



# 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. Mangesh R. Bhalekar

**Designation:**Professor

**Qualifications:**M. Pharm, Ph.D.

**Contact No:**020-26058204/9850833223

**Email-Id:**mrbhalekar@aissmscop.com/mrbhalekar@gmail.com



### **PROFESSIONAL EXPERIENCE:**

1. Working as Professor from March 2011 at AISSMS College of Pharmacy, Pune-411001
2. Worked as Assistant Professor from June 2005 to March 2011 at AISSMS College of Pharmacy, Pune-411001
3. Worked as Lecturer from September 2000 to March 2005 at VNS institute of Pharmacy, Bhopal
4. Worked as Lecturer from Sep 1995 to Sep 2000 at Vidyabharati College of Pharmacy, Amravati.
5. Worked as medical Representative from Sep 1993 to Sep 1995 at Merind Ltd.

### **TOTAL EXPERIENCE IN YEARS:**

- ❖ Teaching: 24 yrs.
- ❖ Research: 14 Yrs
- ❖ Industry: 02

## **AREAS OF INTEREST:**

Solid lipid nanoparticles

Mucoadhesion

Taste Masking

Topical drug delivery

Design of Experiment (DoE)

## **Ph.D. STUDENTS GUIDED: 04**

- ❖ Approved as Ph.D guide by Savitribai Phule Pune University, Jaipur National University, Jawaharlal Nehru Technological University, Karpagam University and currently 02 students are pursuing the Ph. D.

## **M. PHARM STUDENTS GUIDED: 52**

- ❖ Approved as PG guide by Savitribai Phule Pune University and guided 52 M. Pharm students

## **PATENTS GRANTED /FILED (NOS): --03 filed / 01 under examination**

Topical formulations of chloroquine for use in rheumatoid arthritis, 2486/MUM/2013, 26<sup>th</sup> July 2012. Indian patent office.

## **BOOKS AUTHORED: 04**

Pharmaceutics I

Pharmaceutics II

Industrial Pharmacy I

Industrial Pharmacy II

Co Authors:

1. Dr. Ashwini Madgulkar

Publisher: Techmax Publication, Pune.

### **PROFESSIONAL AFFILIATIONS:**

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

### **PROJECTS HANDLED/GRANTS RECEIVED:**

- ❖ No. of In-house Projects: 17
- ❖ No. of Funded Research Projects (University/Industry): 02+03
- ❖ Amount of Research Grant Received: 28 Lakh

### **INSTITUTIONAL AND ADMINISTRATIVE RESPONSIBILITIES:**

- ❖ Working as M Pharm Co-ordinator.
- ❖ Heading Research and Development committee NAAC
- ❖ Working a member of planning committee of AISSMS college of Pharmacy.
- ❖ Working as member of Industry Interaction Committee.
- ❖ Working as member of In-house research projects committee.
- ❖ Member academic monitoring committee M Pharm.
- ❖ Member of Research Advisory committee.
- ❖ Member of “Industry Institute interaction Committee
- ❖ Had been member of Board of studies of “Savitribai Phule Pune University” and “SGB Amravati University”.
- ❖ Worked as a coordinator for University of Pune sponsored QIP Programme “QBD in formulation development” (2014-15)
- ❖ Member of internal complaints and Grievance Redressal Committees AISSMS college of Pharmacy, Pune

### **AWARDS/ACHIEVEMENT/MEDALS:**

**Third best research paper award at IRACON 2016 at Cochin.** Bhalekar M.R, Upadhaya P.G, Nalawade S.D, Madgulkar A.R, Kshirsagar S.J, Anti-rheumatic activity of chloroquine-SLN gel on wistar rats using complete freund's adjuvant(CFA)model

### **PUBLICATIONS:**

- ❖ REVIEWS: 06
- ❖ NATIONAL RESEARCH PUBLICATIONS: 15
- ❖ INTERNATIONAL RESEARCH PUBLICATIONS: 92
- ❖ Hindex - 16
- ❖ i10 Index -31

❖ No of Citations -962

**\*NATIONAL RESEARCH PUBLICATIONS\***

**2004**

1. Avari J. G., Bhalekar M. "Cation Exchange Resins for Taste Masking and Rapid Dissolution of Sparfloxacin". Indian Drugs, 41 (1), 19, January 2004.

**2005**

2. Bhalekar M and Avari J., "Evaluation of Indion 244 and Indion 254 as sustained release agents, Pharma Review, 3(17), 2005,121-123.
3. Lavhale M, BhalekarM, ;Sabale V., " Taxus - The panacea for cancer treatment, " Ancient Science of Life, XXIV (3), 152, Jan - March 2005
4. Bhalekar M., Lavhale M, SiniKrishna ; "Formulation and Evaluation of Rice Bran wax as Ointment base", Ancient Science of Life, XXIV (I), 52, July - September 2004.

**2006**

5. Rao S., Bhalekar M., Madgulkar A., Vora S., Rajpura J. preservative efficiency testing for pharmaceutical products during stability studies. [www.pharmainfo.net](http://www.pharmainfo.net), november (2006).

**2007**

6. Madgulkar A R, Bhalekar M , Comparative evaluation of taste masking methods for fexofenadine HCl,ThePharma Review, 5 (30), 176-178.
7. Bhalekar M, Avari J and Umalkar R, Preparation and *in vitro*evaluaion of sustained release drug delivery system for verapamil HCl, Indian journal of Pharmaceutical Sciences, 69(3), 419, 2007.
8. Madgulkar A, Bhalekar M, Wable N, Joshi V, "Comparative study of efficacy of Indion 414 and Amberlite IRP 88 as superdisintegrants in mouth dissolve tablets" Indian Drugs, 44(6),2007.
9. A. R. Madgulkar, M. R. Bhalekar, K. G. Patel, N. D. Wable, V. J. Kolhe. Comparative evaluation of taste masking methods for fexofenadine HCL. The pharma review, October 2007.

