

RESUME

Prof. Vandana. B. Patravale

Professor of Pharmaceutics

Department of Pharmaceutical Sciences and Technology



a) Degrees with name of University/Institute

Degree	Year of passing	University
Ph.D. (Tech.) (By Research, in Pharmaceutics)	1992	University of Mumbai
M. Pharm. Sci. (Partly by Papers in Pharmaceutics)	1987	University of Mumbai
B. Pharm. Sci.	1985	University of Mumbai

b) Professional affiliations

- Member, Academic Planning and Development Committee (APDC) NIPER, India
- Fellow, Maharashtra Academy of Sciences, India
- Vice President, Controlled Release Society, Indian Chapter
- Convener, Association of Pharmaceutical Teachers of India- Women Forum
- Life Member, American Association of Pharmaceutical Scientists, USA
- Life Member, Association of Pharmaceutical Teachers of India
- Life Member, Indian Cosmetic Technologists Association
- Member, Indian society for Surface Science and Technology
- Life Member, IPA, Maharashtra State Branch
- Life Member, Indian Women Scientists Association
- Life Member, U.D.C.T. Alumni Association
- Patron Member, Controlled Release Society, Indian Chapter

c) **E-Mail ID** : vb.patravale@ictmumbai.edu.in
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d) Office, phone and extn. and fax

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e) Research interests

Expertise in area of novel nanocarriers for cosmeceuticals and other pertinent areas of national relevance with major emphasis on malaria, cancer and neurodegenerative disorders.

Specific research interest include

- Nanotechnology based drug and gene delivery systems (lipid, polymeric, micellar nanocarriers, nanosuspensions, micro/nanoemulsions and self-micro/nano emulsifying systems) for bioavailability enhancement and/or targeting.
- Vaccines and adjuvants
- Nanodiagnostics
- Tissue engineering and scaffolds
- Medical devices viz. coronary stents, intrauterine devices etc.
- Novel carriers for solubilization and formulation development thereof
- New polymer and lipid conjugates, surfactant synthesis
- Exploring potential of indigenous excipients
- Modified release dosage forms for all routes of administration

f) Brief statement on current research activities

Novel nanocarriers for pertinent areas of national relevance with major emphasis on malaria, cancer and neurodegenerative disorders. Colloidal drug delivery systems including microemulsions and solid lipid/polymeric nanoparticles for solubilization, increase in bioavailability and/or targeting. Medical device development viz. Coronary stents, intrauterine devices etc., nanodiagnostics, use of indigenous excipients, tissue engineering and scaffolds cosmeceuticals and modified release dosage forms for all routes of administration.

g) Brief career profile

Post	Affiliation	Duration
Professor of Pharmaceutics	Department of Pharmaceutical Sciences and Technology Institute of Chemical Technology	2008 – Present
Reader in Pharmaceutics	Department of Pharmaceutical Sciences and Technology Institute of Chemical Technology	2001 – 2008
Senior Lecturer in Pharmaceutics	Department of Pharmaceutical Sciences and Technology Institute of Chemical Technology	1996 – 2001
Lecturer in Pharmaceutics	Department of Pharmaceutical Sciences and Technology Institute of Chemical Technology	1991 - 1996

h) Courses taught : B. Pharm. Sci.
B. Tech.
M. Pharm. Sci.
M. Tech

i) Awards, honors and accolades

Awards and honors

1. OPPI Woman Scientist Award – 2015, Organization of Pharmaceutical Producers of India (2015)
2. Vividhlaxi Audyogik Samshodhan Vikas Kendra (VASVIK) Apex Committee's Smt. Chandaben Mohanbhai Patel Industrial Research Award for Women Scientists – 2013 (2015)
3. Convener, Association of Pharmaceutical Teachers of India (APTI), Women forum (2014-2017)
4. Dr. P. D. Patil Best Pharmaceutical Scientist of the year Award – 2014, Association of Pharmaceutical Teachers of India (APTI), Maharashtra State (2014)
5. Veneto Nanotech Prize (Winner of the second edition of the Cadini Prize) , NanotechItaly, Italy (2013)
6. Grant Awardee – ‘Nanovaccine for Brucellosis using Green Technology’; Grand Challenges Explorations Grants Round 11, Bill & Melinda Gates Foundation, (2013)
7. BVDUPCP- Pharmacy Teacher of the year Award 2012, APTI - 17th Annul National Convention – 2012 (2012)
8. Conferred Fellow of Maharashtra Academy of Sciences award , Maharashtra Academy of sciences (2011)
9. “Incentives to Meritorious Teachers”, Dr. K. H. Gharda Reward, Board of Governors, Institute of Chemical Technology (2009)

10. Prof. B. M. Mithal Memorial Award for best article published in Pharmaceutical Education section of IJPER titled "Introducing Molecular Bio-Pharmaceutics in the Post Graduate Level Curriculum"(2009)
11. Nominated as International advisory committee member, American Association of Pharmaceutical Scientists (AAPS)
12. Best teacher award, Final year B. Pharm. , ICT (2008-09)
13. Best teacher award, Second year B. Pharm. , ICT (2006-07)
14. Distinguished Alumni award conferred by Prin. K. M. Kundanani College of Pharmacy, Mumbai
15. Recipient of Belgium Scholarship (1993)
16. Recipient of Senior Research fellowship by University Grants Commission (1987-91)
17. Recipient of Junior research fellowship by University Grants Commission (1985-87)
18. Awarded Shri M. L. Khorana Memorial Prize for securing second rank in the University of Bombay at Final B. Pharm Examination (1985)
19. Awarded Smt. Jethibai Hirdaram Jagtiani Scholarship for securing FIRST rank at K. M. Kundanani College of Pharmacy in Final year B. Pharm Examination (1985)
20. Awarded National Merit certificate for merit ranking at SSC (1980)

Awards received by students

1. Best poster presentation award at Global conference on Pharmaceutics and Drug Delivery System for poster entitled "Polyphenols Loaded Vaginal Microbicide: A Novel Strategy for Prevention of HIV Transmission" at Valencia, Spain, 2017 (Mirani A.)
2. Best oral presentation award at SELECTBIO 2017 on 'Novel Formulation Strategies' in session 'Academic Innovation Oral Presentations: Novel and Nanostructured Drug Delivery Systems' for presentation on topic 'Lymphatic system Targeted Lipid Nanocarriers: A Promising Approach for Oral Treatment of Breast Cancer' at Hyderabad, India 2017 (Prabhu R.)
3. Best poster presentation award at Controlled Release Society Indian Chapter 2017 on 'Topical Dermatological dosage forms' for poster entitled "Green Technology assisted nanocarriers of Genistein for Topical Delivery" at SciTech Centre, Mumbai, India, January 2017 (Bhuptani R.)
4. Second prize for poster presentation award at 6th Indo-Japanese International Symposium on 'Overcoming intractable infectious diseases prevalent in asian countries' for poster entitled "Anti-malarial efficacy of lipid nanoparticles: Combination of Curcumin-Arteether Vs Ellagic acid-Arteether" at Goa, India, September, 2016 (Pawar R.)
5. Third prize for poster presentation award at 6th Indo-Japanese International Symposium on 'Overcoming intractable infectious diseases prevalent in asian countries' for poster entitled "Novel Metallodendrimer hydrogel for wound care" at Goa, India, September, 2016 (Bhuptani R.)
6. Best oral and poster presentation award at 15th International Symposium on 'Advances in technology and Business Potential of New Drug Delivery Systems' for poster entitled "Geometry Optimized t-micellar Gel: Microneedle assisted transdermal delivery platform for targeted brain delivery" at ICT, Mumbai, India, February 2016 (Desai P.)

7. Best oral presentation award at the ICMR sponsored 'National conference on Nanotechnology in drug delivery research: Innovations, challenges and opportunities' for work entitled, 'Geometry Optimized t-Micelles: A Targeted Nanocarrier Platform for Enhanced Brain Uptake' at NMIMS, Mumbai, India, October, 2015 (Desai P.)
8. Best poster Award at the ICMR sponsored 'National conference on Nanotechnology in drug delivery research: Innovations, challenges and opportunities' for poster entitled "Generic Oral Aprepitant nanoformulation: A Patent Non-Infringing Approach" at NMIMS, Mumbai, India, October, 2015 (Bhise K.)
9. Best Poster Award at the "2nd International Conference on Nanotechnology Based Formulations- NanoPharmaceuticals" for poster entitled "Artemether-Lumefantrine loaded Nanostructured Lipid Carriers (NLC) for treatment of cerebral malaria" organized by Select Biosciences India Private Limited held at Hyderabad, India, September 2015 (Prabhu P.)
10. OMICS International Best young researcher award - 2015 for presenting speech entitled "Targeted micelles of curcumin: Strategy for enhanced brain uptake" in 4th International conference and exhibition on 'Neurology and Therapeutics' Rome, Italy, July 2015 (Desai P.)
11. Third Prize for oral Presentation in "Preclinical Category" for work on " Nanostructured Lipid Carriers (NLC) of Artemether-Lumefantrine combination for oral malaria therapy" at the Eighth International Annual Conference on "Translational Clinical Pharmacology Research in Drug Development" organised by South Asian Chapter of American College of Clinical Pharmacology held at Nehru Auditorium, Worli, Mumbai, India, April 2015 (Prabhu P.)
12. The Budding QbD Scientist Award - 2015 for the paper entitled, "QbD Based Development of Fenofibrate Nanosuspension: A Non-Infringing Approach" at the QbD in Pharma Development World Congress 2015, Chandigarh, India, April 2015 (Mirani A, Gite S.)
13. Ranbaxy Science Scholar Award - 2014 in the field of Pharmaceutical Sciences, Ranbaxy Science Foundation, India, March 2015 (Desai P.)
14. First prize for oral presentation and poster entitled, "Multifunctional nanocomposites of curcumin for neurodegenerative disorders" at Forteenth International Symposium on Advances In Technology And Business Potential of New Drug Delivery Systems, Mumbai, India, February 2015 (Desai P.)
15. Young Innovator in Bioprocessing Award (2nd Place) for research work entitled, "Bioenhanced ellagic acid solid solution: a systematic green approach" at Bioprocessing India 2014 conference, Mumbai, India, December 2014 (Desai P.)
16. Excellent poster award for topic entitled, " Pharmaceutical Co-Crystal Of Atovaquone: A Systemic Approach Towards Solubility Enhancement" at 5th Indo-Japanese International Joint Symposium on Overcoming Intractable Infectious Diseases Prevalent in Asian Countries, Tokyo, Japan September 2014 (Desai P.)
17. Excellent poster award for topic entitled, " Evaluation Of Punicalin And Punicalagin As GP 120-CD4 Binding Inhibitor: In Silico & In Vitro Screening" at 5th Indo-Japanese International Joint Symposium on Overcoming Intractable Infectious Diseases Prevalent in Asian Countries, Tokyo, Japan September 2014 (Mirani A.)
18. Excellent poster award for topic entitled, "Comparison of Phytopolyphenols as gp120-CD4 Binding Inhibitor: In Silico & In Vitro Screening" at 5th Indo-Japanese International Joint Symposium on Overcoming Intractable Infectious Diseases Prevalent in Asian Countries, Tokyo, Japan September 2014 (Gite S.)

