



Name: Mr. Tushar Dilip Morankar

Designation: Assistant Professor

Qualifications: M. Pharm, Ph.D. (Pursuing)

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Professional Experience:

- Working as an Assistant Professor from September 2025 at AISSMS College of Pharmacy, Pune-411001
- Worked as an Assistant Professor in the Dept of Pharmaceutics from Jan-2025 to Aug-2025 at Aarogya Sampada College of Pharmacy, Chalisgaon- 424101.
- Worked as an Assistant Professor in the Dept. of Pharmaceutics from Aug-2023 to Dec-2024 at Aditya Institute of Pharmacy, Chalisgaon- 424101.

Total Experience in Years:

- **Teaching:** 2 yr 3 Months.
- **Research:** NA

Areas of Interest (Based on Nanotechnology)

- **Solid Lipid Nanoparticles (SLNs)** – Formulation, optimization, and evaluation for targeted and controlled drug delivery.
- **In-situ Drug Delivery Technologies** – Development of responsive, site-specific nanocarrier systems for enhanced therapeutic efficacy.
- **Lipid-Based Drug Delivery Systems (LBDDS)** – Design and characterization of lipid-based formulations to improve solubility, stability, and bioavailability.
- **Nanotechnology in Pharmaceutics** – Application of nanoscale systems in formulation development, targeted delivery, and personalized medicine.
- **Characterization & Analytical Techniques** – Skilled in HPLC, UV-Visible Spectroscopy, FTIR, DSC, and particle size analysis for nanoparticle assessment.

- **In-vitro and In-vivo Studies** – Conducting biological evaluation of nanocarrier systems for drug release, cytotoxicity, and pharmacokinetic profiling.

Professional Affiliations:

- Registered Pharmacist of Maharashtra State Pharmacy Council. Registration No.: 242506.

Computer Proficiency:

- Certificate course in MS-CIT: An Information Technology (IT) literacy course by MKCL.
- Familiar with Windows Operating Systems and Microsoft Office.

Strengths:

- Quick learner, Result oriented, Positivity, Team player, Creative and innovative.

Awards/Achievement/Medals:

- Awarded Winner Prize in “Marathi Kavya Sammelan” at Satara.
- Secured Second Place in University Level AVISHKAR-2021 “First time reporting of Novel Cow Dung base product for potential Wound Dressing properties”
- Runner Prize in the Poster presentation competition at Diploma level in National Conference on“Recent Trends In Herbal Drug Technology” at Ashokrao Mane College of Pharmacy, Peth Vadgaon on 16th-17th February 2018.
- Won the Second Prize for “Pharma Short Play Competition” at KCT’s, Krishna College of Pharmacy, Malkapur-karad.
- Runner Prize in Pharma Drama competition held on occasion of World Pharmacist Day.
- Gold medalist for securing the first rank in D. Pharm. at AMIDIP,PethVadgaon.

Publications

Review Publications (02)

1. **Morankar, T. D., & Baviskar, K. D. (2025). Review: Solid Lipid Nanoparticles Based Nanogel for Dermal Delivery of Indomethacin. Indo American Journal of Pharmaceutical Sciences**, ISSN: 2349-7750. <https://doi.org/10.5281/zenodo.8254891>
Impact Factor: 7.187
2. **Morankar, T. D., Somvanshi, K. C., Abhavane, N. R., & Deshmukh, S. B. (2025). Utilization of Coconut Powder in the Formulation of Solid Lipid Nanoparticles (SLNs). International Journal of Creative and Innovative Research in All Studies**, 7(8), 1-3.

National Research Publications (01)

1. **Morankar, T. D., & Baviskar, K. D. (2025). *Formulation and Development of Solid Lipid Nanoparticles-Based Nanogel for Dermal Delivery of Indomethacin*. Journal of Xidian University, ISSN:1001-2400.DOI:10.37896/jxu17.8/056 Impact Factor: 5.4**

Patents & Industrial Design Applications (03)

1. Patent (Published)

Title: *Eco-Friendly Herbal Hand Wash Gel Containing Ficus racemosa Extract with Antibacterial Properties*

Application No.: 202521071127 A

Filed On: July 25, 2025 | **Publication Date:** August 8, 2025

Published In: *The Patent Office Journal No. 32/2025, Government of India*

Inventors: Avadhut D. Khot, Dipti A. Netake, **Tushar D. Morankar**, Aishwarya S. Pawar, Snnehaa D. Bhosle, Supriya S. Shete, Tejashree S. Khamkar, Swati N. Lade, Sushil S. Burle, Diksha S. Undirwade

Description: Developed a novel herbal hand wash gel formulated with *Ficus racemosa* extract exhibiting potent antibacterial and antioxidant activity. Provides an eco-friendly alternative to synthetic hand hygiene formulations.

