



CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, ODISHA

FDP

on

“Genome Sequencing: Assembly, alignment and annotation”

(23rd to 27th August, 2020)

REPORT

No. of Participants: 26

DATE AND VENUE: 23rd to 27th August, 2020, Centurion University of Technology and Management (CUTM), Paralakhemundi campus.

ABOUT RESOURCE PERSON:

Dr. Satyabrata Nanda is a Postdoctoral Fellow at the China National Rice Research Institute, Hangzhou, China. He has substantial research experience in fields of Next-generation sequencing (NGS), particularly genome sequencing, assembly, and annotation. He has submitted several NGS data sets to the Sequence Read Archive (SRA) of the NCBI. He has published several articles in reputed international journals and have received external fundings from different agencies, including Chinese Academy of Agricultural Sciences (CAAS), Postdoctoral Research Foundation of China, Zhejiang Provincial Grant, and SERB.

ABOUT THE SESSION:

A total of 26 faculty members from the departments of Biotechnology, Biochemistry and Crop Physiology and Genetics and Plant Breeding attended the program. The topics NGS, different platforms in NGS, computational tools in NGS, sequence assembly in NGS and tools used, and data annotations were covered in the FDP through the interactive online sessions. The use of different open source and licensed programs and tools for the reference and de novo assembly of reads and their annotations were the focused areas of the FDP. Related study materials were prepared and distributed among all participants. Overall, the FDP was well-structured, informative, interactive, and enriched with knowledge. I owe my gratitude to Dr. Satyabrata Nanda for delivering the contents relentlessly and his untiring discussions throughout the 5 days of this FDP. Thanks, are also due to Prof. Pushpalatha Ganesh, Professor and Head, Dept. of Biotechnology, Dr. Praveen Kumar, HOD, Dept. of Genetics and Plant Breeding, Prof. Satya Prakash Nanda, Dean MSSSoA, and Dr. Durga Parsad Padhi, Director of Administration for providing us the facilities and extending all supports to conduct the FDP sessions.

OBJECTIVES:

1. To give a brief on different NGS platforms.
2. To teach the basics of sequence assembly.
3. To teach the basics of data annotations.
4. To guide on the use of different tools for assembly and annotations in NGS.

OUTCOME:

After the conduction of this FDP, the faculty members and students had a clear idea on different NGS platforms and their chemistry, sequence assembly and annotation in NGS, and data deposition onto NCBI. Moreover, knowing the basics and getting training on the data assembly and annotations in NGS motivated the faculties for future researches in this area.

Comments and suggestions:

- i. This FDP was very beneficial to all the faculty members.
- ii. This type of interactive and participatory FDP in other fields/topics should be arranged at least twice a year to advance and update the knowledge of faculty members.
- iii. Another in-person FDP with practice session may be arranged within the next six months.



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Genome Sequencing: Assembly, Alignment and Annotation

23.08.2020– 27.08.2020

ATTENDANCE SHEET

Sl. No.	Name	Signature
1	Dr. Ranjan Kumar Sahoo	Ranjan kumar saho
2	Dr. Raghu Gogada	Raghu Gogada.
3	Dr. Koustava Kumar Panda	Koustava Kumar
4	Dr. Puspallatha G	PUSPallatha G
5	Dr. Debanjana Saha	Debanjana saha
6	Dr. G.V. Ramana	G.V. Ramana
7	Dr. Jaykishan Meher	Jaykishan meher
8	Dr. B. Praveen	B. Praveen
9	Dr. Abhinandita sahu	Abhinandita sahu
10	Ms. Deepti	Deepti
11	Dr. Preetha Bhadra	preetha Bhadra
12	Dr. Pradip Kumar Prusty	Pradip Kumar
13	Mr. Mohon Satyakar Rao	Mohon satyakar Rao
14	Mr. Abhilash Behera	Abhilash Behera
15	Ms. Pili Manasa	Pili Manasa.
16	Ms. N. Sandhya	N Sandhya
17	Dr. Dinkar Gaikwad	Dinkar Gaikwad

18	Dr. Pratibha Rani Deep	Pratibha Rani Deep
19	Dr. Gagan Kumar Panigrahy	Gagan Kumar
20	Dr. Gyana Ranjan Mahalik	Gyan Ranjan Mahalik
21	Dr. K. Krishnam Raju	K. Krishnam Raju
22	Mr. Chinmaya Jena	Chinmaya Jena
23	Dr. Prabhat Kumar Singh	Prabhat Kumar
24	Mr. Durgadatta Meher	Durgadatta Meher
25	Ms. Kajal Samantaroy	Kajal Samantaroy
26	Dr. Grihalakshmi Kakani	Grihalakshmi Kakani



Dr. Prasanta Ku. Mohanty
Dean Academic



Prabhat K. Pattnaik
FDP Coordinator