Workshop on
GENE MINING FROM BIG DATA BIOTECHNOLOGY IN VETERINARY SCIENCE

11 – 15th September 2017

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) 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.

TANUVAS has been conferred with the prestigious “Sardar Patel Outstanding ICAR Institution Award-2011”, recognizing its outstanding performance in education, research and extension in the country in the field of agricultural sciences including Veterinary, Animal and Fisheries Sciences. TANUVAS is the FIRST VETERINARY UNIVERSITY in the country to bag this coveted award.

TANUVAS has been able to attain a unique status amongst the top 50 universities in India, bagging 36th rank at National level and 3rd rank at State level. Furthermore, TANUVAS is in 5th position in teaching, learning and resources at National level and 1st in the State. Among the 12 State Veterinary and Animal Sciences Universities in India, TNAUVAS is ranked No.1. Presently, TANUVAS is functioning with four Veterinary Colleges, one Food Science College, one Poultry Science College, seven Research stations, 20 University Training and Research Centres, three KVKs, three FTCs, eleven Research Laboratories, two Ethno-Veterinary Herbal Training and Research Centres, one Agricultural Technology Information Centre, one PG Research Institute, 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, in a small building known as Dobbin Hall. The college became affiliated with the University of Madras in 1935, and became 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 facilitates 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 July 2017) this centre has trained around 2169 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 introduce Gene mining from Big Data Biotechnology tools and methods to help teachers, lecturers and scholars in order to conduct advanced research in Genomics and Proteomics
Contents: The broad areas to be covered during various sessions include theory lectures and practical demonstrations of the five days workshop which 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. MEGA & Phylogenetic Analysis
vi. Molecular Visualization
vii. Protein Structure Prediction and analysis
viii. Data mining
ix. Gene Expression Profiling & Exome Sequencing data
x. Metagenomics data & NGS data analysis, etc.

Level of participants: Teachers, Scientists, Students and Research scholars

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

Number of participants: 25-30 [Only on first-come, first-served basis]

Registration Fee: Rs.4000/- (includes course material, Tea, snacks & Lunch)

Accommodation: Would be provided on payment basis on prior request, subject to availability.

For Registration:

Dr. P. KUMARASAMY, M.V.Sc., Ph.D.
Professor and Head & Project Coordinator
Bioinformatics Centre & ARIS Cell
Madras Veterinary College, Chennai – 600 007
Phone-Direct: 044-25360106/25360114
Phone-Board: 044-25304000 ext. 2064
Tele Fax: 044-25360114 / 25362787
Mobile: 94442 33349
Email: hodbitmvc@tanuvas.org.in
kumarasamy.p@tanuvas.ac.in
Website: www.btismvc.ac.in www.tanuvas.ac.in
To apply thro' online: http://rdms.btismvc.ac.in/frmhome.aspx
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**Applicant Name:**
Union Bank of India/ other Bank Branches within India
Payable at Branch Name and Address:
Paid into the credit of The Project Coordinator, Bioinformatics Centre & ARIS Cell, Madras Veterinary College, Chennai – 600007
SB A/C No.: 332902011000383
IFSC Code: UBIN0557056
Union Bank of India, MVC, Chennai-7.

### Application fee
Workshop on “Gene mining from Big data Biotechnology in Veterinary Science” to be held during 11-15th Sept 2017.
Application fee once paid will not be refunded.

- (a) Application Fee Rs. 4000.00
- (b) Bank charges if any
  (The bank service charge is extra to be met by the applicants)

Total

### Rupees

Name and address of the applicant

Signature of the Depositor

Sign of the Cashier

Bank Stamp with date

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