

**A Hands-on Workshop**  
**NGS-based whole genome sequencing of epidemic RNA viruses**  
*Conducted by*  
**Molecular Biology Group**

**ICMR-National Institute of Cancer Prevention & Research (NICPR)**  
**Sector 39, Noida, Uttar Pradesh - 201301**  
(NICPR website: [nicpr.res.in](http://nicpr.res.in), ICMR website: [icmr.nic.in](http://icmr.nic.in))

*Sponsored by*  
**Indian Council of Medical Research (ICMR)**  
**Department of Health Research (DHR)**  
**Ministry of Health & Family Welfare, Government of India**  
**(May 22– May 26, 2023)**

## About ICMR-NICPR

ICMR-National Institute of Cancer Prevention and Research (NICPR) was established in 1979 as a Cytology Research Centre (CRC), and is the country's premier institute to carry out research in cancer prevention. The thrust areas of research include uterine cervix, breast and oral cancers, and Tobacco control research. ICMR-NICPR labs are equipped with state-of-art equipment for experiments on cancer biology, viral diagnosis & genome sequencing. NGS is being used to identify genomic variants, phylogenetic analyses, mutations associated with Vaccine breakthrough/super spreader events, etc.

## About the Course

The workshop aims at imparting hands-on training on:

- A. RNA extraction from clinical samples, quality & integrity assessment of the RNA
- B. cDNA synthesis from RNA template
- C. Library preparation
- D. Library amplification, purification & quantification
- E. Library enrichment and sequencing
- F. NGS data analysis
- G. Variant/Lineage analysis & Genetic relatedness

## Who can Apply

Registered PhD Students/Post-Doctoral/MBBS/MD/BDS/MDS/AYUSH/Project fellows (MSc completed)  
Faculty/Scientist of Medical colleges, Colleges/University/Model Rural Health Research Units (MRHRUs),  
Multidisciplinary Research Units(MRUs).

## Registration Details

- Please submit your application (giving brief bio-data specifying an email address and contact number) using this link - <https://forms.gle/Q5fm9OrSeU64JLCQ8>
- Last date of application for the workshop- **May 08, 2023.**
- A maximum of twenty participants will be enrolled.
- Candidates will be selected by a committee based on pre-specified criteria.
- Selected candidates will be informed through email by **10th May** and payment of **Rs. 2500/- per participant** should be completed by **May 17, 2023**
- Participants should make their own arrangements for boarding/lodging and travel.
- Please contact [ngspk2022@gmail.com](mailto:ngspk2022@gmail.com) **Mobile no: +91 – 9650437970** for any query

## Organizer

**Pramod Kumar, PhD**

**Scientist C**

**Nodal Officer NGS Facility**

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## Convener

**Dr. Mausumi Bharadwaj,**

**Scientist G**

**Head Molecular Biology Group**

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## Patron

**Dr. Shalini Singh**

**Director**

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