



National Workshop on
“Analysis and Applications of
NGS data for Microbial and
Animal Genomics Research”

10th – 14th August 2026

Organized by

Bioinformatics Centre
Madras Veterinary College
Chennai – 600007, Tamil Nadu



The first Veterinary and Animal Sciences University in Asia was established on 20th September 1989 with its head quarters in Chennai with the name “**Tamil Nadu Veterinary and Animal Sciences University**” (popularly abbreviated as **TANUVAS**) and is functioning with a mandate to impart education, the advancement of learning and research and undertake extension to rural people in co-operation with the government departments.

TANUVAS has been accredited by the Indian Council of Agricultural Research (ICAR) with Grade ‘A’. As per NIRF-Ranking (2025), TANUVAS is ranked twenty sixth among all institutions in the category of Agriculture and Allied sectors and it has retained the status of first among State Veterinary Universities of the country. TANUVAS is the first veterinary university in the country to bag the “Sardar Patel Outstanding ICAR Institution Award” in the year 2011. With 9 constituent colleges, 13 Research Farms, 26 Outreach Centres, 10 Specialized Research Laboratories, the University is in the forefront of education, research and

extension in the field of veterinary, animal and food sciences.

Madras Veterinary College

Madras Veterinary College is located in Vepery, Chennai and the College, one of the oldest Veterinary institutions in India, was established in 1903. The College became affiliated with the University of Madras in 1935, the first college



to offer the bachelor's degree in Veterinary Medicine in India and then affiliated with Tamil Nadu Agricultural University. In 1989, the College has become a constituent unit of TANUVAS. At present, the College has 31 departments/units and offering various degree and diploma courses in Veterinary and Animal Sciences. This heritage institution is known for its infrastructure, renowned faculty and expertise.

Bioinformatics Centre

The Bioinformatics Centre at Madras Veterinary College was established as one of the nodes in the Bioinformatics Network (BTISNet) as Distributed Information Sub Centres (SubDICs) in the year 1990-1991 with the objective to harness the scientific knowledge of rapid advancement in bioinformatics and sustainable utilization of biological resources.

The Centre provides computational facilities and bioinformatics related services to cater the needs of Faculties, Scientists, Research Scholars, Technical staff and Students of Veterinary, Animal and Life Sciences in the field of Bioinformatics.

The Centre is equipped with the state-of-the-art facilities in terms of hardware, software, information storage and retrieval and an in-house wet-lab to carry out molecular biology studies. Major activities of the Centre include human resource development, research, information retrieval, database creation, etc.



So far, this Centre has trained more than 2860 scientists, research scholars, faculties, technical staff and students in the area of bioinformatics. Presently, a PG diploma course in Bioinformatics (Distance mode) is being offered by this Centre, as well as project guidance/internship in different areas of bioinformatics is being provided to the students of external institutions also.

Research in the area of genomics, proteomics, molecular interactions and optimization, epitope prediction, database creation, modelling, comparative genomics, virtual Screening and simulation are being carried out at this Centre.

Objectives of the Workshop

- To provide the participants with fundamental concepts in Genomics Research.
- To familiarize the participants with various tools in sequence analysis, NGS data processing, phylogenetics and genomics work flow.



Contents: The broad areas to be covered during various sessions include lectures, practical demonstrations and hands-on training which will be based on the following themes:

- Overview: Bioinformatics and Genomics
- Various databases, sequence retrieval & submission and analysis
- Next Generation Sequencing workflows
- Eukaryotic and Prokaryotic Genomics
- Microbial metagenomics and Pangenome

Topics such as analysis of NGS sequence data, prediction of virulence genes and antibiotic resistance genes in bacterial genomes, multi locus sequence typing of microbes, eukaryotic genomics and genomics based selection, etc., will be covered in the workshop.

The participants will be familiarized with proprietary software DNASTAR Lasergene NGS suite and open source software such as MEGA, Galaxy server, PLINK, etc. In addition, participants will also be exposed to the proprietary molecular docking software Biovia Discovery studio.

Level of Participants: Faculties, Scientists, Technical Staff, Research scholars and Students.

Prerequisites: Knowledge of computer operation with biological background is preferable.

Number of Participants: 25 [*Only on first-come, first-served preferential basis*]

Registration Fee: Rs.4000/- + Applicable GST (now 18%: Rs.720).

Payment of Fee: The fee (Rs.4720/-) may be paid through Electronic mode (IMPS/NEFT/ RTGS/UPI) to A/C. No. **570502010008183** of **Union Bank of India**, MVC Vepery branch, Chennai-600 007, IFS Code: **UBIN0557056** or by Demand Draft drawn in favour of **“The Coordinator, SF Scheme on Human Resource Development, Bioinformatics Centre”** payable at **Chennai** on any nationalised bank.

Registration (with fee details):

https://docs.google.com/forms/d/e/1FAIpQLScR78Ae_97uRfCTg_pcs2PklgGCoWXsrm0ol3yzi0hepR90QA/viewform?usp=header



Note: *Registration (online) with payment details (UTR No. and date of payment) is mandatory for providing the Selection letter*

Accommodation and Food: Participants have to make their own arrangement for accommodation and food. However, accommodation will be

provided at TANUVAS Guest House on payment basis, subject to availability.

ORGANISING COMMITTEE

Convenor:

Dr. P. Devendran, Ph.D.,
Dean, Madras Veterinary College

Organising Secretary:

Dr. R. Venkataramanan, Ph.D.,
Professor and Head
Bioinformatics Centre, MVC

Co-organising Secretaries:

Dr. K. Anbu Kumar, Ph.D.,
Assistant Professor,
Bioinformatics Centre, MVC

Dr. P.L. Sujatha, Ph.D.,
University Deputy Librarian, MVC

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**Last date for Registration:
07.08.2026**