



AISSMS

COLLEGE OF PHARMACY

IMPARTING EXCELLENCE IN EDUCATION & RESEARCH

Approved by AICTE & PCI New Delhi, Recognized by the Government of Maharashtra,
2F,12B recognition by UGC, Affiliated to Savitribai Phule Pune University
Accredited by NAAC with A Grade



Name: Dr. Mithun Badivadekar

Designation: Assistant Professor

Qualifications : M. Pharm, Ph.D

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PROFESSIONAL EXPERIENCE:

1. Golden Cross Pharma. Pvt. Ltd., Daman, India.

Supervisor: 2003, Supervise Tablet manufacturing, Pellet manufacturing and capsule filling

2. Hemchandraya North Gujarat University, Patan, North Gujarat, India

Himatnagar Kelavani Mandal's APMC College of Pharmaceuticals Education and Research, Himatnagar, Gujarat

Lecturer, 2005–2006, taught the course “Pharmaceutics I.” Designed course structure and requirements; lectured.

3. Shivaji University, Kolhapur, Maharashtra, India, Bharati Vidyapeeth's College of Pharmacy, Kolhapur, India

Lecturer, 2007, taught the course “Physical Pharmacy.” Created syllabus; lectured and administered grades.

4. Hemchandraya North Gujarat University, Patan, North Gujarat, India, B.S.Patel Pharmacy College, Mehsana, Gujarat, India

Lecturer, 2007–2008, taught the course “Pharmaceutical Analysis” Designed course structure and requirements; lectured.

5. University of Pune, Pune, Maharashtra, India

All India Shri Shivaji Memorial Society's College of Pharmacy

Assistant Professor 2008– till date Teaching the course at B.Pharm and M.Pharm designed course structure and requirements; lectured.

TOTAL EXPERIENCE IN YEARS:

- ❖ Teaching: 18 yrs.
- ❖ Industry: -- 5months

AREAS OF INTEREST:

Drug delivery expertise:

1. Microemulsion formulations for drug and vaccine delivery and their characterization with analytical techniques.
2. Expert in formulating Self-emulsifying drug delivery system for poorly soluble drug intended for oral use and their characterization with analytical techniques.
3. Expert in spray drying and freeze drying of pharmaceutical drug and protein product for enhance stability and performance.
4. Analytical techniques:
5. Well trained in method development and validation using analytical instruments like UV-spectrophotometer, HPLC, LC-MS.
6. Hands of experience in solid state characterization of API and drug product using technique like Infrared spectroscopy (FTIR), Differential scanning calorimeter (DSC), X-ray scattering technique, Thermo gravimetric analysis (TGA) and imaging techniques like SEM, TEM, Cryo-TEM
7. Cell Biology:
8. Expertise in cell culture, cell uptake studies, and cell viability assays (MTT).
9. In-vivo skills: Extensive experience in various in vivo techniques, aseptic survival surgery technique, handling and bio-distribution studies of mice and rats

M. PHARM STUDENTS GUIDED:--

- ❖ Approved as PG guide by Savitribai Phule Pune University (Total PG student guided 10)

PROFESSIONAL AFFILIATIONS:

- ❖ Registered Member: Maharashtra State Pharmacy Council
- ❖ Association of Pharmaceutical Teachers of India

PROJECTS HANDLED/GRANTS RECEIVED:

- ❖ No. of Funded Research Projects (University/Industry): 01
- ❖ Project funded by BCUD, University of Pune, India, Funds Rs. 2 lac.(2500 GBP)“Solid self- microemulsifying drug delivery system for improving dissolution profile of poorly soluble drug” 2010- 2012. **Completed. (Principal Investigator)**
- ❖ Collaborative research work with IRSHA (Interactive Research School of Health Affairs, Dhankawadi, Pune-43) “Cytotoxicity and permeation enhancement testing of microemulsion formulated with commonly used oils and surfactant”. 2008-2009. **Completed (Principal Investigator)**
- ❖ Collaborative research work with IRSHA (Interactive Research School of Health Affairs, Dhankawadi, Pune-43) “Taste masking of flax seed oil-Potent Antioxidants”. 2005-2006. **Completed (Principal Investigator)**
- ❖ Project sponsored by Venketeshwara group of Hatcheries, Pune, Maharashtra “Optimization of microemulsion formulation for *Lasota* vaccine for veterinary use”. 2005-2006. **Completed (Under supervision)**

