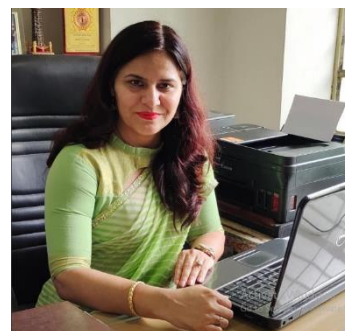


## BIODATA

### **Dr. Garima Joshi PhD, M. Pharm**

Assistant Professor,  
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Google Scholar Details: **h-index: 11, i10-index: 11, Citations: 619**

<https://scholar.google.co.in/citations?user=NwxT0GwAAAAJ&hl=en>

**VISION:** To make a challenging presence in the field of pharmaceutical research and academics by consistent learning, that encourages growth and development by utilizing technical expertise, innovative & novel approaches for drug delivery systems.

**RESEARCH INTEREST:** Novel Drug Delivery, Oral drug delivery for anticancer drugs through nanoformulation, bioavailability enhancement, polymeric nanoparticles, lipid based nanocarriers.

## Projects and Scholarships

- **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, 2015**.
- **Awarded with DBT international travel grant** for poster presentation at 4<sup>th</sup> BIONANOMED conference on Nanomedicine and Biology organized by Department of Nanomedicine, **Danube University, Krems, Austria (EUROPE), 2013**.
- **Awarded with DST and ICMR International Travel Grant** for poster presentation at **Nanotech 2012, Santa Clara, California, USA**.
- Recipient of **National Doctoral Fellowship** from All India Council for Technical Education (AICTE), New Delhi for the Ph.D. Project (2009-2012).
- Recipient of **Junior Research Fellowship** from All India Council for Technical Education (AICTE) for M. Pharm research (2004-2006).

## Awards

- **Indian Drug Manufacturer Association (IDMA) Award 2003** for holding first position in Bachelor of Pharmacy from **University of Rajasthan**.
- **GOLDMEDAL** in Bachelor of Pharmacy by **Chief Minister of Rajasthan -Ashok Gehlot, 2003**.
- **BP Nagori GOLD MEDAL** at Lachoo Memorial College of Pharmacy Jodhpur for holding **first position at University of Rajasthan**.
- **BHAMASHAH award (GOLD MEDAL)** by Maharana Mewar Foundation, Udaipur for holding **first rank in Bachelor of Pharmacy** at University of Rajasthan in 2003.
- **Qualified GATE with 94.98 percentile (All India Rank 367)** in Pharmaceutical Sciences conducted by IIT Chennai in 2003.
- **Second Merritt** for post graduate degree (M. Pharm) from Mohanlal Sukhadia University, Udaipur, Rajasthan 2006.

## Professional Experience

**Academic & Research Experience: 13 Years.**

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

PhD: The Maharaja SayajiRao University of Baroda, Gujarat (2009-2013)

M Pharm: BN College of Pharmacy, Mohanlal Sukhadia University, Udaipur (2004-2006)

B Pharm: Lachoo Memorial College of Science and Technology, Jodhpur, University of Rajasthan (1997-2002)

## Publications

### Research Papers:

1. 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
2. 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**)
3. M Kumar, K Seth, S Choudhary, G Kumawat, S Nigam, **G Joshi**, Toxicity evaluation of iron oxide nanoparticles to freshwater cyanobacteria *Nostoc ellipsosporum*, **Environmental Science and Pollution Research** 30 (19), 55742-55755 (**IF 5.8**)
4. M Chouhan, LS Chauhan, **G Joshi**. Formulation and Evaluation of Microspheres of Canagliflozine by Solvent Evaporation Method, **European Chemical Bulletin** 12 (Special Issue), 2663-2681
5. H Raut, C Jadhav, K Shetty, N Laxane, HP Nijhawan, GSNK Rao, **G Joshi**, KS Yadav, Sorafenib tosylate novel drug delivery systems: Implications of nanotechnology in both approved and unapproved indications. **OpenNano** 8, 100103
6. 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**)
7. 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**)
8. **G Joshi**, SS Quadir, KS Yadav. Road map to the treatment of neglected tropical diseases: Nanocarriers interventions. **Journal of Controlled Release** 339, 51-74, 2021. (**IF-11.46**)
9. **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
10. **Garima Joshi**, Abhinesh Kumar, Krutika Sawant. Enhanced Bioavailability and intestinal uptake of PLGA Nanoparticles of Lopinavir. **Drug Delivery (Impact Factor 4.5)**, Taylor and Francis, 2016

