

Mohini Mishra

Female, 31 Years

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EDUCATIONAL QUALIFICATIONS

Ph.D. (Pharmaceutics)	Indian Institute of Technology, BHU	8.20 CGPA	Thesis Submitted
M.Pharm	Central University of Rajasthan	8.23 CGPA	2019
B.Pharm	M.J.P. Rohilkhand University	79.60%	2017
Class XII, CBSE	Kendriya Vidyalaya No.2 JLA, Bareilly	75.80%	2011
Class X, CBSE	Kendriya Vidyalaya No.2 JLA, Bareilly	79.40%	2009

DST WISE INTERNSHIP IN IPR (erstwhile WOS-C Scientist) 2023

Jan '24 – Jan '25

Law Firm	Remfry & Sagar, Gurgaon, Haryana
Roles	<ul style="list-style-type: none">Patent search.Draft patent applications.Prepare FER responses and written statements.Prepare controller letters and client letters.
Learnings	<ul style="list-style-type: none">Patent drafting and patent prosecution

ACADEMIC & CO-CURRICULAR ACHIEVEMENTS / AWARDS

<ul style="list-style-type: none">Selected for DST WISE INTERNSHIP in IPR (erstwhile WOS-C Scientist) 2023.	2023
<ul style="list-style-type: none">Presented an oral presentation at the International Conference on Translational Research (ICTR) 2023 at AIIMS New Delhi.	2023
<ul style="list-style-type: none">Received an Appreciation Award for my oral presentation at The International Conference on Translational Research (ICTR) 2023 at AIIMS New Delhi.	2023
<ul style="list-style-type: none">Presented a poster at the International Conference on Molecular Basis of Diseases and Therapeutics (ICMBDT) 2019	2019
<ul style="list-style-type: none">Qualified Graduate Pharmacy Aptitude Test (GPAT) 2017	2017
<ul style="list-style-type: none">Qualified Central Universities Common Entrance Test (CUCET) 2017	2017

SUMMER INTERNSHIP

PIL Pharmaceuticals Pvt Ltd. Haridwar		Manufacturing of tablets, capsules and dry syrups of Amoxicillin	June '16 – Aug '16
Roles	<ul style="list-style-type: none">▪ Member intern of QA & QC team of the organization▪ Regular management of the logs		
Learnings	<ul style="list-style-type: none">▪ Understanding of various components of manufacturing and packaging of tablets, capsules, and dry syrups.		

PROJECTS

Central University of Rajasthan	Design, development and characterization of lipid- based nanocarriers of Methotrexate employing QbD optimization	July '18-Jan '19
	<ul style="list-style-type: none">Used Design-expert software for the QbD optimization.Lipid-based formulations were prepared and characterized for drug release, drug loading, entrapment efficiency, and cell line studies.	
Central University of Rajasthan	Development and characterization of organogels	Jan '19-May '19
	<ul style="list-style-type: none">Evaluated the potential of organogels to be used for delivery of drugs into the body.	
Publications	<ul style="list-style-type: none">Mishra, M., Kumar, P., Rajawat, J. S., Malik, R., Sharma, G., & Modgil, A. (2019). Nanotechnology: Revolutionizing the Science of Drug Delivery. <i>Current Pharmaceutical Design</i>, 24(43), 5086–5107. https://doi.org/10.2174/1381612825666190206222415Mishra, M., & Raza, K. (2021). Design of Experiments for the Development of Transdermal Drug	

Products. *Design of Experiments for Pharmaceutical Product Development*, 57–67.

