

Dr. PRAVIN ONKAR PATIL

M. Pharm., PhD (Pharmaceutical Chemistry)

Objective: To pursue a career in academic and research with a progressive organization and work in a challenging and dynamic environment to contribute to the development of the organization which I represent and serve with ample efforts by continuously upgrading the best of my skills and knowledge for the mutual prospect of growth and development.

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Present and Permanent Address:

Dr. Pravin Onkar Patil
59-B Pitreshwar colony, near
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Dhule-425 405 (M.S.).

Personal Details:

Gender: Male
Nationality: Indian
Marital Status: Married
DOB: 06/06/80

PRESENT STATUS AND EXPERIENCE :

- Professor and P G Teacher in Pharmaceutical Chemistry (North Maharashtra University, Jalgaon) at H. R. Patel Institute of Pharmaceutical Education and Research, Karwand Naka, Shirpur. Dist- Dhule 425405 Maharashtra, **since September 2005.**
- Head, Department of Pharmaceutical Chemistry and Academic Incharge, HRPIPER, Shirpur.
- Presently guiding **05 students for PhD.**
- Guided **40 M. Pharm** students and presently guiding **04** students for major dissertations.
- Supervised 10 B. Pharm projects.
- Total teaching/research experience of **17 years.**

APPROVALS:

- **Professor from 01/01/2022**
- University approval as an Associate Professor
- Letter No. NMU/18/294/2017 (10/04/2017); w.e.f. **31/12/2016.**
- **University approval** as an Assistant Professor (Lecturer)
- Letter No. NMU/18/245/2007; for the period 6 months, **w.e.f. 01/08/2006.**
- Letter No. NMU/ 18/678/2007; for the period 3 months.
- Letter No. NMU/ 18/866/2007; till date.
- **P. G. Teacher Recognition** in the subject Pharmaceutical Chemistry of North Maharashtra University, Jalgaon from **10.11.2011, Letter No NMU/11/PGR/Pharm/4081/2011.**
- **PhD guide approval subject** PHARMACY under faculty of Science and Technology vide letter No. NMU/11/PhD/581/2018 dated 31/01/2018.

Languages Known:
English, Hindi, Marathi

Promotions till date:
Lecturer-Assistant Professor-
Associate Professor

Skill Sets
Administrative and Academic

RESOURCE PERSON:

- Delivered invited talk on The rise of graphene expectations: Proactive practices in emergent nanotechnologies for biosensing and environmental remediation applications, at AICTE Sponsored STTP “Hands on training on cell and tissue culture based bioactivity assessment, At BVCOP, Kolhapur Maharashtra, Dated 01/09/2021.
- Delivered invited talk on Graphene nanomaterials in biosensing and environmental remediation applications: opportunities, challenges and societal relevance, at AICTE Sponsored STTP “Advances in Pharmaceutical Research: A Journey from Academics to Industry”, At Government College of Pharmacy, Aurangabad, Maharashtra, Dated 14/06/2021.
- Delivered invited talk on Graphene nanomaterials in biosensing and environmental remediation applications: opportunities, challenges and societal relevance, at KBCNMU Sponsored One Day State level Seminar on “Recent Trends In Nanomaterials (RTIN-2019), Shirpur Maharashtra, Dated 26/01/2019.
- Delivered invited talk on Teaching Learning Processes of NBA, at One day state level workshop on NBA Process for Pharmaceutical Educational Institute, Chandrapur, Maharashtra, Dated 30/12/2017.
- Delivered invited talk on Graphene in biosensing and Environmental applications: Opportunities, Challenges and Societal Relevance, at One week state level short term training programme in collaboration with UGC-HRDC, Savitribai Phule Pune University, Pune on, “Advances in Nanoscience and Nanotechnology, Taloda, Maharashtra, Dated 22/12/2017.
- Delivered invited talk on “Importance of Microwaves in Pharmacy/Organic Synthesis” at AICTE Sponsored Faculty Development Programme on RF& Microwave Communication Fundamentals, Design & Application, Institute of Tecchnolgy,

Shirpur, Maharashtra, Dated 12/05/2015.

