

## BIODATA

### **Dr. Deepak Choudhary, PhD, M. Pharm**

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Google Scholar Details: **h-index: 5, i10-index: 4, Citations: 142**

<https://scholar.google.co.in/citations?user=NdwAvSIAAAAJ&hl=en>

**RESEARCH INTEREST:** Solubility Enhancement, Nanomedicine, Novel Drug Delivery, SNEDDS, bioavailability enhancement, NLCs.

## Projects

- **Co-Principle Investigator RUSA Project 50 Lakhs**, on “Design, Development and Characterization of Oral Nanoformulations for Treatment of Cancer” (Ongoing)
- Completed **UGC start-up project** worth 6 lakhs as **Principle Investigator, 2016**.

## Professional Experience

**Academic & Research Experience: 14 Years.**

**Academic Qualifications:** M Pharm (Pharmaceutics), PhD

PhD: JNU, Jodhpur, Rajasthan (2010-2014)

M Pharm: ASBASJSM College of Pharmacy, Punjab Technical University, Jalandhar (2007-2009)

B Pharm: Lachoo Memorial College of Science and Technology, Jodhpur, University of Rajasthan (2001-2006)

## Patents

1. Design Patent “Horizontal Multipass Condenser”. Dr. Shailendra Sharma, Dr. Deepak Choudhary, Dr. Mangilal Chouhan, Dr. Mukesh Kumar Meena, Ms. Supriya Singh, Vivak Bhati Granted on 6<sup>th</sup> October 2023.
2. “Antidiabetic Agents, Composition and Process for preparing the same”. **Choudhary D.**; Bhandari A.; Sharma S.; Puri D; Ram V; 860/DEL/2014A, 403715, Indian Patent granted on 17<sup>th</sup> August 2022.
3. “System for producing magnetic iron oxide nanoparticles from the leaf extract of Carrisa Carandas”. **Choudhary, Deepak**; Kaur, Arvinder; Manjunath, Kavya; Maratha, Sushma; Murthy, Shilpa; Paramesh, Deepa Bagur; Singh, Deepika; Sinha, Sweta; Wani, Vipin Kumar; William, Neha Ronald. German Patent Granted on 21<sup>st</sup> July 2022.

## Publications

### Research Papers:

1. S Sharma, A Kanugo, T Kaur, **D Choudhary**. Formulation and Characterization of Self-Microemulsifying Drug Delivery System (SMEDDS) of Sertraline Hydrochloride. *Recent Patents on Nanotechnology*, 18 (1), 3 – 16, 2024. (**Impact Factor: 2.321**)
2. KS Yadav, G Soni, **D Choudhary**, A Khanduri, A Bhandari, G Joshi. Microemulsions for Enhancing Drug Delivery of Hydrophilic Drugs: Exploring Various Routes of Administration, *Medicine in Drug Discovery*, 100162
3. K Chatterjee, S Lakdawala, SS Quadir, D Puri, DK Mishra, G Joshi, Sanjay Sharma, **Deepak Choudhary**. siRNA-Based Novel Therapeutic Strategies to Improve Effectiveness of Antivirals: An Insight, *AAPS PharmSciTech* 24 (6), 170 (**IF4.02**)
4. SS Quadir, V Saharan, **D Choudhary**, Harish, CP Jain, **G Joshi**. Nano-strategies as Oral Drug Delivery Platforms for Treatment of Cancer: Challenges and Future Perspectives. *AAPS PharmSciTech* 23 (5), 1-21, 2022. (**IF-4.02**)
5. N Sharma, S Kumar, G Joshi, **D Choudhary**. Formulation and characterization of febuxostat loaded nanostructured lipid carriers (NLCs)-gel for topical treatment of gout. *Recent Patents on Nanotechnology* 16 (3), 250-258, 2022. (**IF-2.23**)
6. G Joshi, Mitali Patel, **Deepak Choudhary**, KK Sawant, Preparation and surface modification of polymeric nanoparticles for drug delivery: state of the art, *Recent patents on drug delivery and formulation*, *Bentham* 14(3), 201-213, 2020

