

# Swati Sharma

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## RESEARCH EXPERIENCE:

- ✓ Developed a biopolymer based wound dressing for the effective drug loading and cell grafting.
- ✓ Dissertation completed under the title “Quality-by-Design approach for the development of osmotic tablets using pre-fabricated semipermeable membrane shells as a substitute of coating process”
- ✓ One-month training in Manufacturing and Quality Assurance at Exotic Laboratory Pvt. Ltd., Godhara, Gujarat.
- ✓ Minor research project completed at graduation level with title: Use of traditional drug in gynaecological disorder.

## PUBLICATIONS:

- ✓ Development of an in-situ forming, self-healing scaffold for dermal wound healing: in-vitro and in-vivo studies. **Swati Sharma**, Harishkumar madhyastha, K Laxmi Swetha, Kavyasree Marijvala, Radha madhyastha, Yuichi Nakajima, Aniruddha Roy. *Materials Science and Engineering: C* Volume 128, September 2021, 112263
- ✓ Design and dermatokinetic evaluation of Apremilast loaded nanostructured lipid carriers embedded gel for topical delivery: A potential approach for improved permeation and prolong skin deposition R. Vamshi Krishna, **Swati Sharma**, Aniruddha roy, Gautam singhvi, *Colloids and Surfaces B: Biointerfaces* Volume 206, October 2021, 111945
- ✓ Solid lipid nanocarriers embedded hydrogel for topical delivery of apremilast: In-vitro, ex-vivo, dermatopharmacokinetic and anti-psoriatic evaluation, R. Vamshi Krishna, **Swati Sharma**, Aniruddha roy, Gautam singhvi, *Journal of Drug Delivery Science and Technology* Volume 63, June 2021, 102442
- ✓ A comprehensive review of the strategies to improve oral drug absorption with special emphasis on the cellular and molecular mechanisms Tanmay Padhye, Kavyasree Marijvala, K.Laxmi Swetha **Swati Sharma** *Journal of Drug Delivery Science and Technology* Volume 61, February 2021, 102178
- ✓ Development of a tumor extracellular pH-responsive nanocarrier by terminal histidine conjugation in a star shaped poly(lactic-co-glycolic acid), K.L. Swetha, Kavyasree Marijvala, **Swati Sharma** *European Polymer Journal* Volume 147, 15 March 2021, 110337
- ✓ Development of a size-tunable paclitaxel micelle using a microfluidic-based system and evaluation of its in-vitro efficacy and intracellular delivery, K.L. Swetha, Kavyasree Marijvala, **Swati Sharma** *Journal of Drug Delivery Science and Technology* Volume 60, December 2020, 102041
- ✓ Curcumin loaded nanostructured lipid carriers for enhanced skin retained topical delivery: optimization, scale-up, in-vitro characterization and assessment of ex-vivo skin deposition, R. Vamshi Krishna, **Swati Sharma**, Aniruddha roy, Gautam singhvi, *European Journal of Pharmaceutical Sciences* Volume 152, 1 September 2020, 105438
- ✓ Disulfiram potentiates docetaxel cytotoxicity in breast cancer cells through enhanced

ROS and autophagy, K.L. Swetha, Kavyasree Marijvala, **Swati Sharma** *Pharmacological Reports* Volume 72,2020, pages1749–1765.

- ✓ Chitosan-Chondroitin sulfate based polyelectrolyte complex for effective management of chronic wounds Swati Sharma, K.L. Swetha, A. Roy *International Journal of Biological Macromolecules* Volume 132, 1 July 2019, Pages 97-108
- ✓ Published an article in **Journal of Innovation in Applied Sciences**, ISSN:2028-9324, under title: **Use of traditional drug in gynaecological disorder**.

## PATENTS

- ✓ Indian patent (201811035517). *Formulation on wound healing*
- ✓ Indian patent (201911050058). In situ biopolymeric scaffold for cell grafting.

