



3 Months Training Programme on
Unified
Genomic Frontiers

Bridging Molecular Biology &
Computational Disease Modelling
Across India

30th | **23rd**
TO
April 2025 | July 2025

Funded by :

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

**“Decode Your Genes
Code for Better Health”**



ABOUT THE WORKSHOP

The "Unified Genomic Frontiers" workshop seamlessly integrates molecular biology with computational disease modeling, fostering an interdisciplinary ecosystem where researchers & healthcare professionals gain proficiency in genomics, bioinformatics & AI-driven disease modeling. By combining theoretical insights with hands-on training, this program delves into cutting-edge genomic technologies, machine learning applications in healthcare & bioinformatics tools for predictive disease analytics. Through collaborative learning & cross-disciplinary engagement, attendees will acquire a holistic understanding of modern healthcare solutions, positioning themselves at the forefront of biomedical research & technological advancements

MODULE-1 (ONLINE / HYBRID TRAINING)

- Basics of Molecular Biology & Genomic Techniques
- High-Throughput Sequencing & Genome Editing (CRISPR, TALENs)
- Ethical Considerations & Regulations in Genomics
- Bioinformatics Tools for Genomic Data Analysis
- AI & Machine Learning in Genomic Research
- Genomic Technologies in Personalized Medicine
- Disease Simulation & Predictive Analytics
- Data Mining Pathogenic SNPs & Disease Phenotypes
- AI-Powered Genomic Diagnostics & Clinical Applications

08 Weeks

MODULE-2 (ONSITE HANDS-ON TRAINING)

- Fundamentals of Clinical Research & Study Design
- In Vitro Models for Disease Study & Cell Culture Techniques
- Neural Networks for Disease Prediction & Analysis
- AI Integration in Disease Study Models

04 Weeks

WHY JOIN THIS PROGRAMME ?

- Cutting-edge curriculum blending molecular biology & AI
- Hands-on lab training with state-of-the-art genomic tools
- Networking opportunities with top researchers & industry experts
- Certificate of Completion from a recognized institution
- Research project support & guidance for future studies



WHO SHOULD APPLY?

- Researchers & Scientists (Biotech/Biomedical/Life Sciences)
- Faculty & Students (Medical/Dental/Nursing/Pharmacy)
- AI/ML Experts Interested in Health Informatics
- Industry Professionals in Genomic Medicine
- Participants should have a postgraduate degree/Equivalent degree in relevant fields.

HOW TO APPLY ?

- ✉ Application Deadline : 25.04.2025
- 🔗 Registration Link : <https://forms.gle/7zLoMAANpFfS3H3U5>
- 📄 Sign up for this free training now! (Registration free)
- 🎯 Limited to 25 participants for personalized mentoring
- 🕒 Early registration recommended to secure your spot!



Scan QR to Register

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