



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. Monica RP Rao

Designation : Associate Professor

Qualifications : M. Pharm, Ph.D.

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PROFESSIONAL EXPERIENCE:

1. Working as **Associate Professor** from **March 2013** at AISSMS College of Pharmacy, Pune-411001
2. Worked as **Assistant Professor** from **August 2004** to February 2013 at AISSMS College of Pharmacy, Pune-411001
3. Worked a **Senior Lecturer** from **August 2001** to July 2004 at AISSMS College of Pharmacy, Pune-411001
4. Worked as **Lecturer** from **August 1997** to July 2001 at AISSMS College of Pharmacy, Pune-411001
5. Worked a **Graduate apprentice** from **September 1992** to February 1993 at Hoechst Pharmaceuticals Ltd., Mumbai

TOTAL EXPERIENCE IN YEARS:

- ❖ Teaching: 22 yrs.
- ❖ Research: 15 Yrs
- ❖ Industry: 06 months

SUBJECTS:

B Pharm: Physical Pharmaceutics (since 1997)

M Pharm: Novel drug delivery systems (since 2012)

Sterile Product Technology (since 2004)

Modern Pharmaceutics (since 2012)

AREAS OF INTEREST:

Solubility enhancement

Self nano emulsifying drug delivery

Nanosponges

M. PHARM STUDENTS GUIDED: 54

- ❖ Approved as **PG guide** by Savitribai Phule Pune University and guided 54 M. Pharm students
- ❖ Approved as **PhD guide** by Savitribai Phule Pune University

BOOKS AUTHORED:

PUBLICATION OF INVITED CHAPTER:

Ashwini Madgulkar, Monica RP Rao, Deepa Warriar, Characterization of Psyllium (*Plantago ovata*) Polysaccharide and Its Uses in 'Polysaccharides, Bioactivity and Biotechnology', **Eds:** Jean-Michelle Merillon & Prof. Kishan G Ramavat, Springer International Publishing, Switzerland, 2014, **DOI:** 10.1007/978-3-319-03751-6_49-1. [ISBN: 978-3-319-03751-6]

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: 04
- ❖ No. of Funded Research Projects (University/Industry): 02
- ❖ Amount of Research Grant Received: 4.2 Lakh

INSTITUTIONAL AND ADMINISTRATIVE RESPONSIBILITIES:

- ❖ In Charge-Training and Placement for B Pharm & M Pharm
- ❖ In Charge-Guest lectures
- ❖ In charge- Faculty Development Programme
- ❖ In Charge-Departmental library for Pharmaceutics department

- ❖ In Charge of Curriculum Design under NAAC
- ❖ Member- Internal Quality Assurance Cell
- ❖ Member- Steering Committee and Governance Committee under NAAC
- ❖ Member- College Development Committee, Research Advisory Committee, Internal Complaints Committee, Library Advisory Committee, Internal Quality Assurance Cell, Parents Meet
- ❖ Member- Organizing Committee- SYNAPSE for the year 2016-17 and 2018-19
- ❖ Completed University of Pune sponsored research project worth **Rs 2,00,000/-** in 2009-2011
- ❖ Coordinated University of Pune sponsored National Seminar “Pharmaceutical Technology: Current Perspectives” (2010-11)
- ❖ Completed University of Pune sponsored research project worth **Rs 2,20,000/-** in 2014-2016
- ❖ Coordinated one day state level poster presentation competition “SYNAPSE 2016” organized by AISSMS College of Pharmacy on 14th October 2016.
- ❖ Coordinated Savitribai Phule Pune University sponsored one day State Level Seminar on “**Insights on Different Funding Agencies and Research Proposal Writing**” held at AISSMS College of Pharmacy, Pune on 31st January 2017.
- ❖ **Reviewer for International and National journals** such as Drug Development & Industrial Pharmacy, Food Hydrocolloids, Indian Journal of Pharmaceutical Sciences.

AWARDS/ACHIEVEMENT/MEDALS:

- ❖ Cleared GATE examination with 90 percentile
- ❖ Recipient of AICTE Scholarship during M. Pharm. Course.
- ❖ Best poster titled ‘**Thermoreversible nasal gels for Parkinsonism**’ at **6th Symposium of Indian Pharmaceutical Association on ‘Nasal and Pulmonary Drug Delivery: Global Trends’ 24-25th October, 2013** at Mumbai.
- Delivered lecture on “**Scientific writing- Ideation to publication**” as **resource person** at SPPU sponsored **National Seminar** on ‘Art of Scientific Writing and Publication / Role Of Research Proposal In Scientific Investigations’ at DY Patil College of Pharmacy, Akurdi,Pune on **15th -16th February 2019**.

