



AISSMS

COLLEGE OF PHARMACY



Approved by AICTE & PCI New Delhi, Recognized by
the Government of Maharashtra, 2f, 12B recognition by UGC, Affiliated to
Savitribai Phule Pune University College ID No. PU / PN / Pharm / 117 / (1996)
Accredited by NAAC with 'A' Grade

(Linkedin ID:)



Name: Dr. Rahul R Padalkar

Designation : Assistant Professor

Qualifications: M Pharm PhD

Contact No: 7276720159

Email-Id: rpadalkar@aissmscop.com

PROFESSIONAL EXPERIENCE: 17 years teaching, 5 years industry

TOTAL EXPERIENCE IN YEARS: 22

AREAS OF INTEREST: Formulation development and innovations in areas like wound healing, hemostasis, transmucosal and targeted drug delivery, taste masking, environment friendly healthcare and hygiene products etc

Ph.D. STUDENTS GUIDED: -

M.PHARM STUDENTS GUIDED: 4

BOOKSAUTHORED: -

PROFESSIONALAFFILIATIONS: MSPC, APTI

PROJECTSHANDLED/GRANTSRECEIVED: BCUD (Rs. 3 lak) Industry (1.3 lak)

MEMBER OF EDITORIAL BOARD: -

INSTITUTIONAL AND ADMINISTRATIVE RESPONSIBILITIES: President-Institutional Innovation Council, College Awards Committee, Students Achievements Committee, Research Advisory Committee, Internal Complaints Committee

AWARDS/ACHIEVEMENT/MEDALS: 1st prize at International Level of Anveshan (2022, 2024), 2nd and 3rdmprize at International Level of Anveshan (2024 and 2020 respectively); 1st, 2nd and 3rd prize at State Level of Avishkar (2024, 2025 and 2023 respectively) as guide of the team.

PUBLICATIONS:

INTERNATIONALRESEARCHPUBLICATIONS

1. Formulation design and optimization of novel taste masked mouth-dissolving tablets of tramadol having adequate mechanical strength, AR Madgulkar, MR Bhalekar, RR Padalkar, AAPS PharmSciTech 2009;10 (2), 574-581.

2. MR Bhalekar, DM Mathure, RR Padalkar. Formulation and statistical optimization of controlled release pellets of cetirizine dihydrochloride. *Der Pharmacia Lettre*. 2011; (3)3:443-452.
3. Bhalekar M R, Madgulkar A R, Padalkar R R, Sheladiya D, Simplex wax matrix for sustained drug delivery of venlafexine. *Inventi Rapid*, May, 2011.
4. Madgulkar A R, Bhalekar M R, Padalkar R R, Patil N S, Umbaranikar D U. Formulation development and in vivo evaluation of repaglinide chitosan beads using factorial design., *American journal of medicine and medicinal sciences*, 2012, Vol.2(4) , 62-70.
5. Ashwini R. Madgulkar, Manges R. Bhalekar, Rahul R. Padalkar, and Mohseen Y. Shaikh. Optimization of Carboxymethyl-Xyloglucan-Based Tramadol Matrix Tablets Using Simplex Centroid Mixture Design. *Journal of Pharmaceutics*, vol. 2013, Article ID 396468, 11 pages, 2013. doi:10.1155/2013/396468
6. P. Datrange, S. Kulkarni, and R. R. Padalkar, "Development of taste masked formulation for bitter drug," *Research Journal of Pharmaceutical Biological and Chemical Sciences*, vol. 3, no. 3, pp. 727–753, 2012.
7. R Dandnaik, R Padalkar. Pulsatile drug delivery system. *Inventi Impact: Pharm Tech*. 2012.
8. Bhalekar M, Madgulkar A and Padalkar R. Suspension of oseltamivir phosphate formulation by spray drying technique. *WJPPS*. 2015; 4(10): 667-679.
9. Manges R. Bhalekar, Ashwini R. Madgulkar, Rahul R. Padalkar, Dipul B. Manwar, Taste Masked Beads Of Ondansetron Hydrochloride Using Natural Polymer Xyloglucan, *World Journal Of Pharmacy And Pharmaceutical Sciences*, 2014; Volume 3, Issue 8, 1151-1163.
10. Manges R. Bhalekar, Ashwini R. Madgulkar, Rahul R. Padalkar, Dipul B. Manwar, Comparative Evaluation Of Taste Masking Methods Of Ondansetron Hcl, *World Journal Of Pharmacy And Pharmaceutical Sciences*, 2014; Volume 3, Issue 8, 982-995.
11. Madgulkar AR, Bhalekar MR, Padalkar RR. and Kulangi SL, Formulation And Evaluation Of Suspension Containing Chloroquine Sulphate-Loaded Eudragit Epo Microspheres, *World Journal Of Pharmacy And Pharmaceutical Sciences*, 2014; Volume 5, Issue 11, 719-727.
12. Mrinalini C. Damle, Rahul R. Padalkar and Supriya S. Darandale, Formulation Development And Evaluation Of Novel Mouth Dissolving Drug Delivery System Of Eletriptan Hydrobromide, *World Journal Of Pharmacy And Pharmaceutical Sciences*, 2016; Volume 5, Issue 9, 1590-1604.
13. Manges R. Bhalekar, Ashwini R. Madgulkar, Rahul R. Padalkar, Ashwini H. Sathe, Formulation And Evaluation Of Taste Masked Suspension Of Oseltamivir Phosphate, *World Journal Of Pharmacy And Pharmaceutical Sciences*, 2015; Volume 4, Issue 10, 382-393.

