Advantages and Benefits:

☑ Covers entire curriculum of experimental pharmacology and experimental physiology

☑ Customized reports to assess usage of the product

☑ Examination portal with features to create exam paper and assess students

☑ Interactive experiments

☑ Each experiment contains animations, videos and illustrations.

☑ Multiple drugs and potency available for study in all experiments

☑ Self-paced learning by students.

☑ Repetitive practice by students.

☑ Easy to use platform.

☑ Reduces cost by lower maintenance costs for animal laboratories.
# Experiments in Pharmacology

- Effects of drugs on rabbit eye
- Bioassay of histamine on the ileum of guinea pig
- Effect of drugs on ciliary motility of frog oesophagus
- Effect of drugs on isolated frog heart
- Effect of drugs on blood pressure (BP) and heart rate (HR) of dog
- **Basic Techniques in Experimental Pharmacology**
  - Care and Handling of the Experimental Animals
  - Routes of Drug Administration
  - Theoretical Details on the Process of Euthanasia
- **Experiments on Isolated Tissues**
  - Isolated Frog Heart
  - Dose Response Curves
  - DRC of Acetylcholine on Frog Rectus Abdominis Muscle
  - DRC of Histamine on Guinea Pig Ileum
  - Effects of Physostigmine on the DRC of Acetylcholine on frog rectus abdominis muscle
  - Effect of Atropine on the DRC of the Acetylcholine on Rat ileum
  - Effects of spasmogens and spasmolytics on the rabbit jejunum
- **Determinations of PD2 and Pa2**
  - Determination of PD2 of Serotonin on Rat stomach strip preparation
  - Determination of PA2 of Atropine on rat ileum (by determining the percent inhibition of response of the agonist)
  - Determination of PA2 of prazosin on rat anococcygeous muscle preparation (by Schield’s plot method)
  - Determination of PD2 of Acetylcholine on frog rectus abdominis
  - Determination of PD2 of Histamine on guinea pig ileum.
- **Bioassays**
  - Bioassay of Oxytocin on Rat Uterine Horn by Interpolation Method
  - Bioassay of Serotonin on Rat Stomach Strip by Three Point Assay Method
  - Bioassay of Atropine on Rat ileum by Interpolation Method
  - Bioassay of Acetylcholine on Rat Ileum by Four Point Assay Method
  - Bioassay of Adrenaline on rabbit jejenum by Interpolation method
- **Experiments on Whole Animals**
  - Effect of Drugs on Locomotor Activity in Mice using Actophotometer
  - Analgesic Effect of Drugs using Hot plate method
  - Anticonvulsant Effect of Drugs using Electro-convulsiometer
  - Screening of Skeletal Muscle Relaxant Effect using Rota-Rod Apparatus

# Experiments in Physiology

- Instruments used in Amphibian experiments
- Preparation of nerve muscle
- Simple Muscle Twitch
- Effect of temp on SMT
- Effect of two successive stimuli on SMT
- Effect of Inc Strength of stimuli on SMT
- Genesis of Tetanus
- Effect of load on SMT
- Phenomenon of fatigue
- Velocity of Nerve Conduction
- Frog Heart Dissecton
- Normal cardigram
- Effect of temp on cardiogram
- Properties of Cardiac Muscle in beating heart 1
- Properties of Cardiac Muscle in beating heart 2
- Simple Muscle Twitch
- Various Strength of Stimulus
- Effect of temp on smt
- Effect of two successive stimuli on Single Muscle Twitch
- Effect of Multiple successive stimuli Treppe Clonus and Tetanus
- Study of fatigue in Skeletal Muscle
- Velocity of Nerve impulse
- Effect of load on muscle
- Measure Isometric contractions in GS preparation
In a significant move, the Medical Council of India (MCI) has decided to end the use of animal experiments for undergraduate medical students and has asked the colleges to opt for alternatives to animal experimentation.

After having discussed the matter, experts in the animal alternate committee for UG curriculum decided that in future animal experiments would be replaced with computer-assisted learning exercises and clinical relevant modules. “It has been decided that animals will no longer be used for experiments. There are colleges which make use of animals for demonstration to undergraduate students. We have intimated the colleges to end the use of animals in their experiments,” said Dr Y.K. Gupta, chairman of the animal alternate committee for the undergraduate curriculum. In medical colleges to teach about human anatomy, colleges use human cadaver, guinea pigs and frogs too for experiments. The MCI decided to crack the whip after anti-vivisectionists and rights group expressed and urged for total replacement in animal experimentation. Even the People for the Ethical Treatment of Animals last year asked to re-evaluate and amend regulations allowing medical colleges to end the use of animals in their curricula and opt for cutting-edge, non-animal research methodologies. Citing that numerous recent studies have shown that animal experiments often waste lives — both animal and human — and precious resources by trying to infect animals with diseases that they would never normally contract, Peta had written to MCI.

Significantly, majority of medical schools in the US, Canada and the UK have ended the use of animals in their curricula, as prominent medical associations now encourage medical schools to replace the use of animals with non-animal teaching methods.

“The experiments can be replaced with computer-based techniques. Colleges will have to opt for clinical relevant modules,” added Dr Gupta.

To know more visit: [http://www.mciindia.org/meetings/BOG/2013/May/Minutes_BOG_07.5.2013.pdf](http://www.mciindia.org/meetings/BOG/2013/May/Minutes_BOG_07.5.2013.pdf)

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