

Report on
**ICAR Sponsored Training Programme on
'DNA Sequencing Using Ion Torrent NGS Platform and Data Analysis'**
22nd - 31st January 2024

ICAR Sponsored Short Course on **'DNA Sequencing Using Ion Torrent NGS Platform and Data Analysis'** was organized by the Central NGS Facility, ICAR-Central Institute of Fisheries Education from 22nd - 31st Jan 2024 at Mumbai. The Course Director of the training was Dr. Aparna Chaudhari, In-Charge, CIFE NGS Facility, and Dr. A. Pavan Kumar and Dr. Kiran D. Rasal were the Coordinators. Twenty participants (8 women and 12 men) from various ICAR institutes, SAUs/CAUs and traditional universities such as ICAR-NDRI, ICAR-IVRI, ICAR-IVRI, Kerala Agricultural University, Punjab Agricultural University, Indira Gandhi Agriculture University, Kerala University of Fisheries and Ocean Studies (KUFOS), Dr Y. S. Parmar University of Horticulture & Forestry, Shere-Kashmir University of Agricultural Sciences and Technology, Fakir Mohan University, Kamdhenu University and Mumbai University participated in this program. The inaugural function, was chaired by Dr. Ravishankar C. N., Director/ VC of ICAR-CIFE (Deemed University) who highlighted the importance of genomics research in present times, and how this has led to the establishment of the Central NGS Facility at CIFE. He hoped that the participants will initiate research which would utilize this facility. Dr. N. P. Sahu, Jt. Director, CIFE, acknowledged funding from NAHEP, ICAR for procuring the Ion Torrent Gene Studio S5 NGS platform and highlighted that this was the first training on this NGS platform being organized by CIFE. Dr. Aparna Chaudhari welcomed guests from Thermo Fisher Scientific, Mrs. Savita Bhosekar and Dr. Manoj Vyas, and thanked them and their team for all their help with the training. The training included lectures and practical sessions on sample and library preparation, NGS workflow, operation, and data analysis. Open bioinformatics tools for analysis of metagenome, mitogenome and transcriptome data were demonstrated. The training time was divided equally between theory and practical sessions. A training manual was distributed. Overall, the trainees rated the training 'excellent' (score 4.5/ 5). In the valedictory function, held on 31st Jan 2024, certificates were distributed by the Chief Guest, Dr. Meena Kumari B. Former DDG (FS), ICAR. She congratulated the Director/VC for setting up the NGS facility and the Course Director and team for a well-designed and well-conducted training. She was pleased to see good participation from across the country. She encouraged all the participating scientists and faculty members to maintain this linkage and make use of the facility.





