



NATIONAL BRAIN RESEARCH CENTRE

Near "NSG" Campus, Nainwal Mode, Manesar - 122 050, Haryana

Duration of workshop: 4 days Maximum Seats: 30

Course Structure

1. Major topics and discussions (Morning session)

- Introduction to laboratory animals and its environment
- Nutrition of laboratory animals & diseases and pathology.
- Laboratory animal welfare and ethics
- Preparation of an experimental protocol and the critical analysis of a scientific paper with animal experiment
- Introduction to practical and experimental techniques
- Statistics and methodology
- Administrative requirements and quality assurance during the conduct of animal studies
- Ethics committee-The Indian system
- Ethical evaluation of research protocols
- Perioperative care, anesthesia, surgical techniques and analgesia
- Humane end points in animal experiments and euthanasia

2. Practical sessions and demonstrations: (Afternoon session)

- Handling and restraining of laboratory animals, namely mice, rats, rabbits.
- Different modes of administration of substances, namely oral gavage, i.v., i.p., s.c., i.p., i.m.
- Collection of body fluids (tail vein, cardiac puncture, etc) and organs.
- Pain anesthesia and peri-operative care.



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3. Group tasks

- **Preparation and presentation of an experimental protocol.**

Criteria for awarding the Certificate of Competence or Certificate of Participation

- 1. Attendance compulsory on all four days.**
 - 2. Group tasks (weightage: 40% marks of total)**
 - 3. Written examination at the end of the course (weightage: 60% marks of total)**
- **Those who obtain 70% marks and above will be awarded with a 'Certificate of Competence'.**
 - **Others will be awarded a 'Certificate of Participation' for attending the workshop.**