7. AV, Deepika Singh, **Deepak Chaudhary**, Vikas Kumar. Amelioration of diethylnitrosamine (DEN) induced renal oxidative stress and inflammation by Carissa carandas embedded silver nanoparticles in rodents. *Toxicology Reports* 8, 2021, 636-645.
8. MK Meena, **D Choudhary**, M Chouhan, P Shukla and SK Sinha. Enhancement Of Solubility and Dissolution Rate of Erlotinib Hydrochloride by Solid Dispersion Technique with Poloxamer 188: Preparation and In-Vitro Evaluation. *IJPSR*, 2020; Vol. 11(1): 387-393.
9. Dinesh Puri, Anil Bhandari, Praveen K. Gaur, Mohammad Yasir, S. Sadish Kumar, **Deepak Choudhary**, Prasoon K Saxena. Formulation of Herbal fast Disintegrating Tablets and its ex-vivo study for Anti Histaminic Activity in Guinea Pig Ileum. *Current Clinical Pharmacology*. 2018, 13(2),128-135. **(IF: 1.2)**
10. **Deepak Choudhary**, Sameer Gangal, Dinesh Puri. Solubility enhancement of fenofibrate by modified locust bean gum using solid dispersion techniques. *Asian Pacific Journal of Health Sciences*. 2018, 5(2), 224-230.
11. Puri Dinesh, **Choudhary Deepak**, Bhandari Anil, Gaur Kumar Praveen, Yasir Mohd. Formulation and its in-vitro Antifungal study of *Fagonia Schweinfurthii Hadidi* Extract Cream. *Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences*. 2018, 4(5), 386-395.
12. Sharma Navni, **Choudhary Deepak**, and Kumar Sandeep. Nanoparticles: Fundamental and Prospectives. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*. 2018, 9(4), 152-164.
13. **Choudhary D**, Kumar S, Gupta GD. Enhancement of Solubility and Dissolution of Glipizide by Solid Dispersion (kneading) Technique. *Asian J. Pharmaceutics*. 2009, 3(3), 245-251. **(Impact Factor: 1)**
14. Patel P, Puri D, Bhandari A, **Choudhary D**, Sharma R, Bhatele V. Formulation and Evaluation of Chronomodulated Floating Drug Delivery System of Famotidine. *FABAD J. Pharm. Sci.*, 2011, 36, 167-180. **(Impact Factor: 1)**
15. **Choudhary D**, Puri D, Bhandari A, Sharma R. Solid Dispersion: An Approach for Solubility Enhancement of Poorly Water Soluble Drugs. *Inventi Rapid: Pharm Tech.*, 2011, 2 (1).
16. Puri D, **Choudhary D**, Bhandari A, Sharma S, Sharma S, Sharma R. Development and validation of UV Spectroscopic Method for The estimation of Aqueous Extract of *Fagonia Schweinfurthii Hadidi*. *International Research Journal of Pharmacy.*, 2014, 5(2), 109-114.
17. Sharma R, **Choudhary D**, Bhandari A, Verma R, Ranawat MS. A Comparative Study of novel Super Disintegrating agent, Guar Gum to existing Super Disintegrating agent, Sodium Starch Glycolate on Release Rate of Drug from Fast Dissolving Tablet. *Journal of Pure and*

Applied Sciences and Technology 2013, 3(2), 16-24.

18. . Prajapat RP, Gupta V, Soni B, **Choudhary D**, Bhandari A, Ram V. Extraction and Isolation of Marmelosin from *Aegle Marmelos*, Synthesis and Evaluation of Their Derivative as Antidiabetic Agent. *Der Pharmacia Lettre*, 2012, 4 (4),1085-1092.
19. . Prajapat RP, Soni B, Ranawat MS, Bhandari A, **Choudhary D**, Sharma R. Synthesis and Evaluation of Some New Benzimidazole Derivatives as Potential Antimicrobial Agents. *Pharmacie Globale (IJCP)*, 2012, 9 (05).
20. Puri D, **Choudhary D**, Bhandari A, Sharma P. Lipid Nanoparticles (SLN, NLC): A Novel Approach for Cosmetic and Dermal Pharmaceutical. *Journal of Global Pharma Technology*, 2009, 1-15.
21. Sharma S, **Choudhary D**, Bhandari A, Sharma R. Pharmacognostical and Phytochemical analysis of leaf part of the Medicinal Herb: *Zaleya govindia*. *R. Int. J. Drug Dev. & Res.*, 2014, 6(1), 153-159.