- Delivered invited talk on ‘Medicinal Chemistry Perspectives of Drugs acting on CNS’ K. Y. D. S. C. T’s College of Pharmacy, Sakegaon, Maharashtra, on dated 22-08-2016.
- Delivered invited talk on ‘Medicinal Chemistry of Drugs Acting on CNS’ at N. M. Padalia College of pharmacy, Ahmadabad, Gujarat on dated 19-08-2012.

Ph. D:

Ph. D. – 6th January 2014.

Thesis title: Microwave assisted synthesis of some heterocyclic derivatives from chalcones and evaluation for antidepressant and anticonvulsant activities.

AWARD:

- **Received Best Teacher award** 2019-20, by Kavayitri Bahinabai Chaudhari North Maharashtra University, (KBCNMU), Jalgaon.
- **Received Research Excellence Award- Funding** (for College Teachers) 2018-19 (for Faculty of Science & Technology), by Kavayitri Bahinabai Chaudhari North Maharashtra University, (KBCNMU), Jalgaon.
- **The SERB-Early Career Research (ECR) Award** 2018, By SERB (DST), Govt. of India.
- Received the best research guide award in National level **“PharmInnova Award” (2014-2015)** for a thesis entitled “Green synthesis of graphene based biosensor for diagnostic applications (Detection of cancer and urinary hCG)” by **Rajnibhai V. Patel Trust under the Patronage of Department of Science & Technology (DST), Govt. of India.**
- Received the **“Outstanding Reviewer Award from Elsevier, Netherlands”**, from the editors of Bioorganic and Medicinal Chemistry, Elsevier, Netherlands, 2018.
- Received **Best Research Guide Award** (2018), at National level ASOJ PHARMVENTION AWARD, HRPIPRER, Shirpur,

Maharashtra.

- Received **Best Teacher Award** by Shirpur Education Society, Shirpur, 5th September 2018.
- Received **Best Teacher Award** by Shirpur Education Society, Shirpur, October 2019.

RESEARCH GRANTS: Total 1.25 crore as a Principal Investigator

- **Received Grants Rupees 32.88 lakhs from SERB (DST) (Proposal Ref. No: ECR/2017/000905)** “Functionalized fluorescent graphene quantum dot based sensor for early detection of lung cancer and bioimaging(DOS: 06/07/2018)”
- **Received Grants Rupees 29.41 lakhs from ICMR(Proposal Ref. No.5/4-5/159/Neuro/2016-NCD-1)**“Fabrication of surface decorated graphene oxide nanocomposites for label free prognosis of Alzheimer's disease(DOS: 01/10/2018)”
- **Received Grants of Rupees 12 Lakhs from AICTE (Ref. No. 8023/ RID/RPS-41PVT/2011-2012)** Under Research Promotion Scheme (**RPS**) for the project entitled microwave assisted synthesis of some heterocyclic derivatives from chalcones and evaluation for anticonvulsant and antidepressant activities.
- **Received Grants of 1 Lakh from NMU, Jalgaon (VCRMS, NMU/HA/VCRMS/Budget-2016-17/Pharmacy-10/84/2017) Proposal entitled** “ Green synthesis of Heteroatom-doped graphene TiO₂ binary nanocomposites for degradation of dyes and mitigation of hexavalent chromium in water”
- **Principal Investigator, Under Research Promotion Scheme (RPS)** for Fabrication of graphene quantum dot encapsulating core shell metal organic framework for the early detection of Alzheimer's disease. Amount 2500000 (\$32800 approx), Status: Evaluated and qualified.
- **Mentor, for two different research projects by ICMR for Research Associate (RA) fellowship** for two years (April 2022- April 2024). Status: Approved, Amount 2500000 (\$32800 approx).

