

Dr. Payal Hasmukhlal Patil

M. Pharm, Ph. D

Assistant Professor, Department of Pharmaceutics,
H. R. Patel Institute of Pharmaceutical Education and Research,
Shirpur (Dhule, MS)



Objective: To contribute in the field of academic, research and administration to promote innovation in pharmaceutical sciences with honesty, dedication and responsibility towards the society.

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| Email: | Total Experience : 9 Years |
| pharmapayal@gmail.com drpayalhpatil@gmail.com | Currently working as Assistant Professor from 13/07/2015 till date at HRPIPER, Shirpur, Dhule Worked as QA officer from 01/10/2014 to 31/05/2015 at Osaka pharmaceuticals Pvt. Ltd. Gujarat Worked as Assistant Professor from 01/07/2011 to 31/07/2014 at HRPIPER, Shirpur, Dhule |
| Contact. No: | Approvals |
| 9923216542 (M) 02562-257599 (O) | Asst. Professor: NMU, Jalgaon---Ref No. NMU/18/471/2012 Dated-12/03/2012 as per statute 415 (1) PG Teacher : NMU/11/PGR/Pharm/2018/2019 Dated-29/05/2019 |
| Permanent address: | Professional Experience: |
| Dr. Payal H. Patil 2348, Gujarathi Lane, Upper Town, Shirpur, Dist.: Dhule, Maharashtra- 425405 | Presently working as Assistant Professor in Pharmaceutics at HRPIPER, Shirpur. Working as M. Pharm research guide Subject taught/teaching at UG level are Pharmaceutical Technology, Pharmaceutical Engineering, Pharmaceutical microbiology and Pharmaceutics VIII and IX, Communication skills, Physical Pharmaceutics, NDDS. Appointed as Assistant lady student welfare officer by North Maharashtra University for 3 years (2013 to 2016) |
| Personal Details: | Area of Interest: |
| Gender: Female Nationality: Indian Marital Status: Single DOB: 22/01/1987 | Nano and Multiparticulate Drug Delivery System, Quality by Design assisted Optimization of drug delivery system Solubility and bioavailability enhancement study Novel and Conventional drug delivery system |
| Languages Known: | B. Pharm Student Guided (16) |

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| <p>English, Hindi, Marathi, Gujarathi</p> | <p>Pulsatile Drug Delivery System Multi-scale modeling of tumors: non-small cell lung cancer (NSCLC) study Nanosponge & Microsponge: A novel drug delivery system Survey on prescribing pattern of drugs Review on Transdermal Drug Delivery System Review on Suppositories Iron deficiency anemia- A review Pseudomonas Syringae and its role in causing rain and ice nucleation Down Syndrome-A review Aripiprazole <i>In-situ</i> Nasal Gel for Effective Treatment of Mental Disorder Nasal Drug Delivery system A Review on Mouth Dissolving Film Hydrogel: Novel Drug Delivery System: A Review Homemade remedy: A Pharmacy in your Kitchen. Formulation & Characterization of Fast Dissolving Film of Nelfinavir Antiretroviral <i>In-situ</i> Nasal Gel for Effective HIV Treatment</p> |
| <p>Skill Sets:</p> | <p>M. Pharm Student Guided (01) as co-guide</p> |
| <p>Administrative, Academic, Research and Development of Novel Dosage Forms</p> | <p>Formulation and Characterization of Polymeric Micelles for Solubility Enhancement of Poorly Soluble Drug, Ms. Pooja R. Wankhede (2015-16)</p> |
| <p>Computer Skills:</p> | <p>M. Pharm Student Guidance (02) Ongoing as Guide</p> |
| <ul style="list-style-type: none"> ▪ Completed Computer course from CDAC. ▪ Proficient in Microsoft word, Excel, Power Point, Internet operations. ▪ Also proficient in handling PCP disso, Optimization software, Design Expert, Endnote, Mendeley, Kinetica, etc. | <p>Formulation, Optimization and <i>In vitro</i> evaluation of Polymeric Micelles, Ms. Chetana Patil</p> |
| | <p>Formulation, Optimization and <i>In vitro</i> evaluation of thermo responsive nasal <i>in situ</i> gel, Ms. Yogini Vispute</p> |
| | <p>Industrial Training:</p> |
| | <p>Completed 1 month training at Lupin Pvt. Ltd., Aurangabad Completed 6 month M.pharm project training at M. J. Biopharm Pvt. Ltd., Navi Mumbai.</p> |
| | <p>Administrative:</p> <ul style="list-style-type: none"> ▪ Research & Development Cell In-charge: ▪ Prevention of sexual harassment committee In-charge: ▪ Women cell In-charge: ▪ Member of NAAC Criteria 3: Research, Innovation and Extension |
| <p>Books Chapters:</p> | |