**2008**

10. Madgulkar A, Bhalekar M, Preparation and characterization of Indion 244-venlafaxine HClcomplexes.Indian Drugs, 45(05), 2008.
11. Bhalekar M, Sheladiya D, Statistical optimization of sustained release venlafaxine HCl wax matrix tablet, Indian Journal of Pharmaceutical Sciences, 70 (4), 472-476, (2008).
12. Wable N, Bhalekar M., Eggshell membrane as substrate for bioadhesion measures. Indian Drugs, 45(3), 219-221, 2008.

13. Madgulkar A, Bhalekar M, Wable N, Patel K, Ion exchange resins in formulation:An update. [www.pharmainfo.net](http://www.pharmainfo.net), February (2007).

**2009**

14. Madgulkar A, Bhalekar M, Kolhe V, Formulation and optimization of sustained release tablets of Venlafaxine resinates using response surface methodology.Ind J Pharm Sci., 2009, 387-394

**2010**

15. Kshirsagar S, Bhalekar M, Santosh S. Supe In vivo performance of colon specific drug delivery based on pH dependent approach: intersubject variability, J of Pharmacy Research, 3(11), 2010, 2722-2724.

**2011**

16. Sanjay J. Kshirsagar, Mangesh R. Bhalekar. S.K. Mohapatra, V.P.Godbole, P.K.Jagdhal and N.S. Shewale. Development of enzyme control colonic drug delivery using amylose and HPMC: Optimization by factorial design. Drug delivery, 2011, 1-9.
17. M.S. Gambhire, Mangesh R. Bhalekar and V.M. Gambhire. Simvastatin loaded solid lipid nanoparticles: formulation optimization using box behnken design, characterisation and in vitro evaluation. CPR 1 (2), 2011, 157-164.

**2012**

18. Sanjay J.Kshirsagar, AnandS.Gupta, SayaliKachare, Mangesh R. Bhalekar. Design and development of sustained release matrix tablets of an antipsychotic drug quetiapinefumarate and optimization by a 3-level full factorial statistical design. Journal of advanced pharmaceutical sciences. (2).2012.

**2013**

19. . Ashwini R. Madgulkar, Mangesh R. Bhalekar, Rahul R. Padalkar, Mohseen Y. Shaikh. Optimization of carboxymethyl-xyloglucan-based tramadol matrix tablets using simplex centroid mixture design. Journal of pharmaceuticals. 1-11:Sept 2012.

**2015-16**

20. PrashantUpadhaya, SandipNalawade,Ashwini R. Madgulkar, Mangesh R. Bhalekar, Sanjay J. Kshirsagar. Anti-rheumatic activity of chloroquine-SLN gel on wistar rats using complete freund's adjuvant (CFA) model. Indian journal of rheumatology(2015)1-7

**\*INTERNATIONAL RESEARCH PUBLICATIONS\***

**2004**

21. Indurwade N, Bhalekar M, Khandelwal A, Herbal medication-A realistic approach, Deerghayu International, 3(83), 39-46.

**2005**

22. Bhalekar M, Madgulkar A., Avari J. "Preparation and evaluation of taste masked resins of Ranitidine HCl", *Int J Pharm Excip*, (4), 2005,95-98,.

**2006**

23. Bhalekar M, Avari, Umalkar R, Markandeywar T. Ion exchange resins for reduced hygroscopicity of Ranitidine HCl. *Int.J.Pharma.Exciph*. 5(4)121-124 (2006).

**2007**

24. Madgulkar A., Bhalekar M."Compritol and Precirol: Innovative Pharmaceutical Excipients", *Asian Journal of Chemistry*, 19(1), 2007, 454-458.
25. Madgulkar A., BhalekarM."Complexes: Role in Pharmaceutical Formulation", *Asian Journal of Chemistry*, 19(4), 2007, 2615-2622
26. A. R. Madgulkar, M. R. Bhalekar, K. G. Patel, N. D. Wable, V. J. Kolhe. Comparative evaluation of taste masking methods for fexofenadine HCL. *The pharma review*, October 2007.

**2008**

27. Bhalekar M, Harinarayana D, "Improvement of photostability in Formulation: A Review" *Asian journal of chemistry*,20 (2008).
28. Bidkar S, Bhalekar M, Shah M, Sheth J, Shetty A, Studies on mucopolysaccharide of Psyllium seeds as pharmaceutical agent.*Int J Pharma Excip.*,2008, 64-67.
29. Lakade S H and Bhalekar M R, Formulation and evaluation of sustained release matrix tablet of anti-anginal drug, influence of combination of hydrophobic and hydrophilic matrix former, *Research J Pharm and Tech*, 1(14), oct –Dec, 2008, 410-413

**2009**

30. Madgulkar A, Bhalekar M, Swami M, In Vitro and In Vivo Studies on Chitosan Beads of Losartan Duolite API43 Complex, Optimized by Using Statistical Experimental Design, *AAPS Pharm Sci Tech*, 10 (2)2009
31. Bhalekar M, Pokharkar V, Preparation and evaluation of miconazole nitrate loaded solid lipid nanoparticles for topical delivery, *AAPS PharmSciTech*, 10(1), 289, 2009.
32. SantanuChakraborty, M. Khandai, A. Sharma, N. Khanam, S.K.Panda, Ch. N. Patra, V.J.Patro, K.K.Sen.Design and evaluation of mucoadhesive microspheres of model NSAID drug.*Int J pharmaexcip*.Jan-March 2009
33. S.J. Kshirsagar, M.R. Bhalekar& R. P. Pawar. In vitro drug release and in vivo human X-ray studies of ileo-cecal targeting budesonide fast disintegrating tablet. *Drug development and industrial pharmacy*, 2009; 35(7): 788-795.
34. Sanjay Bidkar, SwapnilDesale, MangeshBhalekar, Pranav Joshi. Evaluation of bixin as an antioxidant in tablet dosage form. *Int J PharmaExcip*, Jan-March 2009.
35. Madgulkar A, Bhalekar M., Formulation Design and Optimization of Novel Taste Masked Mouth Dissolving Tablets of Tramadol Having Adequate Mechanical Strength, *AAPS PharmSciTech*, 10 (2), 574-81, 2009.
36. Lakade S H and Bhalekar M R, Formulation development and evaluation of zidovudine sustained release matrix tablet, *The Bioscan*, vol 4(1), 2009, 101-104