AREA OF INTREST:

- Green synthesis of graphene based material for biosensing and environmental remediation applications.
- Lateral flow immunoassay for Nanobiosensors.
- Design, synthesis and characterization of NCEs for cancer and neurodegenerative disorders.
- Microwave assisted organic synthesis of heterocycles and evaluating their pharmacological potentialities.
- Analytical method development and stability indicating method development.

BOOKS/BOOK CHAPTERS:

1. **Book Chapter:** Contributed a Chapter entitled “**Antibody-mediated diagnosis of biomolecules**” in “**Nanobiosensors for Biomolecular Targeting**” (Elsevier Publishers, Date of publication: 18 Oct 2018).
2. **Book Chapter:** Contributed a Chapter entitled “**Magnetomicelles: Theronostic Applications**’ in “**Encyclopedia of Biomedical Polymers and Polymeric Biometerials**”(Taylor & Franceis, CRC Group Publishers, Date of publication: 2nd April 2015).
3. **Book Chapter:** Contributed a Chapter entitled “**Herbal Formulations for Treatment of Dental Diseases: Perspectives, Potential, and Applications**” in “**Engineering Interventions in Foods and Plants**” (Apple Academic Press, Taylor & Franceis, CRC Group Publishers, Date of publication: 30 August, 2017).
4. **Book Chapter:** Contributed a Chapter entitled “**Vesicular carriers for direct nose-to-brain drug delivery**” in “**Direct Nose-to-Brain Drug Delivery**”, (Academic Press Publishers, Elsevier, Date of publication: 25 June, 2021).
5. **Book Chapter:** Contributed a Chapter entitled “**Arhcitected Polymeric Nanoplatforms Targeted Treatment of prostate cancer**” [Springer, Date of publication: Awaited (Probable March 2022)].
6. **Book Chapter:** Contributed a Chapter entitled “**Polymer Based Nanoplatform for Breast Cancer Targeting**” [Springer, Date of publication: Awaited (Probable March 2022)].

7. Book Chapter: Contributed a Chapter entitled “Passive and active targeting approaches for solid tumors: Progress till date and associated challenges” [Springer, Date of publication: Awaited (Probable March 2022)].

8. Book Chapter: Contributed a Chapter entitled “Pharmacokinetics and Pharmacodynamics of Nanoparticulate Drug Delivery Systems ” [Springer, Date of publication: Awaited (Probable March 2022)].

PUBLICATION NATIONAL/INTERNATIONAL:

1. Novel system for decarboxylative bromination of α , β - unsaturated carboxylic acids with diacetoxyiodobenzene, **P. O. Patil**, R. A. Fursule S. B. Kosalge, B.D.Shewale, P. K. Deshmukh, D. A. Patil, *Chem. Pharm. Bull.*, **2009**, *57*(11), **1243-1245**.(Impact Factor = **1.56**).
2. Synthesis of 2,3-disubstituted-quinazolin-4(3*H*)-ones , D. A. Patil, **P. O. Patil**, G. B. Patil, S. J. Surana, *Mini-Reviews in Medicinal Chemistry*, **2011**, *11*, **633-641**.(Impact Factor = **2.86**).
3. Microwave assisted synthesis and antidepressant activity of some 1, 3,5-triphenyl 2-pyrazolines,**P.O.Patil**, D. P. Belsare, S. B. Kosalge, R. A. Fursule *International Journal of Chemical Sciences*, **2008**, *6*(2),**717-725**.
4. Synthesis of 2,3-disubstituted-quinazolin-4(3*H*)-ones , D. A. Patil, **P. O. Patil**, P. K. Deshmukh, G. B. Patil, B. D. Shewale, D. D. Patil, S. G. Gattani, *A review, Research Journal of Pharmacy and Technology* , **2010**, *3* (4),**979-1003**.
5. Development of novel, alternative, facile, ecofriendly, high yield synthetic process for prazocin, D. A. Patil, **P. O. Patil**, K. S. Jain, M. N. Deodhar G. B. Patil, D. D. Patil, *Journal of Basic and Clinical Pharmacy*, **2010**, *1* (4), **223-230**.
6. Study of multiparticulate floating drug delivery system prepared by emulsion gelation method, R. A. Fursule, Ch.Patra, J. R. Amrutkar, R. L. Bakal, **P. O. Patil** and P. K. Deshmukh *Asian Journal of Pharmaceutical and Clinical Research*, **2008**, *1*(3), **2008**, **60-64**.

