Department of Health Research (DHR)

Ministry of Health & Family Welfare, Government of India

Sponsored

Training Course on

"AI in Health Research: From Discovery to Delivery"

4th-29th May, 2026

About the Course

Department of Health Research (DHR) is committed to upgrading the skills of faculty, students, and mid-career scientists from medical colleges, universities, and research institutions across India. The aim is to empower researchers to address priority national health challenges using modern biomedical and computational technologies.

Under this initiative, the ICMR-National Institute for Research in Reproductive and Child Health (NIRRCH) Mumbai, a leading institute with expertise in basic, clinical, operational, and implementation research, is conducting a training program on Artificial Intelligence (AI) in Health Research: From Discovery to Delivery.

What you will learn

This 4-week program will be a primer on the potential of AI in health research and healthcare service delivery. The course will provide conceptual knowledge and practical exposure in the following areas:

- Machine learning and deep learning for diagnostics, drug discovery, epidemiological and disease modeling, risk prediction.
- Experimental validation, interpretation, regulatory, and ethical aspects of AI delivered leads from discovery to delivery.
- Hands-on training on biomedical techniques such as PCR, Real-time PCR, Droplet Digital PCR, DNA sequencing, Pyro-sequencing, ELISA, and flow cytometry, as well as data processing and bioinformatics workflows.
- Research methodologies covering grant writing, study design, sample size calculation and basic biostatistics.

Program format

Interactive mix of lectures, demonstrations, hands-on labs, panel discussions, group activities, and assignments.

Eligibility

- Faculty from medical colleges, research institutes, MRHRUs, MRUs, or universities.
- Candidates with MBBS/ MPharm/ MD/ MDS/ MVSc/ BDS/ BAMS/ PhD degrees interested in a research career.
- Candidates from north-east, semi-urban, or rural regions are encouraged to attend.

Note: All applications must be forwarded through proper channel with an NOC from the head of the department.

Accommodation

Outstation participants may avail shared lodging at a nominal cost. Travel and food expenses are to be borne by the participants.

Fee & deposit

No fees will be charged. However, a refundable deposit of INR 2000/- will be collected.

Key dates

- Online applications: 1st-16th March, 2026
- Selection results: 31st March, 2026

Venue

Dr. Shanta Rao Auditorium, ICMR-NIRRCH, Mumbai

Registration link

https://training.nirrch.res.in/

Portal opening on 1st March, 2026

Contact Us

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