

Training on

"Emerging tools and methodologies in the conservation biology of fishes"

September 20-29, 2023

Course Convener

Dr. U. K. Sarkar
Director, ICAR-NBGR

Course Coordinators

Dr. G. Kantharajan, Scientist
Dr. Rejani Chandran, Scientist
ICAR-NBGR

Dates to remember

**Last date for submission of Application
10 September, 2023**

**Last date for submitting Course fee
15 September, 2023**



ICAR - National Bureau of Fish Genetic Resources
Canal Ring Road, Dilkusha P.O, Lucknow -226 002

ICAR-NBFGR

About ICAR-NBFGR:

National Bureau of Fish Genetic Resources (NBFGR) is established in the year 1983 under the aegis of Indian Council of Agricultural Research to provide scientific inputs for the conservation of fish germplasm resources of the country. Over the span of time, the institute has transformed into a leading premier institution to address research related to the conservation of aquatic genetic resources. There are four divisions (three at HQ and one at Kochi) along with a field training unit at Chinhat, Lucknow. The institute has seen splendid growth in the extension of research programmes in important areas viz., whole genome sequencing, population genetics, transcriptomics, *ex-situ* and *in-situ* conservation, sperm cryobanking, molecular disease diagnostics and therapeutics, national surveillance programme for aquatic diseases, antimicrobial resistance in fisheries and aquaculture, exploration of newer and unexplored geographical areas for assessment of fish diversity, etc., The institute also has live gene bank and germplasm resource centres, hatcheries, fish farm, public aquarium, a guest house and several other facilities. The institute ranked 18th among all ICAR institutes for the years 2019-2020 and 2020-2021 (combined) and has been serving the nation for the last 40 years towards conserving aquatic genetic resources for sustainable livelihood and nutritional security.

The bureau is recognized and designated by the National Biodiversity Authority (NBA), Government of India, as the nodal repository agency for the transfer of fish resources under section 39 of the Biological Diversity Act, 2002. The institute has strengthened the status by the establishment of National Fish Museum and Repository over the last few years which was inaugurated recently by Hon'ble Director General, ICAR & Secretary DARE, New Delhi. The museum displays finfish and shellfish voucher specimens of freshwater, marine, and brackish water environments for research and education of students, teachers, scientists, and the general public. The museum also holds a radiographic facility to comprehensively understand fish morphological feature.



Course Objectives:

The prime objective of this course is to train the scientist/faculty members/research scholars in Emerging tools and methodologies in the conservation biology of fishes. The course would cover concepts and overview of fish taxonomy and biology, In-situ and ex-situ conservation tools, and conservation

Course Contents:

★ Basic concepts of :

- Integrative Taxonomy
- Molecular tools
- Conservation Biology
- GIS Applications
- Health Management

★ Techniques of :

- Sample collection, Identification, Photography, Labelling, and Preservation
- DNA isolation & sequencing
- Population Structure Analysis and Conservation Strategies
- Genotoxicity assays
- Cryopreservation
- Climate Change and Fish Biology

External Faculty members:

Resource persons from other reputed laboratories will be guest faculty

Target Participants:

Scientist, Faculties/ Technical officers; Research scholars/ Students.

Intake capacity: 12 participants

Fee:

A fee of 8000/- is charged for Scientist, Faculties/ Technical officers; Rs 4000/- for Research scholars/Students. Fee does not include travel, boarding, lodging or other personal expenses.

Accommodation will be provided at ICAR-NBFGR Guest House on payment basis.

Application:

Interested persons can apply on the attached Registration Form and send to the Course Director at the given address. Selected candidates will be informed through E-mail. For enquiry, write to:

trainingcellnbfgr@gmail.com; Dr. G. Kantharajan, kantharajan.g@icar.gov.in (Mob. 7506627973) and Dr. Rejani Chandran, rejanichandran@gmail.com (Mob. 7893359097)

**About Lucknow**

Lucknow, the capital city of Uttar Pradesh historically known as the Awadh region, is believed to begin after Ramchandra of Ayodhya, the hero of the Ramayana, ordered his devoted brother Lakshman to establish a town at the present site of 'Lakshman tila'. Therefore, people say that the original name of Lucknow was 'Lakshmanpuri', and slowly the name 'Lakshmanpuri' became 'Lakhnau' and then named 'Lucknow' by the British. It is situated on the bank of river Gomti.

Lucknow's rise to growth and fame begins with its elevation to a capital city under the Nawabs of Awadh. The architectural contributions of the Awadh rulers, many paintings of whom are maintained at the Art Gallery today, include numerous mosques and palaces. Of the monuments standing today, the Bada Imambara, the Chhota Imambara, and the Roomi Darwaza are notable examples.

Today, Lucknow is a vibrant city with a perfect blend of the ancient with the modern, as many glitzy shopping arcades coexist with the old monuments. Lucknow has emerged as a "Science City", as numerous national laboratories, premier medical colleges, universities along with engineering and Management institute exists here. The greatest attraction of Lucknow, where the past jostles with the present, is its unique ability to achieve harmony amidst disorder and to assimilate the new into the old.

Lucknow, the golden city of the east retains an old world charm that fascinates one and all. Regarded as one of the finest cities of India, Lucknow emanates a culture that combines emotional warmth, a high degree of sophistication, courtesy and a love for gracious living. This sublime cultural richness famous as 'Lucknowi Tehzeeb' blends the cultures of several communities living side by side for centuries, sharing similar interests, speaking a common language.

The climate during September will be prime monsoon with temperature of around 24-34°C. The campus of ICAR-NBFGR is located around 8 km away from Lucknow (Charbagh) railway station and 10 km from Ch. Charan Singh International Airport, Amausi, both of which are well connected with pre-paid Auto/ Taxi services.

REGISTRATION FORM

Training on "Emerging tools and methodologies in the conservation biology of fishes"

September 20-29, 2023

ICAR-National Bureau of Fish Genetic Resources
Lucknow-226002, U.P., India

Name (Dr./ Mr./ Miss/ Mrs.) :
Designation :
Date of Birth :
Educational Qualification :
Professional Experience :
Present area of work :
Mailing Address :
E-Mail Fax:.....
Phone: (O) (R) (M)

Training fee may be paid either

- Online through ICAR-NBFG website (<https://www.nbfg.res.in:801/>) **OR**
- Through NEFT/IMPS to ICAR-NBFG account having following details:
Name of beneficiary: ICAR Unit NBFG, Lucknow
Name of Bank and Branch address: Axis Bank Ltd., Aashiyana, Lucknow
Account No.: 918020045053793
IFS Code: UTIB0001878
Branch code: 001878
MICR code: 226211010

Amount..... (In Words).....
Transaction No..... Date.....
Issuing Bank.....
Any other information:.....

Place:

Date:

(Signature of candidate)

Forwarding from Head of Institution/ Competent Authority:

1. Candidature of Dr./ Mr./ Miss/ Mrs..... working as, is forwarded for inclusion in the training course. The course fee will be sent by due date, if selected.
2. Candidature (Mark "☑" as applicable in the parenthesis):
a. Sponsored () b. Self financed ()

(Signature and seal of Competent Authority)

Name:

Designation:

Please mail the duly filled form to:

e-mail: directorcellnbfg@gmail.com; kantharajanars@gmail.com; rejanichandran@gmail.com

Mobile: 7506627973; 7893359097