



CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, ODISHA
FDP
on
“Next-Gen sequencing and its applications”
(7th to 11th June, 2019)

REPORT

No. of Participants: 27

DATE AND VENUE: 7th to 11th June, 2019, Centurion University of Technology and Management (CUTM), Paralakhemundi campus.

ABOUT RESOURCE PERSON: Dr. Raj Kumar Joshi is an Associate Professor in the PG Department of Biotechnology at Rama Devi Women’s University, Odisha. He has vast research experience in advanced fields of functional genomics and Next-generation sequencing (NGS), such as Transcriptome and proteome analysis, small RNA sequencing, RNA interference, and genome editing. He has published articles in reputed international and national journals and have received external funding from different agencies of Govt. of India, including SERB, DST, and DBT.

ABOUT THE SESSION:

A total of 14 faculty members from the departments of Biotechnology and Genetics and Plant Breeding along with 13 students from both BSc and MSc Ag attended the program. The topics sequencing, the need of sequencing, evolution of sequencing, and advent of NGS were covered in the FDP through interactive and case study modes. Use of NGS was the focus of the FDP and it was covered elaborately in multi-sessions and having practice mode. The interactive lecture sessions were conducted in Seminar Hall, while the practice sessions in Biotechnology lab. 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. Raj Kumar Joshi for delivering the contents relentlessly and his untiring discussions throughout the 5 days of this FDP. I am also thankful to Prof. Pushpalatha Ganesh, Professor and Head, Dept. of Biotechnology for assisting the participants throughout the practice sessions. Thanks, are also due to 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 introductory platform on NGS.
2. To teach the basics of NGS.
3. To show operations on NGS (Illumina sequencing).
4. To guide on the DNA/RNA/Plasmid purification, cloning, and library preparation.

OUTCOME:

After the conduction of this FDP, the faculty members and students had a clear idea on the NGS and its application in their respective fields. Especially the faculties would be able to deliver the contents of on NGS to the students of B.Sc./M.Sc. Ag. programmes comfortably. Moreover, knowing the basics and getting training on the NGS application motivated the faculties to do research involving NGS applications, such as RNAseq, sRNA seq, and comparative transcriptome analysis.

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 FDP may be arranged in the area of “Use of NGS in Agricultural Research” within the next six months.



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ODISHA

FDP

On

Next-Gen Sequencing and its Applications

07.06.2019 – 11.06.2019

ATTENDANCE SHEET

Sl. No.	Name	Signature
1	Dr. Pushpalatha Ganesh	Dr. Pushpalatha Ganesh
2	Dr. Raghu Gogada	Dr. Raghu Gogada
3	Dr. Koustava Kumar Panda	Dr. Koustava Kumar Panda
4	Dr. Dinkar Gaikwad	Dr. Dinkar Gaikwad
5	Dr. G.V.Ramana	Dr. G.V. Ramana
6	Ms. Kajol Samantaroy	Kajol Samantaroy
7	Mr. Abhilash Behera	Abhilash Behera
8	Dr. Praveen Kumar Gupta	Praveen Kumar
9	Dr. K. Krishnam Raju	K. Krishnam Raju
10	Dr. Prabhat Kumar Singh	Prabhat Kumar
11	Mr. Durgadatta Meher	Durgadatta Meher
12	Mr. Mohon Satyakar Rao	Mohon Satyakar
13	Ms. Manu Priyanka	Manu, Priyanka
14	Ms. Pilli Manasa	Pilli Manasa
15	Dr. B.P.Mishra	Dr. B.P. Mishra
16	Ms. Gyanabharati Palei	Gyanabharati Palei
17	Dr. Priyadarshini Mohapatro	Priyadarshini Mohapatro

18	Dr. Pratibha Rani Deep	Dr. Pratibha Rani Deep
19	Dr. Rahul Adhikari	Rahul Adhikari
20	Ms. Madhuri Pattnaik	Ms. Madhuri Pattnaik
21	Dr. Arunabha Pal	Dr. Arunabha Pal
22	Dr. Sagar Maitra	Sagar Maitra
23	Dr. Ranjan Kumar sahu	Dr. Ranjan Kumar sahu
24	Dr. sagarika Parida	Dr. Sagarika Parida
25	Dr. Debanjana saha	Dr. Debanjana saha
26	Dr. G.C. Mishra	Dr. G.C. Mishra
27.	Dr. Nandini Padhi	Dr. Nandini Padhi



Dr. Prasanta Ku. Mohanty
Dean Academic



Prabhat K. Pattnaik
FDP Coordinator

