



**NAHEP**



**One Week International E-Training Programme  
on  
Introduction to Bio-informatics  
Microbial - Omics**

**Scheduled From 22<sup>th</sup> to 26<sup>th</sup> March, 2021**



**For Registration Click on following Link:  
<https://forms.gle/6T1kHvkdqELmed8>**

**ICAR – National Agricultural Higher Education Project (NAHEP)**

**The Centre for Advanced Agricultural Science and Technology (CAAST)  
for Centre of Excellence for Advanced Research on Animal Food Safety**

**Mumbai Veterinary college, Parel, Mumbai – 400 012**

**Maharashtra Animal & Fishery Sciences University, Nagpur – 440 001, Maharashtra, India**

## About the Project

The "NAHEP-CAAST-MAFSU" centre has been established on "Centre of Excellence for Advanced Research on Animal Food Safety" in the year 2019-20 with a total outlay of 18.05 Crores at Mumbai Veterinary College, Parel, Mumbai – 400 012.

## About the University

The MAFSU plans to initiate and coordinate research projects with the other universities and institutions of ICAR. The University has signed MoU with foreign universities viz. Pennsylvania State University, USA, Washington State University, Pullman, USA and University of Adelaide, Australia etc. for collaboration of scientific and advanced training programs for the faculties and students.

### ABOUT THE TRAINING

Bioinformatics is a demanding field which combines biology, computer science, information engineering, mathematics and statistics to analyse and interpret the biological data. The biological data taken into consideration are nucleotide and amino acid sequences, protein domains, and protein structures. Bioinformatics has been widely used in different fields like microbiology, molecular biology, diagnostics, veterinary sciences, etc.

Routinely conducted activities in bioinformatics include mapping and analysing DNA and protein sequences, aligning DNA to compare them, and creating and viewing 3-D models of protein structures. This training will enrich on knowledge and help us to determine genetics of a particular organism, or to check a mutation, or compare the genomes of both the organisms and interpret the differences in their genomes which further change their phenotype.

With the advancement of bioinformatics, the study of molecular life has become easier, which can further help us to conduct detailed study.

In this training, the participants will be acquainted with the knowledge of basics of bioinformatics, sequencing techniques and types, genomics and proteomics

### TARGET AUDIENCE

Faculties, PG and PhD students in the relevant subjects, Industry Personnel viz. Veterinarians working in slaughterhouses, meat processing plant, officers of state department of Animal Husbandry.

### REGISTRATION

Registration for the training can be done by filling the google form through the following link <https://forms.gle/6T1kHvkdfbqELmed8> The link will be open for registration from 17<sup>th</sup> to 20<sup>th</sup> March, 2021, till 12.00 pm. **There will be no fees for registration.**

### CERTIFICATE

E-certificate will be provided to all those participants who will register and attend all the sessions of the training program.

### COMMUNICATION TO PARTICIPANTS

Those who will be selected will be informed through their registered email. A WhatsApp group will be created for selected participants and all the information related to the training will be provided in the group.

## CHIEF PATRONS



**Col. (Dr.) Prof. A. M. Paturkar**  
Vice-Chancellor, MAFSU, Nagpur



**DR. R. C Agarwal**  
DDG (Education) & National Director  
NAHEP, ICAR, New Delhi

## PATRONS



**Dr. Prabhat Kumar**  
NC, NAHEP- CAAST  
ICAR, New Delhi



**Dr. A. P. Somkuwar**  
DI & Dean Faculty of Veterinary  
Science, MAFSU, Nagpur



**Dr. N.V. Kurkure**  
Director of Research,  
MAFSU, Nagpur



**Dr. V. D. Aher**  
Director of Extension  
Education, MAFSU, Nagpur



**Dr. P. G. Wasnik**  
Dean, Faculty of Dairy  
Technology, MAFSU, Nagpur

## COURSE DIRECTORS



**Dr. (Prof.) A. S. Ranade**  
Project Implementing Officer &  
Associate Dean, MVC, Mumbai



**Dr. R. J. Zende**  
Principal Investigator  
NAHEP-CAAST, MVC, Mumbai

## Organising Secretaries

**Dr. S. D. Ingole - Co-PI., MVC**

**Dr. V. M. Vaidya - Co-PI., MVC**

**Dr. M. P. Sawane – Nodal Officer, PME**

## CO- Organising Secretaries

**Dr. R. V. Gaikwad**  
Co-PI., MVC

**Dr. R.S. Gandge**  
Co-PI., MVC

**Dr. P.V Meshram**  
Co-PI., MVC

**Dr. V. H. Shukla**  
Co-PI., MVC

## Program Coordinators

**Dr. Netra B. Aswar**  
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**Dr. Prerana R. Shelke**  
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# TRAINING SCHEDULE