https://doi.org/10.1007/978-981-33-4351-1_4

- Chawla, R., Rani, V., Mishra, M., Kumar, K. (2021). Integrated Role of Nanotechnology and Pharmacogenetics in Diagnosis and Treatment of Diseases. *Pharmacogenetics*.
<https://doi.org/10.5772/INTECHOPEN.97643>
- Chawla, R., Patel, R., & Mishra, M. (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. <https://actascientific.com/ASPS/pdf/ASPS-05-0645.pdf>
- Chawla, R., Rani, V., & Mishra, M. (2021). Nanoparticulate Carriers—Versatile Delivery Systems. *Nanopharmaceutical Advanced Delivery Systems*, 31–54.
<https://doi.org/10.1002/9781119711698.CH2>
- Chawla, R., Rani, V., & Mishra, M. (2022). Changing paradigms in the treatment of tuberculosis. *Indian Journal of Tuberculosis*, 69(4), 389–403. <https://doi.org/10.1016/J.IJTb.2021.08.034>
- Chawla, R., Rani, V., Mishra, M., & Kumar, K. (2022). Computer Simulation and Modeling in Pharmacokinetics and Pharmacodynamics. *Computer Aided Pharmaceutics and Drug Delivery*, 217–254. https://doi.org/10.1007/978-981-16-5180-9_8
- Chawla, R., Sahu, B., Mishra, M., Rani, V., & Singh, R. (2022). Intranasal micellar curcumin for the treatment of chronic asthma. *Journal of Drug Delivery Science and Technology*, 67, 102922. <https://doi.org/10.1016/J.JDDST.2021.102922>
- Kumar, K., Rani, V., Mishra, M., & Chawla, R. (2022). New paradigm in combination therapy of siRNA with chemotherapeutic drugs for effective cancer therapy. *Current Research in Pharmacology and Drug Discovery*, 3. <https://doi.org/10.1016/J.CRPHAR.2022.100103>
- Chawla, R., Karri, V., Rani, V., Mishra, M., & Kumar, K. (2022). Factorial Design-Based Nanocarrier Mediated Formulation of Efavirenz and Its Characterization.
<https://doi.org/10.1142/S1793984422500027>
- Kumar K, Rawat SG, Manjit, Mishra M, Priya, Kumar A, et al. Dual targeting pH responsive chitosan nanoparticles for enhanced active cellular internalization of gemcitabine in non-small cell lung cancer. *Int J Biol Macromol* [Internet]. 2023 Jul 29;126057.
<https://doi.org/10.1016/j.ijbiomac.2023.126057>
- Kumar K, Verma R, Manjit, Priya, Mishra M, Rani V, et al. In Vivo Cancer Microenvironment Responsive Glycan Receptor-Targeted Nanoparticles for Gemcitabine Delivery to Benzo[a]pyrene-Induced Lung Cancer Model. *AAPS PharmSciTech*. 2024 Jan 1;25(1):1–14.
<https://link.springer.com/article/10.1208/s12249-023-02714-5>
- Chawla R, Rani V, Kumar K, Mishra M. Repurposing Drugs: A New Paradigm and Hopes for Life-threatening Diseases. *Drug Repurposing Against SARS-CoV-2*. 2023 Apr 12;1–24.
<http://dx.doi.org/10.2174/9789815123197123010004>
- Chawla R, Kumar K, Mishra M, Rani V. COVID-19 Therapy. *Interact Coronavirus Dis 2019 with other Infect Syst Dis*. 2023 Sep 8;127–63. <https://doi.org/10.1201/9781003324911-14>
- Mishra M, Verma R, Sharma A, Kumar K, Chawla R. 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*. 2024 Aug 1;25(6). <https://pubmed.ncbi.nlm.nih.gov/39085673/>
- Mishra M, Wasnik K, Sharma A, Kumar K, Verma R, Paik P, et al. Epigallocatechin-3-gallate Synergistically Inhibits the Proliferation of Lung Cancer Cells with Gemcitabine by Induction of Apoptosis Mediated by ROS Generation. *ACS Appl Bio Mater* [Internet]. 2024 Sep 27.
<https://pubs.acs.org/doi/abs/10.1021/acsabm.4c00958>
- A proceeding in the abstract book of International Conference on Molecular Basis of Diseases and Therapeutics (ICMBDT) 2019.

Patents	A patent application has been filed on the <i>Title: A NANOPARTICLE-BASED COMPOSITION AND A METHOD OF PREPARATION THEREOF</i> <i>Patent Application No.: 202311074704</i>
Social links	https://www.researchgate.net/profile/Mohini-Mishra-2 www.linkedin.com/in/mohini-mishra-ab2677259 https://orcid.org/0000-0002-6685-1129

EXTRA-CURRICULAR ACTIVITIES

- Proficient in MS Word, MS Excel and MS PowerPoint.
- Hands on experience with UV & IR Spectrophotometry and HPLC with sound knowledge of NMR and other laboratory utility instruments viz., lyophilizer, ultracentrifuge, rotatory evaporator, high speed mixer, etc.