

Hands on Bioinformatics and Molecular Biology Techniques Applied to Fisheries and Aquaculture

A training programme on “Hands on Bioinformatics and Molecular Biology Techniques Applied to Fisheries and Aquaculture” was organized from 21-03-2016 to 28-03-2016 jointly by Bioinformatics Centre and Biotech Hub, funded by Department of Technology (DBT), Ministry of Science and Technology. Forty six participants including M.F.Sc. Ist year and M.F.Sc. IInd year students of different disciplines as well as Research scholars of different external funded projects attended the training. The programme was inaugurated by Prof. K.C. Majumdar, Visiting Research Professor, DBT, GOI. A pre-evaluation test was conducted to understand the knowledge and level of understanding of the participants in the field of bioinformatics and molecular biology. The training programme comprised of lectures of basic concepts on bioinformatics and molecular biology and also hands on practical. The major topic covered in the training programme are Overview of Bioinformatics and its application in fisheries and aquaculture; Using Computational tools for gene expression analysis of economically important fishes with emphasis on NCBI ; ASFA Database Search & retrieval technique for Fisheries/aquaculture updated Bibliography, Expressed Sequence Tags (ESTs):Prospecting New Genes and Alleles; Application of SPSS software in experimental data analysis; Database searching using BLAST; Application of Mendely Software in Research Management; Introduction to Biotechnology and its application; Advances in Molecular Biology; Gene editing: Isolation of DNA/ Total RNA; cDNA synthesis; Principle of Molecular Cloning; Isolation of Genomic DNA and estimation; Agarose Gel Electrophoresis; Epigenetics; PCR and Agarose Gel Electrophoresis; Principle of Real Time PCR; Principle of Sequencing;; Demonstration of Real Time PCR etc. Training programme ended on 28-03-2016 with feedback of the training and valedictory function in presence of Prof Rani Dhanze, CSK, HPKV, Palapur, Dr. J.R. Dhanze, Consultant FAB COE and former Dean, Prof. K.C. Majumdar, Visiting Research Professor, DBT, GOI.