

CURRICULUM VITAE

Ms. Aditya Singh [Pharmaceutics]

PhD Scholar, M.Pharm (Gold Medalist)

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CURRENT WORK PROFILE

- I currently hold the position of Lecturer in the Faculty of Pharmacy at Integral University, Lucknow. Additionally, I had participated as Resource Person in the value-added Course (PHV-E6) on Novel Drug Carrier Systems Organized by Faculty of Pharmacy, Integral University, Lucknow, India (01-04-23 to 28-05-23).
- Apart from my teaching responsibilities, I actively engage in National Assessment and Accreditation Council (NAAC), data compilation and being involved in the Internal Quality Assurance Cell (IQAC) on the department level (criterion-III member).
- External Examiner, at Rama University, Kanpur, Faculty of Pharmaceutical Sciences (2022-2023).

EXPERIENCE

- I have been serving as a dedicated Lecturer at Integral University, Faculty of Pharmacy, Dasauli Kursi Road, Lucknow, since **September 28, 2022**.
- Previously, I held the esteemed position of Assistant Professor at Jivika College of Pharmacy, Sandila-Hardoi. From **October 5, 2021**, to **September 9, 2022**, I actively participated in the academic journey of students, imparting knowledge and instilling a deep understanding of pharmaceutical sciences.
- Prior to that, I served as an Assistant Professor at M.D College of Pharmacy, Barabanki, where I dedicated my efforts from **January 18, 2021**, to **September 10, 2021**.
- Before joining M.D College of Pharmacy, I had the privilege of working as an Assistant Professor at Sagar College of Pharmacy, Barabanki (**October 5, 2020**, to **January 15, 2021**).

ACADEMIC HIGHLIGHTS

Degree	Institution/College	Percentage
PhD	Integral University Lucknow (Ongoing)	2020 Enrolled
M. Pharm.	Integral University Lucknow-UP, India	84.3%
B. Pharm	A.K.T.U Lucknow-UP, India	72.6%

ACADEMIC PROJECT

“Development and Evaluation of Topical Liposomal Preparation of Flax seed oil and Tamarind seed oil against ageing” (2019 – 2020)

PATENT

- Patent Granted on Composition and method for development and evaluation of topical liposome preparation of Flax seed oil and Tamarind seed oil. **Aditya Singh**, Vaseem A. Ansari, Farogh Ahsan, Md Faheem Haider, Rufaida Wasim, Tarique Mahmood, Arshiya Shamim.
Patent No: 2022/04700, South African.
- **Indian Patent Published on November 2022** “Curcumin loaded niosomal gel for wound healing in rats and its preparation method. Asad Ahmad, Juber Ahtar, Mohammad Ahmad, Mohammad Irfan Khan, Badruddeen, **Aditya Singh**, Rufaida Wasim, Akash Srivastava, Mohd Shaiber Siddiqui.

