

## 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

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



## Organized By

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

## COURSE CONTENT

- ◆ 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 approaches 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.



<b>Date</b>	<b>March 19-21, 2020</b>
<b>Duration</b>	<b>3 days</b>
<b>Subject of area</b>	<b>Molecular Biology, Bioinformatics</b>
<b>Methodology</b>	<b>Lectures, Demos with Hands on session</b>
<b>Level of participants</b>	<b>Faculty, Research Scholars and Students from various colleges, universities and research organizations</b>
<b>Prerequisites</b>	<b>Minimum skill in operation of computer</b>
<b>No. of participants</b>	<b>20</b>
<b>Registration fee</b>	<b>Rs 3000/-</b>

### Procedure for selection

- **Submission of CV before deadline via E-mail: [idac.event@gmail.com](mailto: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