

**National Workshop on Research investigations
in Laboratory Small animals and Ethical
Practices**

**14th to 16th DECEMBER 2017
REGISTRATION FORM**

1. Name :
 2. Designation :
 3. Participant Category :
(Student/ Faculty/Industry person)
 4. Name of the Institution/Organization:
 5. Address for Correspondence:
 6. Telephone No:
 7. E-mail ID:
 8. Academic Qualifications:
 9. Experience (in years):
(Teaching / Research / Industry)
 10. Registration fee:
- Demand draft No: _____ Date: _____
- Declaration:**

I agree to abide by the rules and regulations of the course.

Signature: _____

BONAFIDE CERTIFICATE

Dr./Mr./Ms. _____ is a bonafide staff/student of _____. She/he is permitted to attend the "National Workshop on Research investigations in Laboratory Small animals and Ethical Practices" from 14th to 16th December 2017 at SVCE, Pennalur, Sriperumbudur Tk, Tamil Nadu - 602 117.

Date: _____ Signature
(Designation & Seal)

REGISTRATION FEE

- Students: Rs. 500/-
- Faculty : Rs. 1000/-
- Industry personnel: Rs. 2000/-

Participants are requested to register with DD in favor of "The Principal, SVCE" payable at **Indian Bank, Sriperumbudur**. Individuals are requested to register on or before 1st December 2017. Filled in registration forms along with the bonafide certificate should be emailed to rilsaep2017@svce.ac.in or send by post to the below mailing address on or before 1st December 2017. The number of participants for the workshop is limited to 40. Therefore, advance registration is highly recommended.

MAILING ADDRESS

Dr. S. Prabhu
Associate Professor
Scientist In-charge of Animal House Facility,
Department of Biotechnology
Sri Venkateswara College of Engineering
Pennalur, Sriperumbudur Tk- 602 117
Ph: 044 – 27152000 Ext: 576 & 582
Mob: 9840180535/9840710766
Fax.No: 044- 27162462, 27162494
Email: rilsaep2017@svce.ac.in

**SRI VENKATESWARA
COLLEGE OF ENGINEERING**



An Autonomous Institution
Affiliated to Anna University, Chennai
An ISO 9001: 2008 Certified Institution
Accredited by NBA, New Delhi

**National Workshop on Research
investigations in Laboratory Small animals
and Ethical Practices**

14th to 16th December 2017

Conveners

Prof. M. Sivanandham
Prof. E. Nakkeeran

Organizing Secretary

Dr. S. Prabhu

Coordinators

Mr. J. Hariharan
Mr. D. Suresh Kumar
Ms. N. Kanagam

Organized by

Department of Biotechnology
Sri Venkateswara College of Engineering
Pennalur, Sriperumbudur Tk-602117,
Tamil Nadu, India
<http://www.svce.ac.in>

ABOUT THE INSTITUTION

Sri Venkateswara College of Engineering (SVCE), one of the premier technical Autonomous institution in Tamilnadu, was established in 1985. The College is situated on the Chennai – Bengaluru National Highway (NH4) about 37 km south-west of Chennai. The college offers 10 UG programmes and 10 PG programmes. The National Board of Accreditation accredited many of the eligible programmes, and SVCE is an ISO 9001:2008 certified institution.

DEPARTMENT OF BIOTECHNOLOGY

Sri Venkateswara College of Engineering noted the recent growth in Modern Industrial Biotechnology. In order to support the growth in biotechnology, SVCE started the Department of Biotechnology in 2005 under the guidance of our Chairman Dr. A.C. Muthiah, a well-known Industrialist who understands the strength of Industrial Biotechnology. The Department offers B.Tech and M.Tech Biotechnology programme under Anna University, Chennai, approved by AICTE. It is also approved as a Research Center in Biotechnology for MS (by Research) and Ph.D. programmes by Anna University, Chennai. The Department has well established laboratory facilities namely Genetic engineering, Bioprocess Engineering, Research Lab, Immunology Lab, Biochemistry Lab, Microbiology Lab and Plant Tissue culture Lab.

