

PRINCIPAL INVESTIGATOR BIO-DATA

Name and full correspondence address : **Dr. (Mrs.) Supriya Shrihari Shidhaye**
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Contact Number : **9920585547**

Institution : Vivekanand Education Society's College of Pharmacy,
Chembur, Mumbai

Date of Birth : 12/03/1967



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- **Total Professional Experience in Years** : **28 years**
 - **Total amount of research grants received from government and Industrial bodies** : **Rs. 1,05,98,865/-**
 - **Total Number of International and National Publications** : **50**
 - **Total number of patents filed** : **3**
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• **WORK EXPERIENCE (IN CHRONOLOGICAL ORDER) :**

Sr. No.	Positions Held	Name of the Institute	From	To
1.	Research and Development Executive	Khandelwal Lab. Ltd., Thane	1990	1990
2.	Research Fellow	Scheme of Department of Atomic Energy, B.A.R.C., and Government of India	1991	1992
3.	Lecturer in Pharmaceutics	Bombay College of Pharmacy, Kalina, Mumbai	1 st August 1992	30 th April 1994
4.	Product Development Executive	Khandelwal Lab. Ltd	1 st January 1995	6 th July 1995
5.	Lecturer in Pharmaceutics	BharatiVidyapeeth's College of Pharmacy, Navi Mumbai	August 1995	June 1997
6.	Assistant Professor in Pharmaceutics	BharatiVidyapeeth's College of Pharmacy, Navi Mumbai	July 1997	March 2006
7.	Vice- Principal	BharatiVidyapeeth's College of Pharmacy, Navi Mumbai	August 2001	June 2009
8.	Professor in Pharmaceutics (approved by Univ. of Mumbai) and HOD of Dept of Pharmaceutics	BharatiVidyapeeth's College of Pharmacy, Navi Mumbai	April 2007	June 2009
9.	Principal	Vivekanand Education Society's College of Pharmacy, Collector Colony, Chembur, Mumbai	6th July 2009	Till date

• **DETAILS OF RESEARCH PROJECTS UNDERTAKEN:**

Sr. No.	Title	Cost in Lakhs	Duration	Role as PI/Co-PI	Agency
1.	Design, Development and In Vivo studies of Orally Disintegrating Drug Delivery System intended for gastroretention	12 Lakhs	2008-2010	Principal Investigator	BRNS
2.	Design and evaluation of Novel formulations of some anticancer drugs for metronomic chemotherapy	37.73 Lakhs	1 st July, 2015 to December 2016	Scientific Adviser	BIRAC (Biotechnology Ignition Grant)
3.	Formulation of lipid nanoparticles and characterization (TEM), Radiolabelling of nanoparticles with Technitium, imaging and biodistribution studies of labeled nanoparticles	1.27 Lakhs	1 st March 2017 to 31 st March 2017	Principle Investigator	University of Central Lancashire, Preston, UK
4.	Floating Micro-ballons: A Novel approach for administration of Cinnarizine	Rs. 20,000/-	2010-11	Principal Investigator	University of Mumbai
5.	A Colon Targeting Strategy for Effective Delivery of Metoprolol Succinate.	Rs. 30,000/-	2013-14	Principal Investigator	University of Mumbai
6.	Novel lipid based slow released formulation of Methotrexate for Metronomic chemotherapy	Rs. 30,000/-	2016-17	Principal Investigator	University of Mumbai

• **RESEARCH PROJECTS UNDERTAKEN IN COLLABORATION WITH INDUSTRY:**

Sr. No.	Funding agency	Grant received	Date of Project
1.	SEPPIC	Rs. 2.5 Lacs	2013-14
2.	National Innovative Foundation	Rs. 1,46,865/-	2013-14
3.	Emami Ltd.	Rs. 3 Lacs	2014-15
4.	Merck Specialities Pvt, Ltd.	Rs. 5.13 Lacs	2015-16
5.	Merck Specialities Pvt, Ltd.	Rs. 5 Lacs	2017-18