19. First prize for poster entitled, "Green approach towards bioenhanced curcumin: process analytical technology (PAT) enabled scale up studies of curcumin solid solution using hot melt extrusion" at 1st International Conference on Industrial Pharmacy (ICIP) 2014, Kuantan, Malaysia, August 2014 (Desai P.)
20. Selected in top 6 research students amongst the entries from all over the world for Merck Serono Innovation Cup 2014, Darmstadt, Germany, July 2014 (Desai P.)
21. Agrawal A. has received the prestigious "Prime Minister's Fellowship" for doctoral Research. This is a joint initiative of CII, Science & Engineering Research Board (SERB) and Sahajanand Medical Technologies Pvt. Ltd. as an Industry partner.
22. First prize for poster entitled, "Polymeric nanoparticulate delivery of curcumin-ellagic acid: synergistic potential for inflammatory bowel disease therapy", at seminar on, 'Advances in Pharmaceutical Technology & Its Business Potential', Yadavrao Tasgaonkar Institute of Pharmacy Raigad, India, February 2014 (Pukale S.)
23. First prize for poster entitled, "SANS investigation of a micellar drug delivery system formed by a novel antioxidant- lipid bioconjugate" at Conference on Neutron Scattering 2014", Pune, India , February 2014 (Desai P.)
24. Bombay Technologist Best post Graduate Student for Year 2013-14, Institute of Chemical Technology, Mumbai, India, February 2014 (Vyas S.)
25. First prize for poster entitled, "Development of mathematical model to predict release of a water soluble drug from tamarind seed polysaccharide matrices" at National Seminar on "Software in Drug Discovery and Development", Kolhapur, India, January 2014 (Desai P.)
26. Second prize for poster entitled, "Design Expert®: An integration of software solution for Nanoformulation experiments" at National Seminar on "Software in Drug Discovery and Development", Kolhapur, India, January 2014 (Gite S.)
27. First prize for poster entitled, "In vivo investigation of anticancer activity and treatment associated toxicity of tamoxifen-loaded cationic lipomer" at 65th Indian Pharmaceutical Congress, Delhi, India, December 2013 (Desai P.)
28. Veneto Nanotech Prize (Winner of the second edition of the Cadini Prize) 2013 for the poster entitled "Influence of Newly Synthesized Mono-Guanidine Heterolipid based Cationic Nanocarriers in Treatment of Melanoma Tumor in C57BL/6 mice" at the NanotechItaly 2013, Italy, November 2013. (Prabhu R.)
29. First Prize for poster entitled, "Lymph target for tamoxifene: Potential in breast cancer treatment" at the Workshop on Advances in Biomaterials and Nanobiotechnology (ICT-NANOBIO2013) sponsored by the Royal Society of Chemistry held at the Institute of Chemical Technology, Matunga, Mumbai, India, November 2013 (Shete H.)
30. Selected amongst top 20 teams across India for BEST ABLE 2013 (Biotechnology Entrepreneurship Student Teams) sponsored by The Department of Biotechnology (DBT), Ministry of Science and Technology, Government of India and managed and administered by Association of Biotechnology Led Enterprises, ABLE – India, Bangalore, India, October 2012 (Desai P., Vyas S., Jain S., Bhuptani R., Mirani A.)
31. Best Poster Award for poster entitled, "Super Critical extraction method optimization of Seabuckthorn (SBT) berry oil B.O: Exploiting its role in anti-ageing" at The Omics group of conference, Hyderabad, India, September 2013 (Mirani A.)
32. First prize for poster (Drug Delivery System Section) entitled, "Impact of drug loading on the anti Parkinsonism effects of lipid formulation of curcumin" at The South Asian Chapter of American College of Clinical Pharmacology: 6th International Conference on Innovation in

- 21st Century: Clinical Pharmacology in Current and Future environment, Mumbai, India, April 2013 (Fernandes C.)
33. Second prize for poster (Drug Delivery System Section- shared) entitled, “Bio-enhanced Atovaquone: Comparison of solid dispersion and nanosuspension” at The South Asian Chapter of American College of Clinical Pharmacology: 6th International Conference on Innovation in 21st Century: Clinical Pharmacology in Current and Future environment, Mumbai, India, April 2013 (Mirani A.)
 34. Second prize for poster (Drug Delivery System Section- shared) entitled, “Solid lipid nanoparticles of Arteether/Ellagic acid: A novel combination therapy for treatment of malaria” at The South Asian Chapter of American College of Clinical Pharmacology: 6th International Conference on Innovation in 21st Century: Clinical Pharmacology in Current and Future environment, Mumbai, India, April 2013 (Kadwadkar N.)
 35. Second prize for poster (Preclinical Section- shared) entitled, “Selective Uptake of Nanostructured Lipid Carriers by Malaria Infected Red Blood Cells” at The South Asian Chapter of American College of Clinical Pharmacology: 6th International Conference on Innovation in 21st Century: Clinical Pharmacology in Current and Future environment, Mumbai, India, April 2013 (Jain S.)
 36. Bombay Technologist Best post Graduate Student for Year 2012-13, Institute of Chemical Technology, Mumbai, India, March 2013 (Desai P.)
 37. Prize for poster entitled, “Curcumin-Celecoxib Dual Drug Loaded Ph-Sensitive Nanoparticulate Combination Therapy: A Novel Approach For The Treatment Of Inflammatory Bowel Disease” at Thirteenth International Symposium on Advances In Technology And Business Potential of New Drug Delivery Systems, Mumbai, India, January 2013 (Dalapathi G.)
 38. First prize for poster entitled, “Discrepancy in therapeutic efficacy of nanoformulation against different breast cancer cell lines” at International Symposium On Drug Discovery For Infectious Diseases And Cancer, Mumbai, India, January 2013 (Shete H.)
 39. Prof. M. L. Khorana Memorial best paper award 2011 for paper entitled, “Design and optimization of a novel method for extraction of genistein”, Indian Journal of Pharmaceutical Sciences, 2011; 73 (2) 184-192, in field of Pharmacognocny, Phytochemistry And Alternative Medicine And Pharmaceutical Biotechnology. (Pandit N.)
 40. Shri G. M. Abhyankar Research Presentation Award 2012-13, Institute of Chemical Technology. (Badgular H.)
 41. Selected amongst top 20 teams across India for BEST ABLE 2013 (Biotechnology Entrepreneurship Student Teams) sponsored by The Department of Biotechnology (DBT), Ministry of Science and Technology, Government of India and managed and administered by Association of Biotechnology Led Enterprises, ABLE – India, Bangalore, India, October 2012 (Desai P., Fernandes C., Vyas S.)
 42. First prize for poster entitled, “Bioenhancement of Curcumin Using Hot Melt Extrusion Technology: Formulation Development, *In Vitro* Characterization And *In Vivo* Pharmacokinetic Studies” and thus opportunity for podium presentation at Drug Delivery India 2012 - Innovations In Pharmaceutical & Manufacturing Sciences, Hyderabad, India, February 2012 (Desai P.)
 43. First prize for poster entitled “Development of mathematical model to predict release of poorly water soluble drug from tamarind seed polysaccharide matrices” at Twelfth

- International Symposium on Advances in Technology and Business Potential of New Drug Delivery Systems, Mumbai, India, February 2012 (Patale R., Desai P.)
44. Award for poster entitled “Engineering Nanostructured Lipid Carriers Of Genistein: Statistical Optimization” at Twelfth International Symposium on Advances in Technology and Business Potential of New Drug Delivery Systems, Mumbai, India, February 2012(Pai A., Swami M.)
 45. Award for poster entitled “New Uses For Old Drugs: Clotrimazole Oral Nanoemulsion For Malaria” at Twelfth International Symposium on Advances in Technology and Business Potential of New Drug Delivery Systems, Mumbai, India, February 2012 (Borhade V., Shete H.)
 46. First prize for poster entitled “Freeze Drying : Exploring Potential In Development Of Orodispersible Tablets Of Sumatriptan Succinate” at 63rd Indian Pharmaceutical Congress, Bangaluru, India, December 2011 (Pandharipande P., Dalapathi G., Desai P.)
 47. Award for poster entitled, “Atovaquone Nanosuspension For Intravenous Delivery: Toxicity Assessment, Pharmacokinetics, Tissuedistribution And In Vivo Antimalarial Efficacy Studies” at INDO-US Joint Symposium on Nanomedicine: Prospects and Challenges, Mumbai, India, November 2011 (Borhade V. Shete H.)
 48. Award for poster entitled, “Nanoemulsion of halofantrine: rediscovering the potential of banned drugs” at Eleventh International Symposium on Advances in Technology and Business Potential of New Drug Delivery Systems, Mumbai, India, February 2011 (Soni U.)
 49. Award for poster entitled, “Improved therapeutic efficacy with nanosized halofantrine: potential of dose reduction” at Eleventh International Symposium on Advances in Technology and Business Potential of New Drug Delivery Systems, Mumbai, India, February 2011 (Soni U. and Desai P.)
 50. Best Poster award entitled, “Biodistribution of A Novel Brain Imaging Agent: 99mTc Labeled Zolmitriptan Micellar Nanocarrier” at 41st, Annual Conference of Society of Nuclear Medicine, Jaipur, India, December 2009, (Jain R.)
 51. Award for the poster entitled, “Nanostructured lipid carrier based gel of Tacrolimus” at Ninth International Symposium on Advances in Technology and Business Potential of New Drug Delivery Systems, Mumbai, India, February 2009 (Raut A.).
 52. Award for the poster entitled, “Nanotarg: Exploring methocel for nanoparticle development” at Ninth International Symposium on Advances in Technology and Business Potential of New Drug Delivery Systems, Mumbai, India, February 2009 (Dandekar P.)
 53. Dr. A. S. Nanivadekar prize as a best poster award for the presentation entitled "Novel Brain Targeted Nanocarrier for Migraine Therapy" at 2nd International Conference on Drug Discovery & Development-South Asian Perspective, Mumbai, India, October 2008 (Jain R.)
 54. Dr. U. K. Sheth First prize for the poster entitled “ColoCure: Curcumin Nanoparticles for the Treatment of Colon Cancer” at 2nd International Conference on Drug Discovery & Development-South Asian Perspective, Mumbai, India, October 2008 (Dandekar P.)
 55. Best poster award for the paper entitled “Controlled release Genistein eluting cardiovascular stents: a novel therapy for restenosis” at Eighth International Symposium on Advances in Technology and Business Potential of New Drug Delivery Systems, Ahmedabad, India, February 2008 (Jain R.)
 56. Selected as a part of UICT team to represent India at 1st Indo-UK Biotechnology YES, (Young Entrepreneurs Scheme), Oxford, United Kingdom, October 2007 (Jain R., Dandekar P., Pattani A, Singh P.)