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| | <ol style="list-style-type: none"> 1. Payal H. Patil, Chandrakantsing V. Pardeshi, Hitendra S. Mahajan, Hemicellulose-based delivery systems: Focus on Pharmaceutical and Biomedical Applications 2. Hitendra S. Mahajan, Payal H. Patil, Chapter no. 12 Gel-based delivery of neurotherapeutics via naso-brain pathways, Book : Direct Nose to Brain Direct Nose to Brain Drug Delivery, Editor: Dr. C. V. Pardeshi |
| | Manuscript Communicated |
| | <ol style="list-style-type: none"> 1. Cissus quadrangularis Linn: A Comprehensive Multidisciplinary Review, Acta Pharmaceutica Sinica B 2. A Detailed Review on HIV/AIDS, Pharmatimes |
| Instrument handling: | Publication National/International: (23) |
| <ul style="list-style-type: none"> ▪ Differential Scanning Colorimeter ▪ Fourier Transform Infrared Spectrophotometer ▪ Disintegration Test and Dissolution Apparatus ▪ Lyophilizer ▪ High Speed and High Pressure Homogenizer ▪ Spray Dryer ▪ Probe Sonicator ▪ Zetasizer ▪ Extruder – Spheronizer ▪ Tablet Punching Machine ▪ Cooling centrifuge ▪ Rotary Vacuum Evaporator ▪ High Pressure Liquid Chromatography ▪ UV Spectrophotometer | <ol style="list-style-type: none"> 1. Patil P. H., Bafna P. S., Pawara R. B., Mutha R. E., Traditional Knowledge of Medicinal Plants in Tribes of Khandesh: Need of Time to Preserve for Prosperity of Mankind, International Journal of PharmaO2, 2(4), 2020, 237-241. 2. Mahajan H. S., Patil P. H., Central Composite Design-Based Optimization of Lopinavir Vitamin E-TPGS Micelle: In Vitro Characterization and In Vivo Pharmacokinetic Study, Volume 194, 2020, 111149. DOI: https://doi.org/10.1016/j.colsurfb.2020.111149 (Impact factor 4.389) 3. Patil P. H., Mahajan H. S., Mixed micelles for bioavailability enhancement of nelfinavir mesylate: In vitro characterisation and In vivo pharmacokinetic study, Material technology, 33(12), 2018, 793–802. DOI: 10.1080/10667857.2018.1511317 (Impact factor 1.820) 4. Patil P. H., Wankhede P. R., Mahajan H. S., Zawar L. R., Aripiprazole-Loaded Polymeric Micelles: Fabrication, Optimization and Evaluation using Response Surface Method. Recent Patents on Drug Delivery & Formulation, 2018(12), 2018, 53-64. 5. Patil P. H., Mutha R. E., Mahale S. S., Prescribing Pattern in Paediatric Hospital of Rural Region in Northern Maharashtra, Inveni Rapid - Pharmacy Practice, 2018 (1), 2018, 1-3. 6. Patil P. H., Patil M., Patil D. D., Development and Validation of RP-HPLC Method for Simultaneous Estimation of Piracetam and Vinpocetine, Asian Journal of Pharmaceutical Analysis, 8 (2), 2018, 103-108. 7. Mutha R. E., Patil P. H., Patil R. N., Pande V. V., Formulation and Evaluation of Deferasirox Orodisperse Tablet by Direct Compression |

Method, *Inventi Rapid: Pharm Tech*, 2015(1), 2015, 1-6.