## ACADEMIC QUALIFICATIONS:

- ✓ **PhD, Pharmaceutics** (2018-ongoing) from Birla Institute of Technology & Science, Pilani, Pilani.
- ✓ **M. Pharmacy** (2016) (Pharmaceutics Department) from Anand Pharmacy College, Anand **CGPA: 8.47**
- ✓ **B. Pharmacy** (2014) from Anand Pharmacy College, Anand **CGPA: 8.53**
- ✓ **HSC** (2010) from Jawahar Navodaya Vidyalaya, Dahod, CBSE, **64%**
- ✓ **SSC** (2008) from Jawahar Navodaya Vidyalaya, Dahod, CBSE **79%**

## ACHIEVEMENTS:

- ✓ Awarded with **Shri Premchand Jain Memorial Young Scientist Award'2017** for the M. Pharmacy dissertation work held at ADINA Institute of Pharmaceutical Sciences, Sagar, M.P.
- ✓ GPAT qualified.
- ✓ Scholarship for 2<sup>nd</sup> rank in M. Pharmacy and B. Pharmacy at Anand Pharmacy College, Anand

## SEMINARS ATTENDED

- ✓ Attended and presented poster in an International International Conference on Life Science Research & its Interface with Engineering and Allied Sciences,2018 with title “Chitosan- chondroitin sulfate based polyelectrolyte complex for effective management of chronic wounds.”
- ✓ Attended workshop on “Quality Metrics-Future need of Pharmaceutical industry for marketing drug products in regulated market” held at Anand Pharmacy College, Anand, Gujarat, India
- ✓ Poster presentation at 61<sup>st</sup> world congress held at Hyderabad, India.
- ✓ GUJCOST sponsored national seminar on “Quality-by-Design: Recent perspective on process development and implementation” at L. J. College of Pharmacy, Ahmedabad.
- ✓ TEQIP-II sponsored short term training program on “Advanced analytical techniques for materials characterization (AATMC-2015)” held at SVNIT, Surat.
- ✓ Poster presentation at GUJCOST sponsored one-day seminar on “Challenges and opportunities on nanotechnology-based drug delivery system” at Department of Pharmaceutics, Saurashtra University, Rajkot.
- ✓ Poster presentation at national level Pharma Carnival on “Road Map for strengthening Pharmacy Education in changing scenario” sponsored by AICTE Delhi at Sigma

- Institute, Vadodara.
- ✓ State Seminar on “Good Practices in Clinical Trial” sponsored by ICMR.
- ✓ Poster Presentation in Pharma Fiesta’13 organized by Anand Pharmacy College.

#### TECHNICAL SKILLS:

- ✓ Hands on in Vitro Cell culture techniques
- ✓ Rotary Tablet Mini Press (10 Station)
- ✓ Electrolab Dissolution Test Apparatus (6 Station)
- ✓ Electrolab Disintegration Test Apparatus
- ✓ UV Spectrophotometer (Shimadzu 1800)
- ✓ Spray Drier
- ✓ HPLC instrument
- ✓ Knowledge about Quality-by-Design approach- Current requirement of regulated pharma market.
- ✓ Hands on Design Expert and Minitab software

#### COMPUTER PROFICIENCY

**Office Application:** MS Office, Basic Internet Proficiency.

#### EMPLOYMENT RECORD TOTAL EXPERIENCE:

INDUSTRY/ INSTITUTE	DESIGNATION	Work Period	Total experience
Indukaka Ipcowala College of Pharmacy	Assistant professor	23/8/2016 to 24/6/2017	10 months
Institute of Pharmacy- Nirma University	Junior Research Fellow	27/6/2017 to 12/9/2017	2.5 months

#### PERSONAL DETAILS

Name	Swati Shivdayal Sharma
Date of birth	July 30, 1992
Gender	Female
Marital status	Unmarried
Languages known	English, Hindi, and Gujarat

#### REFERENCES:

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