

# VRINDA GUPTA

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## OBJECTIVE

As a dedicated academic professional, I am passionate about teaching and committed to shaping the minds & characters of future generations. With a robust foundation in pharmaceutical sciences along with strong skills in analytical methods, research & interpersonal communication, I aim to inspire & educate students. Driven by love for knowledge & educational excellence, I seek to cultivate curiosity, critical thinking and ethical values in my students

## EDUCATION

Chitkara College of Pharmacy (NIRF-16)  
M. Pharma (Pharmacology) (CGPA: 9.01)  
Specialization: Neuropharmacology

Punjab, India  
August'24

**Master Thesis Title: "Pharmacological exploration of neuroprotective effect of *Trans*-Anethole in nicotine withdrawal syndrome in mice".**

Developed a new model to study nicotine addiction and its withdrawal effects, focusing on the severe psychological and physiological symptoms of nicotine withdrawal syndrome (NWS). Nicotine addiction was induced in mice using 2.5 mg/kg doses (s.c) over seven days, followed by withdrawal induced with mecamylamine at 3 mg/kg (*i.p*). *Trans*-anethole, a natural compound from anise and fennel essential oils, was investigated as a treatment. The research demonstrated that *trans*-anethole significantly reduced withdrawal severity, alleviated anxiety-like behaviors, mitigated oxidative stress, and suppressed inflammation. Skills Acquired: Animal handling, dosing, elevated plus maze test, histopathological analysis, and measurement of neurotransmitter levels by ELISA.

Jamia Hamdard University (NIRF-3)  
Advanced Diploma in Drug Regulatory Affairs (ADDRA)

New Delhi, India  
January'24

Maharishi Markandeshwar University  
B. Pharmacy (CGPA: 9.25)

Haryana, India  
June'22

## WORK EXPERIENCE

### The ICFAI University

Teaching & Research Assistant

Working as an assistant professor and mentor, teaching Pharmacology.

H.P, India  
**Dec' 25 – Ongoing**

### Indo Global College

Teaching & Research Assistant

Working as an assistant professor and mentor, teaching Pharmacology.

Punjab, India  
**Aug' 25 – Nov'25**

### Desh Bhagat University

Punjab, India

Teaching & Research Assistant  
Working as an assistant professor and mentor, teaching Pharmacology.

**Nov' 24 – June' 25**

**Industrial Trainee**

Greystar Pharma

Hands-on training in quality assurance practices and compliance.

Chandigarh, India

**June-July,21**

**Laboratory of Neuropharmacology**

Chitkara College of Pharmacy

Research Scholar

Punjab, India

Aug'22 – Aug'24

- Contributed to the development of animal models (rat and mice) for behavioural and molecular studies.
- Worked on numerous preclinical projects involving diabetes, psoriasis, sciatic nerve injury, osteoporosis, and PK-PD studies for an industrial project.
- Gained expertise in neurobehavioral parameters, routes of drug administration, and surgical procedures such as i.c.v. dosing, BCCAO, sciatic nerve injury, implant insertion, carotid cannulation, and femoral vein and artery surgeries.
- Skills Acquired: Neurobehavioral analysis, oxidative stress markers, and cytokine profiling.

