

E-learning





JNTUH COLLEGE CODE:U2

EAMCET CODE: SDIP

SREE DATTHA INSTITUTE OF PHARMACY

(Approved by AICTE & PCI, New Delhi, Affiliated to JNTUH, Hyderabad, T.S)
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Email: principalsdip@sreedattha.ac.in,www.sreedattha.ac.in

11.E-Learning(PharmacologyVirtualLab)ListofExperiment

01. Experiment on effect of various drugs (Mydriatic, Miotic and Local Anaesthetic) on rabbit's eye.
 - Epinephrine
 - Atropine
 - Ephedrine
 - Physostigmine
 - Lignocaine
02. Study of Analgesic activity with the help of "Tail Flick Apparatus" (Analgesiometer).
03. Study of Analgesic activity with the help of "Hot Plate Apparatus" (Analgesiometer).
04. To study analgesic activity by writhing test.
05. Study of Antihistaminic drugs/Antiallergic drugs by mast cell stabilization method with help of "Histamine Chamber".
06. Study of Muscle Relaxant activity with the help of "Rota-Rod Apparatus".
07. Study of CNS Depressants & Stimulants Using "Actophotometer".
08. Study of Drugs acting on CNS (Including Anxiolytic Activity) using following modules
 - Elevated Plus Maze Method
 - Pole Climbing Method
09. Study of anticonvulsant activity using "Electro Convulsimeter".
10. To study PTZ induced convulsions in mice
11. Study of effect of hepatic microsomal enzyme inducers on the phenobarbitone sleeping time in mice.
12. To study the action of strychnine/anaesthetic on frog neurons (excitability).
13. Test for pyrogen using rabbits.
14. Study of stereotypic and anti-catatonic activity of drugs on mice.
15. Effect of drug on isolated guinea pig ileum (in-vitro).
16. Experiments on thyroid and anti-thyroid drugs
 - The effect of thyroxine, TSH, propylthiouracil, on metabolism.
17. Experiments on blood sugar
 - The effect of insulin (hypoglycemic activity) and alloxan on blood glucose.
18. Study of anti-inflammatory activity using carrageenan induced paw oedema method
19. Study of diuretic activity using metabolic cage



20. Experiment on Effect of various drugs on Isolated Frog's Heart. (DRC-Dose Response Curve)

- Epinephrine
- Norepinephrine
- Isoprenaline
- Calcium Chloride
- Propranolol
- Acetylcholine
- Potassium chloride
- Atropine sulphate

21. Experiments on effect of different drugs on dog BP & heart rate. I. Virtual Practice- Effects of drugs on the dog BP and Heart Rate.

II. Effects of Vasopressor and Vasodepressor with appropriate blockers.

- a) Virtual Practice- Reversal action of adrenaline on blood pressure and heart rate.
- b) Virtual Practice- Reversal action of acetylcholine on blood pressure and heart rate.

22. Experiment on Bioassay of Histamine on the Ileum of Guinea Pig.

23. Bioassay of Acetylcholine on the isolated rectus abdominis muscle of frog

- (a) By Matching Method,
- (b) By Interpolation Method,
- (c) By 3 Point Method,
- (d) By 4 Point Method.

24. Bioassay of oxytocin on the isolated rat uterine horn by following methods

- (a) By Matching Method,
- (b) By Interpolation Method,
- (c) By 3 Point Method,
- (d) By 4 Point Method.