PUBLICATIONS

1. Deepa Neopane, Vaseem A Ansari, **Aditya Singh**, Review article published on Ferulic acid: Signaling Pathways in Aging “**Drug Research**” Scopus (IF: 2.2).
2. **Aditya Singh**, Vaseem A Ansari, Tarique Mahmood, Farogh Ahsan, Rufaida Wasim. Receptor for Advance Glycation End Product: Dementia and cognitive Impairment “**Drug Research**” (IF: 2.2).
3. **Aditya Singh**, Vaseem A Ansari, Tarique Mahmood, Farogh Ahsan, Rufaida Wasim. BMS-CNSDDT-2022-124 entitled “Emerging Nanotechnology for the treatment of Alzheimer’s” (IF: 2.8).
4. **Aditya Singh**, Vaseem A Ansari, Tarique Mahmood, Farogh Ahsan, Rufaida Wasim, Consequence of Dementia and Cognitive Impairment by Nucleation Pathways in the journal of **Harmone and Metabolic Research** (IF: 2.93).
5. **Aditya Singh**, Asad Ahmad, Akash Srivastava. Research article published on Phytochemical screening and standardization of H. Antidysentrica: A beneficial role as stomachic tonic. **GIS Science Journal** Volume 9, Issue 12, December 2022.
6. **Aditya Singh** with 5 authors, research article “**DEVELOPMENT AND EVALUATION OF CURCUMIN LOADED NIOSOMAL GEL FOR WOUND HEALING IN RATS**”, **Bentham current cosmetic science**.
7. **Aditya Singh** with one more author, research article “**Development and Evaluation of Curcumin based Transferosomal Gel for Wound Healing**” accepted **Bentham current cosmetic science**.
8. **Aditya Singh** with one more author “**Dendrimers: Patents for Alzheimer’s disease**” accepted **Bentham NanoTech**.
9. **Aditya Singh**, article “Development and Evaluation of Topical Liposomal Gel of Lemon Oil and Orange Oil for Synergistic Effect to Enhance Skin Beauty” *International Journal of Pharma Professional’s Research*.
10. **Aditya Singh**, review article “Menacing Chronicle of Covid-19 Patient” *International Journal of Pharma Professional’s Research*. *International Journal of Pharma Professional’s Research*.
11. **Aditya Singh**, review article “Delta plus: A New Variant of Corona Virus” *International Journal of Pharma Professional’s Research*.
12. **Aditya Singh**, review article “A Comprehensive review on COVID-19 Variant: Delta plus and Omicron Variant” *International Journal of Pharma Professional’s Research*.
13. **Aditya Singh**. DENDRIMERS FOR NEURO TARGETING. *International Journal of Pharma Professional’s Research (IJPPR)*, 14(1), 124-130.
14. **Aditya Singh**, Vaseem A Ansari, Tarique Mahmood, Farogh Ahsan, Rufaida Wasim. “BMS-COSCI-2022-13”**Ursolic acid: Historical aspects to promising pharmacological actions for the treatment of central nervous system diseases: Act as a cosmeceuticals**”.
15. **Aditya Singh**, Vaseem A Ansari, Tarique Mahmood, Farogh Ahsan, Rufaida Wasim. **Lipophilic PAMAM dendrimer: Conceptualization of targeted cosmetics and drug delivery**. **Bentham, Current Cosmetic Science**. 1 Nov; 2022 2666-7800.
16. **Aditya Singh**, Vaseem A Ansari, Tarique Mahmood, Farogh Ahsan, Rufaida Wasim. Neurodegeneration, Microglia: Nf-Kappa Signalling Pathways. *Drug Research* 2022; 72:1-4 (IF: 2.2).
17. Rufaida Wasim, Tarique Mahmood, Mohammad Haris Siddiqui, Arshiya Shamim, Farogh Ahsan, **Aditya Singh**, Mohammad Shariq, Saba Parveen. Aftermath of AGE-RAGE cascade in the pathophysiology of cardiovascular ailments. *Life Sciences* 2022; 5;307:120860. (IF: 6.78).

18. Rufaida Wasim, Tarique Mahmood, Mohammed Haris Siddiqui, Farogh Ahsan, Arshiya Shamim, **Aditya Singh**. Repurposing of drugs for Cardiometabolic disorders: An out and out cumulation. *Hormone and Metabolic Research Scopus* (IF: 2.93).
19. **Aditya Singh**, Farogh Ahsan, Rufaida Wasim. Viridescent Concoction of Genistein Tendentious Silver Nanoparticle for Breast Cancer. *Research Journal of Pharmacy and Technology*. 2021; 14(5):2867-2872 Scopus.
20. Rufaida Wasim, Tarique Mahmood, Mohammad Haris Siddiqui, Farogh Ahsan, **Aditya Singh**, Mohammad Shariq, Saba Parveen Pleiotropic benefits of statins in cardiovascular diseases. *Drug Research* 2022 (IF: 2.2).
21. Rufaida Wasim, Tarique Mahmood, Arshiya Shamim, Farogh Ahsan, **Aditya Singh**, Mohammad Shariq, Saba Parveen. Metaphorical Investigation of Aqueous distillate of *Cichorim intybus*, *Foeniculum vulgare* and *Solanum nigrum* along with Atorvastatin and Orlistat in experimental rodent models of Dyslipidaemia and Obesity. *Future Journal of Pharmaceutical Sciences Scopus*.
22. **Aditya Singh**, Vaseem A Ansari, Tarique Mahmood, Farogh Ahsan, Rufaida Wasim. Dendrimers: A neuroprotective lead in Alzheimer disease: A Review on its synthetic approach and applications. *Drug Research*. 2022; 72: 1-7 (IF: 2.2).
23. **Aditya Singh**, **Vaseem A. Ansari**, Md Faheem Haider, Farogh Ahsan, Tariq Mahmood, Shubhrat Maheshwari, Ritesh Kumar Tiwari. Oral Fast Dissolving Film: The Avant-garde Avenue for oral Consignment Modus Operandi. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2145-2 Scopus.
24. **Aditya Singh**, VA Ansari, Faheem Haider, Juber Akhtar, Farogh Ahsan. Essential oils used in Modified Drug Delivery and its formulation of Liposomes for Topical Purpose. *Res. J. Pharmacology and Pharmacodynamics*. 2020; 12(1):34-38,
25. **Aditya Singh**, VA Ansari, Faheem Haider, Juber Akhtar, Farogh Ahsan. A Review on Topical preparation of Herbal Drugs used in Liposomal delivery against Ageing. *Res. J. Pharmacology and Pharmacodynamics*. 2020; 12(1):5-11.
26. **Aditya Singh** article published on Extraction, Development and characterization of Tamarind seed oil based liposomes in *IJPR* 2020.
27. **Aditya Singh**, Herbanutraceuticals heal and regain the human health. ISSN 2277-7105.
28. **Aditya Singh**, Zuber Akhtar, Antifungal Marker. *WJPR*, 2019; ISSN 2277-7105.