8. **Patil P. H.**, Solanki R. S., Varude R. R., Mutha R.E., Reproductive health problems of women in rural Dhule: Observations from a community survey, *Journal of Pharmacy and Phytotherapeutics*, 2(2), 2014, 8-9.
9. **Patil P.H.**, Belgamwar V.S., Patel D.A., Surana S.J., Formulation and in-vitro evaluation of zolmitriptan in situ gel for nasal administration, *Indian Drugs*, 50(12), 2013, 54-58.
10. **Patil P.H.**, Belgamwar V.S., Patil P.R., Surana S.J., Enhancement of solubility and dissolution rate of poorly water soluble raloxifene using microwave induced fusion method, *Brazilian Journal of Pharmaceutical Sciences*, 49 (3), 2013, 571-578. (Impact factor 0.373)
11. **Patil P.H.**, Pande V.V., Mutha R.E., Marathe G.M., Bari S.B., Quantitative Determination of Deferasirox in Bulk and Pharmaceutical Formulation by UV Spectrophotometric Method, *Indian Drugs*, 50(2), 2013, 27-32.
12. **Patil P.H.**, Belgamwar V.S., Patil P.R., Surana S.J., Solubility Enhancement of Raloxifene Using Inclusion Complexes and Co-Grinding Method, *Journal of Pharmaceutics (Hindawi publishing house)*, 2013, 1-9. DOI: <http://dx.doi.org/10.1155/2013/527380>
13. **Patil P.H.**, Mutha R.E., Dhumal D.M., Shirkhedkar A.A., Bari S.B., Quantitative Determination of Raloxifene Hydrochloride in Bulk and Tablet Formulation by UV Spectrophotometry and First Order Derivative Using Area Under Curve Method, *Indian Drugs*, 49 (9), 2012, 40-43.
14. **Patil P.H.**, Patil P.R., Jadhav R. T., Formulation and evaluation of Semisolid preparation (Ointment, Gel & Cream) of Thiocolchicoside, *Journal of Pharmaceutical & Biomedical Science*, 8 (1), 2011, 1-6.
15. **Patil P.H.**, Patil P.R., Jadhav R.T., Formulation and evaluation of bilayered tablet of piracetam and vinpocetine, *Journal of Chemical and Pharmaceutical Research*, 3(3), 2011, 423-431.

Conference and Seminar Organized: (02)

1. Worked as co-coordinator to organize five Days ATAL sponsored e-FDP on "Personal Effectiveness" on 21st-25th Sept 2020 at SES's, H. R. Patel Institute of Pharmaceutical Education & Research, Shirpur.
2. Worked as coordinator to organize One Day State Level Seminar on "Entrepreneurship Development Program on How to start Business, Finance and Project Reports" on 12th March 2019 at SES's, H. R. Patel Institute of Pharmaceutical Education & Research, Shirpur.

Conference and Seminar Attended: (34)

1. Participated at District, University level and State level research competition “AVISHKAR 2019” on 30th December 2018, 7-8th January 2020 and 28-31st January 2020 respectively.
2. Attended and presented poster at one day national level conference on “Global perspective towards green pharmacy and modern era of phyto-pharmaceuticals” on 18th Jan 2020 held at Smriti College of Pharmaceutical Education, Indore.
3. Worked as Local organizing committee member for One Day “National Level Symposium on Herbal Medicine” on 29th Feb 2020 at SES’s, H. R. Patel Institute of Pharmaceutical Education & Research, Shirpur.
4. Worked as Local organizing committee member for One Day University Level Workshop on “Fundamentals of Intellectual Property Rights, Patent: Present Perspectives” on 16th March 2019 at SES’s, H. R. Patel Institute of Pharmaceutical Education & Research, Shirpur.
5. Worked as Local organizing committee member for One Day University Level Workshop on “One day workshop on stress management for non-teaching staffs in KBC NMU affiliated colleges” on 12th March 2019 at SES’s, H. R. Patel Institute of Pharmaceutical Education & Research, Shirpur.
6. Attended intercollegiate youth festival “YUVARANG 2018-19” on 04th February 2019 as TEAM MANAGER held at SSBT’s NMIMS, College of Engineering and Technology, Shirpur.
7. Attended and won at District, University level and participated in State level research competition “AVISHKAR 2018” on 26th December 2018, 2-3rd January 2018 and 15-18th January 2019 respectively.
8. Qualified Level I and selected for “Best Innovation Awards” Level II organized by GHR Labs and Research Centre, Jalgaon for presentation (poster as well as oral) on 10th March 2018 at GHR Labs & Research Centre.
9. Won at BEST GUIDE for National Level Asoj Pharmavention Award-2018 on 21st September 2018 at SES’s, H. R. Patel Institute of Pharmaceutical Education & Research, Shirpur.
10. Worked as Local organizing committee member for one day national level workshop on “Self-Defense: A Basic Need for Women of All Ages” on 21st September 2018 at SES’s, H. R. Patel Institute of Pharmaceutical Education & Research, Shirpur.
11. Worked as Local organizing committee member for one day national level seminar on “ICMPR-III” on 10th March 2018 at SES’s, H. R. Patel

Institute of Pharmaceutical Education & Research, Shirpur.

