



## Dr. Vipul Agarwal

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### Career Objective

Seeking a challenging role in the field of pharmacology to leverage my expertise and passion for research. I aim to contribute to a reputable organization's success through innovation, adaptability, and the application of my knowledge.

### Educational Qualifications

Qualification	Subjects	College/University	Passing Year	Marks (%)
PhD	Pharmaceutical Sciences	Babasaheb Bhimrao Ambedkar University, Lucknow	2023 Thesis Submitted (15/9/23) PhD Viva Voce (30/9/2024)	NA
M Pharm	Pharmacology	Babasaheb Bhimrao Ambedkar University, Lucknow	2016	75.4
B Pharm	Pharmacy	Raj Kumar Goel Institute of Technology, Ghaziabad	2014	69
Intermediate	Physics, Chemistry, Biology	Delhi Public School, Dadri	2010	72
High School	Mathematics, Science, English	Delhi Public School, Dadri	2008	74.4

### Professional Experience

- Working as an **Associate Professor** at **Ankerite College of Pharmacy, Lucknow (16.09.2023 to till date)**.
- Worked as an **Assistant Professor** at **Mahatma Gandhi Institute of Pharmacy, Lucknow (12.09.2017 to 30.08.2019)**.

### Area of Research

- Chronic Stress
- Cardiac Abnormalities
- Colon Cancer
- Inflammation
- Docking and Dynamics
- Cholinergic System
- *In-silico* Studies

## ● **Key Responsibilities**

- Teaching different pharmacy subjects at UG and PG levels.
- Evaluation and grading students' work.
- Maintaining records.
- Advising candidates during admissions.

## ● **Computer/Instrument Awareness**

- Proficient in computer skills.
- Knowledge of ECG, and other research equipment.
- Experience in conducting of animal experiment.
- Proficient with various docking softwares

## ● **Academic Project and Dissertation**

### • **Ph. D. (Pharmacology) Thesis**

A Study on the Role of Proinflammatory Cytokines and their Modulation by Cholinergic Activity in Chronic Stress Induced Cardiac Dysfunction.

**Supervisor** Dr. Vikas Mishra, Assistant Professor, Department of Pharmaceutical Sciences, Babasaheb Bhimrao Ambedkar University, Lucknow.

### • **M Pharm (Pharmacology) Thesis**

Effect of parenteral administration of Tofisopam against 1, 2 Dimethyl Hydrazine induced preneoplastic colon damage

**Supervisor** Dr. Gaurav Kaithwas, Professor, Department of Pharmaceutical Sciences, Babasaheb Bhimrao Ambedkar University, Lucknow.

### • **B Pharm Project**

Preparation, Evaluation and Comparative study of Ofloxacin Tablets

**Supervisor** Dr Vijay Agarwal, Professor, Raj Kumar Goel Institute Of Technology (Pharmacy), Ghaziabad.

## ● **Area of Interest**

- Research and Development.
- Academic Institutions.

## ● **Strengths**

- Self-motivated and eager to learn.
- Effective team player with strong interpersonal and communication skills.
- Creates a comfortable learning environment.

## ● **Membership**

Member, Registered Pharmacist at U.P Pharmacy Council.

## ● **Recognitions**

- Reviewer at **Heliyon (Cellpress)**.
- Reviewer at **Lifesciences (Elsevier)**.
- Reviewer at **Journal of Bimolecular Structure & Dynamics (Taylor & Francis)**.
- Reviewer at **Journal of Receptors and Signal Transduction (Taylor & Francis)**
- Reviewer at **Aging and Disease (Taylor & Francis)**
- Reviewer at **International Immunopharmacology (Elsevier)**.
- Reviewer at **Advances and Applications in Bioinformatics and Chemistry (Dove Press)**

## Honors and Awards

- Awarded **Indian Council of Medical Research- Senior Research Fellowship** by **Ministry of Health and Family Welfare, Government of India (2019-2022)**.
- Won **3<sup>rd</sup> Prize for poster presentation** entitled "Bionic Eye: Hope for the Blind" in International Pharmaceutical Conference- 2015 on "Nanoformulation and Translational Research: Small Getting Bigger" held at BBAU, Lucknow.
- Qualified **Graduate Pharmacy Test** in 2014.