Book & Book chapters

1. **Book Chapter** accepted entitled “**Dendrimers in Alzheimer's disease: Current State and Future Directions**” to the book **IIPBook Series "IIPV3EBS16_G35 Futuristic Trends in Pharmacy & Nursing"**
2. **Book Chapter** accepted entitled “**Processed Excipients with Bioactive In Delivering Drug to Targeted Site For the Management of Cancer**” in book “**Processed Excipients in Advanced Drug Delivery**” Apple Academic Press/Taylor and Francis Group (**Ongoing Publication Stage**).
3. **Book Chapter** accepted entitled “**Processed Excipients in Novel Solid Dosage Forms**” in book “**Processed Excipients in Advanced Drug Delivery**” Apple Academic Press/Taylor and Francis Group (**Ongoing Publication Stage**).
4. **Book Chapter** accepted entitled “**Lipid-based nanocarriers in management of cystic fibrosis: A pulmonary complications**” in book “**Lipids in pulmonary drug delivery**” by Elsevier (**Ongoing Publication Stage**).
5. **Book Chapter** accepted entitled “**Polymeric nanoparticles in treating cystic fibrosis**” in book “**Lipids in pulmonary drug delivery**” by Elsevier (**Ongoing Publication Stage**).
6. **Book Chapter** accepted entitled “**An Overview on Processed Excipients**” in book “**Processed Excipients in Advanced Drug Delivery**” Apple Academic Press/Taylor and Francis Group (**Ongoing Publication Stage**).
7. **Book Chapter** “**Dendrimers in the management of Alzheimer's disease**, Chellappan et al.- Alzheimer's Disease and Advanced Drug Delivery Strategies in **ELSEVIER (Ongoing Publication Stage)**).
8. **Book Chapter** accepted “**Computational attitudes to Drug Discovery in Alzheimer's disease**” in book **-Computational Neuropharmacology-2023: Computational Neuropharmacology: Advances and Prospective**, by Willey publishers.

9. **Book Chapter** accepted “**Liposomes in Cancer Therapy: Current State and Future Directions**” in book **Liposomes: Advances in Research and Applications** (Nova Science publishers).
10. **Book Chapter** accepted “**The integration of molecular docking and machine learning in drug discovery for neurological disorders**” in book -**Computational Neuropharmacology-2023: Computational Neuropharmacology: Advances and Prospective**, by Willey publishers.
11. **Book Chapter** “**Exosomes-based drug delivery strategies for brain disorders**” in book - **Exosomes Based Delivery Strategies for Brain Disorders**, by Springer Nature.
12. **Book Chapter**-Herbal Nano-cosmeceuticals: A blessing for good skincare published in “**Nanotechnology in Phytopharmaceuticals**” 2022, by **Cambridge Scholars Publishing with ISBN (10): 1-5275-1531-4**.

TECHNICAL COMPETENCIES

I possess a diverse range of scientific skills and experiences that have equipped me with expertise in several key areas related to pre-clinical studies and drug development. Here are some of my notable skills and capabilities:

Scientific Literature Search and Review: I am proficient in conducting precise and efficient scientific literature searches and reviews using various databases such as Pub Med, Science Direct, and the Cochrane database. I have honed my skills in extracting and evaluating relevant data from scientific literature to support research projects and stay up-to-date with the latest advancements in the field.

Pre-clinical Studies and Animal Models: I have a strong background in conducting pre-clinical studies using animal models. This includes designing and executing experiments, collecting and analyzing data, and effectively communicating findings to research teams. My experience in this area enables me to contribute to the investigation of potential therapeutic effects of drugs and the evaluation of their safety and efficacy.

Formulation Development and *In vitro* Studies: I possess expertise in formulation development and conducting in vitro studies. I am skilled in developing drug formulations and performing in vitro tests to evaluate their efficacy and safety. This includes assessing factors such as drug release, stability, and bioavailability.