57. Received Best Post graduate student award for year 2007(Dandekar P.)
58. Received second Best Poster Award for the paper entitled. "NANOJECTS: Nanostructured Lipid Carrier (NLC) Based Intravenous Injection of Artemether" at Seventh International Symposium on Advances in Technology and Business Potential of New Drug Delivery Systems, Mumbai, India, February 2007 (Joshi M.)
59. Second best poster award for the poster entitled, "Solid Lipid Nanoparticles Based Tretinoin Gels Using Novel Solvent Emulsification-Diffusion Approach" at Sixth International Symposium on Advances in Technology and Business Potential of New Drug Delivery Systems, Mumbai, India, February 2005 (Shah K.)
60. Second best poster award for the paper entitled, "SMETs a novel fast release dosage form" at Fifth International Symposium on Advances in Technology and Business Potential of New Drug Delivery Systems, Mumbai, India, February 2004 (Khan I.)
61. Best poster for the paper entitled, "Supercritical Fluid Extraction of Natural vitamin E from Oil Seed Wax" at the International Conference on the Emerging Frontiers at the Interface of Chemistry and Biology [ICB-2003], Trivandrum, India, April 2003 (Singh P.)

j) Professional activities

1. Editor, CRS Newsletter, Controlled Release Society Indian Chapter
2. Associate editor, Journal of Nanoscience and Nanotechnology
3. Guest editor, Drug Delivery and Translational research
4. Secretary, AAPS Western India Chapter
5. Expert Member, DSIR for inspection of industrial R&D facility
6. Reviewer Journals
 - International Journal of Pharmaceutics
 - Indian Journal of Pharmaceutical Sciences
 - Indian Drugs
 - Langmuir
 - International Journal of Pharmaceutical Excipients
 - AAPS Pharma Sci Tech
 - Journal of Ocular Pharmacology
 - Journal of Controlled Release
 - Journal of Nanoparticle Research
 - Journal of Nanobiotechnology
 - Journal of Pharmacy and Pharmacology
 - Journal of Microencapsulation
 - Powder Technology
7. External referee for thesis

k) Industrial interaction

Has been actively providing inputs on projects and consultancy for development of novel drug delivery systems, devices and cosmeceuticals to Industry including-

- Cadila Pharma Pvt. Ltd.
- Sahajananad Medical Technologies Pvt. Ltd.
- Quantimmune solutions pvt. Ltd.
- Emami Ltd.
- FDC Ltd.
- CavinKare Pvt. Ltd.
- Alkem Industries Pvt. Ltd.
- AJ Organica Pvt. Ltd
- Jubilant life Sciences Pvt. Ltd
- Perrigo API India Pvt. Ltd.
- Neopharma Ltd.
- Sulphur Mills Ltd.
- Synthite Limited
- Novartis Enterprises Pvt. Ltd.
- Healers Nutraceuticals
- Charbhujja Agencies Pvt. Ltd.
- Amber International Pvt. Ltd.
- Kamani Oils Pvt. Ltd.
- Pharmaceutical Coatings Pvt. Ltd.
- Rubicon Research Private Limited
- Yuva Cosmetics Pvt. Ltd.
- Piramal Healthcare Ltd.
- Boehringer Ingelheim Sunder Medical agencies
- Famycare Ltd.

1) Students guided

Completed masters students		
M. Pharm. Sci.		
No	Research Scholar	Topic of Research
1.	Punita Khanna	Liquid filled flurbiprofen formulations
2.	Harsha Lal	Microemulsion based gels of diclofenac diethylammonium
3.	Vinod Nair	Controlled release dosage forms of Nifedipine
4.	Subhash Gore	Liquid filled hard gelatin capsules

5.	Yogeeta Narkar	Microemulsions as a vehicle for transdermal drug delivery.
6.	Susan D'souza	Hard capsules with soft center
7.	Manisha Birla	Controlled release mini-osmats of Nifedipine
8.	Ameet Ambarkhane	Development of solid lipid nanoparticles
9.	Hetal Gala	Transdermal microemulsion based systems
10.	Chetan Bhagat	Studies on taste masking
11.	Raji Rajan	Studies on transdermal drug delivery systems
12.	Smita Sawant	Studies on liquid filling in hard gelatin capsules
13.	Namita Prabhu	Studies on drug delivery systems
14.	Eashwari Vegi	Development of new formulations
15.	Imran A. Khan	Innovative drug delivery system
16.	Apurva Shah	Development of novel formulations.
17.	Jayesh Jain	Development of new formulations
18.	Ashwini Dhapare	Studies on newer approaches for solubilization
19.	Ratnesh Jain	Design and evaluation of innovative drug delivery system
20.	Clara Fernandes	Study of new drug delivery system
21.	Aditya Pattani	Formulation of peptide delivery systems
22.	Dyaneshwar Sitre	Development of oral drug delivery system
23.	Ramchandra Patale	Design of an Innovative dosage forms
24.	Rahul Gangurde	Development of new drug delivery systems
25.	G. Dalapathi	Development of novel formulations
26.	Sushant Patil	Novel lipid based drug delivery system

27.	Ashlesha Raut	Development of an innovative topical delivery system
28.	Pratik Patel	Development of colloidal drug delivery system
29.	Shivangi Naik	Development and evaluation of colloidal drug delivery system
30.	Ruchita Raikar	Development of innovative drug delivery system
31.	Kinjal Pandav	Development and evaluation of novel drug delivery system
32.	Laxman D. Kate	Development of novel anti-malarial formulations
33.	Priyanka S. Prabhu	Development of anti-hyperlipidemic formulations
34.	Sandeep Jadhav	Development of a novel oral dosage form
35.	Siddhesh Shinde	Development of an innovative topical delivery system
36.	Preshita Desai	Novel delivery systems for neurodegenerative disorders
37.	Ankit Agrawal	Development of colloidal carriers for nose-to-brain delivery
38.	Manisha Chaudhari	Colloidal carriers for oral Amphotericin B
39.	Hitesh Badgujar	Fabrication of Polymeric scaffold for tissue engineering
40.	Chinmay Patel	Development of nanotechnology based anticancer combination therapy
41.	Parth Joshi	Solubility enhancement of BCS Class IV drugs
42.	Minal Ghune	Development of nanosuspensions of BCS Class IV drugs
43.	Sudeep Pukale	Demdrimer based formulation for topical delivery
44.	Raju Tayde	Development of nanosuspension of BCS-II drug
45.	Aditya Darade	Bioenhanced Atovaquone for oral delivery

M. Tech.

1.	Daliya Karkhanis	Studies on an indigenous wax
2.	Pirthi Pal Singh	Purification and Isolation of Pharmaceutical Important Constituents from Indigenous Waxes.

3.	Kumar Shah	Development of Novel Drug Delivery System
4.	Meghraj Rajurkar	Isolation, Purification and Characterization of a Novel Polysaccharide
5.	Prajakta Dandekar	Downstream Processing of Indigenous Fruit Kernels
6.	Snehal Patil	Development of Oral Drug Delivery System
7.	Ninad Pandit	Downstream Processing of isoflavanoid from natural sources
8.	Vishal Parekh	Biosurfactants from Indigenous Fruit Kernel
9.	Mohammed Aslam	Development and Optimization of Novel Drug Delivery Systems
10.	Ankia Pai	Development of nanocarrier based cosmeceuticals
11.	Sushmita Koley	Supercritical fluid extraction of the bio-actives from <i>Anogeissu latifolia</i>
12.	Mahadev Kamble	Supercritical fluid and ionic liquid extraction of <i>Wrightia tinctoria</i>
13.	Ketki Bhise	Development of nanostructured lipid carriers for delivery of anticancer agents
14.	Satyajeet Kokate	Extraction of <i>Nyctanthes arbor-tristis</i> using green and scalable technologies

Completed Ph. D. Students

1.	Amit Kale	Studies on colloidal drug delivery systems
2.	Medha Joshi	Studies on particulate drug delivery systems
3.	Yogeshwar Bachhav	Development of Novel Drug Delivery Systems
4.	Sagar Mandawgade	Development of colloidal drug delivery systems
5.	Imran Khan	Process development for formulations
6.	Ratnesh Jain	Development and evaluation of novel brain targeted nasal drug delivery systems
7.	Prajakta Dandekar	Nanoparticle engineering for improved drug delivery
8.	Umangi Soni	Studies on lipid-based antimalarial nanocarriers
9.	Vivek Borhade	Development of colloidal nanocarriers for antimalarial therapy

10.	Ramchandra Patale	Development of polysaccharide based drug
11.	Pratik Patel	Therapeutic approaches using controlled transdermal delivery to treat neurodegenerative diseases in aging populations
12.	Clara Fernandes	Development of innovative drug delivery system
13.	Anuradha Pol	Nanocarrier based topical delivery of antioxidants
14.	Harshad Shete	Development of nanocarriers for cancer treatment
15.	Dalapathi Gugulothu	Curcumin nanoparticles for improved therapeutic efficacy
16.	Soniya Desai	Development of nanocarrier based antimalarial formulations
17.	Sushant Patil	Transdermal Patches for Neurodegenerative Disorders
18.	Preshita Desai	Novel delivery systems for neurodegenerative disorders
19.	Priyanka Prabhu	Development of Novel Antimalarial Nanocarriers
20.	Swati Vyas	Development of polymeric nanomaterials for biomedical applications
21.	Milind Velhal	Development of colon targeted microparticles/nanoparticles

m) List of current research students

Ongoing Masters Students		
No.	Research Scholar	Topic of Research
M. Pharm. Sci.		
1.	Lalit Bhatia	Novel rectal formulation of Mesalamine for ulcerative colitis
2.	Soumya M K	Oral Artemether-clindamycin combination for improved antimalarial therapeutics
3.	Aparna Dogra	Topic awaited
4.	Devendra Meena	Topic awaited
M. Tech.		

1.	Anjana Menon	Topic awaited
2.	Arkasubhro Chatterjee	Topic awaited
Ph. D. Students		
1.	Megha Swami	Nano-engineered Particulate Carriers of Antimalarials Using Novel Techniques
2.	Swapnil Mohurle	Anti-amyloid agents loaded nanocarriers via intranasal route for Alzheimer's disease treatment
3.	Rashmi Prabhu	Functionalized non-viral vectors for breast cancer therapy
4.	Sandip Gite	Development and scale up of novel controlled release dosage forms
5.	Namrata Kadwadkar	Novel drug delivery for targeting Hemoglobinopathies
6.	Amit Mirani	Microbicidal nanotherapeutics for HIV/AIDS
7.	Ronak Bhupatani	Novel carrier systems for improved topical delivery
8.	Ankit Agrawal	Development of innovative micromachined macrostructures for enhanced drug delivery
9.	Prachi Kharkar	Nanoengineered systems for Oncotherapy
10.	Mangesh Sane	Development and evaluation of vascular scaffolds
11.	Shivraj Naik	Development of Novel Drug Delivery Systems for neurodegenerative diseases
12.	Manasi Chogale	Novel formulations for the therapy of tuberculosis
13.	Swapnil Talkar	Gene delivery for cancer therapeutics
14.	Vinod Ghodake	Dry Powder Inhaler for Cystic Fibrosis Infection
15.	Sagar Dhoble	Dry Powder Inhaler for Pulmonary Hypertention
16.	Rohit Pawar	Development of Novel Diagnostic and Treatment modules for Dengue

17.	Shrikant Dhage	Nutraceutical delivery using novel excipients
18.	Prashant Upadhaya	Colloidal formulation for diagnostic and therapeutic application in Glioma
19.	Pratik Kakade	Smart lipidic nanocarrier for topical delivery

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Patents

Indian patents

Patents granted

1. Process for preparation of free flowing, non-sticky, porous and highly loaded spherules (Indian Patent No. 211495)
2. Process for preparation of self micro/nano emulsifying systems and compositions thereof (Indian Patent No. 208589)
3. Lipidic nanoparticulate based dosage forms of antiparasitics and antiinfectives (Indian Patent No. 248977)

4. Lipidic nanoparticles based composition and method of formulation and use thereof (3329/MUM/2010)
5. Pharmaceutical composition of curcumin (Indian Patent No. 283059)

Patents filed

1. Novel dendrimer and application thereof (201621034246)
2. Stable atovaquone nanoparticles with increased bioavailability and pharmaceutical composition of the same (201621020162)
3. Novel targeted lipid bioconjugates and delivery system thereof (2822/MUM/2015)
4. Novel lipid based carrier (2881/MUM/2015)
5. Highly porous dosage forms (887/MUM/2014)
6. Nanodrug delivery based on combination therapy for treating parasite infections (3567/MUM/2013)
7. Point-of-care diagnostic test for rapid detection of brucellosis (3183/MUM/2013)
8. Non-invasive vaccine delivery system for immunization against brucellosis using green technology (2920/MUM/2013)
9. Pharmaceutical composition for combined immunization and therapy against macrophage host related infections (2266/MUM/2012)
10. Pharmaceutical composition for transdermal application (1218/MUM/2012)
11. Pharmaceutical composition for bioenhancement of active agents (1108/MUM/2012)
12. Microparticles Preparation and Process Thereof: Process Optimization and Equipment Design (652/MUM/2010)
13. Stable Solutions of Sparingly Soluble Actives (WO/2009/066146)
14. Polymeric Nanoparticles of Curcumin for Improved Delivery (103/MUM/2008)
15. Stable solutions of poorly soluble actives (2281/MUM/2007)
16. Nanoparticles for wound healing (256/MUM/2007)
17. Biosurfactants from natural source (1945/MUM/2006)
18. Solid solutions of Pharmaceutical actives (1872/MUM/2006)

United States patents

Patents granted

1. Pharmaceutical composition of curcumin US 20130225689 A1
2. Pharmaceutical composition of taxoids 20130310447 A1, US 9345683 B2

Patents filed

1. Stable Solutions Of Sparingly Soluble Actives (US 2011/0020440 A1)
2. Compositions and coatings for implantable medical Devices (US 2007212393A1)
3. Compositions comprising porous articles and uses in implantable medical devices (US2007212388A1)
4. Coatings for implantable medical devices (US2007212387A1)
5. Coatings for implantable medical devices (US2007212386A1)

European Patents

Patents granted

1. Pharmaceutical composition of curcumin EP 2616053A2, EP 2616053A4
2. Pharmaceutical composition of taxoids EP 2637655 A1

Patents filed

1. Compositions and coatings for implantable medical devices (EP1832289A2)
2. Coatings for implantable medical devices (EP1832301A2)
3. Compositions comprising porous articles and uses in implantable medical devices (EP1834636A1).

WIPO Patents

Patents granted

1. Pharmaceutical composition of taxoids (WO/2012/063182)

Patents filed

1. Stable solutions of sparingly soluble actives (WO/2009/066146)

Trademarks

1. Registered Trademark "DO-SOL" for pulmonary delivery of therapeutics (No. 2700724, Dated 18 March 2014)
2. Registered Trademark "NANOTARG" for targeting diagnostic nanoparticles (No. 1529980, Dated 12 February 2007)
3. Registered Trademark SMETS®- for Self Micro-Emulsifying Tablets, a new drug delivery system. (No. 1250909, Dated 21 November 2003)

Industrial Design

1. Industrial design for Inhaler device - No. 261054 (Certificate No: 37238), Dated 18 March 2014

o) Seminars and invited talks

1. Smart lipid nanocarriers: Potential for intracellular targeting, Global conference on Pharmaceutics and Drug Delivery System, Valencia, Spain, June-July 2017

2. Lipidic nanomimics for malaria prevention and therapy, International conference on “Trends and Innovations in Chemical and Pharmaceutical Technologies”, Anna University, Bharathidasan Institute of Technology Campus, Tiruchirappalli, Tamil Nadu, February 2017
3. Fundamentals of Topical Dermatological Drug Delivery, Controlled Release Society Indian Chapter, SciTech Centre, Mumbai, January 2017
4. Manuscript Writing, Seminar on Skill Development on Research Rubrics & Outcomes, organized by SPP SPTM SVKM’s NMIMS, Mumbai, November 2016
5. Drug Eluting Stents: A Cutting-Edge Technology For Coronary Intervention, One day National Seminar on Advances in Technology, Regulatory and Clinical Aspects in Controlled Drug Delivery Systems, Delhi Pharmaceutical Sciences and Research University, Delhi, July 2016
6. Want to “have it all”? Seminar on “Strategies for empowerment of women associated with the healthcare profession” Jointly Organized by M.C.E. Society’s Allana College of Pharmacy and APTI women forum, Pune, March 2016
7. Translational research from bench to bed. Entre-Prerna- 2016, SVKM’s Dr. Bhanuben Nanavati College of Pharmacy, Mumbai, March 2016
8. Natural Ingredients: Unleashing Potential. Seminar on “importance of natural ingredients in pharmaceutical and cosmetic product development”, Loknete J D pawar college of pharmacy, Nasik, Februar 2016
9. Quality by Design: A Promising Paradigm For Nanopharmaceuticals. National Seminar cum Workshop on “Nanotechnology- Application of QbD (Schedule)”, B. V. Patel PERD Centre, Ahmedabad, January 2016
10. Inhalation devices: advances challenges and opportunities, seminar on "Futuristic Perspectives on Inhaled Drug Therapy" Maliba Pharmacy College, Gujarat, January 2016
11. Nanostructured Lipid Carriers: A Novel Paradigm for Malaria Prevention and Therapy. IPSCON-2015, Rajkot December 2015
12. Drug Eluting Stents: A Cutting-Edge Technology For Coronary Intervention, One day seminar on ‘Controlled Drug Delivery Systems: Scale up, Commercialization and Entrepreneurship Opportunities’, Manipal University,. Bangalore, December 2015
13. Momentum, Commitment, Unity: Is This The Key?, VES college of Pharmacy, Mumbai November 2015
14. Lecture delivered on topic entitled, “Aim and Future Prospects of Women Forum” 20th Annual National Convention of Association of Pharmaceutical Teachers of India APTICON 2015, DAVV auditorium Takshashila Campus, Indore (M.P), India, 9th–11th October, 2015
15. Keynote speaker at one day National Seminar “Pharmaceutical Excipients: an Insight”, Prin. K. M. Kundnani College of Pharmacy, Mumbai, India, 21st August 2015
16. Lecture on topic entitled, “Novel cationic heterolipid: A trojan horse for drug delivery” at Sunandan Divatia School of Science, Mumbai, India, 8th August 2015
17. Lecture on topic entitled, “Nanotherapeutics: Harnessing unlimited potential” at National Seminar on Nanotechnology-based Drug Delivery, Uka Tarsadia University, Surat (Gujarat), India, 11th April 2015

18. Lecture on topic entitled, "Women Entrepreneur Enhancing Innovation", APTI Women Forum Summit, Bangalore, 8th March 2015
19. Lecture on topic entitled, "Smart Lipid Based Nanocarriers : Potential for Cancer Therapy", Forteenth International Symposium on Advances In Technology And Business Potential of New Drug Delivery Systems, Mumbai, India, 24th February 2015
20. Lecture on topic entitled, "Malaria Torment: Is Nano a Solution?" Seminar on Emerging Trends in Pharmaceutical R&D and Drug Discovery , M.C.E. Society's Allana College of Pharmacy, Pune, India, 15th January 2015
21. Lecture on topic entitled, "Traditional Ayurvedic Medicine in Newer Delivery Platforms: Is it the Way Forward?" at AAPCON 2014, Kokilaben Dhirubhai Ambani Hospital, Mumbai, 21st December 2014
22. Lecture on topic entitled, "Intracellular Delivery Using a Novel Cationic Heterolipid at Indo-US workshop on Nanoengineering in Medicine, All India Institute of Medical Sciences, Delhi, India, 19th December 2014
23. Lecture on topic entitled, "Lymph Targeted Lipid Nanocarrers: A Promising Approach for Oral Treatment of Breast Cancer", CPHI seminar on Drug Delivery and Formulations Summit 2014, Mumbai , 17th December 2014
24. Lecture on topic entitled, "Novel Drug Delivery Systems: A Tool to Rejuvenate Clinical Potential of Curcumin", update Ayurveda 2014 seminar on Going Beyond Traditional Dosage Forms, Nair Hospital, Mumbai, 12th December 2014
25. Lecture on topic entitled, "Raman Spectroscopy a New Era Tool for Preformulation", Seminar on New Frontiers in Preformulation Research, Kashibai Navele College of Pharmacy, Pune, India, 21st November 2014
26. Lecture on topic entitled, "PAT Assisted Hot Melt Extrusion" at seminar on Innovation in Pharmaceutical Processing, SMBT college of Pharmacy, Nasik, India, 11th October 2014
27. Lecture on topic entitled, "Funding agencies and opportunities", Seminar on Bio-Medical Communication Skills: Impact on Services Education and Research, Nanavati Hospital, Mumbai. India, 28th September 2014
28. Lecture on topic entitled, "Lipid Nanocarriers: Trojan horse for Intracellular Delivery" at seminar on Frontiers in Pharmaceutical Sciences and Drug Discovery Innovations, H. K. College of Pharmacy, Mumbai, India on 27th September 2014
29. Lecture on topic entitled, " Malaria Menace – Is Nano a Solution?", Fifth Indo-Japanese International Joint Symposium on Overcoming Intractable Infectious Diseases, Tokyo, Japan, 17th September 2014
30. Lecture on topic entitled, "Nanostructured Lipid Carriers for Malaria Intervention", UKIERI seminar on Advances in Healthcare Technology, University of Bradford, UK, 10th September 2014
31. Keynote speaker on topic entitled, "Regulatory Roadmap for Drug and Drug Products", Teacher's Workshop on Teaching Pedagogy of Product Development, Tatyasaheb Kore College of Pharmacy, Warananagar, Kolhapur, India, 16th August 2014

