



REGIONAL VIRUS RESEARCH DIAGNOSTIC LABORATORY

ICMR REGIONAL MEDICAL RESEARCH CENTRE, BHUBANESWAR

2nd HANDS-ON WORKSHOP & TRAINING ON MOLECULAR DETECTION AND GENOMIC CHARACTERIZATION OF VIRUSES OF PUBLIC HEALTH IMPORTANCE

DATE – 10th – 13th MARCH, 2025

VENUE – REGIONAL VRDL, ICMR-RMRC, BHUBANESWAR

The Regional Virus Research and Diagnostic Laboratory (VRDL) at ICMR Regional Medical Research Centre will conduct “2nd Hands-on Workshop and Training on Molecular Detection and Genomic Characterization of Viruses of Public Health Importance” from 10th to 13th March 2025.

The course will provide hands-on training on different molecular techniques for detection and characterisation of viruses of public health importance and next generation sequencing protocols for virus genomic surveillance. The course is targeted towards microbiologists, research scientists, research associates, senior residents and PhD students working on virology, especially in a public health laboratory setting such as DPHL or VRDL or in a clinical virology laboratory setup. The 4-day workshop will include hands-on laboratory assays, bioinformatics analysis, didactic lectures, case scenarios and quizzes on the topic.

COURSE CONTENT

- Overview of genomic surveillance and surveillance networks for viruses of public health importance
- Biosafety practices and Biomedical waste management (Hands-on)
- Nucleic acid extraction techniques (Hands-on)
- Real-time RT-PCR and Multiplexed real-time RT-PCR (Hands-on)
- Quantitative PCR techniques qRT-PCR, Droplet digital 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 Dengue virus (Demonstration and hands-on)
- Next Generation Sequencing workflows for whole genome sequencing of Influenza virus and SARS CoV2 (Demonstration and hands-on)
- Bioinformatic analysis of NGS data for viral genomes (Demonstration)
- Databases for genomic surveillance data for viruses (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/Senior residents working in virology
- Accommodation needs to be arranged by the participants
- 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 below or scan the QR Code

<https://forms.gle/r9wqJn6SCUyyTBTm6>

Last date for receiving applications: 20th February, 2025



For further information contact

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