हर कदम, हर डगर
किसानों का हमसफर
भारतीय कृषि अनुसंधान परिषद
Agrisearch with a human touch

Training Program
on
Cutting-Edge Omics Data Analysis in Agriculture using AI
21-26 May,2026

Sponsoring Project:

DBT-Establishment of Centre for Bioinformatics and Computational Biology in Agriculture-BIC

at

ICAR-Indian Agricultural Statistics Research Institute

Submission Deadline : 18th May, 2026

Eligibility: Scientist/ Faculty Member/Research Scholar of Indian government Institutes/ Universities

Course Director
Dr. Girish Kumar Jha

Course Coordinators
Dr. Sunil Kumar
Dr. Sarika Sahu
Dr. Soumya Sharma

Division of Agricultural Bioinformatics
ICAR-Indian Agricultural Statistics Research Institute
Library Avenue, PUSA, New Delhi - 110012
https://iasri.res.in/

Super-Computing Facility (ASHOKA)

In the last decade, Institute has established a high performance computing facility ASHOKA with 33 nodes Linux cluster with 2 masters and 2 login nodes, 3 nodes GPU cluster, 1 SMP cluster and 750 TB storage. This facility is accessible to researchers through National Agricultural Bio-computing Portal. As per requirement of the scientists of NARES, number of important bioinformatics software have been installed along with commercial software .

Introduction:

Agricultural bioinformatics in our country is facing an unprecedented influx of data generated from various biological laboratories, particularly those under ICAR and State Agricultural Universities (SAUs). The rapid advancement of technologies has enabled high-throughput biological experiments, leading to the production of massive and complex datasets. These datasets vary widely in form, size, type, and velocity, creating significant challenges for their effective analysis. To address this, efficient strategies for storage, retrieval, pre-processing, and analysis are required, involving not only conventional bioinformatics approaches but also modern AI-based techniques for handling big data. Well-trained professionals are essential to apply these tools and methodologies effectively, enabling deeper insights that can enhance agricultural research, improve production systems, and boost overall productivity.

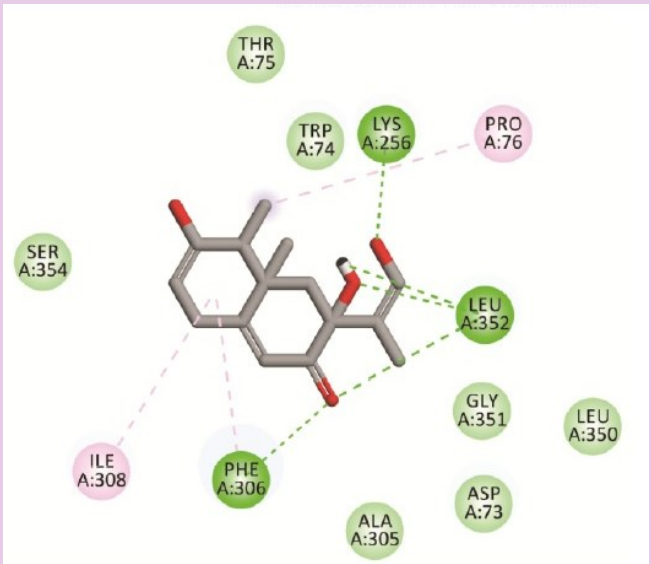
About IASRI:

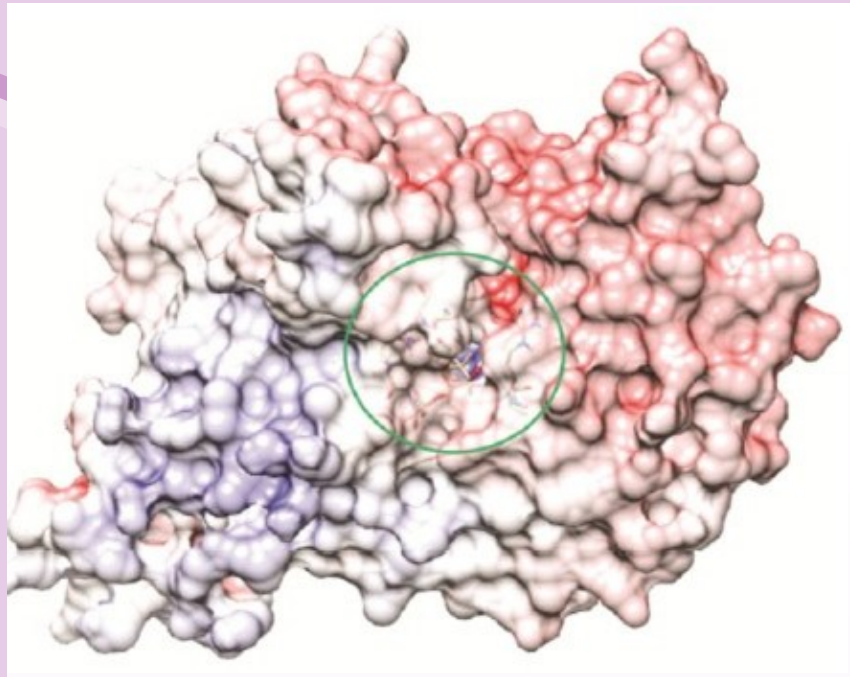
ICAR-Indian Agricultural Statistics Research Institute (ICAR-IASRI) started its journey as a Statistical Section in 1930 in then Imperial Council of Agricultural Research and has grown to a premier institute of relevance to conduct research, education and training in the field of Statistical Sciences (Statistics, Computer Applications, and Bioinformatics). The Institute is mainly responsible for conducting research in Agricultural Statistics and Informatics to bridge the gaps in the existing knowledge. The Institute is using the power of Statistics, as a science, blended with Informatics and their judicious fusion in agricultural sciences for enhancing quality agricultural research, to meet the challenges of agricultural research in newer emerging areas and evidence based policy decision making. The Institute also conducts M.Sc. and Ph.D. degree programmes in Agricultural Statistics, Computer Applications and Bioinformatics in collaboration with the Graduate School, ICAR-IARI, New Delhi. The Institute also conducts customized and sponsored training courses in Agricultural Statistics and Informatics at National and International level so as to be a leading Centre of excellence in Human Resource Development. The Institute provides advisory and consultancy services for strengthening the National Agricultural Research and Education System (NARES) and undertakes sponsored research and consultancy for National and International organizations. The methodological support is also provided in strengthening National Agricultural Statistics System (NASS). The Institute has also been playing a leading role in development of robust Agricultural Knowledge Management Systems and artificial intelligence based applications for NARES.

General Information:

The training will be conducted through offline mode.

Participants are requested to bring their laptop for training.





Objectives:

- To deliver the concepts of Artificial Intelligence in Agriculture.
- To explain the principles of NGS data analysis through the use of bioinformatics tools and techniques.
- To provide insight into protein simulation and structure prediction.
- To Develop an analytical skills through lectures and hands-on session

Modules of the Course

- Overview of Artificial Intelligence in Agriculture.
- High-throughput Omics Data in Bioinformatics.
- Machine Learning for OMICS data analysis
- Genome Assembly and Genome Annotation
- Non coding RNAs identification and their role in various biological processes.
- Statistical Analysis of Microbiome Data

Eligibility: Scientist/ Faculty Member/Research Scholar of Indian government Institutes/ Universities

Registration: Participants are requested to apply through the online

The corresponding link to apply is:

https://forms.gle/9ZHbTt3HRQJRv3oS9

Important Points to Remember:

Training Mode: **online**

Last Date of Receipt of Applications: May 18, 2026

Intimation to Selected Candidates: May 19, 2026

Please send the duly filled, signed and approved application before last date of nomination.

All Correspondence may be addressed to:

Dr. Sunil Kumar
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Email:
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Dr. Soumya Sharma
Scientist
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Phone011-25847121-6/4379

Nominations

- **The application for participation must be filled online through the link https://forms.gle/9ZHbTt3HRQJRv3oS9 .**
- **The scanned copy of the filled application form as per given format, approved by the competent authority must be emailed to dbt.trp@gmail.com.**

Note: Both online and scanned copy of application form are compulsory.

Application Form for Training on

Cutting-Edge Omics Data Analysis in Agriculture using AI

21-26 May,2026

1. Full Name (in block letter):
2. Designation:
3. Present Employer and Address:
4. Address to which reply should be sent (in block letters):
5. Permanent Address:_____

_____

_____ Telephone No. (off.): _____ (Res.):_____ (Mob):_____ Fax No.:_____

E-mail: _____

6. Date of Birth:
7. Gender (Male / Female):
8. Teaching/ Research / Professional Experience (mention post held during last 5 years and number of publications):
9. Marital Status: Married/Unmarried
10. Mention if you have participated in any training/ Summer/ Winter School/ Short Course, etc. during last 5 years under ICAR / other organizations:
11. Academic Record:

12. Discipline:
13. Level of knowledge of Statistics and Computer usage:

Signature of the Applicant with Date

14. Recommendations of the forwarding Institute

Signature of the Forwarding Authority

with Seal and Date

CERTIFICATE

It is certified that the information furnished above is correct. Traveling allowances will be paid / not be paid by this office.