


## Research Fellow

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<b>Qualification</b>	M. Pharm.	
<b>PCI Registration No.</b>	G67388	
<b>Research Topic</b>	Assessing the Role of Functional Excipients on Freeze Drying of Nano Pharmaceuticals and its Impact on Product Characteristics	
<b>Guide Name</b>	Dr. Manju Misra	
<b>Co-Guide Name</b>	Dr. Sanjay Chauhan	

<b>Profile</b>	<p>I am currently associated with School of pharmacy, Gujarat Technological University as full-time research scholar. I am completed B. Pharm. &amp; M. Pharm. from Gujarat Technological University with specialization in pharmaceuticals regulatory affairs on “REGULATORY REQUIREMENTS AND PREPARATION OF DRAFT BIOSIMILAR APPLICATION OF ADALIMUMAB 40MG/0.4ML PREFILLED SYRINGE FOR RHEUMATOID ARTHRITIS FOR USFDA SUBMISSION”. Currently i am working on optimization of freeze-drying process and screening of functional excipients they affected on freeze drying process. I primarily work on preparation of different pharmaceutical dosage form like Oral/ Parenteral/ Oculars/ NDDS as per cGMP guideline and Regulatory approval in different countries as per ICH M4 Guideline. Secured Gold Medal in M. Pharm. in all patni sunni jamat Qaume Bawahir Federation year of 2021. I have 9 month of experience in Sehat Pharma PVT LTD as a Officer post in manufacturing department.</p>

<b>Teaching / Lab Details</b>	<p>I am instrumental in setting up entire Pharmaceutics department and played key role in several academic and administrative responsibilities including, as subject co-ordinator for Communication Skills in B. Pharm./ Regulatory aspects of herbal and biologicals in M. Pharm. and mentoring 2 M. Pharm. students.</p>
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<b>Training / Workshop / Seminar Details</b>	<p><b>Seminar:</b></p> <ul style="list-style-type: none"> <li>✓ Poster Presentation Indian Pharmaceutical Congress, Nagpur in Jan'23 : Impact of cryoprotectant types and levels on crystal habit modification of Posaconazole nanosuspension upon lyophilization.</li> <li>✓ Research Article published in Multidisciplinary International Research Journal of GTU Title: ISOLATION AND CHARACTERIZATION OF SELECTIVE HERBAL MARKERS FROM GARCINIA INDICA EXTRACT (April'23)</li> </ul>
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- ✓ Management committee member in "Educational Visit of Heritage Sites (Modhera, Patan)" on 15th May 2023 organized by Dharohar - Center for Indian Knowledge System. (May'23)
- ✓ Approval SMS Scheme-GTU (Title: Vegetable Nutraceutical products for pet animal) Amount -25000/- (June'23)
- ✓ Participate in Lyoconference 2023 organized by Biopharma group. (July'23)
- ✓ Visited semiconindia 2023. (July'23)
- ✓ Participate in webinar of Lyobeads: Unlocking the future of freeze-drying organized by biopharma group. (July'23)
- ✓ Participated in A digital twin for scale up of lyophilization. (July'23)
- ✓ Participated in event organized by NDLI club (Event name: Save Earth Save Nature & Quot). (July'23)
- ✓ Participated in Paryavaran Sanrakshan Gativithi: National Students Paryavaran Competition "Ek ped Desh ke Naam". (July'23)
- ✓ Visited PharmaTech & LabTech Expo 2023 (August'23)
- ✓ Give the expert session at GSP-GTU on 15 September (Topic: Freeze drying of Mannitol-Trehalose-Sodium chloride-based formulation: The impact of annealing o dry layer resistance to mass transfer and cake structure. (Sep'23)
- ✓ Participated in webinar organized by biopharma group. (How formulation & process development addresses the challenges of freeze drying biological sample) Sep'23
- ✓ Poster presentation in international conference organized by Nirma University on Assessing the impact of functional excipients on critical characteristics of posaconazole nanocrystals during lyophilization. (Feb'24)
- ✓ Poster presentation in national conference organized by R.K. University on Exploring Zein as Novel Excipient for the development of long acting formulation May'22

**Book Chapter:**

- Manju Misra, Mohammadhassan Harsoliya, Rutvi Shah and Janki Kakkad. Application of quality by design in microemulsion. Pharmaceutical Microemulsion for Parenteral Delivery From Bench to Bedside. Apple Academic Press;  
<https://www.appleacademicpress.com/pharmaceutical-microemulsions-for-parenteral-delivery-from-bench-to-bedside-/9781774916605>
- Manju Misra, Mohammadhassan Harsoliya, Dignesh Khunt; Ghee Microemulsion; Taylor and Francis Group; 1<sup>st</sup> edition ;2023; Page no. 23; eBook ISBN: 9781003228608  
<https://www.taylorfrancis.com/chapters/edit/10.1201/9781003228608-13/ghee-microemulsion-manju-misra-mohammadhassan-harsoliya-dignesh-khunt?context=ubx&refId=b4a909dd-d16c-476f-ab91-909a864c59a8>
- Dignesh Khunt, Bhavinkumar Gayakvad, Vidhi Modi, Manju Misra, Bhupendra Prajapati, Ravi Patel, Rajesh Patel, Mohammadhasan Harsoliya, Sanjay Chauhan; Solid Lipid nanoparticles; Taylorfrancis; 2023; pg 20; eBook ISBN: 9781003459811  
<https://www.taylorfrancis.com/chapters/edit/10.1201/9781003459811-2/solid-lipid-nanoparticles-dignesh-khunt-bhavinkumar-gayakvad-vidhi-modi-manju-misra-bhupendra-prajapati-ravi-patel-rajesh-patel-mohammadhassan-harsoliya-sanjay-chauhana>

**Grants :**

- Rs. 25,000/- Gujarat Technological University under Seed Money Scheme (06/07/2023).
- Rs. 2,00,000/- Student Start-up Innovation Policy 2.0 through GTU Innovation & Starup Center (22/08/2023).

**Training/Certificate Course :**

- Certificate Course on Computer Concepts (CCC) Arihant Softech Jan'13
- On Computer Concept (Ms-Office) Trojan Computer Center Mar'13
- Basic Animal Cell Cultural Technique Demonstration and Hand on Training AIC-GTU Aug'21
- TLC/HPTLC Training ANCHROM Mar'21
- Understanding Research and Statistical Analysis Using SPSS E&ICT - IIIT, Tiruchirapalli Mar'23
- Pharmaceutical R&D Ecosystem: from Bench to Market AICTE Training and Learning Academic Jan'22
- Academic Excellence through Leadership and Governance AICTE Training and Learning Academic Feb'22 -

**GUJARAT TECHNOLOGICAL UNIVERSITY**

**SCHOOL OF PHARMACY**