32. Keynote speaker on topic entitled, “Nanostructured Lipid Carriers: Potential as a Vaccine Adjuvant”, Vaccine Session, NanoBio Australia 2014, Brisbane, Australia, 9th July 2014
33. Panel member and academic representative at focus group discussion with Pharma Leaders on the topic entitled, “Indian Pharma Industry: Vision 2025”, BASF India Pvt. Ltd, Mumbai, India, 4th April 2014
34. Panel member and academic representative at focus group discussion with Pharma Leaders on the topic entitled, “ Indian Pharma Industry: Vision 2025 & Moving up the technology curve through Innovation”, BASF India Pvt. Ltd, Mumbai, 4th April 2014
35. Delivered a lecture entitled, “Lymphatic Targeting Using Long Chain Lipidic Nanoparticles” at AICTE Sponsored National Seminar on “Nanomedicines: Risk and Benefit ratio”, Manipal College of Pharmaceutical Sciences, Manipal, Karnataka, India, 24 – 25th January 2014
36. Delivered a lecture entitled, “Intracellular delivery of therapeutic actives: Potential of lipid nanocarriers” at AICTE sponsored National seminar on "Nanomedicines : Recent Development and future prospectus, Institute of Pharmaceutical Education and Research, Wardha, India, 18th January 2014
37. Delivered a lecture entitled, “ Nano Drug Delivery Systems: Rejuvenating Clinical Potential of Curcumin at National Symposium on Recent Trends in Nutraceuticals, St. Johns Institute of Pharmacy, Mumbai, India, 17th January 2014
38. Nanosuspensions: An Effective Strategy For Bioenhancement” at UKIERI seminar
39. on green processing technologies for poorly soluble drugs, Institute of Chemical Technology, Mumbai, India, 9th January 2014.
40. Delivered a lecture entitled, “ Semisolids for topical/transdermal delivery”at ” at Dr.J.D. Pawar College of Pharmacy, India, 5th January 2014
41. Current trends in research in the field of pharmaceuticals at MET Institute of Pharmacy, Mumbai India, 21st December 2013.
42. Delivered a lecture entitled, “Nanonisation Techniques and Pharmaceutical Product Developments: Advances, Opportunities and Challenges” at Faculty Development Programme (FDP), Bharati Vidyapeeth College of Pharmacy, Kolhapur, India 7th December 2013.
43. Delivered a lecture entitled, “Lymphatic targeting for treatment of breast cancer” at One Day national Seminar on Current Trends in Formulation Development and Regulatory Affairs,
44. Rashtrasant Tukadoji Maharaj Nagpur University Campus, Nagpur, India 3rd December, 2013.
45. Delivered a lecture entitled, “Cationic heterolipid based nanocarriers for anticancer therapeutics “ at Polymer Process engineering conference, University of Bradford, UK, 26-28th November 2013
46. Novel cationic heterolipid based nanocarrier system to improvise intracellular availability of therapeutic actives, at AICTE sponsored Faculty development programme, Principal
47. Padmashree Dr. D. Y.Patil College of Pharmacy, Pune, India 22nd November 2013
48. Delivered a lecture entitled, “Intracellular availability of therapeutic actives : Potential of lipid nanocarriers” at Interdisciplinary Perspectives: Defence Studies, Earth System Science and

- Bio-Medical Science (IPDEB-2013) conference, Sardar Patel University Vallabh vidyanagar, Ahmedabad, India, 16th November 2013
49. Delivered a lecture entitled, "Hot Melt Extrusion: A Scalable Technology towards Development of Bioenhanced Bioactives at Pam Glatt Conference, India, 14th November 2013.
 50. Delivered a lecture entitled, "Novel cationic heterolipid based nanocarrier system to improve intracellular availability of therapeutic actives at the first Indraprastha International Conference on Biotechnology, University School of Biotechnology, Guru Gobind Singh Indraprastha University, New Delhi, India, 22 – 25th October 2013
 51. Current research application of nanotechnology in medicine, D. Y. Patil Institute of pharmaceutical sciences and research, Pune, India, 19th October 2013.
 52. Invited speaker to deliver a talk on "Polysaccharide based Scaffolds for wound healing" at National Burns Centre, Navi- Mumbai India, 13rd July 2013
 53. Lecture series for newly enrolled L'Oreal Pvt. Ltd. employees on " Cosmeceuticals and pharmacokinetic and pharmacodynamic evaluation of hair, nail, Skin and Scalp care products, Institute of Chemical Technology, India, 10-14th June 2013
 54. Invited speaker to deliver a talk on "Regulatory Roadmap For Drug And Drug Products In Global Market" at Dr. J. D. Pawar College of Pharmacy, Nasik, India, 25th March 2013
 55. Invited speaker to deliver a talk on, "Nanostructured Lipid Carriers: Are they Trojan horses for malaria?" at 5th NIPER (RBL)-CDRI Symposium on Chemical and Biological Approaches in Drug Development and Delivery Strategies, New Campus of CSIR- CDRI, Lucknow, India, 21-23rd March 2013
 56. Invited speaker to deliver a talk on, "Supercritical assisted nanoparticle generation" at Nirma University, Ahmadabad, India, 20th February 2013
 57. Invited speaker to deliver a talk on, "Supercritical assisted nanoparticle generation" at B. V. Patel PERD Center, Ahmadabad, India, 20th February 2013
 58. Invited speaker to deliver a talk on, "Nanotechnological Intervention for Malaria" at University of Hyderabad, Hyderabad, India, 14th February 2013
 59. Invited speaker to deliver a talk on, "Microbial Nanoparticles" at golden Jubilee celebration function of Wilson College, Mumbai, India, 5th January 2013
 60. Invited speaker to deliver a talk on, "MCC a pharmaceutical excipient" at Training program of sales personnel of DFE Pharma in MCC, Chennai. 13th September 2012
 61. Invited speaker to deliver a talk on, "Evaluating most suitable technique for particle selection and polymorphic characterisation to increase bioavailability of pure drug nano molecule" at Nano Suspensions India 2012, Hyderabad, India 21st August 2012
 62. Invited speaker to deliver a talk on, "Nanosized lipid carriers-Potential in malaria therapy" at Hoshi University, Japan, 29th October 2012
 63. Invited speaker to deliver a talk on, "Nanocarrier Mediated Therapeutics For Malaria " at, 4th Indo-Japanese International Joint Symposium On Overcoming Intractable Infectious Diseases Prevalent In Asian Countries" Japan, 30th October 2012

64. Invited speaker to deliver a talk on “Novel Brain Targeted Nanocarrier for Migraine Therapy” at 8th of the NanoTR, Hacettepe University Ankara, Turkey, 25-29th of June 2012
65. Invited speaker to deliver a talk on, “Artemether delivery-Potential of nanostructured lipid carriers” at Sardar patel university, Vallabh Vidyanagar, India, 10th March 2012
66. Invited speaker to deliver a talk on, “Micellar Nanocarriers: Potential in brain targeting at S.M.B.T. College of Pharmacy, Nasik, India, 18th February 2012
67. Invited speaker to deliver a talk at Sinhgad Technical Education Society’s Smt. Kashibai Navale College of Pharmacy, Pune, India, 17th February 2012
68. Invited speaker to deliver a talk on ““Micellar nanocarriers for delivery to brain” at Poona college of Pharmacy, Pune , India , 11th February, 2012
69. Invited speaker to deliver a talk on “Technical writing” at Dr. J. D. Pawar College of Pharmacy, Nasik, India, 8th January, 2012
70. Invited speaker to deliver a talk on “Nanotherapeutics in malaria: Potential of lipid particulate carriers” at Nasik, India, 7th January, 2012
71. Delivered lectures on “New Formulation Strategies For NCEs Nanotechnology As A Foundation For Pre-Clinical Formulation Development” and “Tcehnical writing” at Gahlot College of Pharmacy, Mumbai, India, 10th December 2011
72. Delivered a lecture on “Particulate Nanocarriers: Potential In Severe Malaria Treatment” at Indo-US Joint Symposium on Nanomedicine Prospects and Challenges, ICT, Mumbai , India, 14-15th November 2011
73. Delivered a lecture on “Colloidal Carriers: An Update” at Sinhgad college of Pharmacy , Pune, India, 27th September 2011
74. National Seminar on Emerging Frontiers in Nano Delivery Systems at Institute of Chemical Technology, 19th March, 2011
75. Invited speaker to deliver a talk on “Laboratory Hazarous and Toxicity” at NCL, Pune, India, 7th March, 2011
76. Invited speaker to deliver a talk on “Regulatory Roadmap For NDA/ANDA” in Seminar Drug regulatory affair: Current Scenario, Allana college of Pharmacy, Pune, India, 4-6th March 2011
77. Delivered lecture at 4th laboratory safety course, ICT, Mumbai, India, January 2011
78. Invited speaker to deliver a talk on “Controlled Released Device” at Dr.J.D. Pawar College of Pharmacy, India, 8th January, 2011
79. Invited speaker to deliver a talk on “Particulate nanocarriers: Role in antimalarial therapy ” in National Seminar on ‘Pharmaceutical Technology Current Perspective’, at AISSMS College of Pharmacy, Pune, India, 4-6th January 2011
80. Delivered a lectured on Nanotechnoogy based product for at Sava Pvt. Ltd, Pune, India
81. Chairman / Co-chairman for one of the Scientific sessions of 62nd IPC, Manipal University, Manipal, India, 17 -19th December 2010