11. CP Jain, **Garima Joshi**, Udichi Kataria, Komal Patel, Enhanced permeation of antiemetic drug from buccoadhesive Tablets by using Bile salts as Permeation Enhancers: Formulation, Characterization, *in vitro* and *ex vivo* studies. **Sci Pharm**, **Doi:10.3797/scipharm.1505-15. (IF 1.5) 2016.**
12. **Garima Joshi**, Abhinesh Kumar, Krutika Sawant. Orally delivered Gemcitabine HCl loaded nanoparticles. **European Journal of Pharmaceutical Sciences, ELSEVIER (Impact factor 3.4) 2014.**
13. Umang Shah, **Garima Joshi**, Krutika Sawant. Improvement in antihypertensive and antianginal effects of felodipine by enhanced absorption from PLGA nanoparticles optimized by factorial design. **Material science and Engineering C, Elsevier, 35, 153-163, 2013 (Impact factor 3.08).**
14. Sandip Chavhan, **Garima Joshi**, Kailash Petkar, Krutika Sawant. Enhanced hypolipidemic activity of simvastatin by particle size engineering, **Biochemical Engineering Journal, Elsevier, 79 (2013) 221– 229. (Impact factor 3.01)**
15. Krishna Thakar, **Garima Joshi**, and Krutika Sawant. Bioavailability enhancement of Baclofen by Gastroretentive Floating Formulation: Statistical Optimization, *in vitro* and *in vivo* Pharmacokinetic studies, **Drug Dev Industrial Pharmacy, 2012. DOI: 10.3109/03639045.2012.709249. (Impact factor 2.1)**
16. Jigar Modi, **Garima Joshi**, Krutika Sawant. Chitosan based mucoadhesive nanoparticles of Ketoconazole for bioavailability enhancement: formulation, optimization, *in vitro* and *ex vivo* evaluation. **Drug Dev Industrial pharmacy, 2012. DOI:10.3109/03639045.2012.666978, (Impact factor 2.1)**
17. **Garima Joshi**, Krutika Sawant, Orally delivered polymeric nanoparticles of Lopinavir : Development, statistical optimization, *in vitro* and *ex vivo* studies, **NSTI- Nanotech 2012, CRC Press, ISBN-978-1-4665-6276-9, 3, 2012, (BOOK SERIES)**
18. Nilamgiri Goswami, **Garima Joshi**, Krutika Sawant. Floating Microspheres of Valacyclovir HCl: Formulation, optimization, characterization, *in vitro* and *in vivo* floatability studies, **Journal of pharmacy and bio allied sciences 2012 DOI:10.4103/0975-7406.94118.**
19. Yuveraj Singh Tanwar\*, Pushpendra Singh Naruka, **Garima Rani Ojha**. Development and evaluation of floating microspheres of verapamil hydrochloride, **Brazilian journal of pharmaceutical sciences, 43(4), 2007, 529-534.**
20. **Garima Ojha**, Y.S. Tanwar\*, C.S. Chauhan and P.S. Naruka. Floating Microspheres: Development, Characterization and Applications, *Pharma info.net*, 4 (3), 2006.