ANIMAL HOUSE FACILITY

Our institution animal house facility is well established and registered under CPCSEA- New

Delhi and it is recognized under Research Education purpose on Small animals. The CPCSEA- New Delhi approval number is 1398/PO/Re/S/10/CPCSEA for Research Education. Similarly, the Institutional Animal Ethical Committee (IAEC) of SVCE is periodically monitoring the functions of animal house facility.

PROGRAMME OBJECTIVES

Animal research has a vital role in many scientific and medical advances of the past century and continues to aid our understanding of various diseases. Throughout the world, people enjoy a better quality of life because of these advances, and the subsequent development of new medicines and treatments all made possible by animal research. Animal experimentation, animal research and *in vivo* testing are always carried out in the natural environments. Experimental research with animals is usually conducted in Universities, Medical institutions, Research industries, Pharmaceutical companies and Defence establishments. Many of them focus on answering some questions on hypothetical research and finding a cure for many degenerative diseases like cancer, myocardial infarction, atherosclerosis, diabetic and alzheimer disease. However, the knowledge on experimentation involving small animals by the students and research scholars on these issues is limited. Therefore, keeping in view of the educational and research need, this

workshop is focused to impart ethical knowledge in the field of research on laboratory small animals such as mice, rat and rabbits through series of hands-on-sessions. Through this workshop, the participants will be able to handle small animals and do small animal experiments on ethical base and interact with the experts in the related field.

WORKSHOP CONTENT

Major areas of Workshop include:

1. Ethics, Selection and Handling of Laboratory small animals
2. Maintenance of Mice, Rat and Rabbit in the Animal House
3. Routes of Immunization in small animals for raising the antisera
4. Ethical procedure for collection of polyclonal antibodies
5. Isolation of mesenchymal stem cells from bone marrow of Mice

VENUE AND DURATION

This Three days Workshop is organized at Sri Venkateswara College of Engineering, Sriperumbudur, Tamil Nadu, India, from 14th to 16th December 2017.

TRANSPORTATION FACILITY

The participants can avail the SVCE bus facility from and to the city to attend this workshop. Refer www.svce.ac.in for bus route details.

ACCOMMODATION

Participants are requested to make their own arrangements in nearby hotels of Sriperumbudur or Poonamallee if necessary accommodation facility is not available in the college-hostel.

Activity Report/Abstract/Summary Report

National Workshop on Research Investigations in Laboratory Small animals and Ethical Practices conducted from 14th to 16th December 2017

The Department of Biotechnology, Sri Venkateswara College of Engineering (SVCE), Pennalur, Sriperumbudur- Tamilnadu- 602117 conducted the 'National Workshop on Research Investigations in Laboratory Small animals and Ethical Practices' sponsored by CSIR, GOI and ICMR- New Delhi from 14th to 16th December, 2017. Nearly 80 external Participants from various colleges of Tamil Nadu and other states of India registered for the workshop with great enthusiasm. On first day of the event (14/12/2017) the workshop was started with a prayer song followed by welcome address by Head of the Department of Biotechnology, Dr. E. Nakkeeran. The programme was further preceded by Prof. Dr. S. Ganesh Vaidyanathan, Principal, and Sri Venkateswara College of Engineering. Then the Chief Guest Prof. M. Sivanandham, Secretary, Sri Venkateswara College of Engineering and Educational Trust, Chennai, delivered an Inaugural Address. In their speech they narrated on the importance of research investigation in small animals and ethical basis to be followed for such experiments. Then they thanked the two funding agencies namely CSIR & ICMR- New Delhi for their grant support as sponsorship to conduct this event for the development of young researchers, and faculty members for the benefit of society.

