



## REGIONAL VIRUS RESEARCH DIAGNOSTIC LABORATORY

### ICMR REGIONAL MEDICAL RESEARCH CENTRE, BHUBANESWAR

#### **TRAINING AND HANDS-ON WORKSHOP ON MOLECULAR DETECTION AND GENOMIC CHARACTERIZATION OF RESPIRATORY VIRUSES OF PUBLIC HEALTH IMPORTANCE**

**DATE – 28<sup>TH</sup> FEBRUARY – 1<sup>ST</sup> MARCH, 2024**

**VENUE – REGIONAL VRDL, ICMR-RMRC, BHUBANESWAR**

The Regional Virus Research and Diagnostic Laboratory (VRDL) at ICMR Regional Medical Research Centre will conduct “**Training and Hands-on Workshop on Molecular Detection and Genomic Characterisation of Respiratory Viruses of Public Health Importance**” from **28<sup>th</sup> February to 1<sup>st</sup> March 2024**. The course will provide hands-on experience on different molecular techniques for detection and characterisation of respiratory viruses and next generation sequencing protocols for virus genomic surveillance. The course is targeted towards microbiologists, research scientists, research associates and PhD students working on virology, especially in a public health laboratory setting such as DPHL or VRDL. The 3-day workshop will include hands-on laboratory work, bioinformatics analysis, didactic lectures and quizzes on the topic.

#### **COURSE CONTENT**

- Overview of genomic surveillance and surveillance networks for respiratory viruses
- Biosafety practices and Biomedical waste management (Hands-on)
- Nucleic acid extraction techniques (Hands-on)
- Conventional PCR for virus detection and genotyping (Hands-on)
- Real-time PCR, Real-time RT-PCR and qRT-PCR (Hands-on)
- Quality control and analysis of real-time PCR data (Hands-on)
- Next generation sequencing chemistries (Short-read and Long-read sequencing chemistries)
- Next Generation Sequencing workflow for whole genome sequencing of SARS CoV2 and Influenza Virus (Demonstration)
- Bioinformatic analysis of NGS data (Demonstration)
- Databases for genomic surveillance data (GISAID, IBDC)
- Quality systems in molecular virology laboratory

- No. of Participants: 20
- No Course Fee will be charged for this workshop
- Eligibility: Microbiologist/Research scientists/Research associates/PhD students working on virology
- Accommodation and TA/DA costs need to be borne by the participants/nominating laboratory
- Lunch, tea,snacks and workshop kit will be provided to the participants on the workshop days

Interested candidates may apply for the workshop by filling out the Google Form provided in the link

<https://forms.gle/m8d1qApCknmLianY7>

**Last date for receiving applications: 15<sup>th</sup> February 2024**

For further information contact

Dr. Ira Praharaj 9751442591

Email: [trainingvrdlrmrcbb@gmail.com](mailto:trainingvrdlrmrcbb@gmail.com)