



National Workshop on

“Data Analysis Platforms and Tools for Biological Research: R, Python, Bioinformatics, Meta-analysis and Study Design”

12th – 16th October 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 headquarters 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 and bioinformatics services.

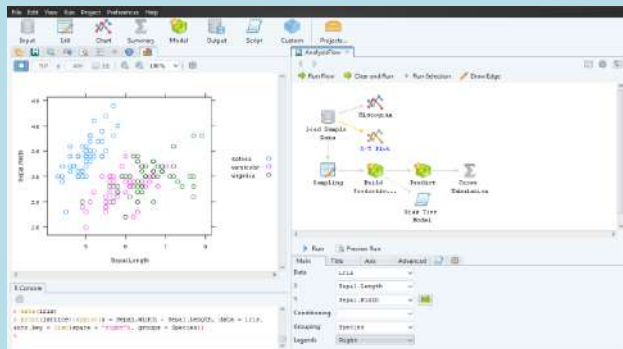
So far, this Centre has trained 2876 scientists, research scholars, faculties, technical staff and students in the area of bioinformatics. Presently, a PG diploma course in Bioinformatics (Distance mode) is being offered by this Centre, as well as project guidance/internship in different areas of bioinformatics 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 furnish the participants with an understanding of the importance of Data Analysis platforms and to provide exposure to tools in Biological Research using R and Python.



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 topics:

- Introduction to Biological Data: Types, estimation, database management and source
- Biological Databases
- Choosing the right statistical methods and power analysis
- Introduction to R language, Setting up of Working Directory, import of data and Installation of Packages
- Applications of R packages
- Introduction to Python language and its applications
- Meta analysis in Biological Research
- Prediction using Machine Learning and Artificial Intelligence

➤ Molecular Data Analysis and Docking Analysis

The participants will be familiarised with Data Analysis Platforms such as R & Python, Tools for Biological Data Mining, Meta-analysis, and power analysis among others.

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

Prerequisites: Basic 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 (@ 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 Veperiy branch, Chennai-600 007, IFS Code: **UBIN0557056** or by Demand Draft drawn in favour of **"The Coordinator, Self Financing 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/1FAIpQLSem1Xk-JyShvnWYMB8nXiey8VSwCVdPWU4WWTXqH-XXGs8V_rw/viewform?usp=publish-editor



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 may be arranged at TANUVAS Guest House on payment basis and 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:
09.10.2026**