

Tamil Nadu Veterinary and Animal Sciences University



**Workshop on  
Genomic and Proteomic  
Analysis for improvement of  
Productivity in Farm Animals  
23<sup>rd</sup> – 27<sup>th</sup> September, 2019**



सत्यमेव जयते

**Organized by  
Bioinformatics Centre & ARIS Cell  
Madras Veterinary College  
Chennai – 600007, Tamil Nadu**



The first Veterinary and Animal Sciences University in Asia was established on 20<sup>th</sup> September 1989 with its head quarters in Chennai with the name **Tamil Nadu Veterinary and Animal Sciences University (popularly abbreviated as TANUVAS)** after realizing the importance of education and research in animal and fisheries so as to increase its productivity towards better income generation for the farmers.

The Tamil Nadu Veterinary and Animal Sciences University has been conferred with the prestigious "Sardar Patel Outstanding ICAR Institution Award - 2011", recognizing its meritorious performance in education, research and extension in the country in the field of agricultural sciences including veterinary, animal and fisheries sciences among 63 agricultural and veterinary universities. TANUVAS is the first veterinary university in the country to bag this coveted award. Presently, TANUVAS is functioning with four Veterinary

Colleges, one Food Science College, one Poultry Science College, one Postgraduate Research Institute in Animal Science, seven Research stations, 20 University Training and Research Centres, four KVKs, three FTCs, twelve Research and Service Laboratories, two Ethno-Veterinary Herbal Training and Research Centres, one Agricultural Technology Information Centre, one Veterinary University Training & Diagnostic Centre and one publication division spread across the state to take care of research and extension needs of the livestock and poultry sectors.

### **Madras Veterinary College**

The Madras Veterinary College is located in Vepery, Chennai, India. The college was established on October 1, 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. In 1989, the college was affiliated with TANUVAS. At present the college has 32 departments and offers various degree and diploma courses in Veterinary & Animal Sciences, Bioinformatics and Biotechnology.



### **Bioinformatics Centre at MVC**

The Dept. of Biotechnology, Govt. of India, New Delhi has established a nationwide Bioinformatics network in India called BTISNet in 1986-87 with more than 168 centres. The main objective of this network is to harness the scientific knowledge of rapid advancement in Bioinformatics and Biotechnology and sustainable utilization of biological resources for the betterment of nation.



The Bioinformatics Centre at Madras Veterinary College has been identified as one such node in the network which was established as one of the Distributed Information Sub Centres (SubDICs) in the year 1990-1991 to cater the needs of scientists of Veterinary, Animal & Fishery Sciences in the field of Bioinformatics and Biotechnology.

The Centre has been providing computational facilities, bioinformatics related services to its users. The centre is equipped with state-of-art facilities in terms of hardware, software, information storage and

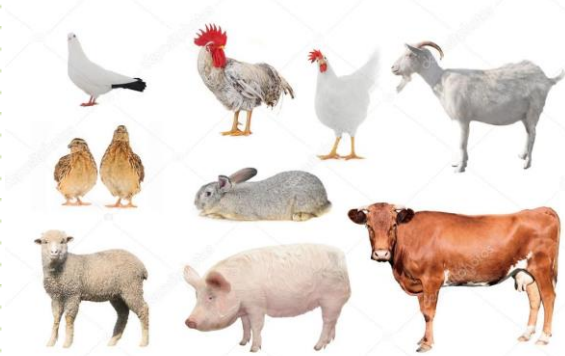
retrieval and an in-house wet lab to carry out molecular biology works. Major activities of the centre include human resource development, research, information retrieval, database creation, etc.

So far, (1999 to June 2019) this centre has trained around 2442 scientists, research scholars, faculties & Students in the area of Bioinformatics. PG course namely, M.Sc., Bioinformatics is being offered in this centre.

Research in the area of drug discovery, molecular docking, lead optimization, epitope prediction, microarray analysis, pathway analysis, database creation, modelling and comparative genomics are carried out at this centre.

#### **Objective of the workshop:**

To introduce the basic bioinformatics tools and methods to help teachers, lecturers and scholars in order to conduct advanced research in genomics



**Contents:** The broad areas to be covered during various sessions include theory lectures and practical demonstrations of the five days of workshop will be based on the following themes:

- i. Sequence Retrieval from Biological Databases
- ii. Sequence Analysis
- iii. Introduction to BLAST
- iv. Sequence Alignment Methods
- v. ClustalW & Phylogenetic Analysis
- vi. Bootstrapping Methods using Phylip, MEGA
- vii. Gene/Genome databases
- viii. Gene analysis tools
- ix. Primer design and analysis etc.

**Level of participants:** Teachers, Scientists, Farm Managers, Research scholars and Students.

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

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



**Registration Fee:** Rs.2000 /- + Rs.360 (18% of GST) for course material, tea and working lunch.

**Accommodation:** Would be provided at MVC / Hostel campus on payment basis on prior request, subject to availability.

**Last date for Registration: 21.09.2019**

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