37. Lakade S H and Bhalekar M R, Nano Drug Delivery of mitomycin-c from two biodegradable and biocompatible polymers, *Int J PharmacolBiol Sci.*, 3(1), 2009, 105-110.
38. Bhalekar M., A Method for Improving Handling Properties of Ranitidine HCl, *J. Pharm Res.*, Volume 8(2), 2009, 112-115.
39. Kshirsagar S, Bhalekar M, Sable P, Dissolution improvement of poorly water soluble drug using dry emulsion and solid dispersion, *J of Pharmacy Research*, 2(9), 2009, 1780-1785

## 2010

40. Dinesh P, Bhalekar M, Sunny S. Sethi. Evaluation of oral fast disintegrating tablet of taste masked famotidine in rat, *Lat Am J Pharm*, 29 (6), (2010) 948-954.
41. Kshirsagar S., Bhalekar M., In vitro drug release and in vivo human X-ray studies of ileo-cecal targeting budesonide fast disintegrating tablet, *Drug Development and Industrial Pharmacy*, Volume 35 (7), July 2009, 788-795.
42. Sanjay J. Kshirsagar, Mangesh R. Bhalekar, Ashwini R. Madgulkar, Preeti N. Sable, Sunil R. Gupta. Dissolution and improvement of poorly water soluble drug valsartan and improving flow properties of solid dispersion. *Lat. Am. J. Pharm.* 29 (3): 393-400 (2010).
43. Kshirsagar S, Bhalekar M, Ileo-cecal targeting mucoadhesive budesonide tablet, *Lat Am J Pharm*, 29 (6), 898-905, Jan (2010)
44. Bhalekar M., Bidkar S, Shete T & Madgulkar, A, Taste masking of cefuroxime axetil by ion exchange resin complex, *Lat. Am. J. Pharm.* 29 (2), 2010, 198-204
45. Bhalekar M, Kadam N, Novel ion exchange resin based combination drug delivery system for treatment of gastro esophageal reflux disease, *Braz J Pharm Sci.*, 46 (2), 335-342, June (2010).
46. Sanjay J. Kshirsagar, Mangesh R. Bhalekar and Rajesh R. Umap. Design, development and in vitro- in vivo study of a colon-specific fast disintegrating tablet. *Pharmaceutical development and technology*, 2010, 1-8.
47. Bhalekar M, Desale S, Synthesis of MCC-PEG conjugate and its evaluation as a superdisintegrant, *AAPS Pharmascitech*, vol 11, 1171-1178, July 2010.
48. Rasala T, Kale V, Bhalekar M, formulation and evaluation of mucoadhesivemicrocapsules of diltiazem HCL and diclofenac sodium by orifice-ionic gelation method, *IJPI's J of Pharmaceutics and Cosmetology*, 1:1. 2010,

## 2011

49. Sanjay J. Kshirsagar & Mangesh R. Bhalekar. Design, development and In vitro-in vivo study of colon specific fast disintegrating tablet based on time dependent approach. *Lat. Am. J. Pharm.* 30 (5): 890-5 (2011).
50. Sanjay J. Kshirsagar, Mangesh R. Bhalekar, Jiten N. Patel, Santosh K. Mohapatra and Nitin S. Shewale. Preparation and characterization of nanocapsules for colon targeted drug delivery system. *Pharmaceutical development and technology* 2011, 1-7.
51. D.M.Mathure, M.R.Bhalekar, R.R.Padalkar, B.S.Dawane, S.S.Chobe. Formulation and statistical optimization of controlled release pellets of cetirizine dihydrochloride. *Scholars research library*, 2011, 3(3):443-452.

52. M.S. Gambhire, Mangesh R. Bhalekar and V.M. Gambhire. Statisticle optimization of dithranol-loaded solid lipid nanoparticles using factorial design. BJPS VOL.47, n. 3, jul/ sep., 2011
53. M. Gambhire, M. R. Bhalekar, B. Shrivastava. Bioavailability assessment of simvastatin loaded solid lipid nanoparticles after oral administration. Asian journal of pharmaceutical sciences 2011, 6(6): 251-258
54. Sanjay J. Kshirsagar, Mangesh R. Bhalekar, Gajendra N. Shukla, Santosh K. Mohapatra. Development & evaluation of enzymatically triggerredmultiparticulate colon targeted drug delivery system. IJRAP, 2011, 2(1) 211-215
55. Sanjay J. Kshirsagar, Mangesh R. Bhalekar, Gajendra N. Shukla, Santosh K. Mohapatra. Development & evaluation of multiparticulate colon targeted drug delivery system by combine approach of pH & bacteria. IJPRIF, vol 3, 1139-1149, april-june 2011
56. Sanjay J. KshirsagarMangesh R. Bhalekar. Design, development and in vitro- in vivo study of colon specific fast disintegrating tablet based on time dependent approach. Lat. Am. J. Pharm. 30 (5): 890-5 (2011)
57. Sanjay J. Kshirsagar, Mangesh R. Bhalekar, Pallavi B. Ughade, Ashwini R. Madgulkar. Gastroretentive drug delivery system of hydrochlorothiazide: formulation, optimization.