#### **BOOK CHAPTERS:**

1. **Deepak Choudhary**, Dinesh Puri, Sheikh Shahnawaz Quadir, Garima Joshi, Supriya Singh, Sanket Kumar, Mangilal Chouhan. Polymeric (PLGA based) nano composites for application in drug delivery in Bioresorbable Polymers and their Composites, ELSEVIER, 2024.
2. Dinesh Puri, **Deepak Choudhary**, Mohd Yasir, Rosaline Mishra, Sanjay Sharma, Radha Goel, Praveen K. Gaur A prospective utilization of biodegradable polymers for controlled drug-delivery Applications in Bioresorbable Polymers and their Composites, ELSEVIER, 2024.
3. Dinesh Puri, Sheikh Shahnawaz Quadir, Garima Joshi, Deepak Choudhary, Monika Singh, Sanket Kumar, Shalini K. Sawhney. Bioresorbable polymer-based composites for wound healing in Bioresorbable Polymers and their Composites, ELSEVIER, 2024.

### **Oral/ Poster Presentations**

1. Oral paper Presented “Brain targeted nano drug delivery system” International Conference **IBRO-APRC Associate School of neuroscience at MLSU**, Udaipur, Rajasthan. Aug. 2019
2. Poster Presented: “Development of S-SEDDS for improving the solubility of Poorly

- soluble drugs.” National Conference on Recent advancement in drug discovery and Development at GIP, Udaipur, Rajasthan. Feb. 2017.
3. Poster Presented: “Impact of nanotechnology on drug delivery.” National Conference on Modern Trends in Chemical Sciences at MLSU, Udaipur, 30 & 31 January 2016.
  4. Poster Presented: “Role of regulatory agency in pharmaceutical Industry” National Conference on Current status of regulatory affairs for Pharmaceuticals at BNCP, Udaipur, September 2016.
  5. Poster Presented: “Impact of the Pharmaceutical Packaging on environment”. 10th-DGSI International Geography conference-2015 at MLSU, Udaipur, 17 & 18 oct. 2015.
  6. Poster Presented: “Formulation and evaluation of SMEEDS of Fenofibrate for solubility enhancement” at Association of Pharmaceutical Teachers of India-Rajasthan State Branch (RAJAPTICON-2015), Organized by: Pacific University, Udaipur, Rajasthan (India), (Feb. 2015)
  7. Poster Presented: Formulation and In-Vitro Evaluation of Meloxicam Gel. P.T.U. Sponsored, National Seminar on “Recent Advances in Oral Controlled Drug Delivery System”. ASBASJSM COP Bela (Ropar) Punjab. Oct. 2011.
  8. Poster Presented: Preparation and Characterization of Glipizide Solid Dispersion with Poloxamer 407. National Conference on Innovations in Drug Discovery and Research, Punjabi University, Patiala, March 2009
  9. Poster Presented: Preparation and Characterization of Glipizide Solid Dispersion with Poloxamer188. 60th, Indian Pharmaceutical Congress, New Delhi, December 2008.
  10. Poster Presented: Hydrogels- A Promising Tool in Drug Delivery AICTE Sponsored, National level Seminar on, Nano-Colloidal Carriers: Site Specific and Controlled Drug Delivery, Moga, Oct. 2008.
  11. Poster Presented: Solubility Enhancement Strategies for Poorly Water-Soluble Drugs by Solid Dispersion: A Review 13thAPTI Annual National Convention, Bilaspur, Chhattisgarh, October, 2008.

## Research Experience and Projects Handled

**On-going Project:** Received from **RUSA** state government agency worth **50 lakhs as Co-principle investigator:** “Design, Development and Characterization of Oral Nanoformulations for Treatment of Cancer” at department of pharmaceutical sciences, MLSU, Udaipur

**Completed Project:** Received UGC start up project worth 6 lakhs for newly recruited faculty on permanent Position at University, As Principle Investigator: “Formulation and Evaluation of Self Micro-emulsifying Drug Delivery System of Some Poorly Water-Soluble Drugs”.