



Name : Dr. Sanjay Boldhane

Designation : Professor

Qualification : M. Pharm., Ph.D.

Specialization : Pharmaceutics

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Experience : 28 years

- Experience from well-esteemed organization in formulation development of solid dosage forms, sterile dosage forms and semi-solids, having exposure in areas viz. novel drug delivery system, and generic and complex generic product development for regulated and India market.
- **Oct'16 to Date: Micro Labs Ltd, Bangalore**
- **Designation: Sr. Vice President - Formulation Development**
- **Designations**
 - **Jul'21 to Jun'23 : Vice President - Formulation Development**
 - Jul'19 to Jun'21: Associate Vice President - Formulation Development
 - Oct'16 to Jun'19: Sr. General Manager – Formulation Development
- Heading the formulation development of Sterile and Solid Dosage forms for Regulated and India market, with
- team of 50 scientists.
- Planning the development of product till submission batches with coordination with sourcing, production, QA tech transfer and regulatory affairs departments.
- Sterile products: Regulated Market: US and EU
 - Development and Technology Transfer for Regulated and Domestic markets
 - Injectable - Solutions and Emulsion
 - Ophthalmic - Solutions, Micro-suspension, Nano-suspension, Ointments, and Gels

- Inhalations – Solutions
- Development of First-to-file products for US and Europe

- Research areas: Formulation Development
- Sterile products: Regulated Market: US and EU
- Drug Delivery Systems

IPR Expertise

- Literature search, prior art evaluation, interpretation of patent claims, selection of polymers and designing the alternate for patent non-infringing, controlled release system
- Patent drafting and coordinating with patent cell during office action and obviousness issues
- To design and development of patent non-infringement strategy
- Preparation of infringement opinion in coordination with IPR cell
- Interpretation of patented invention for obviousness and patentability

Research

Publications

1. **Boldhane S. P.**, Kuchekar B. S. 2009. "Gastroretentive Drug Delivery of Metformin Hydrochloride: Formulation and In Vitro Evaluation using 3^2 full factorial design". Current Drug Delivery, 6(5), 477-485.
2. **Boldhane S. P.**, Kuchekar B. S. 2009. "Gastroretentive Drug Delivery of Quetiapine Fumarate: Formulation and In Vitro Evaluation using 3^2 full factorial". Journal of Pharmacy Research, 2(9).109-119.
3. **Boldhane S. P.**, Kuchekar B. S. 2009. "Preformulation and Formulation Studies of Novel pH Independent Controlled Release Drug Delivery System of Quetiapine Fumarate". Journal of Pharmacy Research, 2(1).109-119.
4. **Boldhane S. P.**, Kuchekar B. S. 2010. "Gastroretentive Drug Delivery of Metoprolol Succinate: Formulation and In Vitro Evaluation using 3^2 full factorial". Acta Pharmaceutica, 60, 415-425.
5. Minoo Saxena, Anil Pethe, **Sanjay Boldhane** 2017. Enhancement of topical drug delivery by liquid crystals. World Journal Of Pharmaceutical Research. 6 (7), SJIMP factor: 7.523.
6. Akhilesh Shah, **Sanjay Boldhane**, Atmaram Pawar, Chellampillai Bothiraja, 2020. Advanced development of a non-ionic surfactant and cholesterol material based niosomal gel formulation for the topical delivery of anti-acne drugs, Material Advances, Advance Article, <https://doi.org/10.1039/D0MA00298D>.
7. Ashwin Kuchekar, Surendra Gattani, **Sanjay Boldhane**, 2020. 'Diltiazem Hydrochloride for Chronotherapeutic Drug Delivery System: Formulation, Optimization and Evaluation', British Journal of Bio-medical Research Vol-04, Issue-03, 1216-1225 May-June 2020.
8. Ashwini Gawade, **Sanjay Boldhane**, 2020. 'Solid Dosage Form Development of Dabigatran Etxilate Mesylate With Increased Solubility and Dissolution Using Cocrystallization' International Journal of Pharmaceutical Science and Research, Vol 11(5):1000-07, 2020.
9. Ashwin Kuchekar, Ashwini Gawade, **Sanjay Boldhane**, 2021. Hydrotropic

Solubilization: An Emerging Approach, Indo Global Journal of Pharmaceutical Sciences. Journal of drug delivery and therapeutics. 11(1-s): 200-206.

10. Ashwin Kuchekar, Ashwini Gawade, **Sanjay Boldhane**, Akshay Baheti, 2021. Improvement of physicochemical and solubility of Dipyridamole by cocrystallization technology. Journal of drug delivery and
11. Ashwini Gawade, **Sanjay Boldhane**, 'Development and Evaluation of Dipyridamole Matrix Tablets Using Response Surface Methodology', Research Journal of Pharmacy and Technology, Vol 14 issue 02 (*Accepted Manuscript*)

Patents

1. IN 330833 entitled: "Process of preparing taste masked granules comprising prochlorperazine."
 2. IN345165 entitled: "Fast dissolving pharmaceutical composition comprising lornoxicam".
 3. IN 345498 entitled: "Controlled release pharmaceutical composition".
 4. IN 274321 entitled: "Controlled release chronotherapeutic pharmaceutical composition."
- Book Chapters
 - a. Jindal K.C. and **Boldhane, S. P.** (2005). **Chapter on "Parenteral Formulations"** in a book Pharmaceutical Product Development. Edited by Dr. N.K. Jain. CBS Publishers, New Delhi.
 - b. Textbook on **"Physical Pharmacy"** (2011) Mr. Santosh Bhairat and Dr. Sanjay Boldhane
Granted: 04
Published: 09

Awards & Achievements

- Member, Board of studies in Pharmacy. Shivaji University, Kolhapur for 2010-14.
- Member, Board of studies in Pharmaceutics. Pune University, Pune, SRTU, Nanded and North Maharashtra University, Jalgaon for a period of 2010-14.
- Member of research coordination committee and visiting faculty at NMIMS for M. Pharm (Pharmaceutics), and M.S. (Pharm Medicine) K.E.M., Mumbai.
- Visiting faculty at NMIMS SPTM, Mumbai from 2010 to 2017.
- Research and Recognition Committee member for Ph. D. scholars of NMIMS, SPTM. From 2016-2018.
- Visiting faculty at Bharti Vidyapith, Poona College of pharmacy, Pune form 2019 for QbD, drug delivery and research methodology.

Scientific talks

More than 50 invited talks on various topics including drug delivery, product development and regulatory perspective in universities and colleges.

- Resource person for AICTE Staff development programme on "The Platform Technology: Development and Evaluation at R.C. Patel College of Pharmacy, Shirpur (M.S.)" held on 23-24th Aug'08.
- Resource person for AICTE Staff development programme on "The Patent Primer" at Govt. college of Pharmacy, Karad (M.S.) on 20Apr'07.
- Resource person for AICTE Staff development programme on "Bioavailability and

Bioequivalence: Industrial Perspective” at Govt. college of Pharmacy, Karad (M.S.) held on 13-14 Jan’06.

- Invited speaker for the talk on “Nanosuspension Development and Characterization” in National Symposium held at in NDDS, M.S. University Vadodara, held on 29-30th Aug’05.

As Ph. D. GUIDE

- Student: Ms. Ashwini Gawade, Ph. D Awarded on 09Jan’21 (Savitribai Phule Pune University)
- Topic: Development of oral Solid Dosage Form using Response surface methodology.