PUBLICATIONS:

- ❖ REVIEWS: 09
- ❖ NATIONAL & INTERNATIONAL RESEARCH PUBLICATIONS: 54

- ❖ H index - 13
- ❖ i10 Index - 19
- ❖ No of Citations – 527

REVIEW PUBLICATIONS

1. **Monica RP Rao**, Snehal Gorey. Pharmacogenomics and Modern Therapy. **Ind J Pharm Sci.**, 69(2), 2007, 167.
2. Bachchav D, **Monica RP Rao**, Madgulkar AR. Nanotechnology and blood brain barrier. **Ind. Drugs.** 44(4), April 2007, 245-252.
3. **Rao MRP**, Adagalle UR, Shetty A, Namjoshi P, Gaitonde P. Cancer Immunotherapy. **www.pharmainfo.net.** 15th March, 2007.
4. **Rao MRP**, Rathi A, Laghate A, Thigale S. Microwave Chemistry-A Breakthrough Technology. **Ind Pharmacist.** May 2006, p 17.
5. **Rao MRP**, Rathi A, Laghate A, Thigale S. Microneedle-enhanced Transdermal Drug Delivery. **Pharma Times.** 38(4), April 2006.
6. **Rao MRP**, Madgulkar AR. Surface Plasmon Resonance-A New Approach to High Throughput Screening. **Indian Drugs.** 40(10), October 2003, 561.
7. **Rao MRP**, Madgulkar AR. Depyrogenation of Glassware for Parenterals. **Indian Pharmacist.** December 2002, 6-11.
8. **Rao MRP**, Madgulkar AR. Role of pharmacists in community health. Article published in Express Pharma Pulse on 12th December 2012.
9. **Rao MRP**, Madgulkar AR, Damle MC. Nutraceuticals: A Brief Overview. **Ind J Pharm Edu.**, 36(3), July-Sept 2002, 142-148.

NATIONAL & INTERNATIONAL RESEARCH PUBLICATIONS

1. **Monica R.P.Rao**, Sonavane Vijay, Kulkarni Sayali, Magar Mayuri, Zope Abhishek, Karanjkar Pooja. Design of transdermal patch of ketoprofen by full factorial design for treatment of rheumatoid arthritis. **J Drug Del & Ther.** 2019; 9(2):197-205.
2. **Monica R. P. Rao**, Kirti Bhutada, and Pauroosh Kaushal. Taste Evaluation by Electronic Tongue and Bioavailability Enhancement of Efavirenz. **AAPS PharmSciTech.** (2019);20(2):56

3. **Monica R. P. Rao**, Sneha P. Raut, C. T. Shirsath, Monali B. Jadhav and Pranoti A. Chandanshive. Self-nanoemulsifying Drug Delivery System of Mebendazole for Treatment of Lymphatic Filariasis. **Ind J Pharm Sci** (2018);80(6):1057-1068.
4. **Monica RP Rao** and Laxmi S Babrekar. Liposomal Drug Delivery for Solubility and Bioavailability Enhancement of Efavirenz. **Ind J Pharm Sci** (2018) ;80(6):1115-1124.
5. **Rao Monica** , Kamble Priyanka. Formulation and evaluation of antifungal proniosomal Gel for oral candidiasis. **J Drug Del & Ther.** (2018); 8(4):291-301.
6. **Rao Monica***, **Kadam Manali**, **Rao Shivani**. Formulation And Evaluation Of Topical Formulation For Cutaneous Tuberculosis. **J Drug Del & Ther.**(2018); 8(4):102-116
7. **Monica RP Rao**, Jagruti Chaudhari, Francesco Trotta, and Fabrizio Caldera. Investigation of Cyclodextrin-Based Nanosponges for Solubility and Bioavailability Enhancement of Rilpivirine. **AAPS PharmSciTech** (2018); 19(5):2358-2369.
8. **Monica RP Rao**, Snehal Gaikwad, Prachi Shevate. Synthesis and characterization of novel mucoadhesive derivative of psyllium seed polysaccharide. **Int J Pharm Pharmaceu Sci** 9(6), (2017) 166-175.
9. **Monica RP Rao**, Vaishali K, Laxmi B, Jagruti C. Synthesis and Characterization of psyllium seed mucilage grafted with N,N-methylene bisacrylamide. **Int J Bio Macro** 103 (2017) 338-346.
10. **Monica RP Rao**, Shilpa J, Swati T, Vaishali K. Design and Pharmacodynamic Evaluation of Optimized Microporous Osmotic Tablet of Venlafaxine Hydrochloride. **Ind J Pharm Sci** 2017;79(2):241-149
11. **Monica RP Rao** and Chaitanya Shirsath. Enhancement of bioavailability of non-nucleoside reverse transcriptase inhibitor using nanosponges. **AAPS PharmSciTech.**, July 2017, 18(5) pp 1728–1738 (2016-10-18): 1-11. DOI: 10.1208/s12249-016-0636-6.
12. **Monica RP Rao**, **VM Pawar**. Enhanced Solubility And Bioavailability of Sulfasalazine By Evaporative Nanocrystallization. **World J Pharm Res**, 5(9), 2016, 814- 832.
13. **Monica Rao**, Deepak Kumar Agrawal and Chaitanya Shirsath. Thermoreversible mucoadhesive in situ nasal gel for treatment of Parkinson's disease. **Drug Dev Ind Pharm.** 43 (1), 2016,142-150. <http://dx.doi.org/10.1080/03639045.2016.1225754>