Portfolio Head till Date:

Academic Incharge, NBA Incharge, PCI Incharge, LIC, Worked as Competitive Exam Incharge, Examination Incharge, Guest Lecture & Seminar Incharge, Store Incharge, Tour Incharge, Incharge of Teaching Learning portfolio of NBA

Instrument handling:

SPR spectrophotometer, Fluorescence spectrometer, Microwave Synthesizer (CEM corporation, USA), FTIR, GC,

Rotary Vacuum Evaporator,
HPLC, UV etc.

Good computational skill

Examiner for PhD, M.Pharm
& B. Pharm at various
Universities

7. Effect of hydroxypropyl- β -cyclodextrin on solubility and stability of telmisartan, **P.O. Patil**, B. D. Shewale, P. K. Deshmukh and Fursule R. A. *International Journal of Chemical Sciences*, 2008, 6(3), 1449-1454.
8. Rising drug prices- weeping masses, S. B. Kosalge, B. D. Shewale. **P. O. Patil**, P. K. Deshmukh, D. A. Patil, R. A. Fursule, *International Journal of Community Pharmacy*, 2009, 1(3), 8- 16.
9. Adverse drug reporting: Role of health care professionals, B. D. Shewale, **P.O. Patil**, S. S. Agrawal, S. B. Kosalge, R. A. Fursule, N. P. Sapkal, *Journal of Pharmacy Research*, 2009, 2 (3), 327-330.
10. Study of multiparticulate floating drug delivery system prepared by emulsion gelation technique, R. A. Fursule, Ch. N. Patra, G. B. Patil, S. B. Kosalge, **P. O. Patil** and P. K. Deshmukh, *International Journal of ChemTech Research*, 2009, 1 (2), 162-167.
11. Quality education in pharmacy: Need of 21st century, B.D. Shewale, **P.O. Patil**, S.B. Kosalge, R.A. Fursule, N.P. Sapkal. *Research Journal of Pharmacy & Technology*, 2009, 2(4), 648-652.
12. Geochemical studies of fluoride and other water quality parameters of ground water of Dhule region (Maharashtra) India, D. A. Patil, P. K. Deshmukh, R.A. Fursule, **P. O. Patil**, *J. Natural Sci., Biology and Medicine*, 2010, 1(1), 9-11.
13. Irrational reuse of prescriptions, D. A. Patil, S. B. Kosalge, R. A. Fursule, P. K. Deshmukh, **P. O. Patil**, G. B. Patil, *International J. of Pharmagenesis*, 2010, 1(2), 183-187.
14. Quantitative estimation of moexipril hydrochloride in bulk and tablet formulation by UV spectrophotometry and first order derivative using area under curve method, Ramchandra Pandey, **P. O. Patil**, S. B. Bari, D. M. Dhumal, *Asian Journal of Biochemical and Pharmaceutical Research*, 2012, 1(1), 343-347.
15. Validated RP- HPLC method for simultaneous estimation of thiocolchicoside and etodolac in bulk drug and in pharmaceutical dosage form, Ramchandra Pandey, **P. O. Patil**, S. B. Bari, *Asian Journal of Biochemical and Pharmaceutical*

Research, 2012, 1(1),381-390.

