



Training on

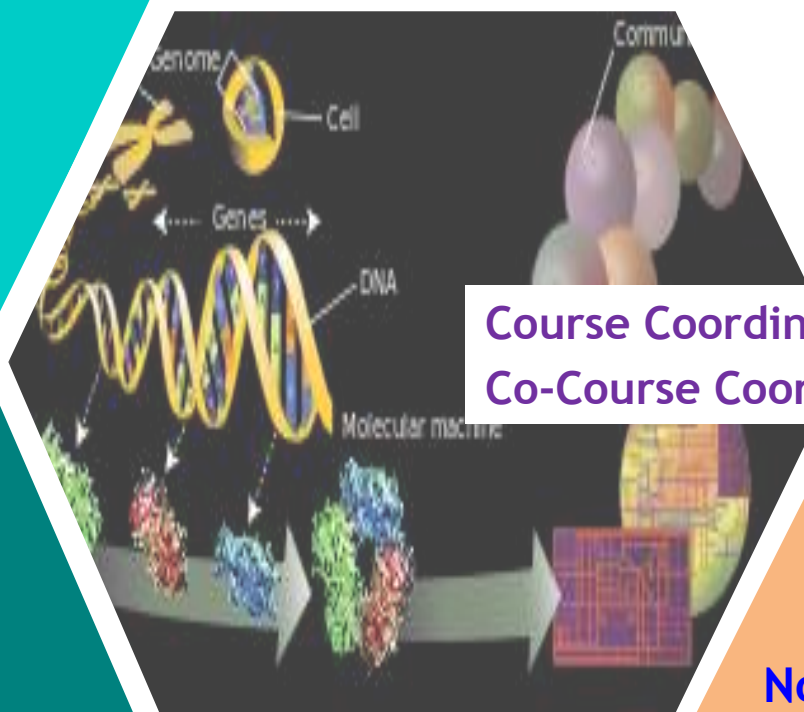
Recent Advances of Bioinformatics in Agricultural Research: A Practical Perspective

February 01-21, 2019

Sponsoring Authority

HRM Unit, Ag. Education Division

Indian Council of Agricultural Research, New Delhi



Course Coordinator : Md. Samir Farooqi
Co-Course Coordinator : Dr. K.K. Chaturvedi

No. of Participants: 25

Last Date for Receipt of Nomination
December 15, 2018

Intimation to Selected Candidates
December 20, 2018



Centre for Agricultural Bioinformatics

ICAR-Indian Agricultural Statistics Research Institute

Library Avenue, PUSA, New Delhi - 110012

<http://cabgrid.res.in/cabin>; <http://iasri.icar.gov.in>

Introduction

Bioinformatics is an interdisciplinary field comprises of biology, statistics and computer science. During the last two decades, enormous data has been generated by labs in biological science, due to faster and cost efficient genome sequencing technologies. Bioinformatics plays vital role in knowledge mining from this data. It also enables storage, retrieval, analysis, annotation and visualization of results to promote better understanding of biological systems in their entirety. This leads to development of efficient variety/ commodity/ products/ materials/tools and techniques for sustainable agriculture development. The main aim of this training program is to provide an overview of bioinformatics and its applications in agriculture to the participants. This training mainly consists of modules on genomics, transcriptomics, proteomics, metagenomics and systems biology. Special emphasis will be laid on concepts, practical implementation, issues and solutions related to agricultural bioinformatics.

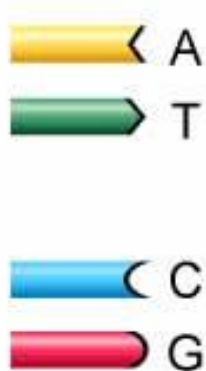
ABOUT ICAR-IASRI

ICAR-IASRI is mainly responsible for conducting research and imparting education/training in the field of Agricultural Statistics, Computer Applications and Bioinformatics for human resource development as well as to bridge the gaps in the existing knowledge. The Institute has used the power of Statistics blended judiciously with Computer Application and Bioinformatics for improving the quality of Agricultural Research. With the passage of time the institute has equipped itself with the modern facilities and advanced techniques to meet the requirements in the changed scenario.

Super-Computing Facility (ASHOKA)

Institute has established a high performance computing facility with 256 node linux, 16 node GP-GPU, 16 node Windows and one SMP cluster. This facility has high speed connectivity and available to researchers through National Agricultural Bio-computing portal. As per requirement of the scientists of NARES, most of the important bioinformatics software have been installed along with commercial software such as CLC-Bio, Discovery Studio, Blast2Go and Molquest.





Objectives

- To apprise the participants about the concepts of Bioinformatics and its application in agriculture.
- To demonstrate applications of bioinformatics in agriculture through hands on session.

Modules of the Course

- Concepts of Bioinformatics
- Assembly and Annotation of NGS Data
- RNA Seq Data Analysis
- Machine Learning Techniques in Bioinformatics
- SSR/SNP Mining
- Protein-Protein Interaction and Modeling

Library Facility

The Institute has a fully furnished computerized library having important and latest books and journals relating to Statistics, Computer Science, Mathematics and Bioinformatics.

Boarding & Lodging

TA/DA for the participants will be borne by their respective sponsoring institutes of the trainees. Boarding and Lodging will be arranged by the participants themselves. Working Lunch and morning tea will be provided .



Eligibility

The candidates must possess Master's degree in any discipline of Agricultural/Allied Sciences/Veterinary Sciences/Fisheries etc. He/She should be working (position not below the rank of Scientist/Assistant Professor) in NARES which includes ICAR Directorates/NRCs/KVKs/Institutes/State Agricultural Universities/Central Agricultural Universities/Faculty of Agriculture under Central Universities, etc.

Weather

During February, New Delhi experiences cold weather. Participants are advised to carry woollen clothes.

Nominations

The application for participants must be filled in the format given below. The application should be approved and forwarded by the competent authority of the organization. The scanned copy of application can be sent by e-mail in advance.

Format of Application

Name:
Designation & Basic Pay:
Discipline:
Date of birth:
Gender (M/F):
Educational qualifications:
Experience (in years):
Details of experience:
Present employer's address:
Correspondence Address:
E-mail:
Contact no. :
Level of knowledge of Computers:
Draft Details: DD No.: Date: Bank Name:
Participation in training programmes (details) during past one year:
Signature of the applicant with date
It is certified that information furnished above is correct.
Signature (of recommending authority with date along with seal)

Note: Application fee for Non-ICAR candidates will be Rs. 8000/-.

DD should be drawn in the favor of Director, IASRI, New Delhi

Dr. L.M. Bhar

Director (A)

Email: director.iasri@icar.gov.in

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Dr. Anil Rai

Head (CABin)

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