

Chapter 9

PUBLICATIONS

Publications based on the thesis:

1. **MohiniMishra**, Rinki Verma, Aditya Sharma, Krishan Kumar, and Ruchi Chawla. 2024. Evaluation of Gemcitabine and Epigallocatechin-3-Gallate Loaded Solid Lipid Nanoparticles on Benzopyrene Induced Lung Cancer Model Via Intranasal Route: Improved Pharmacokinetics and Safety Profile. *AAPS PharmSciTech* 25. AAPS PharmSciTech. <https://doi.org/10.1208/S12249-024-02892-W>.

2. **MohiniMishra**, Kirti Wasnik, Aditya Sharma, Krishan Kumar, Rinki Verma, Pradip Paik, and Ruchi Chawla. 2024. Epigallocatechin-3-gallate Synergistically Inhibits the Proliferation of Lung Cancer Cells with Gemcitabine by Induction of Apoptosis Mediated by ROS Generation. *ACS Applied Bio Materials*. American Chemical Society. <https://doi.org/10.1021/ACSABM.4C00958>.

Other Publications:

3. **MohiniMishra**, Pramod Kumar, Jitendra Singh Rajawat, Ruchi Malik, Gitanjali Sharma, and Amit Modgil. 2019. Nanotechnology: Revolutionizing the Science of Drug Delivery. *Current Pharmaceutical Design* 24: 5086–5107. <https://doi.org/10.2174/1381612825666190206222415>.

4. **MohiniMishra**, and Kaisar Raza. 2021. Design of Experiments for the Development of Transdermal Drug Products. *Design of Experiments for Pharmaceutical Product Development*. Springer Singapore: 57–67. https://doi.org/10.1007/978-981-33-4351-1_4.

5. Ruchi Chawla, Varsha Rani, **Mohini Mishra**, and Krishan Kumar. 2021. Integrated Role of Nanotechnology and Pharmacogenetics in Diagnosis and Treatment of Diseases. *Pharmacogenetics*. IntechOpen. <https://doi.org/10.5772/INTECHOPEN.97643>.

6. RuchiChawla, Varsha Rani, and **Mohini Mishra**. 2021. Nanoparticulate Carriers—Versatile Delivery Systems. *Nanopharmaceutical Advanced Delivery Systems*. John Wiley & Sons, Ltd: 31–54. <https://doi.org/10.1002/9781119711698.CH2>.
7. Ruchi Chawla, Rupesh Patel, and **Mohini Mishra**. 2021. Development and Validation of Ion Exchange Chromatographic Method for the Quality Control of Extract of Hordeum Vulgare. *Acta Scientific Pharmaceutical Sciences* 5: 2581–5423.
8. RuchiChawla, Bhupendra Sahu, **Mohini Mishra**, Varsha Rani, and Rashmi Singh. 2022. Intranasal micellar curcumin for the treatment of chronic asthma. *Journal of Drug Delivery Science and Technology* 67. Elsevier: 102922. <https://doi.org/10.1016/J.JDDST.2021.102922>.
9. Ruchi Chawla, Varsha Rani, **Mohini Mishra**, and Krishan Kumar. 2022. Computer Simulation and Modeling in Pharmacokinetics and Pharmacodynamics. *Computer Aided Pharmaceutics and Drug Delivery*. Springer, Singapore: 217–254. https://doi.org/10.1007/978-981-16-5180-9_8.
10. Krishan Kumar, Varsha Rani, **Mohini Mishra**, and Ruchi Chawla. 2022. New paradigm in combination therapy of siRNA with chemotherapeutic drugs for effective cancer therapy. *Current research in pharmacology and drug discovery*. <https://doi.org/10.1016/J.CRP HAR.2022.100103>.
11. RuchiChawla, Varsha Rani, and **Mohini Mishra**. 2022. Changing paradigms in the treatment of tuberculosis. *Indian Journal of Tuberculosis* 69. Elsevier: 389–403. <https://doi.org/10.1016/J.IJT B.2021.08.034>.
12. Ruchi Chawla, Venkatanaidu Karri, Varsha Rani, **Mohini Mishra**, and Krishan Kumar. 2022. Factorial Design-Based Nanocarrier Mediated Formulation of Efavirenz and Its Characterization. World Scientific Publishing Company. <https://doi.org/10.1142/S1793984422500027>.

13. Ruchi Chawla, Varsha Rani, Krishan Kumar, and **Mohini Mishra**. 2023. Repurposing Drugs: A New Paradigm and Hopes for Life-threatening Diseases. *Drug Repurposing Against SARS-CoV-2*. BENTHAM SCIENCE PUBLISHERS: 1–24. <https://doi.org/10.2174/9789815123197123010004>.
14. Krishan Kumar, Shiv Govind Rawat, Manjit, **Mohini Mishra**, Priya, Ajay Kumar, and Ruchi Chawla. 2023. Dual targeting pH responsive chitosan nanoparticles for enhanced active cellular internalization of gemcitabine in non-small cell lung cancer. *International Journal of Biological Macromolecules*. Elsevier: 126057. <https://doi.org/10.1016/J.IJBIOMAC.2023.126057>.
15. RuchiChawla, Krishan Kumar, **Mohini Mishra**, and Varsha Rani. 2023. COVID-19 Therapy. *Interaction of Coronavirus Disease 2019 with other Infectious and Systemic Diseases*. CRC Press: 127–163. <https://doi.org/10.1201/9781003324911-14>.
16. Krishan Kumar, Rinki Verma, Manjit, Priya, **Mohini Mishra**, Varsha Rani, and Ruchi Chawla. 2024. In Vivo Cancer Microenvironment Responsive Glycan Receptor-Targeted Nanoparticles for Gemcitabine Delivery to Benzo[a]pyrene-Induced Lung Cancer Model. *AAPS PharmSciTech* 25. Springer Science and Business Media Deutschland GmbH: 1–14. <https://doi.org/10.1208/S12249-023-02714-5/FIGURES/8>.
17. **Mohini Mishra**, Md Abul Barkat, Charu Misra, Abdulkareem Ali Alanezi, Amena Ali, Nishtha Chaurawal, Abuzer Ali, Simran Preet, Harshita Barkat, and Kaisar Raza. 2024. Lipid-based microemulsion gel for the topical delivery of methotrexate: an optimized, rheologically acceptable formulation with conducive dermatokinetics. *Archives of Dermatological Research* 316. Springer Nature: 1–17. <https://doi.org/10.1007/S00403-024-03140-8/TABLES/11>.

18. Krishan Kumar, Manjit Saini, Varsha Rani, **Mohini Mishra**, Priya, Jatin, Siddharth Tiwari, Brahmeshwar Mishra, and Ruchi Chawla. 2025. Crafting a Molecular Trojan Horse: Sialic Acid-Modified PLGA Nanoparticles for Targeted Lung Cancer Therapy. *Molecular pharmaceutics*. Mol Pharm. <https://doi.org/10.1021/ACS.MOLPHARMACEUT.4C00957>.