### **BOOK CHAPTERS:**

1. **G Joshi**, KS Yadav. Applications of bioresins and biopolymers derived from natural resources as composites in drug delivery in Green Sustainable Process for Chemical and Environmental Engineering and Science, ELSEVIER, 21-34, 2023
2. **G Joshi**, Mitali Patel, Krutika Sawant. Chapter 13-Lymphatic Drug Delivery in Controlled and Novel Drug Delivery Edited by Prof. NK Jain, 2023.
3. **G Joshi**, V Sharma, R Saxena, KS Yadav. Polylactic coglycolic acid (PLGA)-based green materials for drug delivery in Applications of Advanced Green Materials, ELSEVIER, 425-440, 2021
4. M Patel, **G Joshi**, KK Sawant. Nanotechnology in oral drug delivery: Salient aspects, state of art, and applications in Functional Bionanomaterials: From Biomolecules to Nanoparticles, SPRINGER 165-184, 2020.
5. R Maheshwari, **G Joshi**, DK Mishra, RK Tekade. Bionanotechnology in pharmaceutical research in Basic fundamentals of drug delivery, ELSEVIER 449-471, 2019

### **International Presentations and Travels**

1. Sheikh Shahnawaz Quadir, **Garima Joshi**, Formulation, Characterization and Cellular uptake of Nanostructured Lipid Carriers (NLCs of Gemcitabine HCl for Treatment of Cancer. Presented at **11<sup>th</sup> BIONANOMED 2023 at University of GRAZ, Austria.**
2. **Garima Joshi**, Krutika Sawant. Orally delivered polymeric nanoparticles of Gemcitabine HCl presented at **4<sup>th</sup> BioNanomed 2013 at Danube University, Krems, Austria.**
3. **Garima Joshi**, Krutika Sawant. Orally delivered polymeric nanoparticles of Lopinavir: Development, statistical optimization, in vitro and ex vivo studies presented at **Nanotech 2012, 18- 21 June 2012, Santa Clara, California, USA**
4. Umang Shah, **Garima Joshi**, Krutika Sawant. “Felodipine loaded PLGA nanoparticles: formulation, statistical optimization and Pharmacodynamic studies”, presented at **12<sup>th</sup> international symposium on advances in technology and business potential of New Drug Delivery Systems, organized by Controlled Release Society –Indian Chapter, 2012, at Mumbai, India.**

## As Resource Person and Hands on TRAINER

1. Participated as **Resource Person for Quality by Design in Pharmaceuticals** in Two day AICTE sponsored National Seminar at Lachoo Memorial College of Sci. and Technology, Jodhpur on 24-25 Jan 2014.
2. Participated as **Resource Person for Application of Nanotechnology in Pharmaceutical Sciences** in Two day National conference by AICTE at B. N. College of Pharmacy, Udaipur on 23-24 Dec 2013.
3. Participated as **Hands on TRAINER on Polymeric Nanoparticles** in 5 day, DBT sponsored **workshop on Nanoconstructs** organized by The M S university of Baroda under **DBT- ILSPARE project**, Vadodara on 26- 30 march 2012.

## Research Experience and Projects Handled

**On-going Project:** Received from **RUSA** state government agency worth **50 lakhs** as **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 characterization of lectin anchored microspheres. at department of pharmaceutical sciences, MLSU, Udaipur

**PhD (As National Doctoral Fellow, AICTE; 2009-2013):** “Formulation and Characterization of Polymeric Nanoparticles for Improving Bioavailability of some Anticancer and Anti HIV agents”. The prime objective of the study was to formulate orally delivered Nanoparticulate formulations for improvement of oral bioavailability by targeting to M cells of Peyer’s patches of intestine. Study included the extensive studies on cell cultures and in vivo bioavailability studies in rats. Under the guidance of Prof. Krutika Sawant

**M. Pharm (As Junior Research Fellow, AICTE; 2003-2005):** “Development and Evaluation of Floating Microspheres of Verapamil HCl”. Under guidance of Prof Y. S. Tanwar, B. N. College of Pharmacy, Udaipur, Rajasthan.

**Handled Drug information centre of Rajasthan Pharmacy Council (2007-2009** located at LBS College of pharmacy, Jaipur under **WHO INDIA -PROJECT.**