

## **VFSTR ANIMAL HOUSE FACILITY**

Vignan's Foundation for Science, Technology and Research (VFSTR) has established a well-equipped animal house facility with the vision to support the research and training on animals. The facility was approved by Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA), Ministry of Fisheries, Animal Husbandry and Dairying, Government of India, based on the inspection carried out by the CPCSEA Nominee on 11<sup>th</sup> November, 2018. The facility was inaugurated by the Honourable Chairman of VFSTR, Dr. Lavu Rathaiah on 16.12.2018. The types of animals housed are rats, mice, rabbits and chicken. Optimized housing conditions based on the CPCSEA guidelines are being maintained, such as, Temperature – 25 oC (maintained with air conditioners), Humidity – 60%, Pest control management, Fluorescent lighting, Power backup, Noise free environment, Separate experimental area and wash room and Separate storage area. The facility includes the equipment like autoclave, hot plate, incinerator and stereomicroscope. The animals are being taken care by a fully dedicated animal care taker. Research projects in the areas of Nutritional supplementation, Polyclonal antibody production, Maneuvering of Rejection of allograft, Isolation of T and B cells, Wound healing, Epigenetic modulation of gene expression, Diagnostic kits using raised IgY antibodies and Evaluation of immune potential of herbal extracts. The ongoing projects are:

1. A Mechanistic Approach for development of Multi-Class/Multi-Antigen Subunit Vaccine(s) and Assessment of Immunobiologic Response to Combat S.aureus Infections
2. Evaluation of anti-Outer membrane protein IgY of Shigella species
3. Construction and studies on vaccine potential of chimeric protein molecules comprising immunodominant regions of outer membrane proteins of enterobacteriaceae for application as broad spectrum vaccine against Salmonella, Shigella, E. coli and Proteus.
4. Studies to unfold the immunomodulatory attributes of Thymus vulgaris using Balb/c mouse model system
5. Evaluation of acute oral toxicity, acute dermal toxicity, in vivo antioxidant, anti-diabetic and diabetic wound healing properties of polyherbal formulation
6. Studies on Anti-inflammatory activity of Tinospora cordifolia on Carrageenan or LPS induced-inflammation in Sprague Dawley rat model



## CODE OF ETHICS FOR ANIMAL HOUSE

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1. We all know that in many research protocols there is simply no alternative to the use of live animals. To develop the research from the available non-animal or *in vitro* models to clear justification in the biology (Drug discovery and physiology of Human system), someone need to work on the animals.
2. All the experiments and protocols performed in the animal house should be performed under the high supervision of an individual who is having adequate training and relevant experience in animal handling.
3. The use of the animals in the biological research should always enhance the human and animal health for a good society.
4. Animal selection for a particular experiment is the major consideration. The supervisor who is working should maintain the animal selection and experiment protocols in that particular project.
5. All the animals, which were procured for the experimental research, are lawfully acquired. The animals utilized in the experiment should be minimized as much as. The investigator has to take whole responsibility to avoid pain, stress and discomfort to the animal.
6. If a procedure will cause more than momentary slight pain or distress to the animal, the pain must be minimized both in intensity and duration through the administration of

appropriate anesthetics, analgesics, and tranquilizers consistent with acceptable standards of veterinary medicine.

7. The appropriate anesthetic conditions are provided when painful experiments are conducting on the animals.
8. Multiple survival surgeries should not be done on the animal and most of the times the survival surgeries should be avoided until it was highly recommended.
9. It is the responsibility of the investigator to ensure that adequate post-surgical/procedural care is provided to all animals. This care must meet acceptable standards of veterinary medicine and be provided as long as necessary, including during non-duty hours.

**Note:** All the experimental work and maintenance of the animals in the animal house should strictly follow the Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA), Ministry of Fisheries, Animal Husbandry and Dairying, Government of India,

S. No.	Name of the Equipments	Make	Unit Cost (Rs.)	Quantity (Nos)
1	Electrically Heated Incinerator	Technico (HSN No: 85141000)	2,40,975.00	01
2	Trinocular Stereozoom Stereo Microscope	Optica SZM-LED2	1,34,820.00	01
3	Refrigerator	Whirlpool (HSN No: 8418)	18,200.00	01
3	Autoclave	Technico (HSN No: 84198930)	50,200.00	01
4	Hotplate	Technico (HSN No: 84198190)	8,075.00	01
5	Thermo- Electric Dehumidifier	BBH (HSN No: 8509)	14,598.00	02
Total Cost Rs.			4,66,868.00	

# Inaugural Function

# VFSTR ANIMAL HOUSE

