

**Report on**  
**Online Hands-on training" Basic and Advanced Computational Tools for**  
**Molecular Genetics"**  
16-22 Feb, 2021

The hands-on training program on “Basic and Advanced Computational Tools for Molecular Genetics” was organized by Fish Genetics and Biotechnology Division, ICAR-CIFE, Mumbai from 16<sup>th</sup> to 22<sup>nd</sup> February, 2021 in online and off-line modes. The training was directed by Dr. Aparna Chaudhari, Head, FGBD and coordinated by Dr. A. Pavan Kumar, Dr. M.P. Brahmane and Mr. Kiran D. Rasal. Thirty-two participants (14 men and 18 women) from various ICAR institutes (17) and ASUs/CAUs (15) such as ICAR-CIFRI, Barrackpore; ICAR-CIFA, Bhubaneswar; TNFU, Ponneri; Andhra University, SKAUST, Jammu, etc. participated in this program. Seven participants attended the training in-person following necessary precautions. During the inaugural function, Dr. Gopal Krishna, Director and VC, ICAR-CIFE addressed the participants and emphasized the importance of bioinformatics in current biological research. During this program, molecular basis of evolution, basic DNA sequence analysis, primer designing, DNA barcoding, phylogenetics, sequencing techniques, and NGS data analysis using Geneious Prime software, etc. were covered along with hands-on training on related techniques and software. A training manual trainees. The pre- and post-training evaluation of trainees was performed and participants gained 50-60% improvement in their knowledge with regard to DNA sequence data analysis. The participants rated the training as excellent and appreciated that hands-on training was made available online. The training program was completed with certificate distribution during the valedictory function by Dr. Aparna Chaudhari, Course Director.