INSTITUTIONAL AND ADMINISTRATIVE RESPONSIBILITIES:

- ❖ Working as Student development officer for Savitribai Phule Pune University
- ❖ Working as In-charge for Purchase
- ❖ Working as member for cultural committee
- ❖ Working as Journal printing in-charge
- ❖ Working as member for Quality Improvement Programme
- ❖ Working as member for IQAC
- ❖ Working as member for Institution's Innovation Council
- ❖ Working as In-charge Criteria 5 NAAC
- ❖ Working as member of Criteria 4 NAAC
- ❖ Working member for Admission committee

COURSE DONE:

- ❖ General course done on Intellectual Property Conducted by WIPO.
- ❖ Swayam course done of 12 week on Industrial pharmacy.
- ❖ Online Refresher course done of 12 week in pharmacy for Higher Education ARPIT 2020.
- ❖ Designing learner –centric e-learning in STEM disciplines course done of 4 week in 2020
- ❖ Industrial Pharmacy course done of H.N.B Garhwal University (A Central University) Srinagar Garhwal in 2019.

PUBLICATIONS:

- ❖ REVIEWS: 04
- ❖ NATIONAL RESEARCH PUBLICATIONS: 05
- ❖ INTERNATIONAL RESEARCH PUBLICATIONS: 4
- ❖ H index - 08
- ❖ i10 Index - 08
- ❖ No of Citations - 231

REVIEW PUBLICATIONS

1. **Bandivadekar M.M**, Pancholi S.S, Shelke N. Bandivadekar R.M. Microemulsion: Formulation concept and recent application in drug delivery. **Indian Drugs** 46(7) pp. 5-18. 2009.
2. **M. M Bandivadekar**, A. Mahajan, S.S. Pancholi , P.D. Bharadia, Industrial Bioreactor: A review **Pharma Bio World** 2007.
3. **Mithun Bandivadekar**, Ashok Mahajan, Dushyant Shah. Pharmacoeconomics: Considerations in health care management. **Pharma Times** – Vol 38 – No. 12 2006.
4. **Bandiwadekar Mithun** , Poul Sushant , Hankare Snehal. Review: Cyclodextrin Based Nanogel. International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211 Volume 9, Issue 8, August -2021

NATIONAL RESEARCH PUBLICATIONS

1. **Bandivadekar M.M.**, Pancholi, S. S., Shelke, N. Preparation and characterization of solid self microemulsifying drug delivery system by adsorbent technique to improve dissolution profile of poorly aqueous soluble drug Ramipril. **IRJP**. 2, 85-90. 2011.
2. **Bandivadekar M. M.**, Pancholi, S. S., Shelke, N. Oral bioavailability enhancement of a poor water soluble drug by cosurfactant free self-emulsifying drug delivery system (SEDDS). **Research J. Pharm. and Tech.** 4, 1557-1562. 2011.
3. Formulation and Evaluation of Cyclodextrin based Clotrimazole Nanogel, International Journal of Science & Engineering Development Research (www.ijedr.org), ISSN:2455-2631, Vol.8, Issue 7, page no.121 - 133, July-2023,
4. **Bhalekar MR, Pokale R, Bandivadekar M, Madgulkar A and Nagore P** Self Micro-Emulsifying Drug Delivery System for Lymphatic Uptake of Darunavir J Drug Discov Develop and Deliv - Volume 3 Issue 2 – 2016
5. S.S.Pisal, G.M. Wawde, **M.M. Bandivadekar**, A.A. Hajare, H.N. More, S.S. Kadam Vacuum foam drying for preservation of *Lasota virus*: Screening of foaming agent and cycle optimization. Indian Journal of Biotechnology vol. 5 pp 491-497. 2006.