14. **Monica R. P. Rao**, Swati Taktode, Shivraj Shivpuje, Shilpa Jagtap. Optimization of transmucosal buccal delivery of losartan potassium using factorial design, **Ind J Pharm Edu Res.** 50(2), S132-S139, Apr-Jun 2016.
15. **Monica R. P. Rao**, Shivraj Shivpuje, Rohit Godbole, Chaitanya Shirsath. Design and evaluation of sustained release matrix tablets using sintering technique, **Int J Pharm Pharma Sci.** 8(2):115-121.2016.
16. **Monica R. P. Rao**, Deepa U. Warriar, Snehal R. Gaikwad, Prachi M. Shevate. Phosphorylation of psyllium seed polysaccharide and its characterization, **Int J Biol Macromol**, 85:317-326. 2016.
17. **Monica R. P. Rao**, Deepa U. Warriar And Shivani H. Rao. Evaluation Of Phosphorylated Psyllium Seed Polysaccharide As A Release Retardant, **Ind J Pharm Sci.**, 77(5): 605-612.2015.ISSN: 0250-474X.
18. **Monica R. P. Rao** and Rohini C. Bhingole Nanosponge-based pediatric-controlled release dry suspension of Gabapentin for reconstitution, **Drug Dev Ind Pharm**, 2015;41(12):2029-36 DOI: 10.3109/03639045.2015.1044903
19. **Monica RP Rao**, Swapnil Shelar. Controlled Release Ion Sensitive Floating Oral in situ Gel of a Prokinetic Drug using Gellan Gum. **Ind J Pharm Edu Res** 49(2), Apr-Jun 2015, 158-167.
20. **Monica RP Rao**, Aafaque Yunusi, Swapnil Shelar. Formulation and Evaluation of Floating Microcapsules of Cefpodoxime Proxetil. **Ind J Pharm Edu Res** 48(4) supplementary, Oct-Dec 2014, 105-113.
21. **Monica RP Rao**, Swapnil U. Shelar, Aafaque Yunusi. Controlled release floating oral *insitu* gel of Itopride Hydrochloride Using pH sensitive polymer. **Int J Pharm Pharma Sci.**, 2014, 6(11), 338-343. **ISSN- 0975 – 1491**
22. **Rao MRP, Bajaj A.** Study of effect of variables on particle size of telmisartan nanosuspensions using Box-Behnken design. **Drug research**, 2014, 64, 663-667 [DOI:0.1055/s-0034-1368701] (**IF: 0.53**)
23. **Monica Rao, Priyanka Sadaphule.** Development and evaluation of mucoadhesive buccal tablets of ketorolac tromethamine. **Ind J Pharm Edu Res.**, Vol. 48, Issue 1, Apr-Jun.2014.
24. **Monica Rao**, Sheetal Aghav. Spray-dried redispersible emulsion to improve oral bioavailability of itraconazole. **J Surfactants & Detergents**, **Monica Rao**, Sheetal Aghav.