• **DETAILS OF PROJECTS SUBMITTED TO VARIOUS FUNDING AGENCIES:**

Sr. No	Title	Cost in Lakh	Month of submission	Role as PI/Co-PI	Agency	Status
1.	Targeted solid lipid nanoparticulate delivery system of β -Caryophyllene oxide as promising approach in breast cancer treatment	Rs. 37.09Lakhs	June 2017	PI	Science and Engineering Research Board (SERB, DST, Gov. of India)	Approved

• **PROFESSIONAL RECOGNITION/ AWARD/ PRIZE RECEIVED:**

Sr. No	Name of Award	Awarding Agency	Year
1.	Best paper award'	50 th IPC and 17 th Asian Congress of Pharmaceutical Sciences	2008-09
2.	Best Teacher Award'	Bharati Vidyapeeth's college of Pharmacy	1999-2000, 2001-2002 & 2008-09
3.	Best paper award'	MET's Institute of Pharmacy, Nashik	2012
4.	Avishkar 2014 -Second rank (among 19 Universities across Maharashtra)	Avishkar 2014 (state level in Inter- University research Convention)	2014
5.	The Research Project of the year award	54 th Indian Pharmaceutical Congress Trust Pune	2012-13
6.	Best Teacher Award	University of Mumbai	2017

• **PROFESSIONAL CONTRIBUTION**

- Appointment as a Member of the Ad-hoc Board of Studies in Pharmacy for 3 years w.e.f. 01.07.2015, at University of Mumbai, Fort.
- Univ.of Mumbai recognized research guide for M. Pharm. and Ph.D. Guided 27 students with grade A for M.Pharm. Guided 02 student for Ph. D.(Tech.). Currently guiding 2 students for M.pharm and 4 students for Ph.D. (Tech.)
- Invited as a member for Roundtable Session with Dr. Margaret Hamburg, Commissioner, US FDA on 18th February 2014 at Taj Palace & Towers, Mumbai
- Reviewer of national and international journals such as Indian Journal of Pharmaceutical Sciences, International Journal of Pharmaceutics, Drug Delivery & Translational Research.
- Appointment as an editorial board member for American Journal of Nanoscience and Nanotechnology of Science Publishing group.

• **DETAILS OF PATENTS:**

Sr. No.	Patent Title	Name of Innovator(s)	Patent No.	Agency/Country	Status
1.	Novel Oral drug delivery system for the treatment of allergic asthma	Dr. Supriya Shidhaye Ms. Chaitali Surve	1341/MUM/2013	Controller of Patents, Patent Office, Mumbai	Published, under examination
2.	Novel Oral Lipid Based Formulations and Processes of preparation thereof	Dr. Supriya Shidhaye, Ms. Chaitali Surve, Ms. Ruchi Singh, Ms. Bhagyashri Parab	1679/MUM/2015	Controller of Patents, Patent Office, Mumbai	Published, under examination
3.	Pulsatile drug delivery system for treatment of Pulmonary hypertension	Dr. Supriya Shidhaye,	TEMP/E-1/17976/2018-MUM	Controller of Patents, Patent Office, Mumbai	Provisional patent

• **PUBLICATIONS:**

1. Extraction of *Digitalis Lanata* for isolation of Digoxin, *Indian Drugs*, Vol. 28, No. 7, April 1991, pp304-306.N (*H-index: 30*)
2. Decontamination of Veegum by Gamma Radiation, *Indian J. Pharm. Sci.*, August 1995, pp187-188. (*H-index: 43*)
3. Radiation Sterilization of Henna and its Ointment, *Indian J. Pharm. Sci.*, Vol. 58, No. 2, April 1996, pp55-58 (*H-index: 43*)
4. Decontamination of Digitalis and its tablets by Gamma radiation, *Indian J. Pharm. Sci.*, Vol. 58, No. 2, April 1996, pp81-82. (*H-index: 43*)
5. Parenteral controlled release dosage form: Part I – Vol. 5, No. 12, Feb. 11, 1999 in *Express Pharma Pulse*.
6. Parenteral controlled release dosage form: Part II – Vol. 5, No. 13, Feb. 18, 1999 in *Express Pharma Pulse*.
7. Cancer Chemotherapy : Some novel approaches in *Physician's Digest*, April 2000, Vol. 9, No. 1, pp17
8. Drug delivery by iontophoresis, *Pharmabiz, Hospital Review*, Nov 1-15, 2003, vol.2, No.1, p. 34-35.
9. Use of natural release retardants in drug delivery systems, *Indian Drugs*, 42(9), September 2005, 565. (*H-index: 30*)
10. Medicated Chewing gums- A novel Option, *Indian Drugs*, 43(3), March 2006,191 .
11. Novel drug delivery devices, *Pharma Times*, 38(7), July 2006, p 24
12. HIV Management: New Approaches, *Current Drug Therapy*, Vol.2, No.2, May 2007. (Bentham Science Publication) (*H-index: 13*)
13. Possible Use of Psyllium Husk as a release retardant, *Ind J Pharm Sci*, 2007, 69(2); 206-210. (*H-index: 43*)