Scientific and Narrative Writing: I have excellent scientific and narrative writing abilities. I am adept at authoring protocols, manuscripts, and scientific reports, ensuring clarity, accuracy, and adherence to established guidelines. My writing skills contribute to effective communication of research findings and ideas.

Data Analysis and Presentation: I am proficient in using various computer tools and software applications for data analysis, management, and presentation. I am skilled in using MS Office tools such as Word, PowerPoint, and Excel, as well as Biorender for creating and presenting reports and data in a visually engaging manner.

Leadership, Team Management, and Organizational Skills: As a team player, I possess strong leadership, team management, and organizational skills. I am capable of working collaboratively within interdisciplinary teams and managing multiple projects simultaneously while delivering high-quality results.

WORKSHOPS

1. 3 days Hands-on-workshop on “Use of HPLC in Pharmaceutical Industry” March, 2019 Organized by Cytogene Lucknow.
2. 10 days workshop on “Fundamentals of Pharmacovigilance, Clinical trials and quality control” October, 2017 organized by Cytogene Lucknow.
3. Participated in 1 day, Hands-on-workshop on “Use of HPLC” on National Conference Spirit 19-**“Emerging Trends in Healthcare”** and that organized by Department of pharmaceuticals Engg. & Technology, IIT (BHU).

SEMINARS & COFERENCES ATTENDED

1. Attended **International conference** on the topic “**FOSTERING HIGH QUALITY CLINICAL RESEARCH FOR A HEALTHIER WORLD**” by **NIMS University, Jaipur, Rajasthan** 26-11-22 and Abstract publication on the topic Antibiotic Resistance a Worrisome Possibilities in Current World.
2. Attended 15 days Induction event organized by **Integral University, Lucknow**-October 2022.
3. Participated in a workshop on Hands-on workshop on LCMS/MS in Clinical Proteomics organized by Department of Biotechnology, ERA University Lucknow.
4. Attended PDP on Strategies to overcome challenges in Drug Development organized by Faculty of Pharmacy, Integral University, Lucknow
5. Participated in **world pharmacist day in creative thinking competition in pharmacy and awarded with first place** “Azad institute of Pharmacy and Research” L.K.O.
6. Participated in International conference “**Exploring opportunities and future avanues in pharmaceutical sciences**” and presented a poster on the topic of “**Pharmacy is boon or bane**” and **won 1st price** “Azad institute of Pharmacy and Research” L.K.O.
7. Participated in the National Conference “**The Opportunities of Pharmacy in Current Scenario**” and **giving the oral presentation on the Topic of Introduction, classification and Application of Nutraceuticals**. In Mosofiya conference at Scientific Convention centre, KGMU, Lucknow.
8. Participated in the National Conference Spirit 19- “**Emerging Trends in Healthcare**” and **take participate in Polaries Scientific event (poster presentation) on the topic “Herbaneutraceuticals”** and awarded with **2nd place** that organized by Department of pharmaceuticals Engg. & Technology, IIT (BHU).
9. Participated in the International conference on Recent Advances in Engineering & Science and present a full length **research paper and poster presentation on the topic of “Essential oils used in Modified Drug Delivery & its Formulation of Liposomes for Topical purpose”** and got ISBN : **978-81-944663-1-4**. Organized by AMU, Aligarh.
10. Participated in the International conference on “**Impact of Artificial Intelligence in Healthcare**” and presented full length paper and Poster presentation **on the Topic of “Artificial Intelligence in the world of Pharmaceutics”** Certi. No. **PP-103 and ISBN 978-93-89808-18-16**. Organized by **KIET School of Pharmacy, Ghaziabad**.
11. Participated in a World Pharmacist day on the topic “**Pharmacists: Your medicine experts**” in a **scientific poster presentation** organized by Faculty of Pharmacy, **Integral University, Lucknow**.
12. Participated in a World Pharmacist day on the topic “**Pharmacists: Your medicine experts**” in a **scientific model presentation and won 3rd prize** organized by Faculty of Pharmacy, **Integral University, Lucknow**.
13. Participated in the Fiesta on the **Technical poster Presentation**, organized by Faculty of Pharmacy, **Integral University Lucknow**.
14. Participated in the **one-day Primary Health Conference on the “Challenges in Primary Health Care Delivery”** organized by HFE Network LLP and Nav Nirman Seva Trust at **Hilton Garden Inn Lucknow, Uttar Pradesh**.
15. Participated in the Diamond Jubilee Bioinformatics Workshop, “**Transcriptomics Data Analysis: Bioinformatics Perspective**” **organized by CSIR-CIMAP Lucknow**.
16. Participated in **Buck up India** organized by Faculty of Pharmacy, **Integral University, Lucknow**.
17. Participated in **Prescriptio** organized by Faculty of Pharmacy, **Integral University, Lucknow**.
18. Participated in a scientific quiz competition in the World Pharmacist day on the topic of “**Pharmacists: Your medicine experts**” organized by Faculty of Pharmacy, **Integral University, Lucknow**.
19. Participated in the National Conference Spirit 19- “**Emerging Trends in Healthcare**” and **take part in one day HPLC workshop** that organized by **Department of pharmaceuticals Engg. & Technology, IIT (BHU)**.
20. 5th International Conference 2021 at **BBAU** on Innovative Approaches in Applied Sciences and technology presented paper online mode oral on the topic of **Transferosomes gel of Adenium obesum for wound healing**.
21. Participated at **AMIPHORIA** in 2019 organized by **Amity University**.