12. Attended NMU sponsored national level conference on “Recent Advances in Chromatography and hyphenated Techniques” on 10th February 2018 held at DCS’s, A. R. A. College of Pharmacy, Dhule.
13. Worked as Local organizing committee member for DST sponsored five days “INSPIRE INTERNSHIP CAMP” from 2nd-6th January 2018 at SES’s, H. R. Patel Institute of Pharmaceutical Education & Research, Shirpur.
14. Attended and won at District, University level and participated in State level research competition “AVISHKAR 2017” on 21st December 2017, 29-30th December 2017 and 15th-17th January 2017 respectively.
15. Worked as Local organizing committee member for one day MSBTE organized State level quiz competition 2016-17 conducted by H. R. Patel Institute of Pharmacy, Shirpur on 04th February 2017.
16. Attended and presented paper at International conference on “Artificial Intelligence in Healthcare” from 27th-28th December 2016 organized by SVKM’s NMIMS, School of Pharmacy and Technology Management, Shirpur.
17. Attended District level research competition “AVISHKAR 2016” on 03rd January 2017 organized by Vidyavardhini Sabha’s Arts, Commerce and Science College, Dhule.
18. Attended one day national level seminar on “Current Perspective in Pharmaceutical Field” on 8th October 2016 held at SES’s, R. C. Patel Institute of Pharmaceutical Education & Research, Shirpur.
19. Attended NMU sponsored national level seminar on “Recent Advances in Novel Drug Carrier System” on 5th October 2016 held at P. S. G. V. P. Mandal’s college of Pharmacy, Shahada.
20. Worked as Local organizing committee member for DST sponsored five days “INSPIRE INTERNSHIP CAMP” twice from 15th-19th February 2016 and 27th September-1st October 2016 at SES’s, H. R. Patel Institute of Pharmaceutical Education & Research, Shirpur.
21. Worked as Local organizing committee member for one day state level seminar on “Intellectual Property Rights, Patents: Present Need and Opportunities” on 23rd January 2016 at SES’s, H. R. Patel Institute of Pharmaceutical Education & Research, Shirpur.
22. Attended one day “Material Characterization Technique” on 08th January 2016 held at School of Physical Sciences, NMU, Jalgaon.
23. Attended five days intercollegiate youth festival “YUVARANG 2015” from 07th-10th January 2016 as TEAM MANAGER held at SSBT’s

NMIMS, College of Engineering and Technology, Shirpur.

24. Attended and won at District, University level and participated in State level research competition “AVISHKAR 2015” on 22nd November 2015, 22-23th December 2016 and 10-12th January 2016 respectively.
25. Attended NMU, Jalgaon sponsored one day workshop on “On Screen Evaluation” on 10th October 2015 held at RCPIT, Shirpur.
26. Attended AICTE sponsored two day national seminar on “Emerging Trends and Job Opportunity in Pharmaceutical Field” on 23th-24th December 2013 held at Department of Pharmacy, Government Polytechnic, Jalgaon.
27. Worked as Local organizing committee member for Brookfield sponsored one day national seminar on “Recent Trends in Pharmaceutical Research: Emphasis on Viscosity and Texture Characterization” on 15th March 2013 at SES’s, H. R. Patel Institute of Pharmaceutical Education & Research, Shirpur.
28. Attended AUPPC sponsored national seminar on “Recent Advances in Polymer Science” on 24th-25th February 2012 held at P. S. G. V. P. Mandal’s college of Pharmacy, Shahada.
29. Attended AYUSH sponsored national seminar on “Current Trends and Recent Advancements on Herbal Formulation” on 21st-22nd February 2012 held at SES’s, R. C. Patel Institute of Pharmaceutical Education & Research, Shirpur.
30. Attended one day National conference on “Trends in Chromatography and Spectroscopic Techniques” on 6th October 2012 at R. C. Patel Institute of Pharmaceutical Education and Research, Shirpur.
31. Attended AICTE Sponsored Two Days National Seminar on “Role of Communication Skill in Pharmacy” organized on 21st-22nd March 2011 at R. C. Patel Institute of Pharmaceutical Education & Research, Shirpur.
32. Attended & won 3rd Prize in Poster presentation at University of Pune sponsored three days National level conference on 4th-6th March 2011 at ‘Advances and trends in Drug Development Process’ held at MAEER’S, Maharashtra Institute of Pharmacy, Pune.
33. Attended all India Convention and presented poster on “Good Pharmacy Practice Ideal Prescription for Growth of Community Pharmacy in India” organized on 3rd and 4th February 2006 by The Indian Pharmaceutical Association at Pune.
34. Attended seminar organized by I.P.E.R, Pune on “Scope and Potential after Pharmacy” on 22nd October 2005 at H. R. Patel Women’s College of Pharmacy, Shirpur.

