



P V Narsimha Rao Telangana Veterinary University
Rajendranagar, Hyderabad, Telangana-500 030



ICAR Sponsored Winter School **on**

Advanced Molecular Biology Tools for Communicable Disease Detection:
A One Health and Phylogenetic Approach
23rd December 2025 to 12th January 2026



Organized by
Department of Veterinary Public Health and Epidemiology
P V Narsimha Rao Telangana Veterinary University
Rajendranagar, Hyderabad, Telangana-500 030

About the P V Narsimha Rao Telangana Veterinary University, Hyderabad

College of Veterinary Science, Rajendranagar was established on 05.08.1946 as a constituent of Osmania University by the Excellency of Nizam of Hyderabad, a Princely state in pre-independent India. Later, it became a part of Andhra Pradesh Agricultural University and Acharya N G Ranga Agricultural University until 2005. In the same year, the Veterinary faculty was delineated from this university to form a separate University in the name of Sri Venkateswara Veterinary University (SVVU), Tirupati. Consequent to the bifurcation of state into AP and Telangana in 2014, P V Narsimha Rao Telangana Veterinary University (PVNRTVU) was established by the Government of Telangana on 22.11.2014 with headquarters at Rajendranagar, Hyderabad. The university has three Veterinary colleges (Rajendranagar, Mamnoon and Korutla), one Dairy Technology college, one Fisheries Science college and four Animal Husbandry Polytechnic colleges, six Research Stations, one Krishi Vignana Kendra (KVK).

Climate at Hyderabad

Participants are informed that Hyderabad in late December and January experiences a mild and pleasant winter weather, with daytime temperatures generally ranging between 24-28°C and cooler evenings that may drop to 12-15°C. Humidity levels remain low and rainfall is unlikely, though occasional early morning cool or haze may occur. Light woollen clothing such as a shawl or sweater is recommended for evenings and air-conditioned indoor venues, while comfortable cotton wear is suitable during the daytime. Participants are advised to stay hydrated, use comfortable footwear for campus movement, and consider carrying a light scarf or jacket for comfort during cooler hours. Overall, weather remains comfortable and conducive for outdoor activities and travel.



Course Background

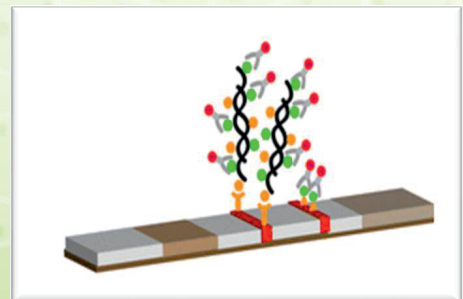
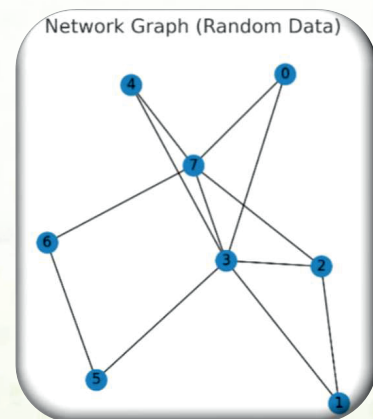
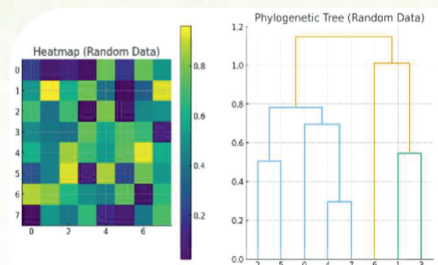
Communicable diseases continue to pose significant challenges to livestock, poultry, human health, and ecosystems, particularly in the context of climate change, antimicrobial resistance, evolving pathogens, and intensified global trade. Strengthening early detection and molecular surveillance capacity is therefore essential for effective disease control and prevention.