82. Invited speaker to deliver a talk on "Nanocarrier Based Antimalarial Therapeutics" at 3rd Indo-Japanese International Joint Symposium on Overcoming Intractable Infectious Diseases Prevalent in Asian Countries, Japan, 13-14th December 2010
83. Invited speaker to deliver a talk on "Micellar nanocarriers : Potential in nose-to-brain deliver" at 6th International Symposium on Innovations in Pharmaceuticals Sciences and Technology, Ahmedabad, Gujarat, India, 26 – 28th November 2010
84. Invited speaker to deliver a talk on "pH sensitive polymeric nanoparticles of curcumin: Exploring the efficacy and safety" at 1st world conference on nanomedicine and drug delivery, Kottayam, Kerala, India, 2010.
85. Tenth International Symposium on Advances in Technology and Business Potential of New Drug Delivery Systems, CRS, IC, February 2010, Mumbai
86. 4th International Workshop on Crystallization Filtration and Drying" at ICT , Mumbai, India, 25-27th February 2010
87. Nanotechnology And Interfaces-Role In Drug Delivery, India, February 2010
88. Recent Trends In Animal Health Drug Delivery Systems, India, February 2010
89. Invited speaker to deliver a talk on "Drug Coated Stents" an Indo-Australian conference on Tissue Engineering, Biomaterials and Drug Delivery System organized by Sardar Patel University, Vallabh Vidyanagar, Gujarat, India, 11-12th February 2010
90. 1st DBT-ISTP Indo-Canadian Symposium on Bioenergy, Bioproduct and Green Engineering at ICT, Mumbai, India, 18-19th January 2010
91. P-Mec/CphI event in Mumbai, at Bombay Exhibition Centre, Mumbai, India, 1-3rd December 2009
92. Invited speaker to deliver a talk on "Chemical Toxicity" during the 'Safety Workshop' at ICT, Mumbai, India, February 2008
93. Invited speaker to deliver a talk on "Solid Lipid Nanocarriers-Scope and Challenges" at AICTE sponsored Quality Improvement Programme on "Nanotechnology in Advanced Drug Delivery", Pune, India, February 2008
94. Invited speaker to deliver a talk on "Release kinetics from stents" at San Fransisco, USA, February 2008
95. Invited speaker to deliver a talk at 8th International Symposium on Advances in Technology and Business Potential of New Drug Delivery Systems" organized by CRS Indian chapter, Ahmedabad, India, February 2008
96. Invited speaker to deliver a talk at 1st Indo-Japan symposia on infectious diseases, Tokyo, Japan, November 2007
97. Invited speaker to deliver a lecture in Gattefosse Oral Drug Delivery seminar on "Multifunctional lipid nanocarriers for enhanced drug delivery", Mumbai, India, 4th December 2006
98. Invited speaker to deliver a talk on "Nanosuspensions: A promising drug delivery strategy" at National Institute of Technical Teachers Training and Research, Bhopal, India, October 2006

99. Invited speaker to deliver a talk on “Nanosuspensions: A promising drug delivery strategy” at National Institute of Technical Teachers Training and Research, Extension center, Pune, India, 20th September 2006
100. Invited speaker to deliver a talk on “Nanocarriers for diagnostic applications” at 13th International Pharmaceutical Technology Symposium at Antalya, Turkey, 10 -13th September 2006
101. Invited speaker to deliver a talk on Nanocarriers: Potential in drug delivery at Orchid Research laboratories Limited, Chennai, India, 23rd May 2006
102. Invited Lecture at Cadila Pharmaceuticals, Ahmedabad entitled, Nanosuspensions: A promising Drug Delivery Strategy, January 2006
103. Lectures Delivered: A lecture on Microemulsion for Transdermal Drug Delivery at the Cadila Pharmaceuticals Ltd., Dholka, Ahmedabad, India 2004
104. Invited speaker at Pre symposium Workshop on Transdermal and Pulmonary Drug Delivery Systems organized by B. V. Patel PERD Center and CRS Indian Chapter, Ahmedabad, India, February 2000
105. Invited to deliver a lecture on Drug Delivery Systems- A Challenge and Opportunity by Hindustan Lever Research Center, Mumbai, India, January 2000
106. Faculty for a refresher course in Basic Principles and Applications of Chromatographic separations, organized by Pharmaceutical Division, ICT, India, October 1993

p) Conference/symposia presentations

1. Green technology approach for development of BCS Class II molecule nanoformulation, Gite S; at the Global conference on Pharmaceutics and Drug Delivery System, Valencia, Spain, June-July 2017
2. Polyphenols loaded vaginal microbicide: A novel strategy for prevention of HIV transmission, Mirani A; at the Global conference on Pharmaceutics and Drug Delivery System, Valencia, Spain, June-July 2017
3. Nanoparticle Engineering of atovaquone using nano-by-design (NbD) approach, Kakade P; at the Global conference on Pharmaceutics and Drug Delivery System, Valencia, Spain, June-July 2017
4. Lymphatic system Targeted Lipid Nanocarriers: A Promising Approach for Oral Treatment of Breast Cancer; Prabhu R; at International conference on Novel formulation strategies organized by SELECTBIO, Hyderabad, India, April 2017
5. NanoMicide Gel and its Delivery Device: An Alternative to Condoms for Prevention of UAI Associated HIV; Mirani A; at International conference on Novel formulation strategies organized by SELECTBIO, Hyderabad, India, April 2017

6. Novel Lipid Nanoformulation of Artemether-Lumefantrine Combination for Oral Malaria Therapy; Pawar R; at International conference on Novel formulation strategies organized by SELECTBIO, Hyderabad, India, April 2017
7. Green Technology assisted nanocarriers of Genistein for Topical Delivery; Pai A., Bhuptani R., Patravale V; at International workshop on Topical Dermatological dosage forms organized by Controlled Release Society Indian Chapter and SciTech Centre, Mumbai, India, January 2017
8. Detection of brucellosis in humans: a non-invasive and patient friendly approach; Vyas S., Pawar R., Jadhav S., Manjee S., Patravale V; at In vitro Diagnostics: Oncology and Infectious Diseases Conference, London, United Kingdom, November 2016
9. Sub-unit nanovaccine for brucellosis using green technology; Dhoble S., Vyas S., Ghodake V., Patravale V; at 6th Indo-Japanese International Symposium on “Overcoming intractable infectious diseases prevalent in Asian countries” Goa, India, September 2016
10. Lipid based cochleates for oral delivery of gentamicin sulphate; Dhoble S., Dhage S., Patravale V; at 6th Indo-Japanese International Symposium on “Overcoming intractable infectious diseases prevalent in Asian countries” Goa, India, September 2016
11. Chitosan nanoparticles for the delivery of anti-tuberculosis agents; Chogale M., Patravale V; at 6th Indo-Japanese International Symposium on “Overcoming intractable infectious diseases prevalent in Asian countries” Goa, India, September 2016
12. RESS: A novel approach for the fabrication of inhalable rifampicin nanocrystals; Chogale M., Talkar S., Patravale V; at 6th Indo-Japanese International Symposium on “Overcoming intractable infectious diseases prevalent in Asian countries” Goa, India, September 2016
13. Inhalable rifampicin nanocrystals: an alternative approach for tuberculosis therapy; Chogale M., Ghodake V., Patravale V; at 6th Indo-Japanese International Symposium on “Overcoming intractable infectious diseases prevalent in Asian countries” Goa, India, September 2016
14. Bioenhanced atovaquone for oral delivery; Darade, A., Pathak, S., Sharma, S., Patravale, V; at 6th Indo-Japanese International Symposium on “Overcoming intractable infectious diseases prevalent in Asian countries” Goa, India, September 2016

15. *Punica granatum* Extract Loaded Nanomicrobicide Gel for Prophylaxis of HIV transmission; Mirani A., Kundaikar H., Velhal S., Bandivdekar A., Degani M., Patravale V; at 6th Indo-Japanese International Symposium on “Overcoming intractable infectious diseases prevalent in Asian countries” Goa, India, September 2016
16. Development and characterization of metallodendrimer with broad spectrum anti-bacterial activity; Pukale S., Sane M., Patravale V; at 6th Indo-Japanese International Symposium on “Overcoming intractable infectious diseases prevalent in Asian countries” Goa, India, September 2016
17. Evaluation of ‘curcumin’ vs. ‘curcumin analogue’ as GP120-CD4 binding inhibitor: *in silico* & *in vitro* screening; Mirani A., Kundaikar H., Kharkar P., Shilpa V., Bandivdekar A., Degani M., Patravale V; at 6th Indo-Japanese International Symposium on “Overcoming intractable infectious diseases prevalent in Asian countries” Goa, India, September 2016
18. Surface modified nanotherapeutics for cerebral malaria treatment; Jain S., Upadhaya P., Pathak, S., Sharma, S., Patravale V.; at 6th Indo-Japanese International Symposium on “Overcoming intractable infectious diseases prevalent in Asian countries” Goa, India, September 2016
19. Development of atovaquone nanosuspension for treatment of pneumonia: quality by design (QbD) approach; Kakade P., Gite S., Patravale V; at 6th Indo-Japanese International Symposium on “Overcoming intractable infectious diseases prevalent in Asian countries” Goa, India, September 2016
20. Exploring nanostructured lipid carriers (NLC) as potential vaccine adjuvants; Prabhu, P.¹, Prabhu, R.¹, Pathak, S.², Sharma, S.², Patravale, V.¹; at 6th Indo-Japanese International Symposium on “Overcoming intractable infectious diseases prevalent in Asian countries” Goa, India, September 2016
21. Anti-malarial efficacy of lipid nanoparticles: combination of curcumin-arteether vs ellagic acid-arteether; Gugulothu D¹., Pawar R.¹., Pathak S²., Sharma S²., Patravale V¹; at 6th Indo-Japanese International Symposium on “Overcoming intractable infectious diseases prevalent in Asian countries” Goa, India, September 2016

22. Novel metallodendrimer hydrogel for wound care; Pukale S., Bhuptani R., Patravale V.; at 6th Indo-Japanese International Symposium on “Overcoming intractable infectious diseases prevalent in Asian countries” Goa, India, September 2016
23. Nano by Design Approach for Development of *Camellia sinensis* Extract Loaded Rectal Nanomicrobicide Gel; Gite S., Mirani A., Velhal S., Bandivdekar A., Patravale V; at 6th Indo-Japanese International Symposium on “Overcoming intractable infectious diseases prevalent in Asian countries” Goa, India, September 2016
24. Molecular modelling of nattoxinase and its delivery as intranasal microemulsion for the treatment of HIV induced neurodegeneration; Naik S.V., Patravale V.B.; at 6th Indo-Japanese International Symposium on “Overcoming intractable infectious diseases prevalent in Asian countries” Goa, India, September 2016
25. Immunochromatographic diagnostic test for detection of brucellosis in humans; Vyas S., M.K. Soumya, Bhatia L., Patravale V; at 6th Indo-Japanese International Symposium on “Overcoming intractable infectious diseases prevalent in Asian countries” Goa, India, September 2016
26. Geometry Optimized t-micellar Gel: Microneedle assisted transdermal delivery platform for targeted brain delivery; Desai P, Patravale V; at 15th International Symposium on ‘Advances in technology and Business Potential of New Drug Delivery Systems’, Mumbai, India, February 2016
27. Quality by design approach for nanonization of Atorvastatin calcium for enhanced solubility using industrial feasible rapid expansion of supercritical solvent (RESS) technique; Gite S. M, Patravale V. B; at 15th International Symposium on ‘Advances in technology and Business Potential of New Drug Delivery Systems’, Mumbai, India, February 2016
28. Green technology for encapsulation of low melting active; Chogale M. M, Mahamulkar S.S, Patravale V. B; at 15th International Symposium on ‘Advances in technology and Business Potential of New Drug Delivery Systems’, Mumbai, India, February 2016
29. Development of novel GP120-CD4 inhibitor loaded nanomicrobicides for prophylaxis of HIV/AIDS; Mirani A. G., Kundaikar H. S., Kharkar P. B., Shilpa V., Bandivdekar A., Degani M. S., Patravale. V. B; at 15th International Symposium on ‘Advances in