Two technical talks were given by guest speakers Viz., Dr. K. Sadasivan Pillai, Deputy Managing Director, Frontier Lifeline on "Ethics in Laboratory Small Animal Experiments" and Dr. A. Yasotha, Assistant Professor, Department of Livestock, Production and Management, Madras Veterinary College on Maintenance of Laboratory small animals in animal house. Two parallel Hands on Sessions on handling of mice, rats & rabbits were conducted by animal handling expert internal faculty members and research scholar namely Dr. S. Prabhu, Associate Professor, Mr. J. Hariharan, Assistant Professor and Ms. S. Sivagami, Research Scholar of Department of Biotechnology, SVCE.

On the Second day of the event, 15th December, 2017 the programme was started with two technical talks, one by Dr. S.A. Asokan, Director (Retired), Directorate of Distance Education, Madras Veterinary College, TANUVAS on Role of Hormones in Animal Reproduction and another talk by Dr. T. Sarath, Assistant Professor, Department of Animal Reproduction, Gynecology and Obstetrics, Madras Veterinary College, Vepery on production of antiserum from small animals. During the afternoon session of the day, the hands on session were given for the participants on Routes of Immunization in Mice and Rabbits by expert faculty members and research scholar on small animal studies namely, Professor Dr. R. B. Narayanan,



Guest lecture delivered by Dr. S. A.Asokan, Director, Directorate of Technical Education, Madras Veterinary College, Chennai.

Mr. J. Hariharan, Assistant Professor and Ms. S. Sivagami, Research Scholar of Department of Biotechnology, SVCE.

On 16th December, 2017, the final day of the workshop, the day was started with a technical talk by Dr. Rita Banerjee, Scientist G, and Consultant & Coordinator (LS), SERB, DST- New Delhi, Govt. of India on emerging importance of biomedical research. Then the second talk was given by Prof. P. Kumaraswamy, Head of the Department, Department of Bio-informatics & ARIS Cell, Madras Veterinary College on Isolation and Culturing of Stem cells from Bone marrow of mice. During afternoon session of the day, the Hands on Sessions were conducted by faculty members Mr. J. Hariharan & Ms. N. Kanagam, Assistant Professors, Department of Biotechnology and Research Scholars, Ms. S. Sivagami, & Ms. Yogalakshmi M, Department of Biotechnology, SVCE on Isolation of Mesenchymal Stem Cells from Bone Marrow of Mice and Culturing and Preservation of Isolated Bone marrow Stem Cells. At the end of the day, the valedictory Function was started with introduction of Chief guest by Dr.S. Prabhu the Organizing Secretary of the event. The Chief Guest, Prof. P. Kumaraswamy, Department of Bio-informatics & ARIS Cell, Madras Veterinary College encouraged and motivated the students to involve in biomedical research and small animals studies and also gave a Technical Talk on Isolation and Culturing of Stem cells from Bone marrow of mice.

Feed -back on outcome of workshop was received from the participants both orally and through procedure form and requested their recommendations and plan of action for future studies. Ninety percentages (90%) of the participants from other institutions congratulated the workshop organizing team members for proper organization of three day workshop and they briefed that they learned how to handle the laboratory small animals, Stem cells collection from small animals and Vaccine production through immunization process. The participants told that they learned the small animal techniques with in the nominal registration fee with the provision of hands on training through standard laboratory manual procedure. They appreciated the effort of workshop team members to make the participants to know the animal ethical rules and regulations while using the laboratory small animals for biomedical experimentation procedure. Finally the certificate was distributed to the participants by the Chief Guest followed by Vote of Thanks by Dr. S. Prabhu, the organizing secretary of the workshop. He thanked the two National funding agencies namely CSIR & ICMR- New Delhi for their grant support as sponsorship to conduct this workshop a grand success. Finally the programme was ended with National Anthem song.



Prof. E. NAKKERRAN, M. Tech, Ph.D.
Professor & Head
Department of Biotechnology
Sri Venkateswara College of Engineering
Sripurambudur T:- 602 117, Tamil Nadu, INDIA