



DBT Sponsored Training Workshop on Skill Development Programme in Bioinformatics: “Bioinformatics Tools and Techniques in Agriculture”

March 25-27, 2019

Organised by: Bioinformatics Centre
Sardar Vallabhbhai Patel University of Agriculture & Technology, Meerut-
250110



Preamble

The high-throughput technologies generating large-scale biological data, as well as the development of related computational tools, have united global efforts and brought revolutionary changes to the research of biology during the last decade. Today, biologists work in association with scientists from a broad spectrum of disciplines to unravel how complex biological systems work. Bioinformatics is a multidisciplinary field that makes use of computers to store and analyse molecular biology information with integration of statistical algorithms. The genome sequencing of a number of organisms has led to the discovery of many fascinating things. Today, the world feels the need of this discipline to save resources and time. Participants will be introduced to various bioinformatics tools to study biological data particularly related to biotechnology.

About the Centre

The Bioinformatics Infrastructure Facility was established in the College of Biotechnology with the financial assistance of Department of Biotechnology, Government of India, New Delhi with the objectives of capacity building for the students of Biotechnology & Bioinformatics and assistance to students in accessing, searching and retrieval of biological information. The Centre is involved in bioinformatics, a fast growing multidisciplinary applied science, which has a great application in the agriculture research by using modern bioinformatics tools. Therefore, to tap the full potential, the Centre has conducted training programmes focusing on the application and approaches of Bioinformatics for the crop improvement, enhancing production and yield in agricultural research.

Workshop Objectives

Based on a structured overview of bioinformatics methods this course gives an introduction to the main concepts of sequence bioinformatics applied to next generation sequencing. The course contains theoretical and practical sessions on genomics, metagenomics and gene expression analysis.

Contents

The current programme will focus on genome analysis, gene expression and diagnostics. The topics will include:

- Data, databases and big data in bioinformatics
- Biological Data Mining
- Genome annotation, Gene expression analysis
- Microsatellite mining
- Next Generation Sequencing data analysis
- Various other tools in Bioinformatics etc.

Speakers

1. Dr. Dinesh Kumar, Principal Scientist, CABIN- IASRI, New Delhi-110012
2. Dr. Shailesh Kumar, Staff Scientist, NIPGR, New Delhi
3. Dr. Neeti Sanan-Mishra, ICGEB, new Delhi
4. Dr. Manish Roorkiwal, Scientist-Genomics & Molecular Breeding, ICRISAT
5. Mr. Anuj Kumar, UCB, Dehradun, India
6. Dr. Sarika, Senior Scientist, CABIN- IASRI, New Delhi-110012

Faculty

- Dr. Jitender Singh, Coordinator, BIF
- Dr. Pankaj Kumar, Co-coordinator, BIF
- Dr. Amit Kumar, Associate Professor, Immunology and Defense Mechanism
- Dr. Koushlesh Ranjan, Assistant Professor, Animal Biotechnology
- Dr. Sweta Mishra, Associate Professor, Fingerprinting

Target Audience

Researchers, Ph.D., Post Graduate and Graduate students working in the field of Life Sciences.

Mode of Training

The workshop will consist of lectures, demos and hands-on sessions.

Prerequisites

Knowledge of basic bioinformatics and must have Laptops.

Number of Participants: 30

On first come first basis.

Important Dates

Applications with nomination must be send via email along with a CV before March 20, 2019

Email: bifsvpuatmeerut@gmail.com

Registration details

Rs.1000 to be paid by Demand Draft (of any nationalized bank) drawn in favour of **Comptroller, Sardar Vallabhbhai Patel University of Agriculture & Technology, Meerut-250110**. The registration fee includes course material, working tea/ coffee. Please note that the registration fee doesn't cover accommodation charges.

Accommodation

As per availability the accommodation on S.V.P.U.A. & T, Meerut campus will be made available upon request. The charges are to be borne by the participants.

Patron

Dr. Anil Sirohi, Director Experiment Station
Dr. R. Kumar, Dean, College of Biotechnology

Course Director

Dr. Pankaj Kumar, Head, Biochemistry & Physiology
Co- coordinator, Bioinformatics Infrastructure Facility

Dr. Jitender Singh, Associate Professor, Immunology
Coordinator, Bioinformatics Infrastructure Facility

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Course Coordinator

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Application Form

1.	Full Name (in block letters) :																	
2.	Degree programme :																	
3.	Date of birth :																	
4.	Sex: Male/Female :																	
5.	Do you have laptop :																	
6.	Residential address :																	
7.	Phone No. :																	
8.	E-mail :																	
9.	Address to which reply should be sent																	
10.	Academic Record (starting with graduation) Exam/ Subjects/Year of pass/University/Class etc.																	
	<table border="1"><thead><tr><th>Degree programme</th><th>University</th><th>Year</th><th>Percentage</th></tr></thead><tbody><tr><td>PhD*</td><td></td><td></td><td></td></tr><tr><td>MSc*</td><td></td><td></td><td></td></tr><tr><td>BSc.B.Tech*</td><td></td><td></td><td></td></tr></tbody></table>	Degree programme	University	Year	Percentage	PhD*				MSc*				BSc.B.Tech*				
Degree programme	University	Year	Percentage															
PhD*																		
MSc*																		
BSc.B.Tech*																		
	*Perusing students can also apply																	
11.	Training programmes attended during the last three years																	
12.	Do you have hands on experience of Molecular Biology techniques/Bioinformatics (if yes please specify)																	
13.	State how this training is going to be useful:																	

Date :
Signature of the candidate
Place :

Recommendations of forwarding authority:

Signature of HOD/Dean/Director
Name:
Designation:
Address: