

## CURRICULUM VITAE

**Dr. Aditya Singh**

**Lecturer,**

**DOJ-01/10/2022**

**M.Pharm(Gold Medallist) & PhD,**

**Faculty of Pharmacy,**

**Integral University, Lko.**

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### **CURRENT WORK PROFILE**

- I have taught B. Pharm and Pharm D students in subjects such as Pharmaceutical Biotechnology and Pharmaceutical Microbiology, and conducted experiments in Physical Pharmaceutics II and Microbiology. Additionally, I have taught Post Baccalaureate students Biopharmaceutics and Pharmacokinetics, and D. Pharm students in Pharmaceutics I, in accordance with PCI/AICTE/University academic council guidelines
- Co-supervised two **M. Pharm** students on research projects focusing on the preparation and evaluation of formulations, such as liposomes and nanoparticles.
- 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) and Program Coordinator of various events and organising member during National Pharmacovigilance Week 2023.
- 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 (DQAC) (criterion-III member) (**Extension Activity**) and in National Board of Accreditation (NBA) data compilation and being involved in the Internal Quality Assurance Cell (IQAC) on the department level (DQAC) (criterion-II member).
- External Examiner, **Rama University, Kanpur**, Faculty of Pharmaceutical Sciences (2022-2023).

### **EXPERIENCE**

- Working as Lecturer “**Faculty of Pharmacy Integral University**” Lucknow since **September 28, 2022** till now.
- Have worked as **Assistant Professor** “Jivika College of Pharmacy”, Sandila-Hardoi. From **October 5, 2021**, to **September 9, 2022**.
- Have worked as **Assistant Professor**, “M.D College of Pharmacy”, **Barabanki**, from **January 18, 2021**, to **September 10, 2021**.
- Have worked as **Assistant Professor** at **Sagar College of Pharmacy, Barabanki** from **October 5, 2020**, to **January 15, 2021**.

### **RESEARCH PROFILE**

[https://scholar.google.com/citations?hl=en&user=4i90QDEAAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.com/citations?hl=en&user=4i90QDEAAAAJ&view_op=list_works&sortby=pubdate)

<https://id.elsevier.com/settings/updateProfessionalExperience>

<https://www.researchgate.net/profile/Aditya-Singh-76>

[https://www.scopus.com/feedback/results/authorNamesList.uri?origin=searchauthorlookup&src=al&edit=&poppUp=&st1=Singh&st2=Aditya&affilNames=Integral+University&OrcidId=0000-0002-0398-](https://www.scopus.com/feedback/results/authorNamesList.uri?origin=searchauthorlookup&src=al&edit=&poppUp=&st1=Singh&st2=Aditya&affilNames=Integral+University&OrcidId=0000-0002-0398-6130&authSubject=LFSC&_authSubject=on&authSubject=HLSC&_authSubject=on&authSubject=PHSC&_authSubject=on&authSubject=SOSC&_authSubject=on&s=AUTH--ORCID--ID%280000-0002-0398-)

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**Web of Science ResearcherID: HWQ-3320-2023**

**Orcid id: 0000-0002-0398-6130**

## MEMBERSHIP OF PROFESSIONAL BODIES

- 1) Life Member Association of Pharmaceutical Teachers of India UP/LM-1090.
- 2) Lifetime Member of Education Research and Development Association (ERDA), Membership **ID:** ERDA/INDLM/825/1223.

## PATENT GRANTED

1. **INDIAN PATENT** A METHOD FOR PREPARING FOR URSOLIC ACID LOADED DENDRIMERS FOR THE TARGETED DELIVERY OF ALZHEIMER'S DISEASE, Indian Patent Granted [202411003137], Patent numb (549747).
2. **International** (CIPC, Republic of South Africa) patent granted on title "A composition and a method for development and evaluation of topical liposome preparation of flax seed oil and tamarind seed oil". Patent number: 2022/04700.
3. **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. 202211068190.
4. RUTIN AND CURCUMIN BASED NANOGEL FORMULATION FOR MANAGEMENT OF ACNE VULGARIS AND PREPARATION METHOD [202411026966] (**Indian**).
5. NANOEMULSION FORMULATIONS OF RETINOL AND A - TOCOPHEROL FOR ALZHEIMER DISEASE [202411026750] (**Indian**).

## ACADEMIC HIGHLIGHTS

Degree	Institution/College	Percentage
PhD	Integral University Lucknow	August 2024 Submitted
M. Pharm.	Integral University Lucknow-UP, India	84.3%
B. Pharm	A.K.T.U Lucknow-UP, India	72.6%

## ACADEMIC PROJECT

1. "Targeted Drug Delivery of Ursolic acid Loaded Dendrimer against Experimental Model of Dementia and Cognitive Impairment" (2021-2024).
2. "Development and Evaluation of Topical Liposomal Preparation of Flax seed oil and Tamarind seed oil against ageing" (2019 – 2020).

## RESEARCH AND REVIEW ARTICLES PUBLISHED

1. **Aditya Singh**, Vaseem Ahamad Ansari\*, Tarique Mahmood Ansari, Rufaida Wasim, Juber Akhtar and Shubhrat Maheshwari, “**Pharmacokinetic Assessments of Ursolic Loaded-Dendrimer Complex**” in **Current Pharmaceutical Analysis**, Bentham, Scopus, IF 0.7.
2. **Aditya Singh**, Vaseem Ahamad Ansari, Tarique Mahmood. **Development and Evaluation of Ursolic acid Loaded Dendrimers**. Research Journal of Pharmacy and Technology. 2024; 17(8):3642-8. doi: [10.52711/0974-360X.2024.00568](https://doi.org/10.52711/0974-360X.2024.00568) (Scopus).
3. Rufaida Wasim, **Aditya Singh**, Anas Islam, Tarique Mahmood, **High Mobility Group Box 1 and Cardiovascular Diseases: Study of Act and Connect** in journal **Cardiovascular Toxicology**, Springer, IF 3.4.
4. **Aditya Singh**, Shubhrat Maheshwari and other co-authors, “**Liposomal as a promising carrier for neurological disorders**”, in BMS-CNSAMC-2024-31 (Accepted).
5. **Aditya Singh**, Shubhrat Maheshwari and other co-authors, “**Bioactive compounds fortified nanocarriers in the management of neurodegenerative diseases** in journal **Chemistry and biodiversity**, Wiley, Scopus, IF 2.5 (Accepted).
6. Purba Mandal, Juber Akhtar, **Aditya Singh**, “**Natural bioactives and their nanoformulations for management of acne vulgaris**”, in BMS-NPJ-2024-254, Scopus manuscript, accepted.
7. **Aditya Singh**, Shubhrat Maheshwari and other co-authors, “**Lipid-based nanocarrier in treatment of cystic fibrosis: A Review**”, BMS-CDTH-2024-172, (Accepted).
8. **Singh A** and 8 other co-authors “**Targeting Abnormal Tau Phosphorylation for Alzheimer’s Therapeutics**” in **Hormone and Metabolic Research** (IF: 2.93).
9. Rufaida Wasim\*, Tarique Mahmood, Mohammed Haris Siddiqui\*\*, Asad Ahmad\* and **Aditya Singh\*** “**Exploring the effect of rosuvastatin on AGE-RAGE pathway concerning its cardioprotective potential**” in **Annals of Phytomedicine** 13(1): 684-691, 2024. Web of Science.
10. Ritu\*, Prabhna Kaur, Vishal Kumar Vishwakarma, **Aditya Singh** and Ramesh K Goyal\* “**Herbal Insights: Exploring the Therapeutic Potential of Indian Dietary Herbs in Diabetic Cardiomyopathy Management, Current Diabetes Reviews**, IF 2.4.
11. Badruddeen, Asad Ahmad, Juber Akhtar, Mohammad Ahmad, Mohammad Irfan Khan, Rufaida Wasim, Anas Islam, **Aditya Singh**, “**Bedaquiline: An Insight Into its Clinical Use in Multidrug-Resistant Pulmonary Tuberculosis**” **Drug Research**” 2194-9379, Scopus (IF: 2.2).
12. Saad Mohammed, Tarique Mahmood, Arshiya Shamim, Rufaida Wasim, **Aditya Singh**, **Correction: Encyclopaedic Review of Glipizide Pre-clinical and Clinical Status, Drug Research**” 2194-9379, Scopus (IF: 2.2).
13. **Aditya Singh**, and 4 co-authors “**Telmisartan-loaded liposomes: An innovative weapon against breast cancer**” in **Intelligent Pharmacy**. 2024, January, Elsevier.
14. Shubhrat Maheshwari, **Aditya Singh**, “**Advancing oral drug delivery: The science of fast dissolving tablets (FDTs)**” in **Intelligent Pharmacy**. 2024, feb, Elsevier.

15. Singh A and other co-authors “**Navigating the dementia landscape: Biomarkers and emerging therapies**” ageing research review, IF 13.1, Elsevier. ISSN: 1568-1637, Scopus.
16. Singh A and other co-authors “**Repercussion of Primary Nucleation Pathway: Dementia and Cognitive Impairment**”, in journal “**current Ageing Science**”, Scopus.
17. Fatima Siddiquie, Farogh Ahsan, Tarique Mahmood, Aditya Singh, Shahzadi Bano “**Unlocking the food treasures: Trachyspermum ammi–A comprehensive exploration from field to pharmacology**”, in “**food safety and health, in Wiley**, Scopus.
18. Singh A and other co-authors, **Targeting Abnormal Tau Phosphorylation for Alzheimers Therapeutics**, in **Hormone and Metabolic Research** (IF: 2.93). (0018-5043).
19. Singh A and other co-authors, **Ferroptosis: A Frontier in Osteoporosis**, in **Hormone and Metabolic Research** (IF: 2.93).
20. Singh A and other co-authors “**Revealing the Potential of Mucoadhesive Ocular Nanoparticles for Enhanced Drug Delivery**” in **Current Nanomedicine**, Scopus.
21. Singh A and other co-authors article entitled **A review on Tau Targeting Biomimetics Nano Formulations: Novel Approach for Targeting Alzheimer’s Diseases**, submitted for publication in **Central Nervous System Agents in Medicinal Chemistry**, Scopus, 1875-6166.
22. Singh A, Ansari VA, Haider MF, Ahsan F, Mahmood T, Wasim R. Development and Evaluation of Topical Liposome Preparation of Flax Seed Oil and Tamarind Seed Oil against Skin-Protective Activity. **Pharmaceutical Chemistry Journal**. Springer, (Scopus), 2023 Oct 17:1-4, [I.F 1.063].
23. Deepa Neopane, Vaseem A Ansari, Aditya Singh, Review article published on **Ferulic acid: Signaling Pathways in Aging “Drug Research”** 2194-9379, Scopus (IF: 2.2).
24. Singh A, Maheshwari S, Vishwakarma VK, Mohammed S. **Co-Processed Excipients: Advances and Future Trends** Intelligent Pharmacy. 2023 Oct 17. In Press, Elsevier
25. Singh A, Ansari VA, Haider MF, Ahsan F, Mahmood T, Wasim R, SM, Development and Evaluation of topical liposomal preparation of Walnut oil and tamarind seed oil against ageing, in journal **Intelligent Pharmacy**, Elsevier.
26. Singh A, Maheshwari S, Development and Evaluation of Curcumin-based Transfersosomal Gel for Wound Healing, Current Cosmetic Science, 2023: e180923221194DOI: <http://dx.doi.org/10.2174/2666779702666230918094033.2666-7800>
27. Singh A, Maheshwari S Formulation, development and evaluation of Woodfordia fruticosa and  $\beta$ -sitosterol mediated silver nanoparticles gel for synergistic effect, Intelligent Pharmacy. In Press, Elsevier.
28. Singh A, Maheshwari S, **Dendrimers: Patents for Alzheimer’s Disease**, in Journal **Recent Patents on nanotechnology**, 2212-4020 04 October, 2023, <http://dx.doi.org/10.2174/1872210517666230831154408> (IF 2).
29. Wasim R, Mahmood T, Shamim A, Ahsan F, Singh A. **Metaphorical investigation of aqueous distillate of Cichorium intybus, Foeniculum vulgare and Solanum nigrum along with**

**atorvastatin and orlistat in experimental rodent models of dyslipidaemia and obesity.** Intelligent Pharmacy. 2024 Sep 19. Elsevier

- 30. Shubhrat Maheshwari, Aditya Singh” Lipid-Based Nanocarriers in the Management of Pulmonary Complications in Cystic Fibrosis”** 1875-6387 BMS-CRMR- Published 03 November, 2023 , IF 0.2.
- 31. 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).
- 32. Aditya Singh,** Vaseem A Ansari, Tarique Mahmood, Farogh Ahsan, Rufaida Wasim. BMS-CNSNDDT-2022-124 entitled **“Emerging Nanotechnology for the treatment of Alzheimer’s”** (IF: 2.8). 10.2174/1871527322666230501232815. Epub ahead of print. PMID: 37138478. 1996-3181
- 33. Aditya Singh,** Vaseem A Ansari, Tarique Mahmood, Farogh Ahsan, Rufaida Wasim, **Consequence of Dementia and Cognitive Impairment by Nucleation Pathways in the journal of Hormone and Metabolic Research** (2023); 55(5), 304–314 (IF: 2.93).
- 34. 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.
- 35. Aditya Singh** with 5 authors, research article **“DEVELOPMENT AND EVALUATION OF CURCUMIN LOADED NIOSOMAL GEL FOR WOUND HEALING IN RATS”**, **Bentham current cosmetic science.** Volume 2, 2023, 04 October, 2023, e270723219218, <http://dx.doi.org/10.2174/2666779702666230727124252>.
- 36. 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.
- 37. Aditya Singh,** review article **“Menacing Chronicle of Covid-19 Patient”** International Journal of Pharma Professional’s Research. International Journal of Pharma Professional’s Research.
- 38. Aditya Singh,** review article **“Delta plus: A New Variant of Corona Virus”** International Journal of Pharma Professional’s Research.
- 39. Singh A,** Maheshwari S, Shukla S, Kumar A, Jain N, Jain N. **STUDY OF NANO-RIFABUTIN LOADED GLUCAN PARTICLE IN MYCOBACTERIAL TUBERCULOSIS.** NeuroQuantology. 2022;20(4):1698.
- 40. Shukla S,** Kumar A, Bhadauria SS, Maheshwari S, Yadav JP, **Singh A,** Kumar A, Jain N, Jain N. **A DIFFERENT PERSPECTIVE FOR DIFFERENT DISEASES: MICROSPONGES.** NeuroQuantology. 2022;20(5):5582.
- 41. Maheshwari S,** **Singh A,** Yadav JP, Kumar A, Kumar A, Jain N, Jain N. **Neurotrophic Factor Signaling in Neurological Disorders: Implications for Disease Pathogenesis and Therapy.** NeuroQuantology. 2022;20(5):5593.



42. Shubhrat Maheshwari, **Aditya Singh**, Jagat Pal Yadav, Abhishek Kumar, Somesh Shukla, Akhilesh Kumar, Neeraj Jain, Neelam Jain, **Liposomal Drug Delivery for Brain Tumor Therapy: Challenges and Opportunitie**, *NeuroQuantology*| April 2022| Volume20 | Issue 4 | Page 1675-1687|doi: 10.48047/nq.2022.20.4.nq22404.
43. Maheshwari S, **Singh A**, Yadav JP, Bhadauria SS, Shukla S, Kumar A, Jain N, Jain N. **Advancing Liposomal Drug Delivery in Alzheimer's disease: Current Insights and Future Perspectives**. *NeuroQuantology*. 2022;20(4):1688.
44. **Aditya Singh**, review article “**A Comprehensive review on COVID-19 Variant: Delta plus and Omicron Variant**” *International Journal of Pharma Professional’s Research*.
45. **Aditya Singh**. DENDRIMERS FOR NEURO TARGETING. *International Journal of Pharma Professional’s Research (IJPPR)*, 14(1), 124-130.
46. **Singh Aditya**, Ansari A. Vaseem\*, Mahmood Tarique, Ahsan Farogh, Wasim Rufaida. **Ursolic acid: Historical aspects to promising pharmacological actions for the treatment of central nervous system diseases**. *Current Cosmetic Science*, 2023; 2(1) : e200223213793 DOI: 10.2174/2666779702666230220111250.
47. **Aditya Singh**, Vaseem Ahamad Ansari\*, Tarique Mahmood, Farogh Ahsan, Rufaida Wasim. **Lipophilic PAMAM Dendrimer: Conceptualization of Targeted Cosmetics and Drug Delivery**. *Current Cosmetic Science*, 2022; doi:10.2174/2666779701666220907092152
48. **Aditya Singh**, Vaseem Ahamad Ansari\*, Tarique Mahmood, Farogh Ahsan, Rufaida Wasim. **Neurodegeneration: Microglia: Nf-Kappab Signaling Pathways**. *Drug Research*, 2022; 72: 1– 4 doi: 10.1055/a-1915-4861 (IF 2.2) **2194-9379**.
49. **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; 2022; 72: 1–7 doi: 10.1055/a-1886-3208. Epub ahead of print. PubMed ID: 35931069. (IF 2.2).
50. 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) 0024-3205.
51. 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). 0018-5043
52. **Aditya Singh**, Vaseem A. Ansari\*, Farogh Ahsan, Juber Akhtar, Poonam Khushwaha, Shubhrat Maheshwari, Rufaida. **Viridescent Concoction of Genstein Tendentious Silver Nanoparticles for Breast Cancer**. *Research Journal of Pharmacy and Technology*. 2021; 14(5):2867-2 **0974-3618**

53. 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).
54. **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.
55. **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.
56. **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.
57. **Aditya Singh** article published on Extraction, Development and characterization of Tamarind seed oil-based liposomes in IJPR 2020.
58. **Aditya Singh**, Herbanutraceuticals heal and regain the human health. ISSN 2277-7105.
59. **Aditya Singh**, Zuber Akhtar, Antifungal Marker. *WJPR*, 2019; ISSN 2277-7105.

#### Book

1. **Book Published** entitled “**Advanced Drug deliveries for Alzheimer’s Disease**” by **Empyreal Publishing house and ISBN: 978-81-967311-3-7**.

#### Book Proposals Accepted

1. Book proposal accepted entitled ‘Liposomes: The Amphiphilic Targeted Delivery’ as an editor in Apple Academic Press, a Taylor and Francis Group.
2. Book proposal accepted entitled ‘Dendrimers: The Future of Neurotargeting’ as an editor in Apple Academic Press, a Taylor and Francis Group.
3. Book proposal accepted entitled ‘Advances in Pharmacological and Toxicological Screening: Methods, Techniques, and Applications’ as an editor in Apple Academic Press, a Taylor and Francis Group.
4. Book proposal accepted entitled ‘Carbon Nanodots: The Future of Targeted Delivery’ as an editor in Apple Academic Press, a Taylor and Francis Group.

#### Book chapters

1. The chapter 8 entitled “**Processing of Sustainable Biomaterials by Additive Manufacturing Methods** in book **Advances in Sustainable Biomaterials**, ISBN numb 9781003434313, **CRC Press**.
2. **Book Chapter 9** entitled “**Upconversion core shell nanoconstructs for cancer theragnostics**, (Accepted).