- technology and Business Potential of New Drug Delivery Systems', Mumbai, India, February 2016
30. Engineering lipid nanocarriers using novel supercritical fluid technology – statistical optimization and pharmacokinetic evaluation; Soumya M.K., Swami M., Bhatia L., Patravale V.B; at 15th International Symposium on 'Advances in technology and Business Potential of New Drug Delivery Systems', Mumbai, India, February 2016
 31. Lipid based nanocochleates: A promising formulation approach for oral delivery of Gentamicin sulphate; Dhoble S. B, Kulkarni C. S, Patravale V. B at 15th International Symposium on 'Advances in technology and Business Potential of New Drug Delivery Systems', Mumbai, India, February 2016
 32. Bone tissue engineering using 3D Hydroxyapatite composite scaffolds of chitosan and carboxymethyl chitosan; Talkar S. S., Khinvasara A.A., Patravale V. B; at 15th International Symposium on 'Advances in technology and Business Potential of New Drug Delivery Systems', Mumbai, India, February 2016
 33. Qbd based development of Ketoconazole nanogel: A non-infringing approach; Ghodake V., Pitale Y., Mirani A. & Patravale V; at 15th International Symposium on 'Advances in technology and Business Potential of New Drug Delivery Systems', Mumbai, India, February 2016
 34. Development of parenteral in situ thermoreversible hydrogel depot of Asenapine maleate Naik S. V., Vishwakarma R., Patravale V. B; at 15th International Symposium on 'Advances in technology and Business Potential of New Drug Delivery Systems', Mumbai, India, February 2016
 35. Development of novel Carboxymethyl chitosan – zinc scaffolds: Application in wound healing; Pawar R.S, Khakharia M.S, Patale R.L, Patravale V.B; at 15th International Symposium on 'Advances in technology and Business Potential of New Drug Delivery Systems', Mumbai, India, February 2016
 36. Development and evaluation of Amphotericin B loaded liposomal gel prepared by industrially feasible technique; Dhage S. N., Vaidya T.R., Mirani A., Patravale V. B; at 15th International Symposium on 'Advances in technology and Business Potential of New Drug Delivery Systems', Mumbai, India, February 2016

37. Coitus independent dual acting nanomicrobicide gel: An alternative to condom for HIV prophylaxis and unwanted pregnancy; Upadhaya P. G., Talele S. M., Mirani A. G., Patravale V. B; at 15th International Symposium on ‘Advances in technology and Business Potential of New Drug Delivery Systems’, Mumbai, India, February 2016
38. Particle engineering of Atovaquone using a patent non-infringing RESS technique; Kokate S.A., Mapara S.S., Desai P.P, Patravale V. B; at 15th International Symposium on ‘Advances in technology and Business Potential of New Drug Delivery Systems’, Mumbai, India, February 2016
39. Geometry Optimized t-Micelles: A Targeted Nanocarrier Platform For Enhanced Brain Uptake; Desai P, Aswal V, Hassan P, Patravale V; at National conference on Nanotechnology in drug research: Innovations, Challenges and Opportunities, Mumbai, India, October 2015
40. Generic Oral Aprepitant Nanoformulation: A Patent Non-Infringing Approach; Tayade R, Bhise K, Desai P, Patravale V; at National conference on Nanotechnology in drug research: Innovations, Challenges and Opportunities, Mumbai, India, October 2015
41. Stable nanoemulgels formed by self-assembly of polymer networks mediated by hydroxyl based molecules; Vyas S., Khambete M., Gudhka R., Panchamia S., Degani M., Patravale V., at the Belgian polymer conference 2015, Houffalize, Belgium, May 2015
42. Dynamics of molecular interactions of antibacterial poly(methylvinyl ether/maleic acid) with ocular surface mucins: biological activity and in situ gel network formation; Vyas S., Khambete M., Gudhka R., Panchamia S., Dhoble S. Degani M., Patravale V., at the Belgian polymer conference 2015, Houffalize, Belgium, May 2015
43. Production and characterization of xyloglucan based nanoparticles by using rapid expansion of supercritical solution (ress) technology; by the bill and melinda gates foundation; Ghodake V., Vyas S., Dhoble S. Patravale V., at the Belgian polymer conference 2015, Houffalize, Belgium, May 2015
44. Nanostructured lipid carriers (NLC) of artemether-lumefantrine combination for intravenous malaria therapy; Prabhu P., Pathak S., Sharma S., Patrvale V., at the 1st European Conference on Pharmaceutics: Drug Delivery, Reims, France April, 2015
45. Nanostructured Lipid Carriers (NLC) of Artemether-Lumefantrine combination for oral malaria therapy; Prabhu P., Pathak S., Sharma S., Patrvale V., at the Eighth International

- Annual Conference on "Translational Clinical Pharmacology Research in Drug Development" organised by South Asian Chapter of American College of Clinical Pharmacology, Mumbai April, 2015
46. Formulation of nanoparticle coated drug-eluting stents; Agrawal A., Arsiwala A., Raval A., Engineer C., Mandal R., Patravale V., at "14th International Symposium on Advances in Technology and Business Potential of New Drug Delivery Systems, Mumbai, India, February 2015
 47. Statistical optimization and evaluation of novel eudragit®s-100 nanoparticles of retinol acetate using 23 full factorial design; Velhal M., Pukale S., Naik S., Patravale V., ., at "14th International Symposium on Advances in Technology and Business Potential of New Drug Delivery Systems, Mumbai, India, February 2015
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266. Transdermal Spray of Nimesulide; S. G. Sawant, R. Rajan and V.B. Patravale. 53rd Indian Pharmaceutical Congress, Delhi, India, 21-23rd December 2001
267. Stability Indicating HPTLC method for Clarithromycin; S.G. Sawant, C.C. Bhagat and V.B. Patravale. 53rd Indian Pharmaceutical Congress, Delhi, India 21-23rd December 2001
268. Taste Masking of a Macrolide Antibiotic; N.B. Prabhu, C.C. Bhagat and V.B. Patravale. 53rd Indian Pharmaceutical Congress, Delhi, India, 21-23rd December 2001
269. Microporous Membranes for Transdermal Drug Delivery: Design and Optimization; D.D. Karkhanis, H.J. Gala, V.C. Malashe and V.B. Patravale 3rd International Symposium on “Advances in Technology and Business Potential of NDDS, Ooty, India, 30th September-1st October 2000
270. Microporous Membrane: An Innovative aid in Transdermal Drug Delivery; R. Rajan, H.J. Gala, V.C. Malashe and V. B. Patravale. 3rd International Symposium on “Advances in Technology and Business Potential of NDDS, Ooty, India, 30th September-1st October 2000

271. Fabrication of Solid Lipid Nanoparticles: A drug carrier with targeting potential C.``C. Bhagat, A.V. Ambarkhane and V.B. Patravale 3rd International Symposium on “Advances in Technology and Business Potential of NDDS,” Ooty, September 30-Oct. 1, 2000
272. Nimesulide transdermal therapeutic system: a feasibility study; H J Gala, Ameet V Ambarkhane, Vandana B Patravale at 4th International symposium on innovations in Pharmaceutical Sciences and technology organized by B V Patel PERD center, Ahmedabad, India 4-6th February 2000
273. Submicron Lipopearls of Nimesulide; Ameet V. Ambarkhane, H J Gala and Vandana B. Patravale at 4th International symposium on innovations in Pharmaceutical Sciences and technology organized by B V Patel PERD center, Ahmedabad, India 4-6th February 2000
274. Miconazole Nitrate Gels, a viable alternative to existing topical formulations; Vandana B Patravale, Ameet V. Ambarkhane, Nikhila Karkar at 51st Indian Pharmaceutical Congress, Indore, India, December 1999
275. Nimesulide Preformulation Update for better formulation by Vandana B Patravale, H J gala, Yogeeta Narkar, Susan D’souza, at 51st Indian Pharmaceutical Congress, Indore, India, December 1999
276. Nimesulide microemulsion Based Gels ; Vandana B Patravale, Hetal J. Gala, Yogeeta S. Narkar at 2nd International Symposium on Advances in technology and business potential of DDS, Goa, India 1999
277. Multi-unit sustain release Nifedipine formulations; Vandana B Patravale, Vinod B. Nair, Ameet V. Ambarkhane at 2nd International Symposium on Advances in technology and business potential of DDS, Goa, India 1999
278. Modified release pallets of Nifedipine formulations; Vandana B Patravale, Manish M. Birla at 2nd International Symposium on Advances in technology and business potential of DDS, Goa, India 1999

279. Analysis of Nifedipine in Human Plasma by HPTLC; Vandana B Patravale and Manisha M. Birla at 50th Indian Pharmaceutical Congress, and 17th FAPA, Mumbai, India, December 1998
280. Nimesulide Thermocaps-A technological innovation; Vandana B Patravale, Susan S. D'souza, Yogeeta S. Narkar at 50th Indian Pharmaceutical Congress, and 17th FAPA, Mumbai, India, December 1998
281. Controlled release Thermocaps of Nifedipine; Vandana B Patravale and Subhash P Gore at 25th International symposium on controlled release of bioactive materials, at Las Vega, USA, 1998
282. Microemulsions of Nimesulide for transdermal delivery; Yogeeta Narkar and Vandana B Patravale 1st CRS symposium on Advances in technology and Business Potential of DDS, Mumbai, Mumbai, India, February 1998
283. Liquid filled Caps of flurbiprofen; Vandana B. Patravale at 1st CRS symposium on Advances in technology and Business Potential of DDS, Mumbai, Mumbai, India, February 1998
284. Liquid filled Thermocaps of Nimesulide; Vandana B. Patravale and Susan S. D'souza at 1st CRS symposium on Advances in technology and Business Potential of DDS, Mumbai, India, February 1998
285. Microemulsions based gels of Diclofenac Diethylammonium; Hrasha K. Lal and Vandana B. Patravale at 3rd International symposium on innovations in Pharmaceutical Sciences and technology, Ahemdabad, February 1997
286. Controlled release Thermocaps of Flurbiprofen by Vandana B. Patravale and Punita Khanna at 23rd International Symposium on Controlled release of Bioactive Materials, Kyoto, Japan, 1996
287. Liquid filled hard gelatin capsules of Nifedipine; Subhash P Gore and Vandana B Patravale at 48th Indian Pharmaceutical Congress, Chennai, India, December 1996