- Spray-dried redispersible emulsion to improve oral bioavailability of itraconazole. **J Surfactants & Detergents**, 2014, **17**, 4, 807-817. [DOI:10.1007/s11743-013-1538]. (IF: 1.55)
25. **Monica RP Rao**., Priyanka Sadaphule, M.Khembete, H.Lunawat, K.Thanki, N.Gabhe. Characterization of Psyllium Polysaccharide (*Plantago ovata*) and its use as a binder in Tablets. **Ind J Pharm Edu Res.**, Vol. 47, Issue 2, Apr-Jun.2013.
26. **Monica Rao**, Girish Sukre, Sheetal Aghav, Manmeet Kumar. Optimization of Metronidazole Emulgel, **J of Pharmaceutics**. Vol.3 2013.
27. **Monica RP Rao**, Shital Aghav, Girish Sukre, Manmeet Kumar. Determination of RHLB Of Capryol 90. **J Disp. Sci. Tech.**,35(2), 2014. 161-167. DOI: 10.1080/01932691.2013.777824.
28. **Monica R.P.Rao**, Amrita Bajaj, Amol Pardeshi, Dhanesh Sali. Nanocrystallization by evaporative antisolvent precipitation for enhancement of solubility and bioavailability of telmisartan, **AAPS PharmSciTech.**, 13(4), 2013, 1331-1340. [DOI: 10.1208/S12249-012-9860-x]
29. **Monica R.P. Rao**, Nishad Gabhe, Manasi Gunjal, Supriya Bhide, Harshad Lunavat, Mihir Khambete. Binary And Ternary Solid Dispersions Of Fenofibrate For Solubility Enhancement. **Int J Pharm Pharm Sci.**, Vol 4, Suppl 4, 76-77, 2012.
30. **Monica RP Rao**, Amrita Bajaj, Ishwar Khole, Ghanshyam Munjapara & Francesco Trotta. *In vitro* and *in vivo* evaluation of β -cyclodextrin-based nanosponges of Telmisartan, **J Incl Phenom Macrocycl Chem.**, December 2013, **77** (1-4), 135-145. DOI 10.1007/s10847-012-0224-7
31. **Monica RP Rao**, Manmeet Kumar, Shital Aghav, Girish Sukre. Development and Validation of HPTLC Method for Determination of bromhexine hydrochloride in Human Plasma. **Res J Pharm Tech.**, 5(8): August 2012.
32. **Monica RP Rao***, Amrita N. Bajaj, Amol A. Pardeshi, Shital S. Aghav. Investigation of nanoporous colloidal carrier for solubility enhancement of Cefpodoxime proxetil. **J of Pharmacy Research**, 2012,5(5),2496-2499.
33. **Monica RP Rao**, Amrita Bajaj, Ishwar Khole and Ghansham Munjapara. Self-nanoemulsifying drug delivery system of cefpodoxime proxetil containing tocopherol

polyethylene glycol succinate. **Drug Development and Industrial Pharmacy**..2013 May; 39(5):635-45, DOI: 10.3109/03639045.2012.683440.

34. **Monica RP Rao**, Rewathi Shiledar, Manjiri Bhosale, Mayuresh Garud, Ganesh Medhekar. Comparative dissolution studies of marketed tablets of telmisartan in biorelevant media. **American J Pharmtech Research**., 2(2), 2012, 655-662.
35. Kaushik Thanki, Sushant Kulthe, Yogesh Mandge, **Monica RP Rao**. Formulation development and IVIVC of Controlled porosity osmotic pump tablets of carvedilol phosphate. **J Pharmacy Research**, 4 (12), 2012, 4736-4740.
36. **Monica RP Rao**, Dhanesh Sali, Amol Pardeshi,, Amruta Badhe. Formulation of dual pulse multiparticulate dosage form of an antihypertensive drug. **Pharm Tech**., (3), 2011, 245-249.
37. **Monica RP Rao**, Yogesh Mandage ,Ghanshyam S.Munjapara., Ishwar Khole. Characterization of solid dispersions of simvastatin with PVPK30 and Poloxamer 188. **Ind.J.Pharm.Edu.Res.**, 45(2), Apr-Jun.2011.,86-90.
38. **Monica RP Rao**, D.G.Bachhav, R.B.Rode, K.R.Nikam, N.D.Pathade. Compatibility study of aceclofenac and tablet disintegrants by thermal and non thermal methods. **Res J Pharm Tech**., 4(3), 2011,423-427.
39. **Monica RP Rao**, M.P.Khambete, H.N.Lunawat. Study of rheological properties of psyllium polysaccharide and its evaluation as suspending agent. **Int J Pharm Tech Res**., 3(2),2011, 1191-1197. ISSN 09744304.
40. **Monica RP Rao**, Ghanshyam Munjapara,Ishwar Khole. Preparation and evaluation of self-microemulsifying drug delivery system of carvedilol. **Latin Am J Pharmacy**., 30(5), 2011,837-843. (IF: 2.853)
41. **Monica RP Rao**, Vishal K. Gogad, Girish S. Sonar, Swapnila D. Vanshiv, Amruta S. Badhe. Preparation and Evaluation of Immediate Release tablet of Metoclopramide HCl using Simplex Centroid Mixture Design. **Int J Pharm Tech Res**, Vol.2, No.2, April-June 2010, 1105-1111.
42. **Monica Rao**, Yogesh Mandage, Kaushik Thanki, Sucheta Bhise. Dissolution Improvement of Simvastatin by Surface Solid Dispersion Technology, **Dissolution Technology**, May 2010, 5-13, 26-33.

43. **Monica RP Rao**, Parikh GN, Borate SG, Anuradha A Ranpise, Mandage Yogesh, Kaushik Thanki. Design, evaluation of comparative study of pulsatile release from tablet and capsule dosage forms. **Iranian J Pharm Sci.**, 2009, 5(3), 119-128.
44. **Monica RP Rao**, Anuradha A.Ranpise, KC.Thanki, SG.Borate and GN Parikh. Effect of Processing Methods and Sintering Conditions in the development of Controlled Release Wax Matrix Tablets of Ketorolac Tromethamine. **Ind J Pharm Sci** 2009, 71(5), 538-544.
45. Girish Sonar, **Monica RP Rao**, RR Mandsaurwale, Vishal K Gogad, Swapnila Vanshiv. Bioadhesive-floating matrix tablet of salbutamol sulphate using response surface methodology: optimization and in vitro evaluation, **J Pharmacy Research**, 2009, 2(5), 908-14.
46. **Monica Rao**, Anuradha Ranpise, Sameer Borate, Kaushik Thanki. Mechanistic Evaluation of the effect of sintering on Compritol 888 ATO matrices. **AAPS Pharm Sci Tech.**, 2009, Jun; 10(2): 355–360. DOI: 10.1208/s12249-009-9211-8.10(2):6.
47. **Monica RP Rao**, Borate SG, Thanki KC, Anuradha A Ranpise, Parikh GN. Development & in-vitro evaluation of floating Rosiglitazone maleate microspheres. **Drug Dev Ind Pharm.** 35(7),2009, 834-42.
48. Vanshiv SD, **Monica RP Rao**, Sonar G, Gogad V, Borate S. Physicochemical Characterization & in-vitro dissolution of Domperidone by solid dispersion technique. **Ind J Pharm Edu & Res.**, 43(1), Jan-Mar.2009, 86-90.
49. **Monica RP Rao**, Girish Sonar, Rachana Mandsaurwale, Swapnila Vanshiv. Evaluation of effervescent floating matrix tablet formulations of salbutamol sulphate using full factorial design. **Asian J Pharm.**, Jan-Mar.2009, 43-49.3(1).
50. **Monica RP Rao**, Vanshiv SD, Sonar GS, Gogad VK. Use of Ultrasound in chemical synthesis and particle engineering. **Ind Drugs.** 45(11), Nov.2008, 869-73.
51. Vanshiv SD, **Monica RP Rao**, Sonar GS, Gogad VK. Physicochemical Characterization and in vitro dissolution of Oxcarbazepine and cyclodextrins inclusion complexes. **Ind Drugs.** 45(10), 2008, 816-21.
52. **Monica RP Rao**, Swapnila Vanshiv, Girish Sonar, Vishal Gogad. Physicochemical Characterization of solid dispersions of Oxcarbazepine with PVP K30 and Gelucire 44/14. **Int J Pharm Excip.**, Oct-Dec.2007, 168-74.

53. **Monica Rao**, Devidas Bachchav, Prashant Dighe, Vishal Gogad, Girish Sonar. Comparative Evaluation of Thermal and Nonthermal Methods for Compatibility Studies. **Int J Pharm Excip.**, July-Sept.2007, 84.
54. **Monica RP Rao**, Bachchav D, Gogad V. Formulation and evaluation of Aceclofenac immediate release tablets. **Ind. Pharmacist.** VI, 61, July 2007, 73-79.

PRESENTATIONS:

1. Poster titled **“Solubility Enhancement of Efavirenz by development of Self Nano-Emulsifying Drug Delivery System (SNEDDS)”**. Rao Monica*, Rohom Sourabh, Panse Mayuri, Keskar Ria, presented at Metexplore 2019 at MET College Pharmacy, Nasik. Oct-16, 2018.
2. Poster titled **“Formulation and evaluation of topical formulation for Cutaneous Tuberculosis”** Rao Monica*, Kadam Manali, Rao Shivani, Abhishek Zope, Mayuri Magar, presented at Synapse 2018 at AISSMS College Pharmacy, Pune. Oct-16, 2018.
3. Poster titled **“Formulation and Evaluation of Antifungal Proniosomal Gel for Oral Candidiasis”** Rao Monica, Priyanka Kamble, Rao Shivani, Pooja Karanjkar, Sayali Kulkarni presented at Synapse 2018 at AISSMS College Pharmacy, Pune. Oct-16, 2018.
4. Poster titled **‘Development and evaluation of modified natural polysaccharide and its use as a pharmaceutical excipient’**, presented at 68th Indian Pharmaceutical Congress, December 16-18th, 2016 at Andhra University. Vishakhapattanam.
5. Poster titled **‘Self nano-emulsifying drug delivery system of mebendazole for treatment of lymphatic filarisis’**, presented at 68th Indian Pharmaceutical Congress, December 16-18th, 2016 at Andhra University. Vishakhapattanam
6. Poster titled **‘Development and evaluation of modified natural polysaccharide and its use as a pharmaceutical excipient’**, presented at Synapse AISSMS College Pharmacy, Pune. Oct-14, 2016.
7. Poster titled **‘Development of controlled release multiparticulate system of poorly soluble drug by nanocrystallization’**, presented at 67th Indian Pharmaceutical Congress, December 19-21st, 2015 at JSS College of Pharmacy, Mysore.
8. Poster titled **‘Modification of Psyllium seed by acrylation and its evaluation for designing controlled drug delivery system’**, presented at 67th Indian Pharmaceutical Congress, December 19-21st, 2015 at JSS College of Pharmacy, Mysore.
9. Poster titled **‘Design and pharmacodynamic evaluation of microporous osmotic tablets of venlafaxine hydrochloride’**, presented at 67th Indian Pharmaceutical

Congress, December 19-21st, 2015 at JSS College of Pharmacy, Mysore.

10. Poster titled **‘Development of controlled release multiparticulate system of poorly soluble drug by nanocrystallization’** presented at **National Conference on Nanotechnology in Drug delivery research: Innovations, Challenges and Opportunities’**, October 16-17, 2015 at Shobhaben Pratapbhai Patel School of Pharmacy & Technology Management, Mumbai.
11. Poster titled **‘Formulation, Development and Evaluation of controlled release dry suspension for reconstitution’** presented at **National Conference on Nanotechnology in Drug delivery research: Innovations, Challenges and Opportunities’**, October 16-17, 2015 at Shobhaben Pratapbhai Patel School of Pharmacy & Technology Management, Mumbai.
12. Poster titled **‘Characterization of modified psyllium (Plantago ovate) seed polysaccharide and its use as a binder’** accepted for presentation at **66th Indian Pharmaceutical Congress**, January 23rd – 25th, 2015 at HITEX Exhibition Centre, Hyderabad.
13. Poster titled **‘Controlled release floating oral in situ gel of Itopride hydrochloride using pH sensitive polymer’** accepted for presentation at **66th Indian Pharmaceutical Congress**, January 23rd – 25th, 2015 at HITEX Exhibition Centre, Hyderabad.
14. Poster titled **‘Evaluation of phosphorylated psyllium seed polysaccharide as a release retardant’** presented at **19th Annual Convention of Association of Pharmaceutical Teachers of India** held at Pune between 28th –30th November, 2014.
15. Poster titled **‘Development and evaluation of mucoadhesive bilayered buccal patches of ketorolac tromethamine’**, presented at 65th Indian Pharmaceutical Congress, December 20-22nd, 2013 at Amity University, New Delhi.
16. Poster presentation titled **‘Thermo reversible nasal gels for Parkinsonism’** Monica R.P.Rao & Deepakkumar Agarwal, **6th International Symposium of Indian Pharmaceutical Association on ‘Nasal and Pulmonary Drug Delivery: Global Trends’ 24-25th October, 2013** at Mumbai.
17. Poster presentation titled **‘Formulation development & evaluation of oral controlled release suspension of cephalosporin antibiotic’** at National level seminar on **‘Frontiers in formulation & development technology’** at Allana College of Pharmacy, Pune, 22-24th August 2013.
18. Poster presentation titled **‘Telmisartan Nanosuspensions: Optimizing Particle Size Using Design Of Experiments’**, Sanju Rai, Bajaj Amrita, Rao Monica, R.P., **13th International Symposium of Controlled Release Society, Indian Chapter to be held on Jan.22nd – 23rd, 2013** at JW Marriott, Mumbai.

