

About TANUVAS

Tamil Nadu Veterinary and Animal Sciences University (TANUVAS), the first Veterinary and Animal Sciences University in South Asia was established in the year 1989. As per the current Indian Council for Agricultural Research (ICAR) ranking, TANUVAS is placed 1st among the 15 State Veterinary Universities in India. 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 Science.

About Centre for Animal Health Studies

Centre for Animal Health Studies (CAHS), TANUVAS caters to the health and welfare of animals to uplift the economic status of our farmers. The Directorate monitors diagnosis / prevention / control / elimination / eradication of animal diseases in the State. CAHS, TANUVAS consists of 13 units/centers viz., Central University Laboratory (CUL), Vaccine Research Centre Viral Vaccines (VRCVV), Vaccine Research Centre Bacterial Vaccines (VRCBV), Zoonoses Research Laboratory (ZRL), Laboratory Animal Medicine (LAM) unit, Pharmacovigilance Laboratory for Animal Feed and Food Safety (PLAFFS), Translational Research Platform for Veterinary Biological (TRPVB), Bio containment Animal Disease Laboratory (TANUVAS - BCADL), Veterinary Incubation Foundation (VIF@ TANUVAS), PDDSL, EVHRCP, ADL and VUTDC.

About Laboratory Animal Medicine Unit

The Laboratory Animal Medicine (LAM) unit of TANUVAS was commissioned with the objective of breeding, maintenance and supply of quality research animals. The unit is now modernised with sophisticated instruments such as HVAC system, barrier housing and dual corridor Class 100000 clean room facility for maintaining the micro and macro environmental conditions for laboratory animals. To address the

shortage of expertise in conducting animal studies, LAM unit is offering training programs to all categories of personnel involved in laboratory animal management and research such as veterinarians, research scholars, scientists and animal care takers. TANUVAS is the only university offering the Federation of European Laboratory Animal Science Association (FELASA) accredited Certificate Course in Laboratory Animal Sciences (CCLAS), an international training program available outside the European countries. CAHS directorate has initiated the one year PG Diploma in Laboratory Animal Sciences to Veterinarians under Distance Education program since 2022-23 onwards.

Training Program

This is a Refresher Course Cum Workshop on 3Rs' Principles in Laboratory Animal Science for the benefit of the faculties, research scholars and scientists involved in laboratory animal research in various state and central universities, pharmaceutical and contract research organizations. The focus of this training is to impart knowledge on the application of 3Rs' principles, ie. Replacement, Reduction and Refinement in veterinary and bio-medical research. The venue for the workshop is LAM unit, CAHS, Madhavaram Milk Colony, TANUVAS, Chennai – 600 051.

Core Topics of the workshop

Theory

- ▲ Replacement Models – *In silico*, *in vitro* and *in vivo* replacement models
- ▲ Reduction Principles – Basic bio-statistics, Experimental design, PREPARE and ARRIVE guidelines
- ▲ Refinement Techniques –
 - Ethics and animal welfare in animal experimentation
 - Biology and Behaviour of Mice, rats, rabbits, guinea pigs and zebrafish
 - Pathogens and Parasites of Laboratory Animals – their impact on research

- Anaesthesia, Euthanasia and Necropsy of laboratory animals.
- ▲ Occupational bio-hazard and Laboratory animal zoonoses

Practicals

- ▲ Replacement Models
 - *In silico* – hands-on training in using various in silico tools related to – Docking, Pharmacodynamics, Pharmacokinetics and Toxicity of compounds.
 - *In vitro* – Cell Culture principles and methodology, Zebrafish embryo culture
 - *In vivo* – Zebrafish handling, breeding, dose administration and organ collection.
- ▲ Reduction Principles
 - Sample size calculation, statistical power analysis, experimental designing and data analysis
- ▲ Refinement Techniques
 - Handling, sexing and restraint of mice, rats, guinea pigs and rabbits
 - Various routes of formulation administration and blood collection in different species
 - Diagnosis of endo and ecto-parasites in laboratory animals
 - Anaesthesia, Euthanasia and Necropsy of rodents
- ▲ Case study presentation by the participants
- ▲ Visit to Animal House

Who can attend?