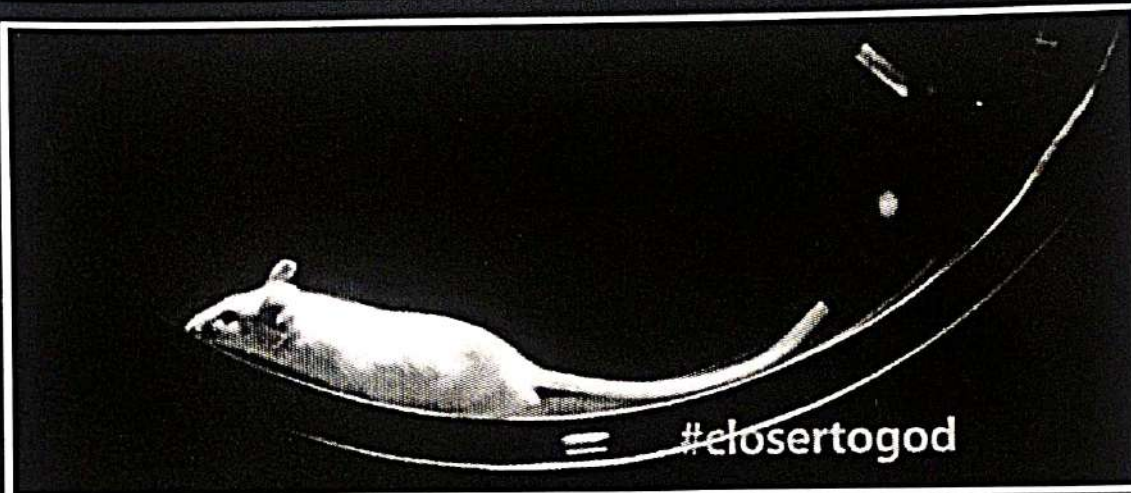
Virtual Lab

Ex-Pharm Series Software

sdioip

password

Log In



System Requirements

Operating System - Windows 7 or above
Preferable Browser - Mozilla Firefox
Location Access

If you have any problem in running the software then e-mail us your network's static IP address or service.net@gmail.com or call us at +91-978647563.

Go to



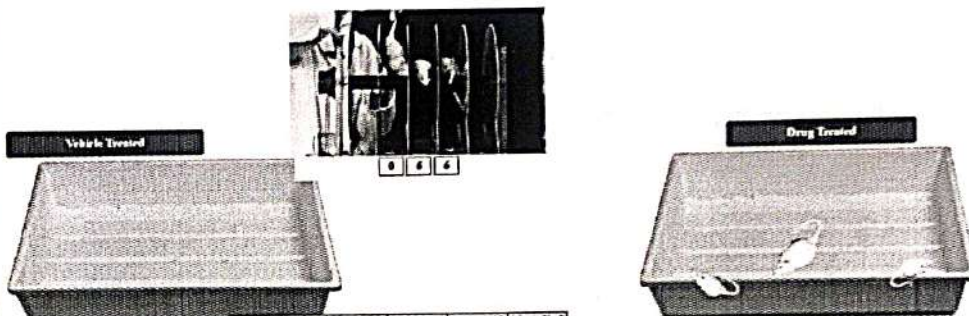


Experimental Pharmacology Series		
*	Study of muscle relaxant activity with the help of "Rota-Rod Apparatus"	
*	Study of cns depressants & stimulants using "actophotometer".	
*	Study of analgesic activity with the help of "hot plate apparatus".	
*	Study of drugs acting on cns using "elevated plus maze".	
*	Study of anticonvulsant activity using "electro convulsimeter".	
*	Effect of different drugs on frog's heart	
*	Experiment on bioassay of histamine on the ileum of guinea pig	
*	Effects of drugs in isolated guinea pig ileum (in vitro)	
*	Bioassay of Acetylcholine on the isolated rectus abdominis muscle of frog (by matching, interpolation, 3 point, 4 point method)	
*	Study of anti-inflammatory activity using carrageenan induced paw oedema method	
*	Evaluation of Sedative Drugs Using Cook's Pole climbing Apparatus.	
EXAM MODE		



EFFECT OF CNS DEPRESSANT AND SKELETAL MUSCLE RELAXANT DRUG ON MICE USING ROTAROD APPARATUS

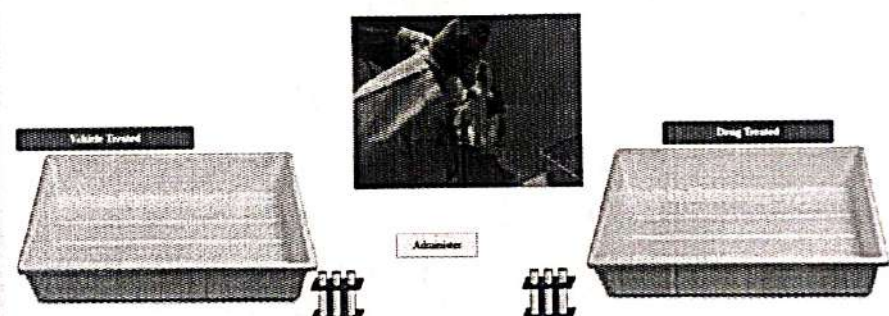
Introduction Experiment Observation



Group Selected	Reading	Mouse No.1	Mouse No.2	Mouse No.3
Vehicle Treated	Fall off time(Sec)			
	Free Rotations			

Effect of drug on Locomotor Activity of Mice using Actophotometer

Introduction Experiment Observation



Administer

Vehicle

Dosepoint (100 Kg)

