Workshop

on

Real-Time PCR: Gene Expression & Quantification

26th February, 2019



Quantitative real-time PCR (qPCR), the state-of-the-art technology is a molecular biology based laboratory technique for amplification and simultaneous quantification of a targeted DNA. This specialized reaction follows the principles of regular PCR in 'real time' instead of detecting the end product at the end. Quantitative PCR is carried out in a thermal cycler with the capacity to illuminate each sample with a beam of light of a specified wavelength and detect the fluorescence emitted by the excited fluorophore.

There are two methods for the detection of amplified products in Real-time PCR:

Non-specific fluorescent dyes (SYBR Green)

• Sequence-specific Hydrolysis (TaqMan) DNA probes The participants would get a hands on training on RNA isolation, qualitative and quantitative analysis of RNA, cDNA synthesis, Real Time PCR and data analysis. This workshop is not only designed for those with little or no experience in qRT PCR, but will also benefit researchers participants only & selection will be who are struggling with this technique. The workshop will made on first come first serve basis. also involve a comprehensive talk to cover basics of experimental Primer designing setup, and troubleshooting.

Expert Speaker

Dr. Alok Gupta Molecular Biology Expert, HiMedia

Prof. Rajbir Singh Hon'ble Vice Chancellor PATRON Prof. Pushpa Dahiya Dean, Faculty of Life Sciences **CONVENER**

PATRON IN CHIEF

Participants (Faculty members/Research scholars) should submit their Registration Form to Drirector, Centre for Biotechnology SS Gill (Lab No. 220, CBT, MDUR)

send by e-mail to ssgill14@gmail.com

*Registration deadline: 20th February, 2019 The entry is restricted to sixty Attendees have to mark the

attendance at 9:30 AM in CBT.

Prof. Anil K. Chhillar **Co-CONVENER**

Prof. PK Mehta Centre for Biotechnology

ORGANIZING SECRETARY Dr. Sarvajeet S. Gill

> & Dr. Ritu Gill Centre for Biotechnology, MDUR

E mail: ssgill14@gmail.com Contact: +91-9813857715

JOINT-ORGANIZING SECRETARY

Dr. Vikas Hooda, Dr. Samander Kaushik, Dr. Darshana Chaudhary, Dr. NP Singh Centre for Biotechnology, MD University, Rohtak



MAHARSHI DAYANAND UNIVERSITY Rohtak-124001, Haryana (INDIA)

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Centre for Biotechnology MAHARSHI DAYANAND UNIVERSITY, Rohtak Work-shop on

"Real-Time PCR: Gene Expression & Quantification" REGISTRATION FORM

Name:
Designation:
Department:
Affiliation:
Gender (M/F):
Mobile:
E mail:
Date:

Signature