14. Formulation and evaluation of oxcarbazepine fast dissolve tablets, *Ind J Pharm Sci*, 2007, 69(2); 211-214. (*H-index: 43*)
15. Nasal permeation enhancement of Sumatriptan Succinate through nasal mucosa, *Indian J Pharm Sci*, 2007, 69 (5); 707-708. (*H-index: 43*)
16. Solid Lipid Nanoparticles and Nanostructured lipid carriers - Innovative generations of solid lipid carriers, *Current Drug Delivery* (Bentham Science Publication), 2008, 5(4), 1-7. (*H-index: 49*)
17. Mucoadhesive bilayered patches for administration of Sumatriptan Succinate, *AAPS PharmSciTech*, Volume 9(3), September 2008. (*H-index: 61*)
18. Nanogel Engineered Polymeric Micelles for Drug Delivery', *Current Drug Therapy*, Bentham Publishers, September 2008, 3 (3), 209 -217. (*H-index: 13*)
19. Drug Particle Engineering using supercritical fluid, *Asian Journal of Pharmaceutical and Clinical Research*, Volume 1(3), 2008, p.no. 70-80. (*H-index: 21*)
20. Fast Disintegrating Palatable Theophylline Tablets, *Journal of Pediatrics and Neonatology*, July 2008, Vol 9(1).
21. Taste Masked, Orally Disintegrating Tablet Containing Microspheres For Immediate Release, *Journal of Pharmacy Research*, Oct – Dec 2008, 1(2), 225 - 229. (*H-index: 11*)
22. Novel Melt Granulation using sugar for metoclopramide HCl orally disintegrating tablets, *Asian Journal of Pharmaceutical and clinical research*, 2008, Vol.2(1),68-72. (*H-index: 21*)
23. Development and Validation of Stability Indicating HPLC Method for Estimation of Metoclopramide Hydrochloride from a Novel Formulation, *Journal of Pharmacy Research*,2009,Vol. 2(2),290-295. (*H-index: 11*)
24. Validated stability indicating HPLC method for estimation of theophylline from a novel microsphere formulation, *Asian Journal of Pharmaceutics*.Vol.3,issue1, April 2009, P.13-17. (*H-index: 12*)
25. Sustained Release floating Drug Delivery System In-Situ Gelling Suspension of Cinnarizine, *Journal of Pharmacy Research*, Vol.2, Issue3, March 2009, 449-454. (*H-index: 11*)
26. Invitro Evaluation of Novel Sustained Release Microspheres of Glipizide Prepared by the Emulsion Solvent Diffusion-Evaporation Method, *Journal of Young Pharm*. Vol.No.2(1), 35-41. (*H-index: 17*)
27. Pulsatile Delivery Systems: An Approach for Chronotherapeutic Diseases, *Journal of Sys Rev Pharm*, January- June 2010, Vol. 1(1), 50-56.
28. Buccal Drug Delivery of Pravastatin Sodium , *Journal of AAPS Pharm Sci Tech*, Vol.II(1), March 2010, 416-424.
29. Formulation ad Evaluation of Novel Enteric Coated Extended Release Multiparticulates of Model NSAID Ketoprofen, *International Journal of Pharmaceutical Sciences and Nanotechnology*, Vol. No. 3, Issue2, July- September 2010.
30. Radiolabeling and gamma Scintigraphy of a difficult to radiolabel swellable type of dosage form containing a natural polymer, *International Journal of drug formulation and research*, Aug-Sep. 2010, Vol. 1(1) 1-12.
31. Mayank Patel*, Sheetal Malke , Supriya Shidhaye and Vilasrao Kadam, Electronic evaluation by sensing device., *Der Pharmacia Lettre*, 2010, 2(4): 326-334. (*H-index: 20*)
32. pH-responsive dual pulse multiparticulate dosage form for treatment of rheumatoid arthritis, *Drug Development and Industrial Pharmacy*, 2010; 36(11):1295-1302. (*H-index: 70*)
33. Nanotechnology in cancer: A clinical review, *Journal of Applied Pharmaceutical Science* 01 (03); 2011: 25-29. (*H-index: 20*)
34. Gaurav Doshi, Supriya S. Shidhaye, Gayatri V. Aggarwal, Preeja P. Pillai, Abhijeet B. Bhalerao, Sandhya K. Desai, "Antibacterial potential of *Cassia auriculata* flowers", *Journal of Microbiology and Biotechnology Research*, 2011, 1(3): 15-19.