Faculty Development Programme Attended : (09)

1. Completed one week e-faculty development program on “Comprehensive Quality Initiatives for Higher Education in Pandemic Era” from 26th Jan-30th May 2020 conducted by Internal Quality Assurance Cell of Uka Tarsadia University (UTU), Bardoli, Gujarat.
2. Completed one week e-faculty development program on “Teachers and Ethics: Balance in Research, Teaching, Socio-professional Values and Attitude” from 20th Jan-25th May 2020 conducted by GES’s, Sir Dr. M. S. Gosavi College of Pharmaceutical Education & Research, Nashik.
3. Completed eight week faculty development program on “Transforming Teaching Learning Process through Modern Pedagogical Techniques” from 10th Jan-8th March 2020 conducted by Government Polytechnic College, Jalgaon.
4. Completed eight week faculty development program on “Online Course on Creating Open Source Cloud based Gnomio MOODLE of your Own Subject for OBE” from 11th July-25th Aug 2019 conducted by D. Y. Patil College of Engineering, Akurdi, Pune.
5. Completed two week faculty development program on “Pedagogy for Online and Blended Teaching Learning Process (FDP201x)” from 03rd May-30th May 2018 conducted by IIT, Bombay.
6. Completed two week faculty development program on “Foundation Program in ICT for Education (FDP101x)” from 03rd August-07th September 2017 conducted by IIT, Bombay.
7. Completed two weeks faculty development program on “Global Business Foundation Skills” from 20th June-28th June 2017 held at Infosys BPO, Pune.
8. Completed one week faculty development program on “Recent Advances in Pharmaceutical Sciences” from 11th April-15th April 2016 held at SVKM’s NMIMS, School of Pharmacy and Technology Management, Shirpur.
9. Completed one week faculty development program on “Recent Advancements on Herbal Formulation and Drug Delivery System of Indian System of Medicine” from 27th May - 8th June 2013 held at SES’s, R. C. Patel Institute of Pharmaceutical Education & Research, Shirpur.

Academic Details:

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| | <p>❖ Ph. D – 2020 Research Centre: R. C. Patel Institute of Pharmaceutical Education and Research, Karwand Naka, Shirpur, Dhule, MS-425405 University: Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon, MS</p> <p>❖ M. Pharm (Pharmaceutics) - 2011 (76.69 %, First Class with Distinction) College: R. C. Patel Institute of Pharmaceutical Education and Research, Karwand Naka, Shirpur, Dhule, MS-425405 University: North Maharashtra University, Jalgaon, MS</p> <p>❖ B. Pharm - 2009 (71.57%, First Class with Distinction) College: H. R. Patel Institute of Pharmaceutical Education and Research, Karwand Naka, Shirpur, Dhule, MS-425405 University: North Maharashtra University, Jalgaon, MS</p> |
| References: | Ph. D: Awarded in September 2020 |
| <p>Dr. Sanjay J. Surana M. Pharm. Ph.D. DBM Professor & Principal, R. C. Patel Institute of Pharmaceutical Education and Research, Karwand Naka, Shirpur, Dhule, MS-425405 Mobile: 09423980900</p> | <p>❖ Title: Formulation and Characterization of Polymeric Micelles as Drug Delivery System for Antiretroviral Drug Guide: Dr. H. S. Mahajan, Professor and Head, Department of Pharmaceutics and Pharmaceutical Technology, R. C. Patel Institute of Pharmaceutical Education Research, Shirpur, Maharashtra</p> <p>❖ Registration No. : NMU/11/Ph.D./Pharm./4/2013</p> |
| <p>Dr. Sanjay B. Bari M. Pharm, Ph.D. Professor & Principal, H. R. Patel Institute of Pharmaceutical Education Research, Karwand Naka, Shirpur, Dhule, MS-425405 Email-sbbari@rediffmail.com Mobile-09423918023</p> | <p>M. Pharm Dissertation:</p> <p>❖ Title: Formulation and Evaluation of Bilayered Tablet of Piracetam and Vinpocetine Guide: Dr. Mrs. V. S. Belgamwar, Associate Professor and Head, Department of Pharmaceutics, R. C. Patel Institute of Pharmaceutical Education Research, Shirpur, Maharashtra</p> <p>Additional Qualification/ Achievements</p> <p>❖ Qualified GATE-2009 with 94.34 percentile score (All India Rank:1351)</p> <p>❖ Completed Certificate course of WIPO COURSE DL-101 General course on Intellectual property rights.</p> <p>❖ Won 1st prize at university level magazine competition for English section story title “Why women are strong but cry easily”.</p> |

Declaration: The information given above is correct as per my knowledge and belief.

Date: 28/10/2020

Dr. Payal H. Patil