## Publications

- Gupta A, **Agarwal V**. Inflammation as a shared mechanism of chronic stress related disorders with potential novel therapeutic targets. *Naunyn Schmiedebergs Arch Pharmacol*. 2024. **(Corresponding Author)**
- **Agarwal V**, Haldhar R, Hirad AH, Ahmed B, Han SB, Gupta A, et al. Repurposing FDA-approved drugs as NLRP3 inhibitors against inflammatory diseases: machine learning and molecular simulation approaches. *J Biomol Struct Dyn*. 2024;:1–13. **(First Author)**
- **Agarwal V**, Rehman M, Chaudhary R, Kaushik AS, Siddique MUM, Srivastava S, et al. Exploring the Potential of Natural-like Compounds as TNF $\alpha$  Inhibitors: An In-silico Approach. *Biointerface Res Appl Chem*. 2024;14. **(First Author)**
- **Agarwal V**, Kaushik AS, Chaudhary R, Rehman M, Srivastava S, Mishra V. Transcutaneous vagus nerve stimulation ameliorates cardiac abnormalities in chronically stressed rats. *Naunyn Schmiedebergs Arch Pharmacol*. 2023. <https://doi.org/10.1007/s00210-023-02611-5>. **(First Author)**
- **Agarwal V**, Kaushik AS, Rehman M, Chaudhary R, Jawaid T, Kamal M, et al. Interleukin-6 expression and its modulation by diacerein in a rat model of chronic stress induced cardiac dysfunction. *Heliyon*. 2021;7:e08522. **(First Author)**
- Rehman M, **Agarwal V**, Chaudhary R, Singh A. Pharmacological inhibition of histone deacetylase alleviates chronic unpredictable stress induced atherosclerosis and endothelial dysfunction via upregulation of BDNF. *Biochem Biophys Res Commun*. 2024;735 June:150485. **(Co Author)**
- Gupta A, Haldhar R, Agarwal V, Rajput DS, Chun K-S, Han SB, et al. Exploring the Potential of Natural Products as FoxO1 Inhibitors: an In Silico Approach. *Biomol Ther (Seoul)*. 2024;32:390–8. **(Co Author)**
- Chaudhary R, Prasad A, Agarwal V, Rehman M, Kumar A, Kaushik AS, et al. Chronic stress predisposes to the aggravation of inflammation in autoimmune diseases with focus on rheumatoid arthritis and psoriasis. *Int Immunopharmacol*. 2023;125 Pt A:111046. **(Co Author)**
- Rehman M, Chaudhary R, Rajput S, Agarwal V, Kaushik AS, Srivastava S, et al. Butein ameliorates chronic stress induced atherosclerosis via targeting anti-inflammatory, anti-fibrotic and BDNF pathways. *Physiol Behav*. 2023;267:114207. **(Co Author)**
- Chaudhary R, Rehman M, Agarwal V, Kumar A, Kaushik AS, Srivastava S, et al. Terra incognita of glial cell dynamics in the etiology of leukodystrophies: Broadening disease and therapeutic perspectives. *Life Sci*. 2024;354:122953. **(Co Author)**
- Chaudhary R, **Agarwal V**, Rehman M, Kaushik AS, Mishra V. Genetic architecture of motor neuron diseases. *J Neurol Sci*. 2022;434:120099. **(Co Author)**
- Chaudhary R, **Agarwal V**, Kaushik AS, Rehman M. Involvement of myocyte enhancer factor 2c in the pathogenesis of autism spectrum disorder. *Heliyon*. 2021;7:e06854. **(Co Author)**

## **CHAPTER & COMMENTARY**

- Chaudhary R, Rehman M, **Agarwal V**, Kaushik AS, Mishra V. Protein Aggregation in Neurodegenerative Diseases. 2022. p. 26–58. (Co Author)
- Rehman M, Agarwal V, Sharma K, Mishra V. Epigenetic regulation in mesial temporal lobe epilepsy associated with hippocampal sclerosis. *Neurol India*. 2020;68:314–5. (Co Author)

## **Conferences/ Workshop/ Symposia**

- **Participated** in **SERB KARYASHALA Workshop** on Flow Cytometry, qRT-PCR, Western Blotting and its application in Pharmaceutical Research held at BBAU, Lucknow.
- **Presented** an **oral presentation** at **26th Annual National Convention of Association of Pharmaceutical Teachers of India-2023** held at PSIT, Kanpur
- **Presented** a **poster** in “**THE PHARMACON 2022**” organized by Chandra Shekhar Singh College of Pharmacy, Prayagraj.
- **Presented** a **research paper in poster session** in 52nd International Annual Conference of Indian Pharmacological Society-**IPSCON 2023** being hosted at the JSS College of Pharmacy, Mysuru
- **Participated** in **Workshop on Good Laboratory Practice (GLP)** Organized by Babasaheb Bhimrao Ambedkar University, Lucknow Under the aegis of Indian Pharmacological Society (IPS).
- **Participated** in SPARC sponsored **International Workshop on Neurobiology of Pain & Itch**, organized by the Department of Pharmaceutical Engineering & Technology, Indian Institute of Technology (Banaras Hindu University), Varanasi, India.
- **Attended Integrating Scopus in Research Workflow** at Babasaheb Bhimrao Ambedkar University/Elsevier on 19th May, 2021.
- **Participated** in **5th NBRL-ATP-EBN 2020 Virtual Training Program** organized by Experimental Pharmacology Laboratory and Neurobehavioral Research Laboratory (EPL- NBRL), Department of Pharmacology, Postgraduate Institute of Medical Education & Research (PGIMER), Chandigarh
- **Presented** a **poster** in **National Symposium on “Integration of Natural Healthcare Systems And Modern Science: Potential Merits And Future Roadmaps” (TBR2019)** held on 2-3 November 2019 at BBAU Lucknow.
- **Participated** in **National seminar on “Techno-Managerial Skills”** held at Apeejay Stya University.
- **Participated** in **Pre-conference workshop and hands-on training in Neuropharmacology in 8thNIPER (RBL)-CSIR-CDRI Symposium on “Current Trends in Medicinal Chemistry and Pharmaceutical Sciences in Drug Discovery”** held at NIPER Raebareli.

## **Faculty Development Program (FDP)**

- Participated in FDP conducted by **Department of Pharmacy, Rameshwaram Institute of Technology and Management Lucknow**, under joint collaboration of AICTE, New Delhi and AKTU, Lucknow.

## **References**

- **Dr. Vikas Mishra**, Assistant Professor, Dept. of Pharmaceutical Sciences, Babasaheb Bhimrao Ambedkar University, Lucknow. Email vikasmishra12@gmail.com Mob +918840889812.
- **Dr. Gaurav Kaithwas**, Professor, Dept. of Pharmaceutical Sciences, Babasaheb Bhimrao Ambedkar University, Lucknow. Email gauravpharm@gmail.com Mob +919670204349.

## **Declaration**

I hereby certify that all the information provided here is correct to the best of my knowledge and belief and I promise to abide all the norms laid down by your esteemed organization.

Date: 10/09/2024

Place: Lucknow

  
(Vipul Agarwal)