

Skill Development Programme  
on  
**Application of Zebrafish as a  
Vertebrate Model for  
Bio-medical Studies**  
23 Feb 2021 to 5 Mar 2021

ICAR-Central Institute of Fisheries Education  
OffYari Road, Panch Marg, Versova, Mumbai -400 061

Application Form

Full Name (Block Letters)  
Educational Qualifications  
Present Position  
Affiliation  
Address  
Telephone/ Mobile No  
Email address  
Current area of research / interest  
Expectations from the training program

Declaration:

I hereby declare that the information provided by me is true, and I shall abide by the rules and regulations of the laboratory of Fish Genetics and Biotechnology, ICAR-Central Institute of Fisheries Education, Mumbai.

(Signature of Candidate)

Date  
Place

Programme Director

Dr. Gopal Krishna  
Director / Vice-Chancellor

Course Director

Dr. Aparna Chaudhari

Course Coordinator

Dr. N. S. Nagpure  
Dr. M. A. Pathan

All correspondence should be addressed to:

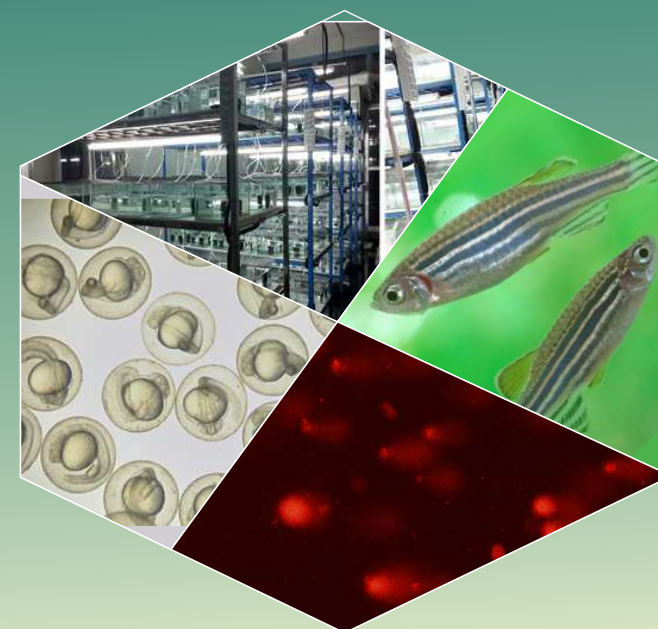
**Dr. Aparna Chaudhari**  
Head of FGB Division  
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(Deemed University)  
Mumbai  
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# Skill Development Programme on Application of Zebrafish as a Vertebrate Model for Bio-medical Studies

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## Introduction

The zebrafish, *Danio rerio*, is a widely used model organism for bio-medical research. It has been used to further the understanding of molecular biology, genetics, developmental biology, oncology, neurobiology, and also to screen the activity/ toxicity of novel drugs and bioactive molecules. Zebrafish has many advantages over other vertebrate models. Short life span, established husbandry and breeding practices, external fertilization, rapid development, optical clarity during embryogenesis, and high fecundity are attractive traits in a model organism. The present **SDP on Application of Zebrafish as a Vertebrate Model for Bio-medical Studies** is designed to provide hands-on training to the participants on the following topics:

- Zebrafish Husbandry
- Embryogenesis in zebrafish
- Genotoxicity assays
- Nanotoxicity studies
- Histopathological studies
- Water quality analysis
- Microinjection of zebrafish embryos
- Zebrafish as in vitro model

## Eligibility

Students/ Scientists/ Researchers who are citizens of India and hold a Masters' degree in any discipline related to Life Sciences are eligible for the training programme. In case of students and employees, the applications must be forwarded by the Head of

Division/Employer. Those who are unemployed must submit a copy of their Masters' degree along with their application. All the applications should be emailed to the Course Director of the programme on or before 18 Feb 2021

## Intake Capacity

A total of 15 participants only will be selected after screening.

## 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 : 10132355212  
IFSC Code : SBIN0003117

## Travel and Logistics

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

## Dates to remember

Last date for submission of application: 18 Feb 2021

Communication of selection: 19 Feb 2021  
Confirmation by candidate: 21 Feb 2021



## About ICAR-CIFE

ICAR-Central Institute of Fisheries Education (Deemed University) is India's only National Fisheries University. It is a premier institution dedicated to promoting higher fisheries education through generation of high quality human resource, high end research in both basic and applied aspects, generation of appropriate technologies and their dissemination. CIFE alumni constitute the country's present leadership in this sector. CIFE has global linkages and a significant role in fisheries education of African and SE Asian countries.

The Fish Genetics and Biotechnology Division of ICAR-CIFE with its highly qualified and committed faculty, is engaged in seeking solutions to various problems in aquaculture and fisheries by applying latest genetics and biotechnology tools. The Division has strengths in the areas of genetic engineering, transgenesis, molecular genetics, nanotechnology, cell culture and quantitative genetics. For the first time in India, CIFE is developing inbred lines and pedigree stock of zebrafish, and has set up a Centre for Zebrafish Breeding and Genetic Research (CZeBraG) to serve as a national zebra fish genetic resource for researchers.

The Institute is located about 8 km away from the domestic and international airports and 20 km from Dadar Railway Terminus. Mumbai, the financial capital of India, is well connected by rail and road with all major cities of India. The climate during July is quite comfortable and is marked by continuous rainfall during this month, so it is advisable to carry an umbrella / raincoat with you.