As INDUSTRIAL GUIDE FOR M. Pharm

- Formulation, Characterization and Evaluation of Medicated cosmetic cream to produce triple effect in skin”.
 - Formulation Student Name: Ms. Sharadha M. Institute Guide: Dr. D. V Gowda. JSS College of Pharmacy, Mysore. 2019.
- Development of Stable Nano-emulgel Dosage form For Delivery of An Anti-acne Drug”.
 - Student Name: Suhas B S. M. Institute Guide: Dr. Anup Naha. Manipal College of Pharmaceutical Sciences, Manipal. 2019.
- Formulation and development of Anticholinergic Injection
 - Student Name: Ms. Mitali Bora, . Institute Guide : Dr. Jayant Khandare. MAEER”S Maharashtra Institute of Pharmacy, Pune.2018
- Formulation, development and evaluation of prostaglandin analogue and beta blocker preservative free ophthalmic solution.
 - Student Name: Mr. Kunal Chaudhari. Institute Guide: Dr. Jayant Khandare. MAEER”S Maharashtra Institute of Pharmacy, Pune.2018
- Formulation, development and evaluation of ophthalmic solution containing alpha adrenergic agonist and beta adrenergic antagonist.
 - Student Name: Ms. Gauri Sonawane. Institute Guide: Dr. Jayant Khandare. MAEER”S Maharashtra Institute of Pharmacy, Pune.2018
- “Development and evaluation of Oral Controlled Release formulation for a BCS Class II drug”.
 - Student Name : Ms. Minoo Saxena, Institute Guide: Dr. Tripura Sundari, SPP School of Pharmacy & Technology Management, SVKM’s NMIMS, Mumbai (M.S.), 2013
- “Study of oral lipid based formulations through design and evaluation of self microemulsifying tablet”.
 - Student Name: Mr. Prasad Walke, Institute Guide: Mr. M. P. Ratnaparkhi, Marathwada Mitramandal’s College of Pharmacy, Pune (M.S.) 2012.
- “Impurity profiling of Diclofenac Sodium in tablet dosage form”.
 - Students Name: Ms. Vishakha Thakur, Institute Guide: Dr. A. R. Chabukswar, MAEER’S Maharashtra Institute of Pharmacy, Pune (M.S.) 2012.
- “Spray dried solid dispersion based fast dissolving tablet of Lornoxicam”.
 - Student Name: Mr. Ajit Patil, Institute Guide: Dr. John D’Souza, Department of

Pharmaceutics, Tatyasaheb Kore College of Pharmacy, Warananagar, Shivaji University, Kolhapur (M.S.), 2012.

- “Microencapsulation by spray drying for stability enhancement of Rabeprazole Sodium”.
 - Student Name: Mr. Sagar Satpute, Institute Guide: Dr. John D’Souza, Department of Pharmaceutics, Tatyasaheb Kore College of Pharmacy, Warananagar, Shivaji University, Kolhapur (M.S.), 2012.
- “Development and evaluation of Tretinoin loaded liquid crystal gel for enhanced dermal delivery”.
 - Student Name: Mr. Shashikant Upare, Institute Guide: Dr. Atmaram Pawar, Poona College of Pharmacy, Erandwane, Pune, Bharti Vidyapith, Pune (M.S.), 2011.
- “Formulation and Evaluation of Pulsatile release system of Diltiazem”.
 - Student Name: Mr. Ashwin Kuchekar, Institute Guide: Dr. S. G. Gattani, Dept. of Pharmacy, North Maharashtra University, Jalgaon (M. S.), 2009.
- “Formulation and Evaluation of Pulsatile release capsule of Zolpidem tartrate”.
 - Student Name: Mr. Mahesh Inamdar, Institute Guide: Mr. N. S. Jeganathan, Dept. of Pharmacy, Annamalai University, Annamalinagar, Tamilnadu. 2007.
- “Formulation and Evaluation of Gastroretentive floating tablet using Quetiapine Fumarate as model drug”.
 - Student Name: Mr. Kuldeep Bhokare, Institute Guide: Dr. Aklanka Dey, Dept. of Pharmacy, Annamalai University, Annamalinagar, Tamilnadu. 2007.
- “Formulation and Evaluation of Olanzapine loaded solid-lipid nanoparticles”.
 - Student Name: Mr. Rajesh Kumar, Institute Guide: Dr. Arun Shirwaikar. Manipal College of Pharmaceutical Sciences. 2006.

International Conference attended

- 36th Annual Meeting and Exposition of the Controlled Release Society at Copenhagen, Denmark on 18- 22th Jul’ 09 and presented two posters.
- 33rd Annual Meeting and Exposition of the Controlled Release Society at Vienna, Austria on 22-26th Jul’ 06.
- Conference on **Practical Approaches to Nasal and Pulmonary Drug Delivery**, Florida, USA on **9-11th** Feb’04 organized by Valois of America.