11<sup>th</sup> and 12<sup>th</sup> March 2022**

**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:- nextgen.kashif@gmail.com 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 10<sup>th</sup> March 2022

### **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

### **Chief Guest- Dr. A.K. Singh, CEO Biotech Park**

### **Resource Persons:**

1. Dr. Vidhu Sane (ACSIR ) Sr Principal Scientist Molecular Biology  
CSIR – NBRI Government of Indian
2. Dr. Jaya Nigam, (RA)KGMU
3. Dr. Anuj Pandey, (SRF) IITR Lucknow
4. Dr. Kashif Khan, Consultant Scientist, Biotech Park
5. Dr. Umashankar, Consultant Scientist, Biotech Park, (Coordinator)

### **Important Dates:**

Registration (Starts): 18<sup>th</sup> February, 2022. Last date of Registration: 10<sup>th</sup> March, 2022

**Registration Fee: Rs. 1500/-**

### **Fee Payment Details:**

Indian Overseas Bank, CEO Biotech Park Lucknow

Account No. 179202000000068

IFSC Code: IOBA0001792

Kursi Road Branch1792, Jankipuram, Lucknow

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

Email: [nextgen.kashif@gmail.com](mailto:nextgen.kashif@gmail.com) / [ushankar@rediffmail.com](mailto:ushankar@rediffmail.com)

Contact Dr. Umashankar Phone No: - 07379315555

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**11<sup>th</sup> March 2022**  
**Workshop - Day 1**

<b>Lectures</b>	
Inauguration	10:00 a.m – 10:30 a.m.
Dr. Vidhu Sane (ACSIR ) Sr Principal Scientist Molecular Biology CSIR – NBRI Government of Indian  Introduction, Basics and Principles & Applications – <b>“RT-PCR and its application”</b>	10:30 a.m – 11:15 a.m
Methods, selection guidelines, Precautions and Quantification <b>“RNA Isolation and Quantification”</b> 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, <b>“cDNA synthesis”</b> (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- <b>“Primer Designing”</b> Dr. Ankit Verma - Israel	2:00p.m -2:30 p.m
Question Session	2:40p.m -3:00 p.m

**12<sup>th</sup> March 2022**  
**Workshop - Day 2**

Lecture	Timing
Principles, detection chemistry and selection guidelines – <b>“RT-PCR Preparation of reaction mixture”</b> Dr. Jaya Nigam, KGMU, Lucknow	10:00 a.m. – 10:30 a.m.
Lab demonstration – <b>“RT PCR Preparation of reaction mixture and PCR Run”.</b> 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 – <b>“PCR Result Analysis”</b> Dr. Anuj Pandey, IITR, Lucknow	2:10 p.m.-2:30 p.m.
Vote of thanks Dr. Kashif Khan Consultant - Biotech Park	2:40 p.m.-3:00 p.m.

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

Date: 11<sup>th</sup> & 12<sup>th</sup> March, 2022

## 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