



**icmr**  
INDIAN COUNCIL OF  
MEDICAL RESEARCH

**NIRRCH**  
NATIONAL INSTITUTE FOR RESEARCH  
IN REPRODUCTIVE AND CHILD HEALTH

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

Training Course on  
“Human Disease Models: Approaches, Advances and Applications”  
6<sup>th</sup> to 31<sup>st</sup> May 2024

Department of Health Research (DHR) is committed to upgrading the skills of faculty and students from medical colleges and mid-career scientists from research institutions and universities across different regions of the country. The goal is to enable researchers to address the health issues of national relevance using modern technologies. Under this initiative, the National Institute for Research in Reproductive and Child Health (NIRRCH), a premier ICMR institute having expertise in basic, clinical, operational, and implementation research and excellent state-of-the-art facilities, is conducting a training course on human disease models.

**COURSE CONTENT:** The 4-week course will impart training in 2D and 3D cell cultures; iPSCs generation; Organ-on-Chip; Xenograft, syngeneic, and transgenic mice models as well as computational tools for disease-network analysis. In addition, molecular tools like real-time PCR, droplet digital PCR, Next Generation Sequencing, Pyrosequencer, Flow Cytometry & High Content Screening will be covered.

**COURSE FORMAT:** Lectures, demonstrations, hands-on experiments, group activities and assignments

- ✓ **Who can apply:** Faculty of medical colleges / research institutes / MRHRUs / universities. Candidates with MBBS / MPharm / MD / PhD degree having interest in pursuing a career in research can also apply. Candidates from the north-east, semi-urban or rural areas are encouraged to apply. Applications need to be forwarded through a proper channel with NOC from the head of the department.
- ✓ Registration link : <https://training.nirrch.res.in/>
- ✓ Online applications: 1<sup>st</sup> February to 8<sup>th</sup> March 2024
- ✓ Selection on or before: 2<sup>nd</sup> April 2024
- ✓ Fees: No Fees will be charged. However, a refundable deposit of INR 2000/- will be collected.
- ✓ Accommodation: Outstation participants may be provided lodging facility at a nominal cost.
- ✓ For any queries: drop a mail [training@nirrch.res.in](mailto:training@nirrch.res.in)