Training programme on Molecular Techniques in Diagnostic Pathology at ICAR-CICFR, Bhimtal

(15-19th Feb 2027)







For queries, contact
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Organising team

Director

Dr. Amit Pande

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Course director

Neetu Shahi
Principal Scientist

Course coordinators

Sumanta Kumar Mallik,
Scientist (Sr. Scale)

Ananya Khatei, Scientist

Organiser

भाकृअनुप
ICAR

ICAR-Central Institute of Coldwater Fisheries Research, Bhimtal, 263 136, Uttarakhand India

How to reach Bhimtal

The ICAR-Central Institute of Coldwater Fisheries Research (ICAR-CICFR), Bhimtal, is a premier national institute dedicated to research and development in coldwater fisheries. Established under the aegis of the Indian Council of Agricultural Research (ICAR), Ministry of Agriculture and Farmers Welfare, Government of India, New Delhi, the institute has been instrumental in advancing coldwater fisheries development in the country. It has made significant contributions to aquaculture development, fisheries resource assessment, management and conservation, thereby supporting the sustainable development of coldwater fisheries resources.

ICAR-CICFR is located in the small township of Bhimtal in the Nainital district of Uttarakhand, at an altitude of 1,370 metres above mean sea level (MSL). Kathgodam, the nearest railway station, is approximately 21-22 km from Bhimtal and is well connected to Delhi by regular train services. From Kathgodam railway station, Bhimtal can be reached in approximately 45-60 minutes by bus, shared taxi or hired cab. Bhimtal can also be reached from Haldwani, which is approximately 299 km from Delhi and is well connected by road. Regular bus services and shared or hired taxis are available from both Haldwani and Kathgodam to Bhimtal. The nearest airport is Pantnagar Airport, located approximately 56 km from Bhimtal, from where hired and shared taxis are readily available.

Introduction

Disease outbreaks pose a major challenge to sustainable aquaculture, necessitating rapid and reliable diagnostic approaches. Molecular techniques meet this need, with PCR, quantitative PCR (qPCR) and loop-mediated isothermal amplification (LAMP) offering sensitive and specific pathogen detection. Building on these, next-generation sequencing (NGS) enables comprehensive pathogen identification and genetic characterization, while in situ hybridization (ISH) localizes pathogens within host tissues. Complementing them, environmental DNA (eDNA)-based monitoring strengthens disease surveillance, broodstock screening and biosecurity, promoting preventive health management, minimizing economic losses and ensuring sustainable aquaculture development.

Course contents

- Sample collection and preservation
- Extraction of nucleic acids and quality assessment
- PCR-based molecular diagnostic techniques in fish pathology
- qPCR-based molecular diagnostic techniques in fish pathology
- CRISPR-based diagnostics in fish disease detection
- Amplification and sequencing techniques
- Bioinformatic analysis of sequence data
- Emerging trends in molecular diagnostics

Training fee

Students - Rs 2,950 (including GST)
Other participants - Rs 6,490 (including GST)

The training fee includes registration kit, course material and refreshments only.

Payment

Payment can be made by the participants digitally to the bank account of ICAR-CICFR or at the institute on the first day of training.The registration fee should be paid only after receiving the official acceptance email confirming the acceptance of the application for the training programme.

The fee, once paid, is non-refundable

Account Name: ICAR UNIT- DCFR, Bhimtal
Account number: 11521442640
Bank name: State Bank of India
Branch address: Bhimtal, District Nainital, Uttarakhand, India 263136
IFSC Code: SBIN0007348

Note: The institute will issue the receipt for the payment made by the participants or the sponsoring agency during the training period.



How to apply

Scientists, entrepreneurs, academicians, government officials, industry representatives, technical officers, and research scholars interested in or engaged in aquaculture and fisheries can apply for the training programme. Candidates can apply by filling in the Google form or by scanning the QR code given below. Candidates can also apply by sending an email to neetuicar@gmail.com.

Candidates may apply for the training in the prescribed format on or before 15.01.2027. The selected candidates will be informed by email by 20.01.2027

https://forms.gle/k1MCqV8a392ZE4pn7

Boarding and lodging

Boarding and lodging expenses have to be borne by the participants or the sponsoring agency of the participants. The ICAR-CICFR guesthouse facility can be provided to trainees, as per ICAR norms, if available at the time of training. When the guesthouse is not available, participants shall be given guidance to find suitable accommodations in the vicinity. Travel expenditure has to be borne by the sponsoring authority or by the candidates themselves.

	ICAR-Central Institute of Coldwater Fisheries Research **Bhimtal-263136, Nainital, Uttarakhand**
	Application for Training Course

Training title	:
Name of the candidate (In Capital Letter)	:
Gender	:
Address of the Candidate with PIN CODE	:
Date of Birth	:
Nationality	:
Whether belong to SC/ST Category (if yes, please attach the relevant proof)	
Educational Qualification	
Designation if employed / Farmer / Student / Others (Please specify)	
Mobile No	
Email ID	
Particulars of the course fee DD /.NEFT UTR Number etc.	
Are you being sponsored ?	
If yes please give the name and address of the sponsoring organization	
Recommendations of the sponsoring Authority signature with office seal if any	

Date:
Place:

Signature of Applicant