2. Industrial Design Application (Under Process)

Title: *Device for Detecting Partition Coefficient of Drugs*

Design Application No.: 474894-001 | **CBR No.:** 221323 | **Date:** September 25, 2025

Applicants/Designers: Dr. Ladi Alik Kumar, Durgesh Ray, Brajesh K. Mishra, Radha Pal, Dr. Sanmati K. Jain, Dr. Hament Panwar, **Tushar D. Morankar**, Dr. Kousik Santra

Status: *Application Under Process (Awaiting Technical Examination)*

Description: Designed a novel analytical device for precise detection of drug partition coefficients, improving accuracy in pharmaceutical formulation research.

3. Industrial Design Application (Under Process)

Title: *Device for Developing Lipid-Based Nanoparticle*

Design Application No.: 474999-001 | **CBR No.:** 221398 | **Date:** September 26, 2025

Applicants/Designers: Vinay Bharadwaj Tatipamula, Durgesh Ray, Nookesh Kotipalli, Prof. Dr. Sunil Mistry, Dr. Sanmati K. Jain, **Tushar D. Morankar**, Dhanalaxmi Banavath, Dr. Kousik Santra

Status: *Application Under Process (Awaiting Technical Examination)*

Description: Developed an innovative laboratory device for the formulation and optimization of lipid-based nanoparticles, enhancing precision in nanopharmaceutical research.

WORKSHOPS/SEMINARS/CONFERENCES/FDP:

- We actively participated in the National Level Faculty Development Program On “Effective Case Study Writing for Academic Excellence” Sponsored by “Institutions Innovation Council (Ministry of Education Initiative)” at “Symbiosis Center for Distance Learning” held on July 27th, 2024.
- Presentation on “First time reporting of Novel Cow Dung base product for potential Wound Dressing properties” in 4th Sanjivani Avishkar-2020, A National Level Innovative Research Idea Competition for Budding Scientists held in 15th March 2020 at Sanjivani College of Pharmaceutical Education & Research, Kopargaon.
- Presentation on “Patient Counselling Importance For Patient Care Management”, National Level Technical Paper Presentation & model presentation competition at Shree Santkrupa Shikshan Sanstha’s College of Pharmacy, Ghogaon,karad,satara on 11th December 2018.
- Presentation on “Role of Pharmacist behind Patient Counselling”, Regional Level Paper Presentation competition at Dr. J.J.Magdum Trust’s, Dr. J.J. Magdum Pharmacy College, Jaysingpur on 30th October 2017.
- Presentation on “Are Generic Drugs Safe & Effective As Brand Name Drugs” State Level Technical Paper Presentation & model presentation competition held in 16th September 2017 at KCT’s, Krishna College of Pharmacy, Malkapur-karad.
- Presented poster entitled “ProNano: A Novel Nanoemulsion based Technology for Improved Parenteral Delivery of Propofol”, Avishkar 2019 Organised by Kaviyatri Bahinabai Chaudhari North Maharashtra University on 30th December 2019 at V.V.M’s S.G.Patil Arts,Science & Commerce College,Sakri .
- Presented poster entitled “Trabactidin: A Lead For Anti-Cancer”, National Level Conference on “Recent Trends In Herbal Drug Technology” at Ashokrao Mane College of Pharmacy, Peth Vadgaon on 16th-17th February 2018.
- Presented poster entitled “Patient Counselling: A Current Scenario”, Financially assisted by Anil Alias Pintu magdum memorial pharmacy College alumini association Dharangutti at Anil Alias Pintu magdum memorial pharmacy College , Dharangutti.
- Presented poster entitled “Trabactidin: A Lead For Anti-Cancer”, National Level Conference on “Recent Trends In Herbal Drug Technology” at Ashokrao Mane College of Pharmacy, Peth Vadgaon on 16th-17th February 2018.

Instrument Handled:

Laboratory Instruments Categorized by Function

1. Homogenization Equipment

- High-Pressure Homogenizer
- High-Speed Homogenizer
- Probe Sonicator

2. Centrifugation and Drying Equipment

- Ultracentrifuge
- Freeze Dryer
- Rotavac

3. Tablet Manufacturing and Mixing Equipment

- Rotary Tablet Compression Machine
- Bilayer Tablet Compression Machine
- Rapid Mixer Granulator

4. Dissolution and Coating Equipment

- Dissolution Test Apparatus
- Mathis Lab Dryer and Coater

5. Analytical and Characterization Instruments

- UV–Visible Spectrophotometer.
- HPLC (Jasco and Waters).
- Malvern Mastersizer.
- Infrared (IR) Spectroscopy.
- Differential Scanning Calorimetry (DSC).