### 2012

58. MangeshBhalekar, AshwiniMadgulkar,NileshTribhuvan. Formulation and optimization of excipients blend containing xyloglucan for sustaind release application. International journal of universal pharmacy and life sciences. 2(4):380-393:July-august 2012.
59. Sanjay J.Kshirsagar, MangeshR.Bhalekar, SantoshK.Mohapatra. Development and evaluation of carvedilol-loaded transdermal drug delivery system: In-Vitro and in-vivo characterization study. Drug development and industrial pharmacy. 1-8:2012.
60. Ashwini R.M, Mangesh R.B, Rahul R.P, Nilkanth S.P, Devaki C.U. Formulation and optimization of drug-resin complex loaded mucoadhesive chitosan beads of repaglinide using factorial design. American journal of medicine and medical sciences. 2(4):62-70:2012
61. PranjaliB.Gawali, Sanjay J.Kshirsagar, MangeshR.Bhalekar, AswiniR.Madgulkar.Preparation and characterization of amorphous nanoparticles for solubility enhancement of Ritonavir.International journal of pharmaceutical invention.2(6):27-35.July 2012.
62. BhalekarMangesh, Kadam Anil, UpadhayaPrashant, AshwiniMadgulkar. Formulation and in-vitro evaluation of sustained release domeperidone-indion 244 complexes. FABAD J.Pharm. sci.(4):143-149:2012.

### 2013

63. MangeshBhalekar, AshwiniMadgulkar, SnehaGunjal, AbhjleetBagal. Formulation and optimization of sustained release spray-dried microspheres of glipizide using natural polysaccharide. PDA journal of pharmaceutical science and technology. 67(2). March –april 2013.

### 2014-15



64. SavitaSonawane, MangeshBhalekar, ShamkantShimpi. Preparation and evaluation of microspheres of xyloglucan and its thiolatedxyloglucan derivative. International journal of biological macromolecules 69 (2014) 499-505.
65. Bhalekar M R, Madgulkar A., Kshirsagar S., Reddi S., Upadhay P., Formulationand evaluation of Acyclovir nanosuspension for enhancement of oralbioavailability, Asian journal of pharmaceuticals, Volume 8 / Issue 2 / Apr-Jun 2014
66. Ashwini R. Madgulkar, Mangesh R. Bhalekar, Rahul R. Padalkar, Dipul B. Manwar. Comparative evaluation of taste masking methods of ondansetronHCl. World Journal of pharmacy and pharmaceutical sciences, vol 3, issue 8,982-985.
67. Ashwini R. Madgulkar, Mangesh R. Bhalekar, Rahul R. Padalkar, Dipul B. Manwar. Taste masked beads of ondansetron hydrochloride using natural polymer xyloglucan. World Journal of pharmacy and pharmaceutical sciences, vol 3, issue 8, 1151-1163.
68. Sanjay J. Kshirsagar, Mangesh R. Bhalekar, S.V. Patil. Statistical optimization of floating pulsatile drug delivery system for chronotherapy of hypertension. Int. J. Pharm Investig 2011 oct-dec, 1(4): 207-213.

#### **2015-16**

69. Amey J. Ankaikar, Sanjay J. Kshirsagar, Prajakta N. Shingate, Mangesh R. Bhalekar, Ashwini R. Madgulkar. Formulation and evaluation of liposomes for colon specific drug delivery. Inventi journal Ltd. Published on 18/08/2015 1-3.
70. Sudhir T. Bansode, Sanjay J. Kshirsagar, Ashwini R. Madgulkar, Mangesh R. Bhalekar and Mithun M. Bandivadekar. Design and development of SMEDDS for colon-specific drug delivery. Drug development and industrial pharmacy.2015.
71. Mangesh R. Bhalekar, Prashant G. Upadhyay, Ashwini R. Madgulkar, Sanjay J. Kshirsagar, AkanshaDube, and Utkarsh S. Bartakke. In-vivo bioavailability and lymphatic uptake evaluation of lipid nanoparticulates of darunavir. Informa healthcare 2015.
72. MangeshR.Bhalekar, Rajesh V. Bargaje, Prashant G. Upadhaya, Ashwini R. Madgulkar, Sanjay J. Khirsagar. Formultion of mucoadhesive gastric retentive drug delivery using thiolatedxyloglucan. Carbohydrate polymers 136 (2016)537-542.
73. Ashwini R. Madgulkar, Mangesh R. Bhalekar, Kalyani D. Asgaonkar, Amrita A. Dikpati. Synthesis and characterization of a novel mucoadhesive derivative of xyloglucan. Carbohydrate polymers 135 (2016)356-362.
74. Mangesh R. Bhalekar, Prashant G. Upadhaya, Ashwini R. Madgulkar. Fabrication and efficacy evaluation of chloroquine nanoparticles in CFA-induced arthritis rats using TNF- ELISA. European journal of pharmaceutical sciences 84 (2016)1-8.
75. Bhalekar R. Mangesh, UpadhayaPrashant, MadgulkarAshwini. Solid Lipid Nanoparticles incorporated transdermal patch for improving the permeation of piroxicam. Asian journal of pharmaceuticals (2016)1-6.
76. MangeshBhalekar, PrashantUpadhaya, AshwiniMadgulkar. Formulation and evaluation of Adapalene-loaded nanoparticulates for epidermal localization. Drug Deliv. And Transl. Res. (2015)1-6.

77. Sudhir T. Bansode, Sanjay J. Kshirsagar, Ashwini R. Madgulkar, Mangesh R. Bhalekar, Mithun M. Bandivadekar. Design and Development of SMEDDS for colon-specific drug delivery. Informahealthcare(2015)1-13.