3. **Book Chapter 15** entitled **Epigenetics as diagnostic and therapeutic tool in neurodegenerative disorders** [https://doi.org/10.2174/9789815238754124010011\(Published\)](https://doi.org/10.2174/9789815238754124010011(Published)) Scopus, Bentham.
4. Book Chapter 1 entitled “**Nanotechnology- based management of cardiovascular disease**” in book **Emergence of sustainable biomaterials in tackling inflammatory diseases** (accepted).
5. Book Chapter 2 entitled “**Emergence of Nanomaterials in the Management of Multiple Sclerosis**” in book **Emergence of sustainable biomaterials in tackling inflammatory diseases** (accepted).
6. Book Chapter 9 entitled “**Role of metal-based nanoparticles in psoriasis**” in book “**Psoriasis: Disease and Advance Drug Delivery**” in Bentham book (accepted).
7. Book Chapter 3 entitled “**Nanomaterial in the Management of Diabetes**” in book **Emergence of sustainable biomaterials in tackling inflammatory diseases** (accepted).
8. Book Chapter 22 entitled **Cellular Symphony: Harmonizing Therapeutic Approaches for Alzheimer Disease through Targeted Intervention Strategies** in book **Cellular and Molecular Mechanism in Alzheimer's Disease Therapeutics (Accepted)**.
9. The chapter 1 entitled “**Biopolymer Composites for Sustainable and Green Technology** in book **Advances in Sustainable Biomaterials**, ISBN numb 9781003434313.
10. The chapter 14 entitled “**Polymeric Biomaterials for Potential Pharmaceutical and Biomedical Applications** in book **Advances in Sustainable Biomaterials**, ISBN numb 9781003434313.
11. The chapter 5 entitled “**Lignocellulose-Based Sustainable Biomaterials in the Fabrication of Pharmaceutical Products** in book **Advances in Sustainable Biomaterials**, ISBN numb 9781003434313.
12. The chapter 23 titled “**Pharmacokinetics and Pharmacodynamics of Various Novel Formulations Targeting Alzheimer’s Disease**” in the book, page numb: 402-391, **Alzheimer's Disease and Advanced Drug Delivery Strategies** by Singh A et al., Published in Academic Press, Science Direct, Elsevier Inc. **ISBN 978-0-443-13205-6. ISBN 9780443132056 .**
13. The chapter 14 titled": **DENDRIMERS IN THE MANAGEMENT OF ALZHEIMER’S DISEASE"** in the book, page numb: 235-251, **Alzheimer's Disease and Advanced Drug Delivery Strategies** by Singh A et al., Published in Academic Press, Science Direct, Elsevier Inc. **ISBN 978-0-443-13205-6.**
14. **Book Chapter 13** entitled “**Dendrimers in Alzheimer’s disease: Current State and Future Directions**” to the book **IIPBook Series "IIPV3EBS16\_G35 Futuristic Trends in Pharmacy & Nursing"** e-ISBN: 978-93-6252-515-4. IIP Series.
15. The chapter 3 entitled “**Therapeutic Impact of Exosomes in Stroke and Transient Ischemic Attack**” in book “**Exosomes Based Drug Delivery Strategies for Brain Disorders**” Springer Nature. 9789819983728, 981998372X.



- 16. Book Chapter “Therapeutic Potential of Gut Microbiota in Metabolic Disorders” in Synbiotics in metabolic disorders mechanisms, Therapeutic potential and future prospective, Routledge, Taylor and Francis Group. ISBN numb 9781032702414, 1032702419.**
- 17. 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, ISBN numb 9781779640048.**
- 18. 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 ISBN numb 9781779640048.**
- 19. Book Chapter 9 accepted entitled “Polymeric nanoparticles in treating cystic fibrosis” in book “Cystic Fibrosis- Disease and Advanced Drug Delivery Systems” by Apple Academic Press, Taylor and Francis. (Ongoing Publication Stage).**
- 20. Book Chapter accepted entitled “An Overview on Processed Excipients” in book “Processed Excipients in Advanced Drug Delivery” Apple Academic Press/Taylor and Francis Group ISBN numb 9781779640048.**
- 21. Book Chapter 4 section II “Computational attitudes to Drug Discovery in Alzheimer’s disease” in book - Computational Neuropharmacology: Advances and Prospectives, by Willey publishers. ISBN 1394242441, 9781394242443.**
- 22. Book Chapter “Liposomes in Cancer Therapy: Current State and Future Directions” in book Liposomes: Advances in Research and Applications (Nova Science publishers). ISBN: 979-8-89113-636-6.**
- 23. Book Chapter 4 section I “The integration of molecular docking and machine learning in drug discovery for neurological disorders” in book “Computational Neuropharmacology: Advances and Prospectives”, by Willey publishers. ISBN 1394242441, 9781394242443.**
- 24. Book Chapter Published “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. Participated in **Online Faculty Development Programme** on the theme entitled “**PHARMACY EDUCATION & RESEARCH –PRESENT & FUTURE CHALLENGES**” held from 1 st July - 6 th July 2024, organized by Faculty of Pharmacy, Desh Bhagat University Mandi Gobindgrah, Punjab, India Desh Bhagat University.
2. RESOURCE PERSON, PDP Faculty of Pharmacy Organized 2nd Professional Development Programme (PDP) On the theme “Strategies to Overcome Challenges in Drug Development” from 12-17 December, 2023.
3. Attended an **Symposium** organized by Era University” International Symposium on **genomics in Cardiovascular health**” 2/28/2024.
4. Member of organizing committee in **International Conference on Novel Paradigms in Pharmaceutical Sciences, -An Approach for Healthier World**, Integral University, Lucknow, March 9-10, 2024.
5. **Poster Presentation** entitled “**Molecular Docking Analysis of Ursolic Acid-Loaded PAMAM G0 Dendrimers against Dementia Signaling protein 2ENS**” in the conference on drug Develoment & Drug Delivery: An **International Conference**, CD-2023 held at Institute of Pharmaceutical Sciences, Faculty of Engineering & Technology, **University of Lucknow on 21<sup>st</sup> & 22<sup>nd</sup> November 2023**.
6. **Online Poster Presentation** on “**Role of Dendrimers in the Alzheimer’s**”, Ref. no. **NPPRD2023Online/121**, **International Conference on new paradigms in pharmaceutical research**

