



## All India Shri Shivaji Memorial Society's

### College of Pharmacy, Kennedy Rd, Pune-411 001.

Establishment 1996; Affiliated to Savitribai Phule Pune University,

Approved by AICTE & Recognized by PCI

Accredited by NBA (B. Pharm Course); 2f/12B Recognition by UGC

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**Name:** Dr. Mithun Bandivadekar

**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. Hemchandranya 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. Hemchandranya 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 “Modern Dispensing Pharmacy” designed course structure and requirements; lectured.

## **TOTAL EXPERIENCE IN YEARS:**

- ❖ Teaching: 13 yrs.
- ❖ Industry: 5 months

## **AREAS OF INTEREST:**

### Drug delivery expertise:

Microemulsion formulations for drug and vaccine delivery and their characterization with analytical techniques.

Expert in formulating Self-emulsifying drug delivery system for poorly soluble drug intended for oral use and their characterization with analytical techniques.

Expert in spray drying and freeze drying of pharmaceutical drug and protein product for enhance stability and performance.

### Analytical techniques:

Well trained in method development and validation using analytical instruments like UV-spectrophotometer, HPLC, LC-MS.

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

### Cell Biology:

Expertise in cell culture, cell uptake studies, cell viability assays (MTT).

### 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

## **PROFESSIONAL AFFILIATIONS:**

- ❖ Registered Member: Maharashtra State Pharmacy Council

## PROJECTS HANDLED/GRANTS RECEIVED:

- ❖ No. of Inhouse Projects: --
- ❖ No. of Funded Research Projects (University/Industry): 01
- ❖ Amount of Research Grant Received: 2 Lakh

## INSTITUTIONAL AND ADMINISTRATIVE RESPONSIBILITIES:

- ❖ Working as Student development officer for Savitribai Phule Pune University
- ❖ Working as Staff member for Sports committee
- ❖ Working as Staff member for cultural committee
- ❖ Working as Journal printing in-charge
- ❖ Working as Staff member for Quality Improvement Programme

## PUBLICATIONS:

- ❖ REVIEWS: 03
- ❖ NATIONAL RESEARCH PUBLICATIONS: 02
- ❖ INTERNATIONAL RESEARCH PUBLICATIONS: 05
- ❖ H index - 04
- ❖ i10 Index - 03
- ❖ No of Citations - 55

## \*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.

### **\*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.

### **\*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,Pages883-892(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: 03

### ❖ 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. **57<sup>th</sup> 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*. **9<sup>th</sup> International symposium on advance in technology and business potential of new drug delivery system, Mumbai. CRS- Indian Chapter. 2009**
3. **Mithun Bandivadeker**, Ashwini R. Madgulkar, Nagsen Shelke. Solid self microemulsifying drug delivery system by adsorbent technique to improves dissolution profile & stability of Ramipril. **62<sup>nd</sup> Indian Pharmaceutical Congress, Manipal, Udipi, 2010.**

## PARTICIPATION AS RESOURCE FACULTY:

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

**Dr. Mithun Bandivadekar**