



International Workshop on
“Animal Genomics, Bioinformatics and
Systems Biology”

02nd – 05th November 2026

Organised by

Tamil Nadu Veterinary and Animal Sciences University
and
AARHUS University, Denmark
at
Bioinformatics Centre
Madras Veterinary College
Chennai – 600007, Tamil Nadu

Tamil Nadu Veterinary and Animal Sciences University (TANUVAS), established in 1989, is a premier university in India dedicated to advancing education, research, innovation and extension in veterinary, animal and food sciences. With a strong commitment to conservation and sustainable utilization of animal genetic resources, TANUVAS plays an important role in the conservation, characterization and improvement of indigenous livestock breeds and the preservation of valuable livestock biodiversity. Over the years, TANUVAS has evolved into a multidisciplinary centre of excellence, addressing critical challenges in animal health, livestock production, food security and sustainable rural livelihoods through cutting-edge research and technology-driven interventions. At present, the University is functioning with nine constituent colleges and six directorates with a total of 4359 students including undergraduate, postgraduate and postgraduate diploma courses. TANUVAS brings together expertise in animal

genetics and breeding, reproductive biotechnology, genomics, animal health, nutrition, livestock production and food technology, providing a strong platform for interdisciplinary research and innovation. The University has a strong research foundation, supported by a dedicated Directorate of Research that oversees the strategic planning and promotion of research activities. The Directorate facilitates collaborations with national and international research organizations, monitors research projects, and manages research documentation to foster a vibrant research ecosystem.

Founded in 1928, Aarhus University (Aarhus Universitet, AU) is Denmark's second oldest and second-largest public research institution. Located in Denmark's second-largest city on the Jutland peninsula, AU enrolls roughly 38,000 students and consistently ranks among the top 100 to 150 universities globally across major league tables. The university maintains a strong international presence, offering more than 50 bachelors and masters degree programs taught entirely in English, as well as English-track doctoral research. The Institute of Animal and Veterinary Sciences carries out basic, strategic and applied research in issues relating to the nutrition, health and welfare of livestock, companion animals and humans. The institute offers bachelors in animal science, veterinary medicine and three masters degree programmes. The department furthermore offers courses and possibilities for dissertation projects for students in related courses such as Biology,

Molecular Biology, Molecular Nutrition and Food Technology and Agro-Environmental Management.

The Indo-Danish collaborative project titled “Genomic Resilience of Local Cattle Breeds under Climate Changes and Artificial Reproductive Technologies (GenART)” is funded by the Danish Government under Global Innovation Network programme. The collaborators include Aarhus University, Viking Genetics and TransEmbryo of Denmark and Tamil Nadu Veterinary and Animal Sciences University, Kerala Veterinary and Animal Sciences University and National Institute of Animal Biotechnology of India. The GenART project was born through Denmark's Global Innovation Network Programme, a strategic move by the Ministry of Higher Education and Science to forge scientific alliances across 12 priority countries. India, with its vast cattle population and innovation potential, emerged as a natural partner.

The workshop is conducted at the Bioinformatics Centre, Madras Veterinary College. 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. The Centre is equipped with hardware, software, information storage capacity and in-house wet-lab to carry out genomics, microbiome and molecular biology studies.

Objectives of the Workshop

To furnish the participants with an understanding, working knowledge and skills in the following:

- Basics of Unix/Linux for bioinformatics applications

- Basic microarray and NGS technologies for Genomics, Transcriptomics, and Metagenomics studies
- NGS data processing from raw reads to alignment/assemblies to variant calling / gene counts
- Fundamentals of transcriptomic studies in Animals using RNA-Seq data
- Fundamentals of metabolomic studies in Animals using LC-MS data
- Fundamentals of metagenomic studies in Animals using 16s rRNA and WGS data

Resource persons:

The following faculty and scholars from Aarhus University, Denmark will serve as the resource persons.

1. Dr. Haja Kadermideen
Professor of Genomics, Systems Biology and Bioinformatics
2. Dr. Anna Amanda Schonherz, Associate Professor
3. Dr. Mihai Victor Curtasu, Assistant Professor
4. Dr. Pratik Pandurang Pathade, Ph.D. Scholar

Who can attend:

- Masters or PhD Research Scholars in the field of life sciences, biology, bioinformatics and veterinary courses

- Participants may also be post-doc, scientists and faculty members in the above fields
- Applicants are selected based on set criteria and limited to thirty participants

Registration Fee:

Rs.7080/- (inclusive of GST @ 18%: Rs.1080/-)

Payment of Fee through below Registration Link

Registration Link (with account details):

<https://docs.google.com/forms/d/e/1FAIpQLSeUWUQnxcAWFhEARuMEvoqxQylWQ4plbFDWaeHEWqmZfGstVg/viewform?usp=publish-editor>

Last date for Registration:

30.10.2026

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

Accommodation and Food:

Only Working Lunch will be provided. Participants have to make their own arrangement for accommodation. However, accommodation may be arranged at TANUVAS Guest House on payment basis by request.

ORGANISING COMMITTEE

Chief Patron

Dr. R. Narendrababu, Ph.D.,
Hon'ble Vice Chancellor i/c, TANUVAS

Organising Secretaries:

Dr. R. Rajendran, Ph.D.,
Director of Research, TANUVAS

Dr. Haja Kadermideen,
PI of GenART Project and Professor,
Dept. of Animal and Veterinary
Sciences, Aarhus University, Denmark

Co-organising Secretaries:

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

Dr. R. Venkataramanan, Ph.D.,
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