**PUBLICATIONS**

1. **Gupta V**, Singh S, Singh TG. Pervasive Expotulation of p53 Gene Promoting the Precipitation of Neurogenic Convulsions: A Journey in Therapeutic Advancements. *European Journal of Pharmacology*. **2024** Sep 7:176990. **(I.F. 4.2)**.
2. Kaushik A, Kaushik M, Kaur G, **Gupta V**. Perspective of Secondary Metabolites in Respect of Multidrug Resistance (MDR): A Review. *Infectious Disorders-Drug Targets (Formerly Current Drug Targets-Infectious Disorders)*. **2024** Jun 1;24(4):40-52. **(I.F.3.0)**
3. Kaushik M, Kaushik A, Jain A, Chaudhary J, **Gupta V**. AmpC Inhibition: An Explicit Approach against Multi-Drug Resistance (MDR). *Current Topics in Medicinal Chemistry*. **2023** Aug 1;23(20):1919-27. **(I.F. 2.9)**
4. Kaushik A, **Gupta V**, Kaushik M, Ankalgi A, Ashawat MS, Verma CP, Baral D. Advancing osteoarthritis management: integrating new insights and addressing persistent roadblocks. *Inflammopharmacology*. **2025** Aug;33(8):4167-80. **(I.F.5.3)**
5. Kumar D, **Gupta V**, Tanwar R, Rani P, Bansal V. From skin to bone: sun avoidance and osteoarthritis risk. *Rheumatology International*. **2025** Jun;45(6):1-2. **(I.F -2.9)**
6. Kumar D, Gupta S, **Gupta V**, Tanwar R, Chandel A. Engineering the Future of Regenerative Medicines in Gut Health with Stem Cell-Derived Intestinal Organoids. *Stem Cell Reviews and Reports*. **2025** May 17:1-22 **(I.F – 4.2)**
7. Kumar D, Tanwar R, **Gupta V**. First-ever stem cell therapy restores insulin independence in type 1 diabetes: A medical milestone. *World Journal of Stem Cells*. **2025** Jul 26;17(7):106856. **(I.F-3.6)**
8. Kumar D, **Gupta V**, Tanwar R, Jaiswal NK. Revolutionizing Diabetic Macular Edema Treatment: FDA Approval of Susvimo. *SN Comprehensive Clinical Medicine*. **2025** Jul 21;7(1):194.
9. Kumar D, **Gupta V**, Tanwar R, Jaiswal NK. Recent Advances in HMPV: The Silent Threat to Respiratory Health. *Current Respiratory Medicine Reviews*. **2025**. **(I.F -0.3)**
10. Das P, Kumar D, **Gupta V**, Gupta S, Tanwar R, Behmani K. Sphingosomes: Advancements and Emerging Applications in Advanced Drug Delivery Systems. *Current Pharmaceutical Research*. **2025** Jun 20:42-52.

11. Kumar D, **Gupta V**, Tanwar R. From Microscopic Survivors to Medical Breakthroughs: Tardigrade Proteins Offer Hope for Safer Cancer Treatments. *Current Cancer Therapy Reviews*. 2025 Sep 2. **(I.F -0.9)**
12. Kumar D, **Gupta V**, Tanwar R, Bansal V. Unveiling the Hidden Dangers of Intermittent Fasting in Adolescents: A Call for Awareness. *Journal of Gastroenterology and Hepatology*. 2025 Nov;40(11):2770-2. **(I.F -3.4)**
13. Kumar D, **Gupta V**, Tanwar R, Gupta S. Needle-Free Future: Revolutionizing Immunization with Vaccine Creams. *Recent advances in drug delivery and formulation*. (2025) **(I.F -3.4)**
14. **Advanced IoT Communication Protocols: Driving Health Sciences Forward (2025)**.
15. Kumar D, Gupta S, **Gupta V**, Tanwar R, Rani P, Bansal V. Stem Cells to Organoids: Pioneering the Future of Regenerative Therapies. *Stem Cell Reviews and Reports*. 2025 Oct 9:1-26. **(I.F – 4.2)**
16. Kumar D, **Gupta V**, Tanwar R, Gupta S. Engineered NK Cells: A Breakthrough Strategy to Overcome Cancer Immunosuppression. *Current Cell Science*. 2025 Jan;1(1):E27726215396606.
17. Kondaveeti SB, Kaur K, **Gupta V**, Tanwar R, Choudhary N, Kumar D, Gupta S, Rani P, Vk A. Next-generation microneedle platforms for site-specific management of diabetic neuropathy. *Diabetology & Metabolic Syndrome*. 2025 Dec;17(1):1-8. **(I.F – 4.3)**
18. Babu Kondaveeti S, **Gupta V**, Dar AA, Sheikh JA, Kumar D, Choudhary N, Tanwar R, Gupta S, Rani P, Vk A. Crocetin as a Neuroprotective Agent: Targeting Western Diet-Induced Cognitive Dysfunction Through Antioxidant, Anti-Inflammatory and Gut-Brain Axis Modulation. *ASN neuro*. 2026 Dec 31;18(1):2603409. **(I.F – 3.7)**
19. Kumar D, Kumar R, Singh HR, Tanwar R, **Gupta V**. Duvyzat (Givinostat) in Duchenne Muscular Dystrophy: Mechanisms, Clinical Impact, and Future Directions. *Current Pharmaceutical Research*. 2025 Oct 17:308-22.
20. Kumar D, Ashraf MS, **Gupta V**, Tanwar R, Alshammari TM, Faiyazuddin M. Stem cell-based interventions for epilepsy: Current progress and future promise. *Epileptic Disorders*. 2025 Nov 7. **(I.F – 2.7)**
21. Kumar D, **Gupta V**, Tanwar R, Jaiswal NK, Gupta S. Phosphofructokinase-1: A Crucial Regulator in Glycolysis and Therapeutic Target. *Enzyme Based Approaches in Cancer Healthcare Management*.:57.
22. **Gupta V**, Kumar D, Gupta S, Tanwar R, Jaiswal NK, Islam MM, Singh S, Choudhary N, Gowri S, Webster TJ, Faiyazuddin M. Nanotechnology-Driven Cancer Therapies for Precision Oncology: Advances and Clinical Outlook. *Int J Nanomedicine*. 2026; 21:1-33 <https://doi.org/10.2147/IJN.S568254>
23. Kondaveeti SB, Gupta V, Kaur H, Arunprasad VK, Kapil L, Choudhary N, Kumar D. 2026. Repurposing Imeglimin for Chemotherapy-Induced Cognitive Impairment: Targeting Mitochondrial Dysfunction and Neuroinflammation. *Cellular and Molecular Neurobiology*. <https://doi.org/10.1007/s10571-026-01684-z>