14. Madgulkar, A. R., Padalkar, R. R., & Amale, S. K. (2019). Preformulation Studies of Intranasal Solid Lipid Nanoparticles of Mometasone Furoate. *Journal of Drug Delivery and Therapeutics*, 9(4), 526-528.
15. Mangesh R Bhalekar, Ashwini R Madgulkar, Rahul R Padalkar and Ahillya P Ohol. Formulation and evaluation of dry suspension of taste masked coated pellets of cefixime. *International Journal of Applied Research* 2017; 3(6): 652-658.
16. RR Padalkar, AR Madgulkar, MR Bhalekar. Brain Targeted Delivery of Rizatriptan using Glutathione Conjugated Liposomes through Transmucosal Nasal Route. *International Journal of Pharmaceutical Investigation* 2020;10 (3), 344-350.
17. Rahul Padalkar, Ashwini Madgulkar. In situ Nasal Gel of Granisetron for Enhancement of Bioavailability over Oral Delivery: Formulation, Optimization, and In vivo Evaluation. *International Journal of Pharmaceutical Sciences and Drug Research*. 2020;12(5):544-553.

18. Madgulkar Ashwini R, Padalkar Rahul R, Amale Sushant K. Preformulation Studies of Intranasal Solid Lipid Nanoparticles of Mometasone Furoate. *Journal of Drug Delivery and Therapeutics* volume 9 , issue 4.
19. Rahul Padalkar, Ashwini R. Madgulkar, Rohit Kharade. Wound Healing Dressing System for Diabetic Wounds Based on Curcumin and Syringic Acid. *International Journal of pharmaceutical Investigation*. 2022; 12(1) : 82-86.
20. Rahul Padalkar, Ashwini Madgulkar, Reshma Mate, Abhishek Pawar, Anushka Shinde, Shreya Lohakare. Investigation of curcumin nanoparticles and D –panthenol for diabetic wound healing in wistar rats: Formulation, statistical optimization and in-vivo evaluation. *Journal of Drug Delivery Science and Technology*. Volume 93, 2024, 105390,ISSN 1773-2247. <https://doi.org/10.1016/j.jddst.2024.105390>.
21. Rahul Padalkar, Vaibhav Kapgate and Ashwini Madgulkar. Formulation and evaluation of oral dissolving film of rizatriptan benzoate for geriatric and paediatric patients. *World Journal Of Pharmacy And Pharmaceutical Sciences*. Volume 13, Issue 4, 948-958. 2024.
22. Padalkar R, Madgulkar A, Kulkarni S et al. Repurposing Esmolol for Diabetic Wound Healing: Formulation Development, In-Silico and In-Vivo Evaluation in Diabetic Rats. *Journal of Pharmaceutical Innovation*. 2025; 20,205. <https://doi.org/10.1007/s12247-025-10085-6>.
23. Padalkar R, Madgulkar A, Marathe N et al. Composite Hemostat with Combined Efficiency of Graphene Oxide, Silk Fibroin, Collagen and Sodium Polyacrylate for Quick Control of Hemorrhage. *Journal of Pharmaceutical Innovation*. 2025; 20, 256. <https://doi.org/10.1007/s12247-025-10136-y>.

CONFERENCES/SYMPPOSIALS/CONVENTIONS ATTENDED: 91

PARTICIPATION AS RESOURCE FACULTY: 4

REVIEWER: 6 international journals

□ NPTEL/SWAYAM/PEDAGOGYCOURSES: