Online Training programme on
"Next Generation Sequence Data Analysis"
### at ICAR-IASRI, New Delhi from March 22-27, 2021

Under the project **ICAR CRP Genomics,** Center for Agricultural Bioinformatics, ICAR-Indian Agricultural Statistics Research Institute (ICAR-IASRI) PUSA, New Delhi organized a one week long (**22-27 March, 2021**) virtual training program on **"Next Generation Sequence Data Analysis".** This program was designed and conducted for project staffs (Research Associate/ Senior Research Fellow / Junior Research Fellow / Young Professional etc.), with Post-Graduate or Doctorate degree in subject like Biotechnology, Bioinformatics, Microbiology, Biochemistry, Genetics, Veterinary Sciences, Plant Breeding etc.

working in various research projects in National Agricultural Research and Education System (NARES). There were 21 lectures conducted by 18 faculty members on topics like: Whole genome assembly and annotation; Transcriptomics analysis; Computational Metagenomics; Prediction of genomic markers; GWAS and Genomic Selection; Computational Proteomics etc.

Altogether 175 participants from 19 states of India participated in this program.

The Training program was inaugurated by Dr. Joykrushna Jena, DDG (Fisheries Science), ICAR in presence of Director, ICAR-IASRI, ADG (ICT) and PI of the project.

State wise distribution and qualification of the participants
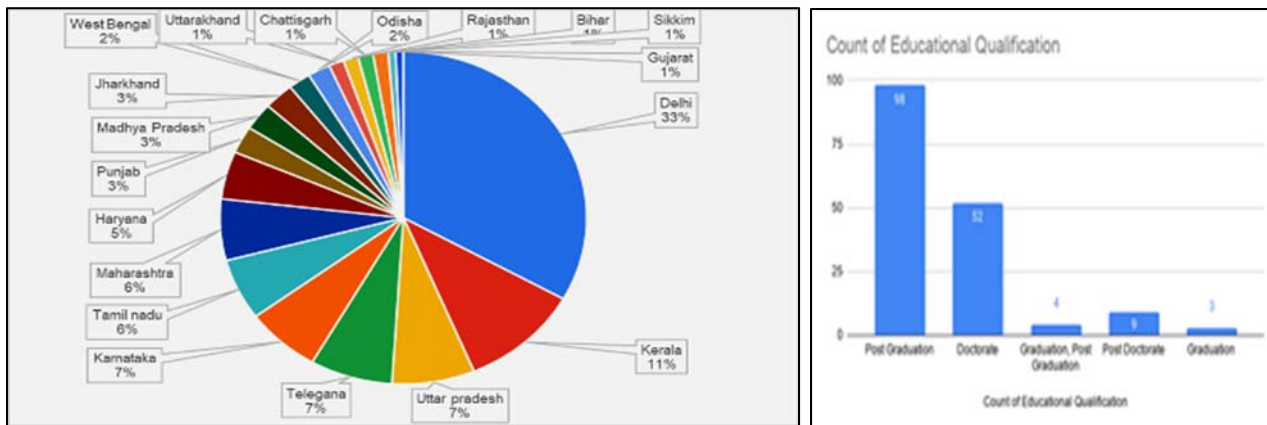
Schedule of training programme, depicting topics handled.

DAY	Time				
	10:00 – 11:30	11:45 – 13:15	Lunch	14:15 – 15:30	15:45 – 17:00
1	Registration, Orientation and Inoguration	Application of Bioinformatics in Agriculture		KRISHI	NGS Data Generation Techniques: Issues and Challenges
2	NGS Data Quality, Pre-processing and Whole Genome Assembly			RNA Seq Analysis	Genome Annotation
3	Sequence Alignment	Modelling Network Biology		Phylogenetic Analysis	Biological Data Recourses
4	GBS Technology and SNP Mining	Genome Wide Association Studies		SSR Mining	Genomic Selection
5	Ashoka and Biocomputing Portal	Computational Metagenomics		Deep Sequencing and small RNA Prediction	Inc-RNA Prediction
6	High Throughput Proteomics	Protein-Protein Interaction		Protein Structure, Evaluations and MDS	Valedictory