19. Poster presentation titled 'Telmisartan Nanocrystals For Solubility And Bioavailability Enhancement', Shrikhande Shruti, Bajaj Amrita, **Rao Monica, R.P.**, Aghav SS, **12th International Symposium of Controlled Release Society, Indian Chapter** held on **Feb.9th-10th, 2012** at Grand Hyatt, Mumbai.
20. Poster presentation titled 'Development & evaluation of pulsatile drug delivery system'. Kumar Manmeet, Sali DH, **Rao Monica,R.P.**, Aghav SS, **63nd Indian Pharmaceutical Congress-2011**, December 16-18, 2011, Bengaluru, Karnataka.
21. Poster presentation titled 'Nanosponge carriers for solubility enhancement and modulated release', **Rao Monica,R.P.**, Bajaj Amrita,**11th International Symposium of Controlled Release Society Indian Chapter** held on Feb.16th-17th,2011 at ITC Grand Maratha, Mumbai.
22. Poster presentation titled 'Solid self emulsifying system of cefpodoxime proxetil containing TPGS'. **Rao Monica,R.P.**,Bajaj Amrita, Munjapara G, Badhe Amruta **62nd Indian Pharmaceutical Congress-2010**, December 17-19, Manipal, Karnataka.
23. Poster presentation titled 'Particle engineering of Fenofibrate with Poloxamer 407 for solubility & dissolution enhancement', Sali D.H. **Rao M.R.P.**, Bhise S.D., Badhe A.S.,**62nd Indian Pharmaceutical Congress-2010**,December 17-19, Manipal, Karnataka.
24. Poster presentation titled 'Formulation and characterization of novel solid self microemulsifying drug delivery system of Carvedilol', Pardeshi A.A., **Rao M.R.P.**,Munjapara G.,Sali D.H.,**62nd Indian Pharmaceutical Congress-2010**,December 17-19,Manipal,Karnataka.
25. Poster presentation titled 'Nanoparticulate delivery system for solubility enhancement of Telmisartan', **Rao Monica,R.P.**, Bajaj Amrita, Kolhe I ,**16th International Symposium on Innovations in Pharmaceutical Sciences and Technology** 26-27th,November 2010,B.V.Patel Pharmaceutical Education and Research Development (PERD)Center, Ahmedabad.
26. Poster presentation titled 'Particle engineering of Fenofibrate with Poloxamer 407 for solubility & dissolution enhancement' **Bhor 2010**.
27. Poster presentation titled 'Extraction & Evaluation of Natural Polysaccharide as Novel Pharmaceutical Excipientat **Innovation 2008-09,Regional Conference for Pune University College Teachers** held at **SGRS College of Pharmacy, Saswad** on 5th -6th January 2010.
28. Poster presentation titled 'Solubility enhancement of Fenofibrate using TPGS & Poloxamer 188' at **Avishkar 2009** held at **Sinhagad College of Pharmacy, Wadgaon, Pune**.

29. Poster presentation titled 'Influence of formulation variables on the in vitro performance of controlled porosity osmotic pump tablets of carvedilol phosphate' at **Indian Pharmaceutical Congress** held at **Ahmedabad** between December 2009.
30. Paper titled 'Controlled release sintered wax matrix tablets for Ketorolac Tromethamine: Effect of Processing methods and Sintering' accepted for poster presentation at **36th Annual Meeting & Exposition of the Controlled Release Society** held at **Copenhagen, Denmark** between 18th-22nd July 2009.
31. Paper titled 'Formulation development and in vitro evaluation of controlled release wax matrix tablets of Ketorolac tromethamine' accepted for poster presentation at **12th Annual International Symposium of the Canadian Society for Pharmaceutical Sciences** held at **Ontario, Canada** between 3rd-6th June 2009.
32. Poster presentation titled 'Extraction & Evaluation of Natural Polysaccharide as Novel Pharmaceutical Excipient' at **Innovation 2008-09, Regional Conference for Pune University College Teachers** held at **SGRS College of Pharmacy, Saswad** on 21st-22nd November 2008.
33. Poster presentation titled 'Design and evaluation of multiparticulate pulsatile drug delivery system' at **Indian Pharmaceutical Congress** held at **New Delhi** between December 2008.
34. Poster presentation titled **1]Solid dispersions of Oxcarbazepine with PVP K30 & Gelucire 44/14 2]Teaching Methodology3]Revamping curriculum: Need of the hour 4] Effect of polymer ratio & HPMC grade on the release characteristics of Bioadhesive floating tablet formulation using response surface methodology** at **Indian Pharmaceutical Congress** held at **Benares** between December 2007.
35. Poster presentation titled **1]Preparation and evaluation of solid dispersions of domperidone-PEG 4000-surfactant system 2]Comparative evaluation of different carriers for improving solubility of drug 3]Optimization of salbutamol sulphate bioadhesive floating matrix table formulation using factorial design** at seminar on **Frontiers in drug discovery and process research** held at **Bharati Vidyapeeth's College of Pharmacy, Kolhapur** on 3rd & 4th March 2007.
36. Poster presentation titled **1]Preparation and evaluation of gas generating salbutamol sulphate matrix tablets using stearic acid 2]Preparation and evaluation of bilayer tablets with two incompatible drugs** at **7th International Symposium of Controlled Release ,Society**, Indian Chapter at **Mumbai** on 13th & 14th February, 2007.
37. Poster presentation titled 'Cancer Immunotherapy' in Jan.2006 at National Seminar on Challenges and Opportunities posed by Biotechnology and IPR at **PES College of Pharmacy, Bangalore**.