#### 2016-17

78. Bhalekar MR, Madgulkar AR, Aswar M, Mariam G, Desle P, A Comparative Study of Oral and Topical Administration of Hesperidin Lipid Nanoparticles in Rheumatoid Arthritis. 2016; 1(2): 1010.
79. Austin ArMadgulkar AR, Bhalekar MR, Padalkar RR, Kulangi SL .formulation and evaluation of suspension containing chloroquine sulphate loaded eudragit EPO microspheres, World Journal of pharmacy and pharmaceutical sciences, 5(11), 719-729.
80. Dr. Mangesh Bhalekar, Prashant Upadhaya, Ashwini Madgulkar. Formulation and characterization of solid lipid nanoparticles for an anti-retroviral drug darunavir. Appl Nanosci;28 August 2017
81. Dr. Mangesh R. Bhalekar, Ashwini R. Madgulkar, Anil V. Kadam, Abhilash D. Waghmare. Formulation and evaluation of sustained release matrix tablets of quetiapine fumarate, World journal of pharmacy and pharmaceutical sciences, 2017, 6(5), 996-1006
82. Dr. Mangesh R. Bhalekar, Ashwini R. Madgulkar, Anil V. Kadam, Formulation and development of sustained release matrix tablets of metoprolol succinate, International journal of applied research, 2017, 3(5), 448-453.
83. Mangesh R. Bhalekar, Ashwini R. Madgulkar, Sumedha S. Andure, formulation and evaluation of sustained release pellets of venlafaxine HCl, International journal of applied research, 2017, 3(5), 793-799.
84. Mangesh R. Bhalekar, Ashwini R. Madgulkar, Sumedha S. Andure, Development and evaluation of sustained release pellets of metoprolol tartarate, World Journal of Pharmacy and pharmaceutical sciences, 6 (6), 2017 1553-1568.
85. Mangesh R. Bhalekar, Ashwini R. Madgulkar, Pooja Desale, Gyce Mariam. **Formulation of piperine solid lipid nanoparticles (SLN) for treatment of rheumatoid arthritis**, Drug Dev Ind Pharm. 2017; 43(6):1003-1010
86. Ashwini R. Madgulkar, Mangesh R. Bhalekar, Ashwini Kadam. Improvement of Oral Bioavailability of Lopinavir Without Co administration of Ritonavir Using Microspheres of Thiolated Xyloglucan AAPS PharmSciTech 2017 Jul 17. Epub 2017 Jul 17.
87. Mangesh Bhalekar, Shweta Padher, Prachi Paranjape, sonaliLadkat, Evaluation of carboxymethyl xyloglucan as SPF booster in Oxybenzone cream, International Journal of Applied Research 2017; 3(5): 813-816.

#### 2017- 2018

88. Mangesh R. Bhalekar\*, Ashwini R. Madgulkar and Ahillya P. Ohol . “Formulation, characterization and evaluation of taste masked dry suspension of cefixime by ion exchange resin technique”, world journal of pharmacy and pharmaceutical sciences 6, ( 7), 683-694.
89. Mrinalini C. Damle, Mangesh R. Bhalekar and Sneha A. Lonkar. “ Formulation and evaluation of herbal gel for the treatment of psoriasis”, 6(7), 1199-1210.”

90. Mangesh Bhalekar, Shweta Padher, Prachi Paranjape, sonaliLadkat. " Evaluation of carboxymethyl xyloglucan as SPF booster in Oxybenzone cream", International Journal of Applied Research 2017; 3(5): 813-816.
91. Ashwini R Madgulkar\*, Mangesh R Bhalekar, Ashwini A Kadam." Improvement of Oral Bioavailability of Lopinavir Without Co-administration of Ritonavir Using Microspheres of Thiolated Xyloglucan." AAPS PharmSciTech. 2018 Jan;19(1):293-302.
92. Ashwini Madgulkar, Mangesh Bhalekar, Shivani Rao and Shreya Bedekar." Formulation Development and Optimization of Vaginal Tablet of Clotrimazole Using Thiolated Xyloglucan," BAOJ Pharm Sci 2017, 3: 4
93. Santosh V. Gandhi \*, Ravina S. Mutha , Mangesh R. Bhalekar , Atul P. Chaudhari."optimization of crystallo co agglomerates of fenofibrate to improve flow properties and dissolution, "Research Pharmaceutica, 2017,1(2), 21-26
94. Mangesh Bhalekar, Shweta Padher."Natural remedies for rheumatoid arthritis,"International Journal of Chemistry Research ; March 2018; Volume 2 ( 2), 59-67
95. Santosh V. Gandhi, Nikita M. Nilgar , Mangesh R.Bhalekar. " Formulation And Evaluation Of Phytoconstituents Cream For Treatment Of Varicose Veins," World Journal Of Pharmaceutical Research ; 2018 ; Volume 7 (12) ; 730 – 745.
96. Santosh V. Gandhi, Nikita M. Nilgar , Mangesh R.Bhalekar. "Formulation And Evaluation Of Phytoconstituents Emulgel For Treatment Of Varicose Veins," European Journal Of Pharmaceutical And Medical Research ; 2018 ; Volume 5 (7) ; 432 – 439.
97. Tripti D. Dongare, Mangesh R.Bhalekar, Santosh V. Gandhi . " Formulation Optimization and Pharmacokinetics of Tinidazole Crystallo-Co-Agglomeartes" 2017; Volume 3 (5) ; 1 – 8.
98. Santosh V. Gandhi , Ravina S. Mutha, Mangesh R.Bhalekar , Atul P. Chaudhari. " Optimization Of Crystallo-Co-Agglomeartes Of Finofibrate to Improve Flow Properties And Dissolution" 2017; Volume 1 (2) ; 21- 26

