

HANDS-ON TRAINING ON “MOLECULAR TOOLS FOR AQUATIC RESOURCE MANAGEMENT”



04th – 06th August 2026

CONVENOR

Dr. P. K. Dey

Director
ICAR-CIFRI

COURSE COORDINATOR(S)

Mr. Praveen Maurye

Scientist

Dr. Kavita Kumari

Sr. Scientist

ORGANIZED BY

ICAR-Central Inland Fisheries
Research Institute
Barrackpore, Kolkata – 700120
West Bengal, INDIA

ICAR-Central Inland Fisheries Research Institute (ICAR) is a premier research organization established on 17 March 1947 and has developed state of art facilities. The institute has expertise in wide research domain of inland fisheries resources, including reservoirs, wetland, riverine and estuarine ecosystem.



LABORATORY:

Our laboratories are fully equipped with a diverse range of cutting-edge instruments tailored specifically for molecular biology research.



GUEST HOUSE/HOSTEL:

The Institute has a guest house/hostel with modest facilities cater to the needs of the participants.



ELIGIBILITY TO APPLY:

Participant should have a background in a relevant field such as biology, fisheries science, environmental science, or a related discipline. Preference may be given to individuals currently working or studying in fields related to aquatic resource management, conservation, fisheries, or molecular biology.



VENUE:

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West Bengal, INDIA



INTRODUCTION:

The management and conservation of aquatic resources are critical for maintaining ecological balance and sustaining livelihoods worldwide. Molecular tools have emerged as indispensable assets in understanding and effectively managing these valuable ecosystems. This hands-on training program bridges theory and practice, empowering participants to contribute meaningfully to the sustainable stewardship of aquatic resources through interdisciplinary collaboration, ethical awareness, and staying abreast of technological advances.



OBJECTIVES:

- Develop practical skills in molecular techniques to identifying species and diagnosing diseases.
- Integrate theory with hands-on application in fisheries management and conservation.
- Empower participants to contribute to sustainable stewardship of aquatic ecosystems through interdisciplinary collaboration and ethical awareness.

COURSE CONTENT



Module 1: Nucleic Acid Technique

- Isolation of genomic DNA from aquatic organisms
- Agarose gel electrophoresis for visualization



Module 2: PCR Techniques

- PCR amplification of specific genes
- Agarose gel electrophoresis for visualization



Module 3: Protein Analysis

- Protein extraction and quantification methods
- Gel electrophoresis of proteins
- Various protein gel staining techniques



Module 4: Data Analysis

- Bioinformatics analysis of molecular data
- Statistical tools for genetic variability analysis



Module 5: Advances in Molecular Tools

- Exploration of advancements in fisheries resource management such as metagenomics, transcriptomic etc.

HOW TO APPLY

Interested candidates are requested to apply through their office/institution/university/department by submitting the duly filled registration form (online) before

20th July 2026.

- Seats are limited to a maximum of 20 for this training program based on "first-come, first-served".
- The selected candidates are required to pay the training fee online on or before 25 July 2026 to "ICAR Unit-ICAR", payable at State Bank of India, Barrackpore Branch (Account No.: 11278713220; IFSC: SBIN000029).

SCAN TO REGISTER

Scan the QR code to
open the registration form

REGISTRATION LINK (Google Form):
https://docs.google.com/forms/d/1EFAip0LSd03Xn9P1P1_48Chsx0zFOeL7eFSMO6yS-es0d0449bFN0J0/viewform?usp=publish-editor



TRAINING FEES



₹ 3000

For Professors,
Scientist, and
other officials



₹ 2000

For Students/
Research scholars

★ No TA/DA will be provided. The participant may avail the boarding / lodging facility of the institute as per the tariff of ICAR.

ALL CORRESPONDENCE MAY BE ADDRESSED TO:



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