

## ANIMAL HOUSE

**Group Leader :** Dr. Sangita Rastogi, Scientist 'E'

**Technical staff:** Mr. Kuldeep Kumar Sharma, Technician 'C', Mr. Madan Lal, Technician 'C', Mr. Bala Dutt, Attendant 'B'

The Animal House (**CPCSEA Registration No. 102-1999**) at Institute of Pathology serves as a Facility for holding small animals. In accordance with the **Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA)** guidelines, the least number of small animals that are necessary to maintain the stock in addition to the actual number of small animals used for experimentation are maintained in the Animal House Division. The Animal House thus serves as a holding facility to service the requirements of small animal-based research by catering to the research projects of the Institute's scientists. Before undertaking experimental research work, prior permission and due clearance from the **Institutional Animal Ethical Committee (IAEC)** of IOP is mandatory. In the preceding years, small animals such as mice, rats, hamsters, guinea pigs, rabbits, etc. have been successfully housed for experimentation in the Animal House for limited periods in various research projects.

### **Small animal experimentation: Research projects completed**

- Experimental model of Indian Childhood Cirrhosis (ICC).
- Development of an experimental model of *Chlamydia trachomatis* induced salpingitis in mice.
- Development of diagnostic assay for *Chlamydia trachomatis* serovar specific monoclonal antibody.
- Isolation of true amastigotes from the spleen of infected hamsters/ Balb/c mice to study expression of genes involved in virulence/ growth of *Leishmania donovani* identified by microarray.
- Generation of antibodies against *Leishmania* specific recombinant proteins in rabbits.
- Infection studies in hamsters/ Balb/c mice to identify virulent and avirulent parasites of *Leishmania donovani*.
- Quantitation of parasite load in hamster/ Balb/c mice by Real time PCR for application in drug/ vaccine studies.
- Evaluation of a guinea pig model of vitiligo for therapeutic assessment of treatment modalities.

- Anti-cancer activity of melatonin using an experimental B16 murine melanoma model in C57BL6 mice.

### **Infrastructure: Equipments**

- Laminar Flow Hood, Autoclave, Incubator, Air Shower.
- Subsequent to renovation, several new equipments are envisaged for the Animal House Facility at IOP. Prominent among these will be the acquisition of Individually Ventilated Cage (IVC) units and double-door autoclave.

### **Institutional Animal Ethics Committee (IAEC):**

#### **IOP Members**

- |   |                         |
|---|-------------------------|
| ❖ Dr. Sangita Rastogi, Scientist 'E'      | <b>Member Secretary</b> |
| ❖ Dr. Poonam Salotra, Scientist 'E'       | <b>Chairman</b>         |
| ❖ Dr. Usha Agrawal, Scientist 'D'         | <b>Member</b>           |
| ❖ Dr. Laxman Kumar Yerneni, Scientist 'D' | <b>Member</b>           |

#### **External Members**

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|--|--------------------------------|
| ❖ Dr. Harmeet Singh Rehan<br>Professor & Head, Department of Pharmacology,<br>LHMC             | <b>Scientist Member</b>        |
| ❖ Dr. BB Batra   | <b>Social Scientist Member</b> |
| ❖ Dr. P.K. Yadav, Sr. Veterinary Officer,<br>Experimental Animal Facility,<br>AIIMS, New Delhi | <b>Veterinary consultant</b>   |
| ❖ Dr. DN Rao, Professor,<br>Department of Biochemistry,<br>AIIMS                               | <b>Main CPCSEA Nominee</b>     |
| ❖ Dr. Smriti Rekha Dutta   | <b>Link CPCSEA Nominee</b>     |

