**EVENT DETAILS** 

Registration begins: 07/02/2020

Registration closes: 10/03/2020

Workshop Date:

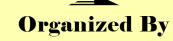
March 19-21, 2020

Prof. U. N. Dwivedi

Institute for Development of
Advanced Computing

ONGC Centre for Advanced Studies University of Lucknow Lucknow-226007

## ON TOOLS OF BIOINFORMATICS AND TECHNIQUES IN MOLECULAR BIOLOGY MARCH 19–21, 2020



Institute for Development of Advanced Computing ONGC-Centre for Advanced Studies

In collaboration with

Centre of Excellence in Computational Biology

&

Centre of Excellence in Bioinformatics & Bioinformatics Infrastructure Facility
University of Lucknow
Lucknow-226007



- ♦ DNA/RNA isolation
- Agarose gel electrophoresis
- Conventional PCR
- Real Time PCR
- Primer designing
- Gene cloning (theoretical aspect)
- ♦ Bioinformatics overview
- Gene annotation
- A/T/G/C content analysis
- Identification of direct, inverted and tandem repeats in DNA sequences
- Identification of transcription factor binding sites (TFBS) with weight matrix and SITECON algorithms
- Identification of open reading frame (ORF)
- Identification of restriction sites
- Docking analysis

## OBJECTIVES OF THE WORKSHOP

The objective of the training program is to give exposure to the participants to concepts, skills and tools to provide hands on training on basic molecular biology techniques such as DNA/RNA isolation, PCR along with real time PCR and various bioinformatics proaches such as Gene annotation, A/T/G/C content analysis, Identification of repeats in DNA sequences, ORF, TFBS, restriction sites and molecular docking through various tools and software.



Date	March 19-21, 2020
Duration	3 days
Subject of area	Molecular Biology, Bio- informatics
Methodology	Lectures, Demos with Hands on session
Level of participants	Faculty, Research Scholars and Students from various colleges, universities and re- search organizations
Prerequisites	Minimum skill in opera- tion of computer
No. of participants	20
Registration fee	Rs 3000/-

## Procedure for selection

- Submission of CV before deadline via E-mail: idac.event@gmail.com
- Fee submission before deadline
- All selection will be done on first come first serve basis
- Communication via Email Only

## **REGISTRATION FORM**

Name
Date of Birth
Department and Institution
Address
Educational Qualification
Phone/ Mobile
E-Mail
Mode of Payment (DD only)
DD No.
DD Date
Applicant's Signature
Signature of Supervisor/ Head of Department/ PI