16. Quantitative estimation of diacerein in bulk and in capsule formulation using hydrotropic solubilizing agents by UV-spectrophotometry and first order derivative using area under curve method, Ramchandra Pandey, **P. O. Patil**, M. U. Patil, P. K. Deshmukh, S. B. Bari, *Pharmaceutical Methods, 2012, 1(3), 4-8.*
17. Effect of time, temperature and UV radiation on migration of plasticizers and anti-oxidant from pack component to product analyzed by gas chromatography, Mihirkumar G. Patel, **P. O. Patil**, S. B. Bari, *Analytical Chemistry: An Indian Journal, 2012, 9(10), 322-328.*
18. Synthesis and antidepressant activity of some new 5-(1H-Indol-3-yl)-3-(substituted aryl)-4, 5-dihydroisoxazoline derivatives, **P. O. Patil**, S. B. Bari, *Journal of Chemistry, 2012, 2013, 1-7.(Impact Factor = 0.516).*
19. Validated RP- HPLC method for simultaneous estimation metformin hydrochloride and benfotiamine in Bulk drug and in pharmaceutical dosage form, Mihirkumar G. Patel, **P. O. Patil**, S. B. Bari, *International Journal of Analytical and Bioanalytical chemistry,2012, 2(3), 196-200.*
20. Development and validation of UV spectrophotometric estimation of tapentadol hydrochloride bulk drug and pharmaceutical formulation, G. B. Patil, S. J. Surana, P. K. Deshmukh, **P. O. Patil**, G. M. Marathe, *Analytical Chemistry: An Indian Journal,2012, 12(3), 98-102.*
21. A Novel approach to Claisen Schmidt reaction - H₂SO₄ catalyzed microwave assisted synthesis of nitrochalcones, **P.O. Patil**, S. B. Bari, *Organic Chemistry: An Indian Journal, 2012, 9(2), 65-67.*
22. An efficient method for the synthesis isoxazolines under microwave irradiation and solvent-free conditions, **P. O. Patil**, S. B. Bari, *Asian Journal of Chemistry,2013, 25(7), 3588-3590.(Impact Factor = 0.261).*
23. Stability indicating RP-HPLC method for the determination of tapentadol in bulk and in pharmaceutical dosage form, **Patil, P.O.**, Marathe G. M., Bari, S.B., Patil G. B., Patil, D.A., *International Journal of Chem. Tech. Research,2013, 5(1),*

34-41.

24. A comprehensive review on synthesis and designing aspects of coumarin derivatives as monoamine oxidase inhibitors for Depression and Alzheimer's disease, **Patil, P.O.**, Bari, S.B., Firke, S.D., Deshmukh, P.K., Donda, S.T., Patil, D.A., *Biorganic and Medicinal Chemistry*, 2013, 21, 2434–2450. **(Impact Factor = 2.90).**
25. Marketing of medicinal plants of satpuda hills, Nandurbar, M.S., **P. O. Patil**, P .K. Deshmukh, R. A. Fursule, S. B. Kosalge. *Advances in Plant Sciences*, 2013, 26(I), 173-175.
26. Simultaneous estimation of montelukast sodium and desloratadine in bulk and in tablet formulation by UV-spectrophotometry, **P. O. Patil**, R. R. Jain, S. B. Bari. *Indian Drugs*, 2013, 50(03), 30-35.
27. Simultaneous estimation of esomeprazole and levosulpride in bulk and in capsule formulation by RP-HPLC.**P.O. Patil**,R. R.Jain, S. B. Bari. *Journal of the Chilean Chemical Society*, 2013, 58(3), 1846-1849. **(Impact Factor = 0.376).**
28. Fabrication of Layer-By-Layer Self-Assembled Drug Delivery Platform for Prednisolone, Ganesh B. Patil, Ketan P. Ramani, Abhijeet P. Pandey, Mahesh P. More, Pravin O. Patil, Prashant K. Deshmukh, *Polymer-Plastics Technology and Engineering*, 2013, 52(15), 1637-1644. **(Impact Factor = 1.48).**
29. Simplified sol-gel method for synthesis of mesoporous alumina. Mahesh P. More, Pravin O. Patil, Abhijit P. Pandey, Dilip A. Patil, Prashant K. Deshmukh. *Micro and Nano Letters*, 8(12), 2013, 895-898. **(Impact Factor = 0.845).**
30. Nanoarchitectonics in cancer therapy and imaging diagnosis, Abhijeet P. Pandey, Nayandeep M. Girase, Mahendra D. Patil, Pravin O. Patil, Dilip A. Patil, Prashant K. Deshmukh, *Journal of Nanoscience and Nanotechnology*, 2014, 14, 828-840**(Impact Factor = 1.48).**
31. Graphene oxide based magnetic nanocomposites for efficient treatment of breast cancer. N. S. Chaudhari, A. P. Pandey, P. O. Patil, A. R. Tekade, S. B. Bari, P. K. Deshmukh. *Materials Science and Engineering C*, 2014, 37, 278-285. **(Impact Factor = 2.40).**

