

Tamil Nadu Veterinary and Animal Sciences University



Workshop on  
**APPLICATION OF  
BIOINFORMATICS  
IN ANIMAL SCIENCES**

17<sup>th</sup> – 21<sup>st</sup> June, 2019

Organized by

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



सत्यमेव जयते



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, 21 University Training and Research Centres, three 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

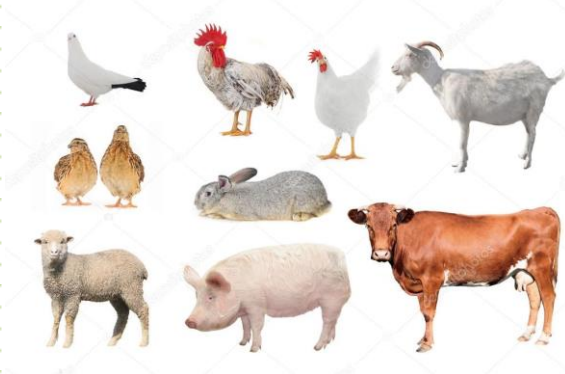
hardware, software, information storage and retrieval and an in-house wet lab to carry out molecular biology works. Major activities of the centre include human resource development, research, information retrieval, database creation, etc.

So far, (1999 to March 2019) this centre has trained around 2468 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 /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 decipher the theoretical and hands on practical knowledge in Bioinformatics and its different areas to vets. • To increase the awareness of *in silico* research works in Veterinary and Animal sciences.



**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. Introduction to basic tools of bioinformatics.
- ii. Sequence analysis and phylogeny.
- iii. Comparative Genomics.
- iv. Gene Annotation.
- v. Primer designing and optimization.
- vi. Practical knowledge on various genome analysis tools.
- vii. Practical knowledge on various proteome analysis tools
- viii *In-silico* molecular biology tools etc.,

**Level of participants:** Teachers, Scientists, Students and Research scholars preferably from Veterinary and Animal Science faculty.

**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: 14.06.2019**

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Tele Fax: 044-25360114 / 25362787  
**Mobile: 9444789267**  
**Email: [hodbitmvc@tanuvas.org.in](mailto:hodbitmvc@tanuvas.org.in)**  
**Website: [www.btismvc.ac.in](http://www.btismvc.ac.in)**  
**[www.tanuvas.ac.in](http://www.tanuvas.ac.in)**

**Registration only by Online**  
**<http://rdms.btismvc.ac.in:8080/frmhome.aspx>**

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<b>Applicant Name:</b>		<b>Applicant Name:</b>		<b>Applicant Name:</b>	
<b>Union Bank of India/ other Bank Branches within India</b>  <b>Payable at Branch Name and Address:</b>  <b>Paid into the credit of The Project Coordinator, Bioinformatics Centre &amp; ARIS Cell, Madras Veterinary College, Chennai – 600007</b> <b>SB A/C No.: 332902011000383</b> <b>IFSC Code: UBIN0557056</b> <b>Union Bank of India, MVC, Chennai-7.</b>		<b>Union Bank of India/ other Bank Branches within India</b>  <b>Payable at Branch Name and Address:</b>  <b>Paid into the credit of The Project Coordinator, Bioinformatics Centre &amp; ARIS Cell, Madras Veterinary College, Chennai – 600007</b> <b>SB A/C No.: 332902011000383</b> <b>IFSC Code: UBIN0557056</b> <b>Union Bank of India, MVC, Chennai-7.</b>		<b>Union Bank of India/ other Bank Branches within India</b>  <b>Payable at Branch Name and Address:</b>  <b>Paid into the credit of The Project Coordinator, Bioinformatics Centre &amp; ARIS Cell, Madras Veterinary College, Chennai – 600007</b> <b>SB A/C No.: 332902011000383</b> <b>IFSC Code: UBIN0557056</b> <b>Union Bank of India, MVC, Chennai-7.</b>	
<u><b>Application fee</b></u> Workshop on “Application of Bioinformatics in Animal Sciences” to be held during 17 <sup>th</sup> -21 <sup>st</sup> June 2019. <b>Application fee once paid will not be refunded.</b>		<u><b>Application fee</b></u> Workshop on “Application of Bioinformatics in Animal Sciences” to be held during 17 <sup>th</sup> -21 <sup>st</sup> June 2019. <b>Application fee once paid will not be refunded.</b>		<u><b>Application fee</b></u> Workshop on “Application of Bioinformatics in Animal Sciences” to be held during 17 <sup>th</sup> -21 <sup>st</sup> June 2019. <b>Application fee once paid will not be refunded.</b>	
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