

# PCR & RT PCR

## A Hands on Workshop

11<sup>th</sup> to 13<sup>th</sup> March 2020

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PCR is one of the most powerful techniques in Molecular Biology. In recent years, Real Time PCR, a variant of PCR is revolutionizing gene detection and gene expression analysis. Real Time PCR technique finds place in a wide range of applications including clinical diagnostics, biodefense, RNA expression studies, validation of array data, mutation detection, food authenticity and legislation, NASBA, molecular haplotyping, and much more. The success of a Real Time PCR assay depends on purity of RNA, Primer Sequence, Reaction Chemistry and many other factors.

## PCR & RT PCR

This three-day workshop will have a combination of lectures and hands on experience in doing PCR and Real-Time PCR. The sessions will include

- 1 An Overview of Gene Expression
- 2 Gene Specific PCR
- 3 First Strand cDNA Synthesis and Amplification
- 4 Real Time PCR Assay Design and Optimization
- 5 Analysis of Results and Troubleshooting

### The Workshop is intended for



Innovators /  
Bioscientific  
Entrepreneurs



Professionals



Faculty members



Research Scholars /  
Students working in  
the relevant area

## REGISTRATION

**Program Duration :** 3 days **Program fee :** Rs, 5,000/-  
Course kit, lunch and refreshments will be provided to the participants.

**Mode of Payment :** DD/cheques drawn in favour of PSG – STEP, payable at Coimbatore.

**Last date :** Filled in registration forms along with payment details should reach PSG-STEP on or before March 10, 2020.

Registrations are welcome on first come first serve basis.

No. of participants are limited to 20. Shared accommodation will be provided upon request at nominal cost at PSG Guest House subject to availability.

# “ ABOUT PSG-STEP BIRAC BioNEST ”



PSG – STEP: BioNEST Bioincubator is established at PSG College of Technology with the support from Biotechnology Industry Research Assistance Council (BIRAC), Govt. of India. The incubation centre leverages the strengths and resources of PSG Group of Institutions with the aim of accelerating biotechnological product development and promoting startups in Healthcare, Industrial, Environmental, Food and Agricultural Biotechnology. The Bioincubator provides infrastructure, funding, technical mentoring and instrumentation facility to help product prototyping, scaling up and commercialization. The state of art facility fosters prospective bio-entrepreneurs and biotech startups to make their dreams a reality.



## ABOUT THE DEPARTMENT

The Department of Biotechnology in PSG College of Technology was started in the year 2000 and has been working in the areas of Recombinant Protein Expression & Purification, Genetic Modification in Crops, Biofuels, Bioprocess Development, Biosensors and Human Diseases. It has received several research grants from DST, DBT, DRDO, ICMR, UGC, AICTE, Grand Challenge Canada & Newton Baba Fund and is well equipped with laboratories to support Academics and Research. The department has facilities to carry out Gene Identification, Characterization and Expression Studies.

### For Details

PSG-STEP:BioNEST

PSG – Science & Technology Entrepreneurial Park (PSG-STEP)

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