Faculties, research scholars, and scientists from Veterinary, Medical, Pharmacy, Biotechnology, Life Sciences or other related disciplines and Laboratory animal house veterinarians.

Number of Participants

Twenty (20 only - on first come first serve basis)

Travel, Accommodation and Food

Candidates will have to make their own arrangements for travel and accommodation.

However, limited accommodation can be provided at Madhavaram Campus on payment basis subject to availability. Working lunch and refreshments will be provided to all the participants on the days of workshop.

Interested candidates may ***apply in the format attached*** and the filled in format may be scanned and sent to 'lamdcahs@tanuvas.org.in'. The subject line of email should read as '***Application for LAM workshop – 10-day program***'

Training cum workshop Fee: Rs. 8500/- + Rs. 1530 (18% GST). Total Fee Rs. 10,030/- (Rupees ten thousand and thirty only). Applicants must send their application along with payment (Demand Draft for Rs. 10030/- to be taken in favour of 'Self financing scheme on Laboratory animal training').

The last date to submit the filled-in application form along with payment is 06-May-2023.

Registration fees may also be sent in favour of the following account by NEFT/online banking/Google Pay:

Name of the Bank : Union Bank of India
Branch : Madhavaram
Name of the account : Self financing scheme on Laboratory animal training;
Account number : 332902010731706
IFSC code : UBIN0533297

For further details please contact

Course Director

Dr. C. Soundararajan

Director, Centre for Animal Studies, TANUVAS.
 Mobile : 9500563853; Email : dcahs@tanuvas.org.in

Course Co-ordinators

Dr. M. R. Srinivasan

Assistant Professor, LAM
 Mobile 7401044080
 and

Dr. P. Jalantha

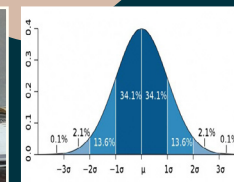
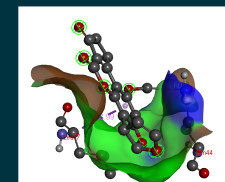
Assistant Professor, LAM
 Mobile : 9944468610

Email: lamdcahs@tanuvas.org.in

APPLICATION FORMAT

1	Name (in capital letters)	
2	Gender	
3	Address for Communication Pincode	
4	Mobile /Phone Number	
5	Email ID (in capital letters)	
6	Educational qualification(s)	
7	Position	Faculty/Postgraduate student / Doctoral student / Research Fellow / Others (Please specify)
8	Name of the pursuing degree / Current Designation	
9	Name of the Department/ Institute/College/ University/ Organization	
10	Justification for the training (explain in brief how this training will be useful to your work/ project / thesis)	
11	Payment details	Demand draft No. and date Name of bank & branch _____ for Rs. _____ only OR NEFT / Online transaction ref no. & date _____ (Name of the account: <u>Self financing scheme on Laboratory animal training</u> ; Account number: 332902010731706 IFSC code: <u>UBIN0533297</u> ; Name of the Bank: Union Bank of India, Branch: <u>Madhavaram</u>)
12	Signature of the candidate	
13	Name of the guide / HoD / Project Investigator with their designation and contact details Email: Mobile:	
14	Recommendation of the Guide / HoD / Project Investigator Signature and Official seal	

Filled in application (soft copy) should be scanned and sent to:
'lamdcahs@tanuvas.org.in'.



**TAMILNADU VETERINARY AND
 ANIMAL SCIENCES UNIVERSITY**
Laboratory Animal Medicine
 Centre for Animal Health Studies
 Chennai - 600 051

*10- Day Training cum
 Workshop on*
LABORATORY ANIMAL SCIENCE

16.05.2023 to 26.05.2023