## **INTERNATIONAL BOOK PROPOSALS**

1. Nature's Pharmacy: Biomimicry for Advanced Drug Delivery (Bentham) **(Accepted)**
2. Integrative AI-Driven Senotherapeutics: Novel Paradigms in Aging Pharmacology and Age-Related Disease Management (Bentham) **(Accepted)**

## **NATIONAL & INTERNATIONAL CONFERENCES**

1. Attended “Cerebral Organoids Model for Ageing Neurobiology Research IBRO School at the Faculty of Medicine and Health Sciences”, Universiti Putra Malaysia from 12 Aug to 18 Aug 2024 and got travel grant.
2. Participated and presented Poster in 2-day International Conference of Scientific Research in Unani medicine (Pharmacology and Pharmacognosy) at CoE in Jamia Hamdard University, New Delhi, 2024.
3. Participated and attended 2-day National Science Festival (NSF) organized by Society of Young Biomedical Sciences (SYBS) at SMS Medical College, Jaipur, Rajasthan in February 2023.
4. Participated and presented Poster in International Conference on “IADDCRR” held on 24 & 25 April, 2023 at Chitkara University, Punjab. Attended Pharma Conclave held on March 3, 2023 at Chitkara University, Punjab.
5. Participated and presented Poster in Pharm Tech web series/Pharmaceutical innovation to translation at Chitkara University, Punjab held on November 16, 2022.
6. Attended DBT sponsored Seminar on “Advancement in Experimental and Clinical Pharmacology” held at MMCOP, MMDU, Mullana-Ambala. (15-16th Feb, 2019)
7. Attended National Seminar sponsored by Department of Biotechnology (DBT), Ministry of Science and Technology, Govt. of India on ‘Severity in Rheumatoid Arthritis: New Insights and Treatment Strategies’ on 26th February, 2019 by MM School of Pharmacy, MMU, Sadopur, Ambala.
8. Attended National Commission for Women, Govt. Of India Sponsored Seminar on 'Women Entrepreneurship in Patriarchal Society: Motivation and Challenges' on March 30, 2019 by MM School of Pharmacy, MMU, Sadopur, Ambala.

## **HANDS ON TRAININGS**

1. Advanced Training Program in Experimental Behavioral Neurosciences (PGIMER, Chandigarh), 2024.
2. Capacity Building of AYUSH & Pharmacology Professionals (Jamia Hamdard University, New Delhi), 2024.
3. Advanced Surgical Procedures in Cardiovascular Disease Models (Jamia Hamdard University, New Delhi), 2023.
4. Key Strategies to Write a Scientific Manuscript (Chitkara University, Rajpura), 2023

## **LABORATORY SKILLS AND SOFTWARE SKILLS**

1. Western Blotting
2. UV Spectrophotometer
3. ELISA
4. Surgical animal procedures

5. Histopathology and Immunohistochemistry
6. Statistical analysis, Chatgpt, Co Pilot, Liner (AI tools)
7. Microsoft Office suite

## **ACHIEVEMENTS**

1<sup>st</sup> place in the **Best Poster Presentation Award** at IBRO School at the Faculty of Medicine and Health Sciences, Malaysia.

2<sup>nd</sup> position in **Poster presentation** in International Conference on “IBRO- sponsored Pharma conclave” at Chitkara University, Punjab.

**Gold medalist** in B. Pharmacy.

## **EXTRA CURRICULAR ACTIVITIES**

Freelance Artwork

Subject Matter Expert (Biology)

Tutoring/ Mentorship

Content writer

## **DECLARATION**

I do hereby declare that the above particulars are true and best of my knowledge.

**Vrinda Gupta**