

Short-term training programme on Molecular Taxonomy and DNA Barcodes

20-27 January 2025

Organized by
Fisheries Resources, Harvest & Post-Harvest Division
ICAR-Central Institute of Fisheries Education
Panch Marg, Versova, Mumbai - 400061

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Background Information

Biodiversity plays an important role in ecological balance and provides food and livelihood to humankind. India is one of the mega diverse countries and harbours a large number of endemic species. Aquatic biodiversity, especially the fisheries resources are very important as they provide protein-rich food, livelihood and foreign exchange. However, biodiversity is declining at an alarming rate due to anthropogenic factors.

The science of taxonomy has gained immensely from the application of molecular markers that have been developed over last three decades. DNA barcoding in particular has become a widely used technique for species identification of aquatic animals which exhibit high phenotypic plasticity. DNA markers can also resolve taxonomic ambiguity, uncover cryptic species and reveal evolutionary history among species. With different agro-climatic zones, India is considered as one of the mega diverse countries of the world. However, less than half of the biodiversity has been characterized at molecular level. Further, the next generation sequencing technology facilitate identification of species from environmental samples. The training programme 'Molecular Taxonomy and DNA Barcodes' is designed to update researchers on DNA sequence-based species delimitation techniques.

Topics to be covered

- Concepts of molecular evolution
- Species delimitation methods
- DNA barcoding
- Molecular phylogenetics

• Metabarcoding

Intake capacity

A total of 20 participants will be selected based on their research relevance to the training programme.

Eligibility

Assistant Professors/Scientists/Technical Officers/Graduate and Post-graduate students

Course Fee

Course Fee @ Rs.5000/- per participant is to be paid at the time of registration by

Debit/Credit card, cash or NEFT.

Account Name: ICAR Unit CIFE, Mumbai

Name of the Bank: State Bank of India

Account Number: 1013235212

IFSC Code: SBIN0003117

Travel and logistics

On campus accommodation is not available. Outstation participants shall bear their own travel and stay expenses.

How to apply?

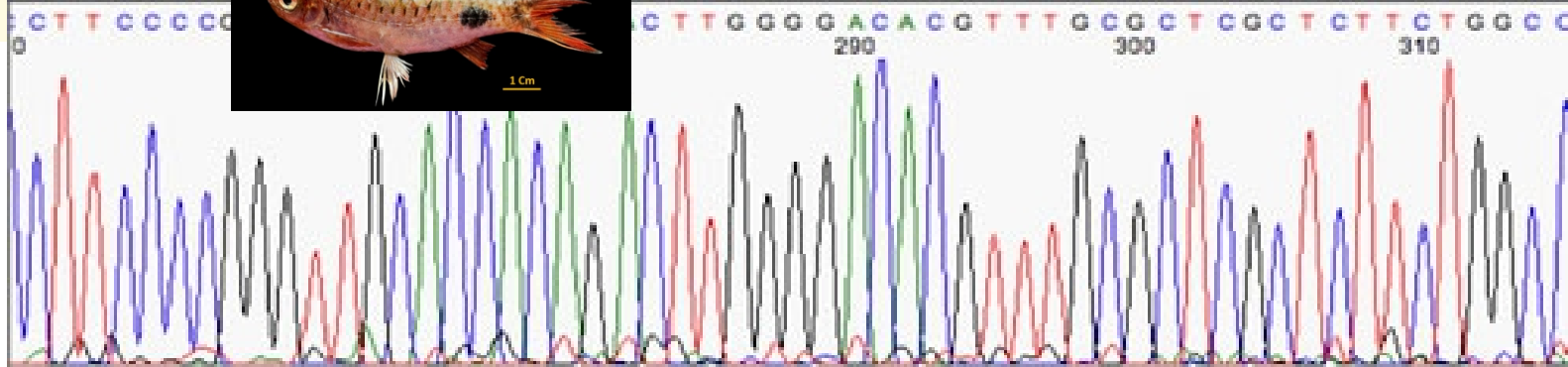
Application is in the following Google form which needs to be filled on or before 10th January 2025.

https://docs.google.com/forms/d/e/1FAIpQLSel07VNd-031uSQDq4akDRgEDY3FQfu07gaYjnwYBoKKDeviA/viewform?usp=sf_link



Dates to remember

Last date of submission of application : 10th January 2025



ICAR-Central Institute of Fisheries Education
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