INTERNATIONAL RESEARCH PUBLICATIONS

1. **Mithun Bandivadekar**, Shyamsundar Pancholi, Ruchika Kaul-Ghanekar, Amit Choudhari, Soumya Koppikar. Single non-ionic surfactant based self-nanoemulsifying drug delivery systems: formulation, characterization, cytotoxicity and permeability enhancement study. **Drug Development and Industrial Pharmacy**, Posted online on May 23, 2012. (doi:10.3109/03639045.2012.687745)
2. **Mithun Bandivadekar**, Shyamsundar Pancholi, Ruchika Kaul-Ghanekar, Amit Choudhari, Soumya Koppikar. Self-microemulsifying smaller molecular volume oil (Capmul MCM) using non-ionic surfactants: a delivery system for poorly water-soluble drug. **Drug Development and Industrial Pharmacy**. July 2012, Vol. 38, No.7, Pages 883-892 (doi:10.3109/03639045.2011.631548)
3. Sudhir T. Bansode, Sanjay J. Kshirsagar, Ashwini R. Madgulkar, Mangesh R. Balekar, **Mithun M. Bandivadekar**. Design and development of SMEDDS for colon specific drug delivery. **Drug Development and Industrial Pharmacy**, 2015 Jul 8:1-13
4. Madgulkar Ashwini, **Bandivadekar Mithun**, Shid Tanaji, Rao Shivani. Sugars as solid dispersion carrier to improve solubility and dissolution of the BCS class II drug: Clotrimazole. **Drug Development and Industrial Pharmacy**. Published online on April 15, 2015. (doi:10.3109/03639045.2015.1024683)

PRESENTATIONS:

❖ As an Author:

1. **Bandivadekar M.M**, Naik A.Y, Pisal S.S, Kadam. Design and optimization of microemulsion for *Lasota vaccine*. Scientific Oral Presentation Biotechnology and Bio therapeutics S.S. **57th Indian Pharmaceutical Congress**, Hyderabad, 2005.
2. **Bandivadekar M.M**, Pisal S.S, Pancholi S.S., Bandivadekar R.M. Optimization of Dioctyl Sodium Sul-fosuccinate (Aerosol-OT) microemulsion as carrier for *Lasota vaccine*. **9th International symposium on advance in technology and business potential of new drug delivery system, Mumbai. CRS- Indian Chapter. 2009**
3. **Mithun Bandivadekar**, Ashwini R. Madgulkar, Nagsen Shelke. Solid self microemulsifying drug delivery system by adsorbent technique to improves dissolution profile & stability of Ramipril. **62nd Indian Pharmaceutical Congress, Manipal, Udipi, 2010.**
4. Aishwarya J. Sambare, Ayush V. Sadanshive, Shraddha A. Chaskar, **Mithun M. Bandivadekar** Formulation and Evaluation of Gamma Cyclodextrin based Darunavir Ethanolate gel for Vaginal Delivery. **72th Indian Pharmaceutical Congress 2023 , Nagpur.**
5. Ayush V. Sadanshive , Aishwarya J. Sambare , Aditi S Jadhav, **Mithun M. Bandivadekar** Formulation and Evaluation of Nevirapine Nanogel for Vaginal Delivery. **72th Indian Pharmaceutical Congress 2023 , Nagpur.**
6. Ranjeet Padakanti, **Mithun Bandivadekar**, Syed Mubashir. Formulation and Evaluation of Gamma Hydroxypropyl B- Cyclodextrin based Darunavir Ethanolate nanogel for Vaginal Delivery. International Conference on Shaping the future of Pharma Industry: New Era Innovation in Biotechnology, Pharmaceutical Science and Bioscience organized by Operant Pharmacy Federation on 09th January 2020

PARTICIPATION AS RESOURCE FACULTY:

- 1. Self Microemulsifying Drug delivery system** –at Marathwada Mitramandal College of Pharmacy, Pune, on 31th March 2012