

CSIR-North East Institute of  
Science and Technology

# Decoding Pathogens Using Genomics Approaches for One Health (DePG-OH)



## Two-Days Workshop & Hands-on Training

21<sup>st</sup> - 22<sup>nd</sup> January, 2026

Organised by CSIR-NEIST, Jorhat & Funded by DBT

### About the Workshop

This workshop brings together scientists, clinicians, public-health professionals, and conservation experts to explore emerging trends and future directions in genomics-driven pathogen surveillance and disease mitigation. In the context of rapid advances in high-throughput sequencing and analytical genomics, it addresses the need for interdisciplinary collaboration to identify critical gaps and improve understanding of zoonotic spillover and infectious disease emergence. The two-day workshop and hands-on training offer practical exposure to modern genomics and multi-omics approaches, including sequencing fundamentals, essential programming skills, and applied training in targeted and shotgun metagenomics, viromics and molecular techniques for data-driven pathogen analysis.

#### Who can apply?

Postgraduates, Faculties, Doctoral  
& Postdoctoral researchers



**SEATS LIMITED TO 25 ONLY**

Registration Deadline  
January 15<sup>th</sup>, 2026

SCAN TO REGISTER  
Link: <https://bit.ly/4ju1OPd>

**NO REGISTRATION FEE**

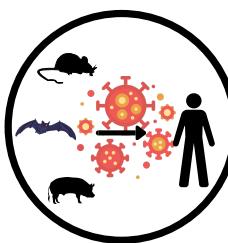
⌚ 9:00 to 17:30

#### Workshop Highlights

- Metagenomics & Viromics
- Pathogen discovery
- Molecular techniques for pathogen identification
- Human wildlife interaction
- Multi-OMICs

#### Hands-on Learning

- Basics of Genomics & Sequencing technologies
- Handling of metagenomics sequences
- Metagenomic data analysis
- Demonstration of digital droplet PCR (ddPCR)



#### CHIEF GUEST & SPECIAL LECTURE



**Prof. Sekhar C. Mande**

Dist. Prof. SPPU  
(Former DG-CSIR & Secy. DSIR  
President, INSA)

#### PATRON



**Dr. Virendra M. Tiwari**  
Director, CSIR-NEIST

📍 Centre For Infectious Diseases (CID)  
Biological Sciences and Technology Division, CSIR-NEIST, Jorhat

## About CSIR-NEIST

CSIR-North East Institute of Science and Technology (CSIR-NEIST), Jorhat, Assam, is a premier multidisciplinary research institute under the Council of Scientific and Industrial Research, dedicated to the development of need-based technologies for the North Eastern Region and the nation. Established in 1961, the institute focuses on transforming the region's rich natural resources such as petroleum, natural gas, minerals, tea, and aromatic and medicinal plants—into sustainable technological solutions for industry and society. With state-of-the-art laboratories and expertise spanning agrotechnology, microbiology, molecular biology, materials and chemical sciences, and data-driven technologies, CSIR-NEIST nurtures innovation, entrepreneurship, and skill development. The institute actively partners with industries, startups, and community stakeholders to deliver technologies that generate employment, support rural development, and improve quality of life across the North East.

## Invited Speakers



**Dr. G. Umapathy**  
Chief Scientist, CSIR-CCMB



**Dr. Rajesh Pandey**  
Sr. Pr. Scientist, CSIR-IGIB



**Dr. Farah Ishtiaq**  
Pr. Scientist, BRIC-TIGS



**Dr. Sandeep Gupta**  
Scientist F, WII



**Dr. Avinash Sharma**  
Scientist E, BRIC-NCCS



**Dr. Pankaj Barah**  
Asst. Professor, Tezpur University



**Dr. Rajib Deb**  
Sr. Scientist, ICAR-NRCP



**Dr. Pankaj Deka**  
Asst. Professor, AAU-Vet.

## Organizing Committee

### GENERAL CHAIR

**Dr. Ratul Saikia**, Chief Scientist, HOD, BSTD, CSIR-NEIST  
**Dr. Rituraj Konwar**, Sr. Principal Scientist, Activity In-charge, CPS, CSIR-NEIST  
**Dr. Jayashree C. Phukon**, Sr. Scientist, Activity In-charge CID, CSIR-NEIST

### CO-CONVENOR

**Dr. Wahengbam Romi**  
Sr. Scientist, CID, CSIR-NEIST  
**Dr. Sridhar Hiremath**  
Scientist, CID, CSIR-NEIST

### CONVENOR

**Dr. Pankaj Bharali**  
Sr. Scientist,  
CID, CSIR-NEIST

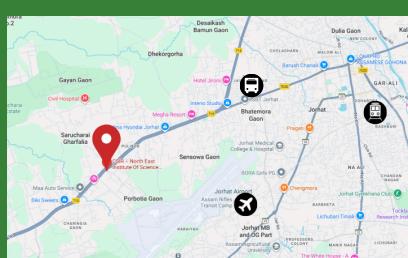
### CO-ORDINATORS

**Mr. Nayan Jyoti Borah**, Tech. Asst., CID, CSIR-NEIST  
**Ms. Anita Kachari**, Tech. Asst., BSTD, CSIR-NEIST  
**Dr. Cinmoyee Baruah**, Sr. Project Associate, CID, CSIR-NEIST

### EXECUTIVE MEMBERS

**Mr. Manabendra Borah**  
**Ms. Simna Pavithran**  
**Mr. Ankit Singh**  
**Ms. Anjali Hazarika**  
**Mr. Polas Jy. Mahanta**

## How to Reach Us



**Nearest Airport**- Rowrah Airport, Jorhat  
Airport Rd, Jorhat, Assam 785005

**Nearest Railway Station**-Jorhat Railway Station  
Bashbari, Jorhat, Assam 785001

**Nearest Bus Stand**- ISBT Jorhat  
Assam Trunk Rd, Sonari Gaon, Tarajan, Jorhat,  
Bhatemora Gaon, Assam 785006

## Contact Info:



[depgoh.workshop@gmail.com](mailto:depgoh.workshop@gmail.com)



[www.neist.res.in](http://www.neist.res.in)



9435390992, 7576834399