## 2018-2019

99. Priyanka D. Kandhare, Padmanabh Deshpande\* and Mangesh Bhalekar, Formulation, Optimization And Evaluation Of Herbal Cream Containing Anti-Inflammatory Agent.
100. Tejinder Kaur\*, Ashwini Madgulkar, Mangesh Bhalekar And Kalyani Asgaonkar, Molecular Docking in Formulation and Development. DOI -102174/1570163815666180219112421
101. DR. Mangesh R. Bhalekar, DR. Ashwini Madgulkar, Tejaswini Jagtap, Demonstration of lymphatic uptake of (6)-Gingerol solid lipid nanoparticle. 2019;9(4):461-469
102. Dr. Mangesh R. Bhalekar, Pradhan Sumedh, Scientific coformer screening, preparation and evaluation of Fenofibrate Tartaric acid cocrystal. 2019;9(4):406-410
103. Dr. Ashwini Madgulkar, Mangesh R Bhalekar, Shubhangi A Thool, Study of polymeric mixed micelle system of sulphasalazine for improvement of oral bioavailability, 2018,10(6):81-94
104. Dr. Ashwini Madgulkar, Mangesh R Bhalekar, Aishwaraya D. Vaidya, Prof. Pauroosh Kaushal, Dr. R.P. Mudalwadkar, Development of hot melt coating technique for taste masking of chloroquine phosphate tablets. 2019;9(4S0):562-568.

## PRESENTATIONS: 31

1. M. Bhalekar; J. G. Avari , " Formulation and Evaluation of BitterlessNorfloxacin Suspension using Ion-Exchange Resin ", 54<sup>th</sup> Indian Pharmaceutical Congress; Pune, December 2002, AP-79.
2. M. Bhalekar, J. G. Avari ; " Formulation and Evaluation of Bitterless Rapidly Disintegrating Tablets of Famotidin using Ion-Exchange Resin ", 55<sup>th</sup> Indian Pharmaceutical Congress; Chennai, December 2003, AP-76.
3. J. G. Avari, Bhalekar, HemantBanbale; AmolUjjainkar, "Novel approach for delivery of Combination of drug using Ion-Exchange Resins ", 57<sup>th</sup> Indian Pharmaceutical Congress; 2005, AP-34.
4. M. Bhalekar; S.V. Bhandari, N.S. Vyawahare,K. B. Patwardhan,"Pharmacovigilance – An ignored field", APTI National Convention, 2005,PE-54.
5. Patil Y., Bhalekar M., Kasliwal R, Avari J, Invitro evaluation of the mucoadhesion of cholestyramine to rat gastric mucosa., Seventh international symposium, CRS 2007, P-68.
6. Bhalekar M, Madgulkar A, Sheladiya D, Statistical optimization of sustained release venlafaxine wax matrix tablet, Second International conference and INDO CANADIAN satellite symposium, Ooty 2007, DDS-153.
7. Bhalekar M, Madgulkar A, Pandya S., Formulation evaluation and Statistical optimization of orodispersible tablet of Ondansetron., Second International conference and INDO CANADIAN satellite symposium, Ooty 2007, DDS-168.
8. Joshi V. Bhalekar M, Madgulkar A, Standardization of medicinal plants by PCR techniques, Second International conference and INDO CANADIAN satellite symposium, Ooty 2007, HP-22.
9. Bhalekar M, Avari J., Statistical Optimization of Alginate Coated Mucoadhesive Beads Of Captopril Cholestyramine Complex:, 59<sup>th</sup> IPC Varanasi, A- 446.
10. Swami M, Bhalekar M, Optimization of hydrophobic matrix for once daily administration of venlafaxine HCl using simplex mixture design, 59<sup>th</sup> IPC Varanasi , A – 35
11. Bidkar S., Bhalekar M, comparative study of taste masking ability of ion exchange resins and  $\beta$  cyclodextrine with ondansetron, 59<sup>th</sup> IPC Varanasi, A -36
12. Mudhada A, Bhalekar M, Formulation and evaluation of dispersible taste masked tablet of roxithromycin,59<sup>th</sup>IPC Varanasi, A -94.
13. Patil K.,Bhalekar M., Madgulkar A., Kenjale Y., Formulation and optimization of mucoadhesive tablet of atenolol by using response surface methodology, 61<sup>st</sup> IPC, A-239.

14. Hire Y., Bhalekar M., Madgulkar A., Nystatin loaded solid lipid nanoparticle gels for improved topical delivery, 61<sup>st</sup> IPC, A-786.
15. Bhalekar M., Madgulkar A., Hire Y., formulation optimization of lipid nanoparticulates of adapalene using box behnken design, 61<sup>st</sup> IPC, A-472.
16. Patel J.N,WadekarS.B,Kshirsagar S.J, Bhalekar M.R., Shewale N.S, "Gastroretentive drug delivery system of captropil and hydrochlorothiazide bilayer tablet:Formulation, Optimization and invivo evaluation" CRS,2010,P-14.
17. Shewale N.S, Kshirsagar S.J, Bhalekar M.R., Gupta S.R, ShuklaG.N."Design& development ileo-cecal targeting mucoadhesive budesonide tablet" " CRS,2010,P-29.
18. Patel S.J.,Bidkar S.G.,Shrimali N.S., BhalekarM.R.,MadgulkarA.R,"Preparation& evaluation of controlled release microspheres of hydrochloride by spray drying technology using crosslinked chitosan" CRS,2010,P-132.
19. Formulation and evaluation of topical preparation containing chloroquine-SLN for rheumatoid arthritis. Herbal and Synthetic Drug Studies 2014. M.C.E. society's, Allanacollege of pharmacy, pune.
20. Rajesh Bargaje, A. Madgulkar, M R Bhalekar , S Morkar, Preparation and evaluation of novel thiolated polymer for transmucosal drug delivery application. National conference on advances in bioanalytical techniquessept 2013. BVDU Poona college of pharmacy, Pune.
21. Ganesh Shinde, M R Bhalekar, Effect of excipients on solid state phase transformation of drug during storage. National conference on advances in bioanalytical techniques 2013.M.C.E. society's, Allanacollege of pharmacy, pune.
22. Murunkar Rajesh, MRBhalekar, A R Madgulkar, Formulation and optimization of dithranol loaded lecithin organogel for topical drug delivery. Frontiers in formulation and development technology. M.C.E. society's, Allanacollege of pharmacy, pune.
23. Formulation and evaluation of sustained release matrix tablet using crosslinkedxyloglucan. Frontiers in formulation and development technology. M.C.E. society's, of pharmacy, pune.
24. Formulation and evaluation of topical preparation containing chloroquine-SLN for rheumatoid arthritis.Advances in NDDS present scenario and industrial perspectives.Modern college of pharmacy, Moshi, Pune.
25. Design and development of liposomes for colon targeted drug delivery. Advances in NDDS present scenario and industrial perspectives.Modern college of pharmacy, Moshi, Pune.
26. Preparation and evaluation of novel thiolated polymer for transmucosal drug delivery application. Advances in NDDS present scenario and industrial perspectives.Modern college of pharmacy, Moshi, Pune.
27. Dr. M.R.Bhalekar, Formulation and evaluation of topical preparation containing chloroquine-SLN for rheumatoid arthritis. 2<sup>nd</sup> international conference on herbal and