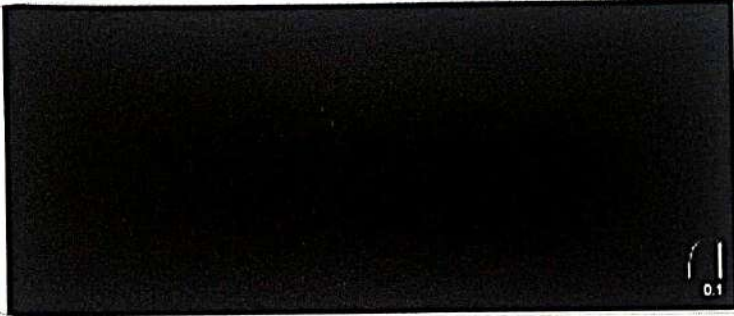


Directions

You are given a Histamine solution of unknown concentration. Find out the concentration of Histamine using a guinea-pig ileum preparation. Obtain a Dose-Response curve and carry out matching assay.

Instruction

Choose a dose and Inject




Dose Selection (Histamin Known)

0.1 ug

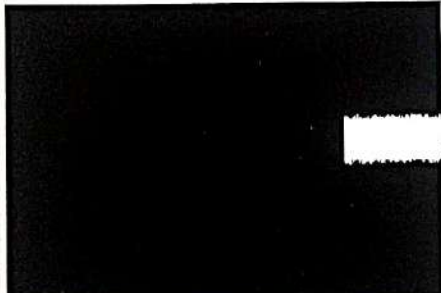
Inject

Match Assay

Quit **Return** **New**

Effects of Drugs on the Frog Heart

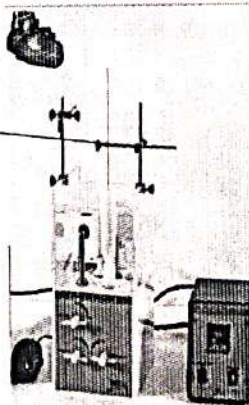
[Back](#)



Directions: Inject drug one by one and observe their effect on the frog heart.

Stop **Start**

Setup



Current Drug Level

None

Previous drug injected: No Drug

Drug selection

Drug: --Select Drug--

Dose: 0 ug

Inject drug **Wash Out**

Before injecting new drug please click on wash out button

Instructions

Choose a Drug and Inject

Quit **Return** **Table** **New**



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Mail : support@heb-nic.in, serviceheb@gmail.com

Website : www.heb-nic.in



Date: 10/06/2024

Ref. No: EP-R/4251/01/25/05

To,

Sree Dattha Institute of Pharmacy,
Nagarjuna Sagar Road, Sheriguda, Ibrahimpatnam,
R R Dist, Telangana-501510.

Subject: Confirmation of subscription

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Enclosed:

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- ❖ User Manual





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Sree Dattha Institute of Pharmacy, Nagarjuna Sagar Road, Sheriguda, Ibrahmpatnam, R R Dist, Telangana-501510.				FORM:	PRODUCT CODE:	SUB PRODUCT CODE:	BOOKING EXECUTIVE CODE:
				A	HP-JEN	ONLINE	MHMAK
CLIENT LOCATION: Ibrahmpatnam							
SR. NO.	DESCRIPTION	SUBSCRIPTION		AMOUNT IN RUPEES (INCLUSIVE ALL TAXES)	NET PRICE	REMARKS	CATEGOR.
		FROM	TO				
1.	Ex Pharm Soft. Modules (Neo Pack)	Jun-24	May-25	4,897 ₹	4,897 ₹	-	INSTITUTION
AMOUNT IN WORDS: Four Thousand Eight Hundred Ninety Seven Rupees Only							

PAYMENT RECEIVED					BALANCE TO COLLECT				
MODE	AMOUNT	TRANS. NO.	DATE	BANK	MODE	AMOUNT	TRANS. NO.	DATE	BANK
D.D./CHEQUE					D.D./CHEQUE				
NEFT/RTGS					NEFT/RTGS				
ANY OTHER	4,897 ₹	-	-	-	ANY OTHER				
PAYMENT RECEIVED: Four Thousand Eight Hundred Ninety Seven Rupees Only					BALANCE TO COLLECT:				

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DATE: 10/06/2024

Account details for NEFT/RTGS

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Name of the Bank: UCO Bank
Account Number: 20960210003121
IFSC code: UCBA0002096
MICR Code: 302028023
Bank Branch Name & Code: Mansarovar, Jaipur Branch. Code: 002096
District & State: Jaipur, Rajasthan