This Winter School on “**Advanced Molecular Biology Tools for Communicable Disease Detection: A One Health and Phylogenetic Approach**” aims to build the technical and analytical capabilities of faculty and researchers working in animal, human, and environmental health sectors. The training covers a broad spectrum of advanced diagnostic and analytical platforms, including multiplex and real-time PCR, LAMP, ELISA, lateral flow assays, CRISPR based diagnostics, next-generation sequencing, phylogenetic and bioinformatics-based disease characterization, and the use of Artificial Intelligence in disease monitoring and surveillance.

By integrating the One Health framework, the program promotes interdisciplinary collaboration and evidence-based decision-making to strengthen surveillance systems, enhance outbreak response, ensure food safety, and support sustainable health strategies in agricultural and public health ecosystems.

Objectives

- To strengthen theoretical understanding of communicable diseases and the One Health approach, integrating animal, human, and environmental health perspectives.
- To provide training on advanced molecular and immunodiagnostic tools such as multiplex and real-time PCR, LAMP, ELISA, lateral flow assays, CRISPR based diagnostics, next-generation sequencing, and AI-assisted disease surveillance.
- To develop hands-on laboratory skills in assay setup, data interpretation, phylogenetic and bioinformatics-based pathogen characterization.
- To promote interdisciplinary collaboration, standardized laboratory practices, and evidence-based disease surveillance and outbreak response.



Eligibility

Applicants should be working not below the rank of Assistant Professor or Scientist or equivalent position in the relevant subject from any ICAR Institutes or Universities or KVKs with working knowledge of Computers. The maximum number of participants shall be restricted to 25.

Venue

Seminar hall at College of Veterinary Science, PVNRTVU, Rajendranagar, Hyderabad, Telangana-500 030 (<https://maps.app.goo.gl/8ZUiPCS5oQ11uVqr9>).

Travel

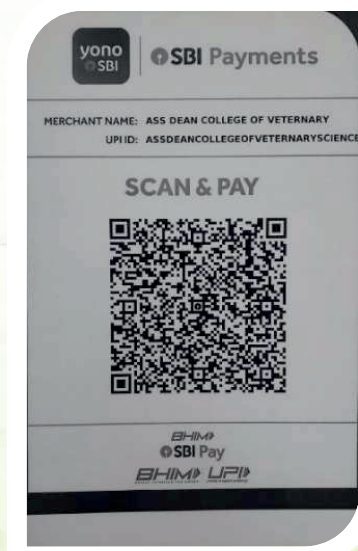
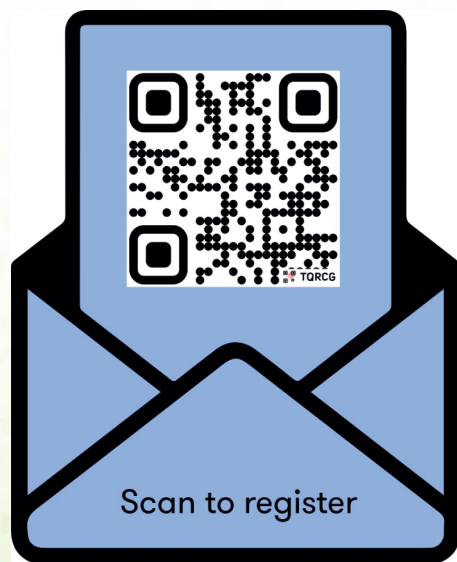
Participants will be paid travel (to and fro) fare by rail (restricted to AC-III/II tier subject to the availability of funds) or by bus as per their entitlement. Actual TA for the shortest route will be paid on production of the tickets from funds provided by ICAR as per norms and operational guidelines for organization of Summer/Winter School training courses.

Lodging and Boarding

Double occupancy accommodation along with boarding will be provided to the non-local participants in Swetha Scientist Home of ICAR-NAARM, Rajendranagar, Hyderabad (<https://maps.app.goo.gl/KisrpPhvgm93F7veA>), while tea, snacks and lunch will be provided to local participants. The participants are strictly requested not to bring any accompanying person with them due to restricted accommodation at ICAR-NAARM.