synthetic drug studies (HSDS-2014). M.C.E. society's, Allana college of pharmacy, Pune.(2014).

28. poster presentation on “design and development of SMEDDS for colon targeted drug delivery system” at Emerging trends in pharmacy profession and education 19th APTICON Emerging trends in pharmacy profession and education” APTICON, Nov 2014.
29. Poster presentation on “Invivo-invitro correlation for matrix tablets of simvastatin and thiomers of TSP” , at Emerging trends in dosage form design,Pune university,pune,5th Nov2014.
30. K. Darak, M R Bhalekar, Poster presentation on “Development of chloroquin nanoparticles for oral treatment of rheumatoid arthritis”, at AICTE sponsored seminar, school of pharmacy,Nanded.
31. Improvement of oral bioavailability of acyclovir using thiomericnanoparticulates of xyloglucan. 3<sup>rd</sup> international conference on herbal and synthetic drug studies (HSDS-2016). M.C.E. society's, Allana college of pharmacy, Pune.
32. Synapse, state level poster presentation, AISSMS College of pharmacy, 14 Oct 2016.
33. Formulation and Evaluation of Chitosan Based mucoadhesive buccal patch of Prochlorperazine 2018 ,Pune.
34. Formulation of Lipid Nanoparticle for CD4 Receptor Targeting in Rheumatoid Arthritis,2018 ,Pune.
35. Research competition under medicine and pharmacy,AVISHKAR,Sinhgad Institute of pharmacy,Narhe
36. STATISTICAL OPTIMIZATION OF HERBAL CREAM CONTAINING WOUND HEALING AND ANTIFUNGAL AGENTS,
37. 3rd METRxPLORE 2018 (UG Research Conference ),Held at Bhujbal Knowledge city , MET Institute of Pharmacy ,Nashik.2018.

#### **CONFERENCES/ SYMPOSIUMS/CONVENTIONS ATTENDED:**

1. Seminar on Pharmaceutical research : regulation, practice and more, P.E.S. Modern college of pharmacy, Nigdi. 28th Jan 2012.
2. Indian Pharmacological society, IPSCON,Nagpur, 13-Jan-13
3. Perspectives and challenges in implementation of credit system in the curriculum of UOP at post graduate level at Sinhgad College of Pharmacy, Vadgao, Pune- 19th march 2013.
4. International conference on “Navigating pharmacology towards safe and effective therapy”IPSCON-2012, Jan 20.
5. Teachers research Conference INNOVATION-2012, ACT’s Alardcollege of pharmacy, Pune, 18<sup>th</sup> march 2012.

6. Teachers research Conference INNOVATION-2015 at Singhgad college of pharmacy,pune, 29<sup>th</sup>june 2015.
7. Teachers research conference INNOVATION-2014 at Marathwada mitramandal college of pharmacy,pune,BCUD,, 23<sup>rd</sup>april 2014.
8. Association of Pharmacy teachers of India, 'Emerging trends in pharmacy profession and education' 19<sup>th</sup> annual convention, Pune.
9. 2<sup>nd</sup> international conference on herbal and synthetic drug studies (HSDS-2014). M.C.E. society's, Allana college of pharmacy, Pune, 10<sup>th</sup>feb 2014.
10. 3<sup>rd</sup> international conference on herbal and synthetic drug studies (HSDS-2016). M.C.E. society's, Allana college of pharmacy, Pune, 7<sup>th</sup> Jan 2016.
11. Training program on "Indian Patenting& filing Procedures" held by RUSA, at SPPU on 24/8/2016.
12. Organized seminar on "Application of texture analysis in pharmaceuticals" at AISSMS college of Pharmacy,23/09/2016.
13. Poster titled Preparation and evaluation of novel thiolated polymer for transmucosal drug delivery application at Control Release Society, Mumbai 2012.
14. Poster titled Anti-Rheumatic activity of Chloroquine containing topical drug delivery system using complete freunds adjuvant (CFA) model, at IPSCON 2013 KB college of Pharmacy, Kampti, on 4-6 Jan 2013. Abstract no AIN29.
15. Effect of excipients on solid state phase transformation of drug during storage. Frontiers in formulation and development technology.22- 24 August 2013. M.C.E. society's, Allana college of pharmacy, Pune.
16. Formulation and optimization of dithranol loaded lecithin organogel for topical drug delivery. Frontiers in formulation and development technology. Frontiers in formulation and development technology.22- 24 August 2013. M.C.E. society's, Allana college of pharmacy, Pune.
17. Formulation and evaluation of sustained release matrix tablet using crosslinked xyloglucan,. Frontiers in formulation and development technology. M.C.E. society's, Allana college of pharmacy, Pune
18. Preparation and evaluation of novel thiolated polymer for transmucosal drug delivery application. National conference on advances in bioanalytical techniques, 21-22 Sep 2013. BVDU Poona college of pharmacy, Pune.
19. Formulation and evaluation of topical preparation containing chloroquine-SLN for rheumatoid arthritis. 2<sup>nd</sup> international conference on Herbal and Synthetic Drug Studies, P-071, held on 10-12 Feb 2014, Interdisciplinary Science and Technology Research Academy (ISTRA) at Allana college of Pharmacy, Pune.
20. Design and Develoment of liposomes for colon targeted drug delivery, P-074, 2<sup>nd</sup> international conference on Herbal and Synthetic Drug Studies, held on 10-12 Feb 2014 ISTRA at Allana college of Pharmacy, Pune.