38. Poster presentation titled 1] Need-based Pharma education 2] Knowledge management at 7th **National APTI Convention at Goa** in Sept.2002.

39. Poster presentation titled 1] Continuing Education Programme 2] Classroom management 3] Communication skills at 6th **National APTI Convention at Nasik** in Sept.2001.

CONFERENCES/ SYMPOSIUMS/CONVENTIONS ATTENDED:

- SPPU sponsored 02 days National seminar on “**In vitro in vivo correlation**” on 17th – 18th January 2019 at **AISSMS College of Pharmacy, Pune**.
- SPPU sponsored 02 days National seminar on “**Insights of accreditation process for affiliated colleges**” on 6th – 7th February 2018 at **AISSMS College of Pharmacy, Pune**.
- SPPU sponsored 01 day National seminar on “**Insights On Different Funding Agencies and Research Proposal Writing**” on 31st January 2017 at **AISSMS College of Pharmacy, Pune**.
- 19th Annual Convention of **Association of Pharmaceutical Teachers of India** held at Pune between 28th –30th November, 2014.
- 6th Symposium of **Indian Pharmaceutical Association** on ‘**Nasal and Pulmonary Drug Delivery: Global Trends**’ 24-25th October, 2013 in Mumbai.
- **11th International Symposium of Controlled Release Society Indian Chapter** held on **Feb.16th-17th, 2011** at ITC Grand Maratha, Mumbai.
- **16th International Symposium on Innovations in Pharmaceutical Sciences and Technology** 26-27th, November 2010, B.V.Patel Pharmaceutical Education and Research Development (PERD) Center, Ahmedabad.
- National Seminar on ‘**Present & Future Perspective of Drug Delivery System**’ at PES College of Pharmacy, Bangalore on 28th & 29th December, 2007.
- **7th International Symposium of Controlled Release Society Indian Chapter** at Mumbai on 13th & 14th February, 2007.
- **AICTE-ISTE** sponsored two weeks Short Term Training Programme on ‘**Current Trends in Formulation Technology of New Drug Delivery Systems**’ held at Nirma University of Science & Technology, Ahmedabad between 1st-15th November 2003.
- **ISTE** sponsored two weeks faculty development program on ‘**Advances in Pharmaceutical Sciences**’, held at BV’s Poona College of Pharmacy between 22nd May

– 6th June 2003.

- One day seminar on **‘Dissolution Testing of Pharmaceuticals’** organized by **Bharati Vidyapeeth’s Poona College of Pharmacy**, on 8th Sept, 2001.
- **AICTE** sponsored one week National Seminar on **‘New Avenues in Drug Design’** at **AISSMS College of Pharmacy** between 14th – 19th May 2001.
- **AICTE–ISTE** sponsored two-weeks Short Term Training Program Titled **‘Pharmaceutical Technology in Next Millennium’** at **AISSMS College of Pharmacy** between 19th June to 1st July 2000.
- **‘The Latest Advances in the Pharmaceutical Technology’** organized by **Indian Pharmaceutical Association** on 30th September 1999.

REVIEWER:

- Drug Development & Industrial Pharmacy
- Food Hydrocolloids
- Indian Journal of Pharmaceutical Sciences
- AAPS Pharmscitech

Dr.Monica RP Rao