

Department of Health Research (DHR) Ministry of Health & Family Welfare, Government of India

Sponsored
4-Week Training Course on

“Integrated Molecular and Bioinformatics Approaches in Haemoglobinopathies : From Diagnostics to OMICS”

(15th June – 10th July, 2026)

About the Course

Department of Health Research is committed to upgrading the skills of faculty, researchers and students from medical colleges, research institutions and universities across the country. The goal is to enable researchers to address the health issues of national relevance using modern technologies. Under this initiative, the ICMR-Centre for Research Management and Control of Haemoglobinopathies, is conducting a 4-week training course on “*Integrated Molecular and Bioinformatics Approaches in Haemoglobinopathies: From Diagnostics to OMICS*”.

About the Centre

ICMR-CRMCH is a newly established centre in Chandrapur, Maharashtra by the Indian Council of Medical Research, New Delhi under the aegis of the ICMR-National Institute of Immunohaematology (NIIH), Mumbai. The centre is dedicated to research, training, translation, and service, with a focus on capacity-building in haemoglobinopathies.

Course content

This 4-week course is designed to provide participants with a strong foundation and up-to-date knowledge in Molecular Genetics, Bioinformatics, and Data Science, with a specific focus on the diagnosis and management of haemoglobinopathies. The course will provide conceptual knowledge and experience in the following areas:

- Advanced diagnostic approaches for haemoglobinopathies & other red cell disorders (HPLC, electrophoresis, G6PD, flow cytometry)
- Molecular techniques, including PCR-based mutation detection, prenatal diagnosis & DNA sequencing
- Bioinformatics tool & techniques, next-generation sequencing, and OMICS data analysis (WGS, RNA-Seq).
- Research methodology & Biostatistics for conducting high-quality health research, including applications of AI and ML approaches.

Course format

The program will cover a combination of lectures, interactive sessions, demonstrations, hands-on sessions, and group activities.

Who can apply

- Candidates with MBBS/MD/MPharm/BDS/ MSc/PhD/Postdocs or Research scholars who are interested in pursuing a career in research.
- Faculty of medical colleges, MRHRUs, MRUs, Research Institutions, or Universities.
- Candidates from semi-urban or rural regions are also encouraged to apply

Note: Selected applicants need to submit the NOC/Forwarding Letter from the HOD/Institution.

Accommodation

The institute has accommodation facilities that can be provided to outstation participants at nominal charges with ICMR norms. (Travel and food expenses are to be borne by the participants)

Fee & deposit

No fees will be charged for the course. However, a refundable deposit of INR 1500/- will be collected.

Important dates

- **Online application:** up to 30th April 2026
- **Selection results:** 15th May 2026

No. of Seats

15 participants will be selected for this course. Selected participants will be informed by email.

Venue



Seminar Hall, 2nd Floor,
ICMR-CRMCH, Chandrapur,
Maharashtra - 442 406

(<https://maps.app.goo.gl/nceg1JmemSZR6QX19>)

For Registration

Google form link

<https://forms.gle/vFn7ehqPREe2RwR96>

Scan Here



Convenor

Dr Manisha Madkaikar
Director, ICMR-NIIH & CRMCH