288. Quantification of Nifedipine by HPTLC by Vinod B. Nair, Subhash p. Gore and Vandana B. Patravale at 48th Indian Pharmaceutical Congress, Chennai, India, December 1996
289. Microemulsions for enhanced transdermal delivery of Diclofenac Diethylammonium; Hrasha K. Lal and Vandana B Patravale at 48th Indian Pharmaceutical Congress, Chennai, India, December 1996
290. Microemulsions of Diclofenac diethylammonium for enhance transdermal delivery ; Hrasha Lal and Vandana B. Patravale at International Conference on Delivery Techniques and testing at Seth G.S. Medical College,India, December 1995
291. Thermocaps of Flurbiprofen using Indegenous fat at 47th Indian Pharmaceutical Congress, Vishakhapatanam, India, December 1995
292. Liquid filling in hard Gelatin Capsules; Vandana B Patravale and Punita Khanna at 47th Indian Pharmaceutical Congress, Vishakapatanam, India December 1995
293. Hard Capsules with Soft centers; Vandana B Patravale at 2nd International Symposium on Innovations in Pharmaceutical Sciences and Technology by Shri. B. V. Patel PERD center, India, 1994
294. Controlled release of Flurbiprofen formulation; Vandana B Patravale and Sudhakar G. Deshpande at 21st International symposium on Controlled Release of Bioactive Materials, Nice, France, June 1994
295. Molecular complexes-an aid to transdermal delivery; Vandana B Patravale and Sudhakar G. Deshpande at 43st Indian Pharmaceutical Congress, Goa, India 1991.
296. Transdermal Films of Flurbiprofen; Vandana B Patravale and Sudhakar G. Deshpande at 1st International Symposium on Innovations in Pharmaceutical Sciences and Technology by Shri. B. V. Patel PERD center, India, 1991
297. *Invitro* release kinetics of NSAIDs from gels; Vandana B Patravale and Sudhakar G. Deshpande at 41st Indian Pharmaceutical Congress, Mumbai,India, 1990

298. Effect of Penetration enhancers on permeation kinetics of NSAIDs; Vandana B Patravale and Sudhakar G. Deshpande at 41st Indian Pharmaceutical Congress, Mumbai, India, 1989

299. Multi unit dosage forms of Flurbiprofen; Vandana B Patravale and Sudhakar G. Deshpande at 42nd Indian Pharmaceutical Congress, Manipal, India 1990

300. Transdermal gels containing Ibuprofen and Mephenesin; Vandana B Patravale and Sudhakar G. Deshpande, 40th Indian Pharmaceutical Congress, Calcutta, India, 1989

301. Transdermal gels containing Ibuprofen and Mephenesin; Vandana B Patravale and Sudhakar G. Deshpande at 38th Indian Pharmaceutical Congress, Ahemdabad, India 1986

q) Sponsored projects

No.	Title	Funding agency	Amount (Rs.)	Period
Government Grants				
1.	Intranasal colloidal formulations for diagnostic and therapeutic applications	Board of Research in Nuclear Sciences (BRNS)	24, 40,400/-	2016-2019
2.	Hot Melt Extrusion Assisted Solid Dispersions for Oral Bioenhancement of Poorly Bioavailable Drugs under collaborative project 'Process analytics enabled green technologies for processing of poorly soluble drugs'	UKIERI (UK-India Education and Research Initiative) funded by British council	£ 40,000/- (INR 40,00,000/-)	2012 - 2014
2.	Process Engineering For Fabrication of Micro/ Nano Particles	All India Council of Technical Education (AICTE)	18,00,000/-	2012-2015
3.	Rectal Microbicidal Nanotherapeutics for HIV/ AIDS	Department of Biotechnology (DBT)- Indian Council of Medical Research (ICMR)	65,42,400/-	2012-2015

4.	Nanotechnology-based Diagnostic Module for Detection of Brucellosis	Indian Council of Medical Research (ICMR)	18,44,524/-	2011-2014
5.	Therapeutic approaches using controlled transdermal delivery to treat neurodegenerative diseases in aging populations	Department of Science and Technology (DST)	26,62,800/-	2009-2012
6.	Extraction and isolation of seabuckthorn actives for developing nanocarrier based cosmeceuticals	Department of Biotechnology (DBT)	58,34,000/-	2009-2012
7.	Application of Supercritical fluid extraction technology in the production of lectin mediated colon targeting micro/nano-particles.	Department of Biotechnology (DBT)	29,22,800/-	2008-2011
8.	Nanotherapeutics with Lipidic nanoparticles for the treatment of malaria	Department of Biotechnology (DBT)	1,07,90,000/-	2008-2011
9.	Development and evaluation of novel brain targeted nasal drug delivery system	Board of Radiation and Nuclear Sciences (BRNS)	12,07,750/-	2007-2009
10.	Development of novel polymer based drug delivery system	All India Council of Technical Education (AICTE)	10,00,000/-	2004-2006
11.	Microemulsions as vehicles for transdermal use	University Grants Commission (UGC)	27,000/-	1996
12.	Radiation effects on the controlled release of ophthalmic drug delivery systems	Department of Atomic Energy (DAE) as Co-PI	4,57,580/-	1994
13.	Development of anti-arthritic/anti-inflammatory transdermal therapeutics systems	University Grants Commission (UGC)	10,000/-	1992
Departmental Grants				
1.	Formulation of tea tree oil	UDCT Golden Jubilee Research Fund Endowment	30,000/-	2005-2006

2.	Development of microemulsion based multipurpose anti-acne gels	UDCT Golden Jubilee Research Fund Endowment	40,000/-	2001-2003
3.	Evaluation of antacid formulations	UDCT Alumni	12,500/-	2000
4.	Indigenous wax-antiaging potential	UDCT Golden Jubilee Research Fund Endowment	25,000/-	1997
5.	Use of indigenous excipients for a new drug delivery system	UDCT Golden Jubilee Research Fund Endowment	25,000/-	1994

Industrial/Private Grants				
1.	Formulation and Characterization of SMEDDS for Oral Delivery	Ferring Pharmaceuticals	47,72,500/-	2017-2018
2.	Formulation and Characterization of Agro Based Products	Sulphur Mills Ltd.	7,05,000/-	2016-2017
3.	Development of dissolution method for ophthalmic suspension using USP IV apparatus.	Neon Pharma	6,72,719/-	2016-2017
4.	<i>In vivo</i> and <i>In vitro</i> characterization of Vextrano curcumin with the curcumin Oleoresin	Synthite Industries Ltd	5,31,250/-	2016-2017
5.	Method development for flux studies and analysis of transdermal formulation	Famycare India Ltd.	5,00,000/-	2016
6.	A natural terpine mixed head lice treatment and natural long-acting terpine mosquito repellent development	Neopharma Ltd.	12,00,000/-	2015-2016

7.	Formulation development of Analgesic and antiinflammatory herbal formulation	Emami Ltd.	6,84,000/-	2016
8.	Extraction and quantification of DSGN from natural source using supercritical technology	ASG Biochem Pvt. Ltd.	1,00,000/-	2015
9.	Development and validation of dissolution methodology for pravastatin tablet USP using USP IV dissolution apparatus	Perrigo API India India Pvt. Ltd.	2,50,000/-	2014-2015
10.	Particle size and complexation analysis between mouse platelet factor 4 (mPF4) and low molecular weight heparin (LWH) using DLS	Quantimmune solutions Pvt. Ltd.	4,00,000/-	2014-2015
11.	Formulation development of analgesic and antiinflammatory herbal formulations	Emami Ltd.	10,00,000/-	2014-2015
12.	Development and validation of dissolution methodology ophthalmic nanosuspension using USP IV dissolution apparatus	FDC Ltd.	2,50,000/-	2015
13.	Development of micro. /nacosuspension of an antimalarial moiety	Alkem Pharmaceutical Pvt. Ltd	10,00,000/-	2014
14.	Nanovaccine for Brucellosis using Green	Grand Challenges Explorations Grants	1,00,000 \$	2013-2014

	Technology	Round 11, Bill & Melinda Gates Foundation	(INR ~60,00,000/-	
15.	Development of Smart Drug Eluting Stents	Sahajanand Medical Technologies	8, 50,000/-	2013-2015
16.	Dissolution investigation study of IR dosage forms	Boehringer Ingelheim Group	3,30,900/-	2009-2010
17.	Characterization of protein and peptide formulations	Piramal Healthcare Limited	1,00,000/-	2009-2010
18.	Development of new drug release system	Sahajanand Medical Technologies	2,69,376/-	2006-2008
19.	Development of nanoparticles and polymer tubes	Sahajanand Medical Technologies	7,21,355/-	2006-2009
20.	Development of Stable Novel Formulation	Hindustan Lever Ltd.	2,44, 720/-	2004-2005
21.	Development of novel formulations	Sunder Medical Agency	2,44,720/	2003-2005
22.	Comparative evaluation of Leurogenase formulation	VHB Pharmaceuticals	62,500/-	2001-2003
23.	Development of some novel formulations	Healers Nutraceuticals	1,25000/-	2001-2003
24.	Formulation of SMEDDS	Novartis Pharmaceuticals	1,25000/-	2001-2003
25.	Development of extended release anti-inflammatory formulation	Sci-Tech centre and Gattefosse, France,	50,000/-	1993
26.	Cosmetic formulations	Amber International	50,000,-/	1999

r) Details of national and international collaborations

No.	Agency
National	
1.	DR. Abhijit De, ACTREC, Mumbai
2.	Dr. Samir maji, IIT, Mumbai

3.	Dr. Sharmila Majee, BVC, Mumbai
4.	Dr. Geeta Vanage, NIRRH, Mumbai
5.	Dr. Shobhona Sharma, TIFR, Mumbai
6.	Dr. D. G. Pol, Govt. Dental College, Mumbai
7.	Dr. Swapna Nabar, Radiation Medical Centre, BARC, Mumbai
8.	Dr. Aditya Mittal, IIT Delhi
9.	Dr. Lata Panicker, BARC, Mumbai
10.	Dr. P. A. Hassan, BARC, Mumbai
11.	Prof. Rekha Singhal, ICT, Mumbai
12.	Prof. Vineeta Deshapande, ICT, Mumbai
13.	Dr. Anuradha Dube, CDRI, Lucknow
14.	Dr. P.K.Shukla, CDRI, Lucknow
15.	Dr (Mrs.) Shailja Bhattacharya, CDRI, Lucknow
16.	Dr. Deepak Mathur, TIFR Mumbai
17.	Dr. Ajit Gorakshekar, NIIH, Mumbai
18.	Dr. Shoma Paul, Amity University, Noida
19.	Dr. M. Keswani, National Burns Centre, Navi-mumbai
International	
1.	Mr. John Devis, Neopharma Limited, UK
2	Prof. R. Mueller, Berlin, Germany
3.	Dr. Yogeshwar Kalia, University of Geneva, Switzerland
4.	Prof. Kimiko Makino, University of Tokyo, Japan
5.	Prof. M. Ihara, Hoshi University, Japan
6.	Prof. A. Paradkar, University of Bradford, UK
7.	Prof. P. Coates, , University of Bradford, UK