**and development (NPPRD 2023) (February 2728, 2023) Organized by Institute of Pharmacy, Bundelkhand University, Jhansi, Uttar Pradesh, India.**

7. National Webinar on **Pharmacovigilance** of ASU & H Drugs on 12 November 2021 at Central Research Institute of Unani Medicine.
8. 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.
9. Symposium on gender equality and health promotion in women’s organized by Integral University, Lucknow-22 Aug 2022.
10. Attended 15 days Induction event organized by **Integral University, Lucknow**-October 2022.
11. Participated in a workshop on **Hands-on workshop on LCMS/MS** in Clinical Proteomics organized by Department of Biotechnology, ERA University Lucknow.
12. 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.
13. 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.
14. 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.
15. 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).
16. Participated in the International conference on Recent Advances in Engineeering & 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.
17. 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**.
18. 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**.
19. 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**.

20. Participated in the Fiesta on the **Technical poster Presentation**, organized by Faculty of Pharmacy, **Integral University Lucknow**.
21. 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.
22. Participated in the Diamond Jubilee Bioinformatics Workshop, **“Transcriptomics Data Analysis: Bioinformatics Perspective”** organized by **CSIR-CIMAP Lucknow**.
23. Participated in **Buck up India** organized by Faculty of Pharmacy, **Integral University, Lucknow**.
24. Participated in **Prescriptio** organized by Faculty of Pharmacy, **Integral University, Lucknow**.
25. 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**.
26. 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)**.
27. 5th International Conference 2021 at **BBAU** on Innovative Approaches in Applied Sciences and technology presented paper online mode oral on the topic of Transfersomes gel of Adenium obesum for wound healing.
28. Participated at AMIPHORIA in 2019 organized by **Amity University**.
29. Attended National Seminar on Intellectual Property Rights on 30th August at **CRIUM**, Lucknow UP.
30. **1 day** Industrial visit at QuadLifescience Pvt. Ltd, 19.03.2018.
31. **1 month** Industrial training, Genson Pharma Pvt. Ltd, 04.03.2017.
32. **45 days** Hospital training at “LBRN” Combined hospital, Kanpur Road, Lucknow. (2017)

## **EXTRA-CURRICULAR ACTIVITIES & ACHIEVEMENTS**

- National Pharmacovigilance week- (2023) 17-23 September, Organizing member organized by adverse drug reaction monitoring centre faculty of pharmacy & IIMSR, Integral University, Lucknow.
- 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: 30 December 2023

Place: Lucknow

Aditya Singh

(Aditya Singh)