Sr. No.	Date	Time	Title of the Lecture	About the Speaker	
1	22.03.2021	04.00 PM to 05.00 PM	Introduction to Bioinformatics: Importance and Application – I	 Dr.Kumarasamy, P	<b>Professor</b> Department of Animal Genetics and Breeding, TANUVAS pksamy2000@gmail.com
		05.00 PM to 06.00PM	Introduction to Bioinformatics: Importance and Application – II		
2	23.03.2021	04.00 PM to 05.00 PM	Protein Sequence and Structure Analysis using Bioinformatics Tools- Part - I	 Dr.Anshuman Dikshit	<b>Senior Scientist</b> Institute of Life Science Bhubaneswar anshumandixit@gmail.com
		05.00 PM to 06.00PM	Protein Sequence and Structure Analysis using Bioinformatics Tools- Part - II		
3	24.03.2021	06.00 PM to 07.00 PM	Short gun Metagenome Sequencing : Concepts and Approaches, Taxonomic & Functional Analysis	 Dr.Maurice Byukusenge	<b>Assistant Professor</b> Veterinary Medicine at University of Rwanda, Kigali maurbyuka@gmail.com
	25.03.2021	06.00 PM to 07.00PM	Shotgun Metagenome Sequencing: Demonstration of Bioinformatic tools		
4	24.03.2021	07.00 PM to 08.00 PM	Microbial Community Analysis: Concepts and Approaches, Clustering and Diversity Analysis	 Dr.Meera Nair	<b>Assistant Clinical Professor</b> Animal Diagnostic Laboratory, Pennsylvania University mms7306@psu.edu
	25.03.2021	07.00 PM to 08.00PM	Microbial Community Analysis: Demonstration of Bioinformatic tools		
5	26.03.2021	04.00 PM to 05.00 PM	Introduction to Advanced Quantitative Proteomics	 Dr. Amol Suryawanshi	<b>Senior Scientist</b> Institute of Life Sciences (DBT), GOI, Bhubaneswar amolsurya@gmail.com
		05.00 PM to 06.00PM	Advance Quantitative Proteomics for understanding of Biology and Diseases		

## Agenda of Inaugural Function

Date : 22/03/2021

Time	Program	Name of Dignitaries
3.30 to 3.35 PM	About the Training	<b>Dr. R. J. Zende</b> Principal Investigator NAHEP-CAAST, MVC, Mumbai
3.35 to 3.40 PM	Welcome Address	<b>Dr. (Prof.) A. S. Ranade</b> Project Implementing Officer & Associate Dean, MVC, Mumbai
3.40 to 3.45 PM	Address by Guest of Honour	<b>Dr. N.V. Kurkure</b> Director of Research, MAFSU, Nagpur
3.45 to 3.50 PM	Address by Guest of Honour	<b>Dr. A. P. Somkuwar</b> DI & Dean, Faculty of Veterinary Science, MAFSU, Nagpur
3.50 to 4.00 PM	Presidential Address	<b>Col. (Dr.) Prof. A. M. Paturkar</b> Hon`ble Vice-Chancellor, MAFSU, Nagpur
4.00 to 4.05 PM	Vote of Thanks	<b>Dr. V. M. Vaidya</b> Co-PI, NAHEP-CAAST MAFSU, Mumbai

## Technical Evaluation Committee

	<b>Dr. N. V. Kurkure</b> Director of Research, MAFSU, Nagpur	<b>Chairman</b>
	<b>Dr. V. S. Waskar</b> Professor, Department of VPH, KNPCVS, Shirval Dist- Satara	<b>Co-Chairman</b>
	<b>Dr. M. P. Sawane</b> Professor, Department of Animal Genetics and Breeding, MVC Parel Mumbai	<b>Rapporteur</b>