

**MODULATION OF ENDOCANNABINOID INDUCED  
EFFECTS ON ANXIETY AND COMPULSIVE  
BEHAVIOR BY CAFFEINE IN MICE**

**A**

**Thesis**

**Submitted for Partial Fulfilment of the Requirement for the Award of Degree of  
Master of Pharmacy**

**(Pharmacology)**



**2021-2022**

**SUPERVISED BY**

**Dr. Nishant S. Jain  
(M.Pharm., Ph. D)  
Asst. Prof. (Pharmacology)**

**SUBMITTED BY**

**Ms. Km Neha Sharma  
Roll No. :20705006  
Enroll.No.:GGV/20/06319**

**DEPARTMENT OF PHARMACY  
GURU GHASIDAS VISHWAVIDYALAYA  
(A CENTRAL UNIVERSITY)  
BILASPUR (C.G.)**



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**DEPARTMENT OF PHARMACY**  
**GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)**  
(A Central University, Established Under the Central University, Ordinance, No 3, of 2009)  
Tel: +91-7752-260027 (O); +91-8827989653 (Mob); Fax: +91-7752-260148

## **FORWARDING CERTIFICATE**

This is to certify that *Ms. Km Neha Sharma D/o. Mr. Dilip Kumar*, student of M.Pharm (Final Semester) in Institute of Pharmaceutical Sciences has submitted her thesis entitled "*Modulation of Endocannabinoid Induced Effects on Anxiety and Compulsive Behavior by Caffeine in Mice*" for the partial fulfilment of the requirement of Master of Pharmacy in Pharmacology with her truly and honestly observed inference during her project work. She has completed her project work under the supervision of *Dr. Nishant S. Jain* (Assistant Professor, Pharmacology). Her work is original, satisfactory and is not submitted anywhere else for the award of any degree.

I hereby forward her thesis for the award of M. Pharmacy (Pharmacology) during the academic session 2021-22.

Forwarded by

  
*Dr. Bharti Ahirwar*

(H.O.D)  
Head

Department of Pharmacy  
Guru Ghasidas Vishwavidyalaya  
(A Central University)  
Bilaspur (C.G.)



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*This is to certify that Ms. Km Neha Sharma D/o. Mr. Dilip Kumar, student of M.Pharm (Final Semester) in Institute of Pharmaceutical Sciences has submitted her thesis entitled "Modulation of Endocannabinoid Induced Effects on Anxiety and Compulsive Behavior by Caffeine in Mice" for the partial fulfilment of the requirement of Master of Pharmacy in Pharmacology with her truly and honesty observed inference during her project work. She has completed her project work under my supervision. Her work is original, satisfactory and is not submitted anywhere else for the award of any degree.*

*I hereby forward her thesis for the award of M. Pharmacy (Pharmacology) during the academic session 2021-22.*

  
**Dr. Nishant S. Jain**  
(Supervisor)

**Dr. Nishant S. Jain**  
Asstt. Professor (Pharmacology)  
Institute of Pharmaceutical Sciences  
Guru Ghasidas Vishwavidyalaya  
Bilaspur (C.G.) INDIA





**DEPARTMENT OF PHARMACY**  
**GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)**  
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## **DECLARATION**

*I hereby declare that this dissertation work entitled “Modulation of Endocannabinoid Induced Effects on Anxiety and Compulsive Behavior by Caffeine in Mice” is prepared under the guidance of **Dr. Nishant S. Jain** Assistant Professor, Institute of Pharmaceutical Sciences, Bilaspur (C.G.) for the partial fulfilment of the requirement of Master of Pharmacy in Pharmacology.*

*I further declare that I have not submitted this dissertation previously for the award of any degree or diploma to me.*

*Shawar*

**Km Neha Sharma**

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*Km Neha Sharma*

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