35. "Interpenetrating polymer network-An overview", International Journal of Research & Review in Pharmacy and Applied Science (IJRRPAS), 2(4): 637-650.
36. "Technologies in Pulsatile Drug Delivery System", International Journal of Advances in Pharmacy, Biology and Chemistry (IJAPBC), October 2012,1(4): 438-445.
37. "Pharmacy Education in India: An Overview and Innovations", 64th Indian Pharmaceutical Congress - 2012, 7th - 9th December, 2012.
38. "Silver nano Particles: A Novel Approach for Therapeutic Applications of Silver", American Journal of Pharmatech Research, 2013; 3(4): 214-232.
39. "Development and Evaluation of a Sustained Release Microencapsules of Metformin Hydrochloride", International Journal of Pharma and Bio Sciences 2013 Oct; 4(4); (P) 596-605. (*H-index: 19*)
40. "Emerging Trends in Bio-Synthesis and Applications of Gold Nanoparticles: A Blooming Technology", American Journal of Pharmacy And Health Research, 2013: 1(6): 2321-3647 (online).
41. "Drug Delivery Aspects for Regenerative Therapies" Indo Global Journal of Pharmaceutical Sciences, 2013: 2249-1023, 107-123.
42. "Health Economics and Outcomes Research: It's Swot (Strength, Weakness, Opportunities and Threats) Analysis for India" American Journal of Pharmacy & Health Research, 2014: 2(3): 2321-3647(online).
43. "Development & Evaluation of a Sustained Reslease Microencapsules of Theophylline" World Journal of Pharmaceutical Research, Volume 3, Issue 4, 1281-1291, 2014.
44. "Smart Polymers: A Smart Approach to Drug Delivery" World Journal of Pharmaceutical Research, Volume 3, Issue 5, 159-172, 2014.
45. "Coronary Perforations and Generation of Stents: An update and review" World Journal of Pharmaceutical Research, Volume 3, Issue 4, 266-283 2014.
46. S.Shidhaye, R. Singh, C. Surve, B. Parab, Biomedical Applications of Graphenes, American Journal of Pharmaceutical Research, 2015;5(3)
47. "Formulation & Evaluation of Oral Sustained Release Dry Suspension of Metformin Hydrochloride" European Journal of Pharmaceutical & Medical Research, Volume 3, Issue 3, 447-457,2016, ISSN 3294-3211.
48. "Current Trends in Biosimilars" Journal of Pharmaceutical & Biomed Sciences, Volume 6, Issue 5, 286-292, 2016.
49. S. Shidhaye, V. Nalawade*, A. Peepliwal, B. Inamdar, A. Rao, B. Haria, a study to determine the pharmacokinetic parameters of newlydeveloped sustained release metformin dry suspension in rabbits, International Journal of Pharmacy and Technology, Vol. 8, Issue 1, 2016, **ISSN NO. 0975-766X** (*H-index: 9*)
50. S. Shidhaye*, S. Sansare, P. Ganatra, *Tissue re-engineering techniques: advances and applications* ,International Journal of Pharmacy and Technology, Vol. 8, Issue No.2, 4000-4012, 2016 (*H-index: 9*)