How to apply

The applicants should submit the nomination form (<https://forms.gle/3pvkEV2wLWVVxa2h9>) duly signed by the forwarding authority, along with other information requested. Participants should pay Rs. 50/- as registration fee by UPI transfer, scanning the QR code displayed in the google form or in the information brochure and attach the proof of payment.



Selection of Participants

The applicants with relevant work experience will be given preference. The decision of the course director will be final in the selection of participants. The selected candidates will be informed on 8th December 2025.

Important Dates

- Last date for receipt of nomination: 5th December 2025
- Intimation of selection to participants: 8th December 2025
- Confirmation of participation by candidates: 13th December 2025

Organizing Committee

- Chief patron** : **Prof M Gnana Prakash**
Hon'ble Vice-Chancellor
P V Narsimha Rao Telangana Veterinary University, Hyderabad
- Patron** : **Prof M Udaya Kumar**
Dean of Faculties
P V Narsimha Rao Telangana Veterinary University, Hyderabad
- Chairman** : **Prof M Srinivasa Reddy**
Associate Dean
College of Veterinary Science, Mamnoon, Warangal
- Co-Chairman** : **Prof D Madhuri**
Associate Dean
College of Veterinary Science, Rajendranagar, Hyderabad

Course Director

Dr. A.Vijaya Kumar
Associate Professor & Head
Department of Veterinary Public Health and Epidemiology
College of Veterinary Science, Mamnoon, Warangal-506166
Mobile:9492001734; Email: anumolu.vk@pvnrtvu.ac.in

Course co-directors

Dr. S. Vamshi Krishna
Associate Professor & Univ. Head
Department of Veterinary Microbiology
College of Veterinary Science,
Mamnoon, Warangal-506166

Dr. G. Vishweshwar Kumar
Assistant Professor
Department of Veterinary Biotechnology
College of Veterinary Science,
Rajendranagar, Hyderabad-500030

Organizing members

Prof. Ch. Satyanarayana, Univ Head of Vety and AH Extension, CVSc, R'nagar
Prof. Sujatha Singh, Univ Head of Vety Public Health & Epidemiology, CVSc, R'nagar
Dr P Kalyani, Associate Professor of Vety Biotechnology, CVSc, R'nagar
Dr B Vidya, Associate Professor & Head, Dept of Animal Nutrition, CVSc, Mamnoon
Dr E Kumar, Associate Professor & Head, Vety Public Health & Epidemiology, CVSc, Korutla
Dr C Vinaya Sree, Associate Professor of Vety Physiology, CVSc, R'nagar
Dr L Gopala, Assistant Professor & Head of Veterinary Microbiology, CVSc, R'nagar
Dr P Shiva Kumar, Associate Professor of Vety Pharmacology & Toxicology, CVSc, R'nagar
Dr B Srinu, Associate Professor of Vety Public Health & Epidemiology, CVSc, R'nagar
Dr Sarin K Kunnath, Associate Professor of Animal Genetics & Breeding, CVSc, R'nagar

Contact for further details

Dr L Gopala

Head, Department of Veterinary Microbiology
College of Veterinary Science, Rajendranagar, Hyderabad
Mobile: 9618131312; Email: wsvphpvnrtvu2025@gmail.com

**P V NARSIMHA RAO TELANGANA VETERINARY UNIVERSITY
RAJENDRANAGAR, HYDERABAD-500 030**

NOMINATION FORM



21-day ICAR SPONSORED WINTER SCHOOL

On

**ADVANCED MOLECULAR BIOLOGY TOOLS FOR
COMMUNICABLE DISEASE DETECTION: A ONE HEALTH
AND PHYLOGENETIC APPROACH**



This is to certify that Dr. _____ currently
holds the position as _____ at
_____ institute
has completed _____ years of active service.

I wish to nominate him/her to attend the 21-day ICAR-sponsored winter school
“**Advanced Molecular Biology Tools for Communicable Disease Detection: A One
Health and Phylogenetic Approach**” from 23.12.2025 to 12.01.2026 at P V Narsimha Rao
Telangana Veterinary University, Hyderabad. I feel this would help his/her career and has no
objection of him/her participating in the training programme.

**Signature and Seal of
the Head of the Institute**