22. Attended National Seminar on Intellectual Property Rights on 30th August at **CRIUM**, Lucknow UP.
23. **1 day** Industrial visit at QuadLifescience Pvt. Ltd, 19.03.2018.
24. **1 month** Industrial training, Genson Pharma Pvt. Ltd, 04.03.2017.
25. **45 days** Hospital training at “LBRN” Combined hospital, Kanpur Road, Lucknow. (2017)

EXTRA-CURRICULAR ACTIVITIES & ACHIEVEMENTS

- Participated in ‘**Arts and Cultural Festival**’ **Zonal Level** in ‘**3D Rangoli Event**’ of **AKTU 2016**.
- Participated in ‘**Master Chef**’ in ‘**Trisha Annual Festival**’ in **Azad Technical Campus, 2015** and **awarded with 2nd Price**.
- Participated in drawing competition organized by Aviva Life Insurance.
- Participated in ‘**Rangoli Event**’ in ‘**Trisha Annual Festival**’ in **Azad Technical Campus, 2015** and **awarded with 2nd Price**.
- Participated in ‘**Gossip Girls Event**’ in **Azad Technical Campus, 2015** and **awarded with 2nd Price**.
- Participated in ‘**Ran Bhoomi Annual Sports**’ in **Azad Technical Campus, 2016** and **awarded with 1st Price**.
- Participated in ‘**Trisha Annual Festival**’ in ‘**Gossip Girls**’ in **Azad Technical Campus, 2017** and **awarded with 2nd Price**.
- Participated in ‘**Trisha Annual Festival Event**’ of ‘**3D Rangoli**’ in **Azad Technical Campus, 2017** and **awarded with 2nd Price**.
- Participated in ‘**Master Chef**’ in ‘**Trisha Annual Festival**’ in **Azad Technical Campus 2017**.
- Participated in Table Tennis On 1st-3rd March 2019 organized by integral University.
- Participated in Basket Ball On 1st-3rd March 2019 organized by integral University.

Achievements & Awards

I take immense pride in my achievements and the recognition I have received throughout my academic and professional journey. Here are some notable accomplishments:

Gold Medalist (2020): I was honored with the prestigious Gold Medal for securing the first position in the University during my M.Pharm studies. This recognition highlights my dedication, hard work, and academic excellence in the field of pharmacy.

First Prize in World Pharmacist Day Events (2021): I actively participated in the World Pharmacist Day events organized by Integral University, Lucknow. In an Animated Video Competition, I emerged as the winner, showcasing my creativity, communication skills, and understanding of important pharmacy-related themes.

First Prize in World Pharmacist Day Events (A.I.P.R, Lucknow): I showcased my active participation and commitment to the pharmacy profession by winning the first prize in the World Pharmacist Day events held at A.I.P.R, Lucknow. This accomplishment demonstrates my engagement with the community and dedication to promoting the role of pharmacists in healthcare.

Second Prize in Poster Presentation Competition (Spirit 2019 at IIT-BHU): I secured the second prize in a Poster Presentation competition held at Spirit 2019, hosted by IIT-BHU. This achievement reflects my ability to effectively present scientific concepts and engage an audience with visually appealing and informative posters.

Third Prize in Scientific Model Display Competition (2018, Integral University): I showcased my innovative and creative skills by winning the third prize in the Scientific Model Display competition held at Integral University, Lucknow. This recognition underlines my ability to conceptualize and present scientific models that communicate complex concepts in a visually appealing manner.

PERSONAL DETAILS

Nationality: Indian
Gender: Female
Language proficiency: English, Hindi
Religion: Hindu

DECLARATION

I hereby declare that the above-furnished information is correct and true to the best of my knowledge.

Date: 28 August 2023

Place: Lucknow

(Aditya Singh)

Aditya Singh