21. Formulation and evaluation of topical preparation containing chloroquine-SLN for rheumatoid arthritis. 27-29 march 2014 .Modern college of pharmacy, Moshi, Pune.
22. Preparation and evaluation of novel thiolated polymer for transmucosal drug delivery application . Advances in NDDS present scenario and industrial perspectives.Modern college of pharmacy, Moshi, Pune.
23. Poster presentation on Formulation And Evaluation Of Taste Masked Product Of Lornoxicam Using Ion Exchange Resin Apticon 28-29/11/14 abstract no 1528
24. poster presentation on Emerging trends in pharmacy profession and education APTICON 2014, 28<sup>th</sup>nov2014
25. Emerging trends in dosage form design,Pune university,pune,5th December 2014.
26. Development of chloroquin nanoparticles for oral treatment of rheumatoid arthritis, AICTE Nanded.
27. SPPU sponsored Two Days National Level Seminar on Emerging Challenges and Trends in Dosage Form Design. 5<sup>th</sup>- 6<sup>th</sup> December 2014 organized by Pad. Dr. D.Y. Patil Institute of Pharmaceutical Science &Research, Pimpri, Pune.
28. Formulation and evaluation of topical preparation containing chloroquine-SLN for rheumatoid arthritis. 2<sup>nd</sup> international conference on herbal and synthetic drug studies (HSDS-2014). M.C.E. society's, Allana college of pharmacy, pune.(2014).
29. Research competition under medicine pharmacy,AVISHKAR, BCUD,SPPU,Pune.
30. Evaluation of cystine xyloglucan thiomers as gastric retentive matrix for atenolol tablets, IPC 68th, , AU college of pharmaceutical sciences, Vishakhapatnam, AP.16-18 Dec 2016.
31. Enhancement of oral bioavailability of Lopinavir using xyloglucan thiomers, Synapse, state level poster presentation, AISSMS College of pharmacy, 14 Oct 2016.
32. Research competition under medicine and pharmacy,AVISHKAR,Sinhagad Institute of pharmacy,Narhe.
33. An effective treatment for Rheumatoid Arthritis using Folate conjugated chloroquine nanoparticles.
34. Formulation of reserpidin loaded solid lipid nanoparticles for the treatment of rheumatoid arthritis.
- 35.

#### **WORKSHOPS / SEMINARS/REFRESHER COURSE ATTENDED:**

1. **One day training workshop on "Optimization techniques and factorial designs"**
2. Seminar on Pharmaceutical research: regulation, practice and more P.E.S. Modern college of pharmacy, Nigdi ,28th Jan 2012.
3. One day training workshop on "Optimization techniques and factorial designs" Singhgad college of pharmacy,vadagaon, 08-Apr-12.

4. Perspectives and challenges in implementation of credit system in the curriculum of UOP at postgraduate level, Singhgad college of pharmacy, vadagaon, 19th march 2013.
5. one day workshop on examination systems by AISSMS COP, 24th feb 2014.
6. Two days Annual National Convention of APTI Emerging trends in Pharmacy Profession and Education, Apticon, 28-29/11/14
7. Training program on "Indian Patenting & filing Procedures", AISSMS COP(RUSA), 24/8/2016
8. Application of texture analysis in pharmaceuticals, AISSMS COP, 23/09/2016
9. Training program on "Indian Patenting & filing Procedures", Training program on "Indian Patenting & filing Procedures" UOP, 24/8/2016.
10. Application of texture analysis in pharmaceuticals, Application of texture analysis in pharmaceuticals, UOP, 23/09/2016.
11. Invitro invivo correlation, AISSMS College of Pharmacy, SPPU, 17-18 jan 2019.

#### **PARTICIPATION AS RESOURCE FACULTY:**

1. one day workshop on Optimization techniques statistical and factorial designs, Singhgad college of pharmacy, vadagaon, pune, 4th august 2012.
2. Application in statistics in designing pharmaceutical experiments, Singhgad institute of Pharmaceutical sciences, Lonavala, Pune. 2nd march 2012.
3. Drug delivery system: preformulation to industrial development, Bansal College of pharmacy, Bhopal, AICTE, 3rd june 2013.
4. Current research on application of nanotechnology in medicine, Dr.D.Y.Patil institute of pharmace AISSMS College of Pharmaceutical sciences and research, Pune. 18th oct 2013.
5. Nanotechnology in pharmaceutical sciences, Loknete Dr. J.D.Pawar college of pharmacy, Nashik, 28th Jan 2015.

#### **REVIEWER:**

- ❖ International Journal of Pharmaceutics
- ❖ Drug development and industrial pharmacy
- ❖ AAPS Pharm Sci Tech