32. Simultaneous estimation of etodolac and thiocolchicoside in bulk and formulation by UV spectrophotometer. **P.O. Patil**, R.M Pandey, D.T Dhumal, S.B Bari. *Chemical Industry and Chemical Engineering Quarterly*, 2014, 20 (1) 9–17. (**Impact Factor = 0.533**).
33. Nitrogen Heterocycles as Potential Monoamine Oxidase Inhibitors: Synthetic Aspects. P. O. Patil, S. B. Bari, *Arabian Journal of Chemistry*, 2014, 7, 857-884. (**Impact Factor = 2.6**).
34. Development and Validation of a Reversed-Phase HPLC Method for the Simultaneous Estimation of Dicyclomine hydrochloride and Famotidine in Bulk and Tablets. **P.O. Patil**, S.T Donda, V. B. Baviskar, P. K Deshmukh. S.B Bari. *Journal of the Chilean Chemical Society*, 2014, 59(4),2662-2665. (**Impact Factor = 0.376**).
35. Animal models for Parkinson's disease. D. A. Patil, V. A. Patil, S. B. Bari, S. J. Surana, **P. O. Patil**. *CNS & Neurological Disorders - Drug Targets*, 2014, 13(7), 1580-1594. (**Impact Factor = 2.7**).
36. Microwave assisted development and statistical optimization of porous tablet by vaporization technique, G. B. Patil, A. P. Pandey, V. S. Patil, **P. O. Patil**, S. B. Bari, P. K. Deshmukh. *Journal of Pharmaceutical Sciences and Pharmacology*. 2014, 1(4), 1-10.
37. Recent advancement in discovery and development of natural product combretastatin-inspired anticancer agents. P O. Patil, A. G. Patil, R. A. Rane, P. C. Patil, P. K. Deshmukh, S.B. Bari, D. A. Patil, S. S. Naphade, Rajshekhar Karpoomath. *Anticancer Agents in Medicinal Chemistry*, 2015, 15(8), 955-69. (**Impact Factor = 2.46**).
38. Development and validation of determination for chlorpheniramine maleate, phenylephrine hydrochloride and ibuprofen in bulk and pharmaceutical formulation By RP-HPLC Method, Vishal B. Baviskar, Shailesh Donda T, Patil Shwetal S Patil, Prashant K Deshmukh., Pravin O. Patil. *Indian Drugs*, 2015, 52(11), 35-40.
39. Sonication assisted drug encapsulation in layer-by-layer self-assembled gelatin-poly (styrenesulfonate) polyelectrolyte nanocapsules: process optimization. Abhijeet P. Pandey, Surabh

S. Singh, Ganesh B. Patil, Mahesh P. More, Pravin O. Patil, Chetan J. Bhavsar, Dilip A. Patil, Prashant K. Deshmukh. *Artificial Cells, Nanomedicine and Biotechnology*, 2015, 43(6), 413-24 (**Impact Factor = 2.02**).

40. Nanostuctured lipid carriers as a potential vehicle for carvedilol delivery: A factorial design approach. Ganesh B. Patil, Nandkishor D. Patil, Prashant K. Deshmukh, Pravin O. Patil, Sanjay B. Bari. *Artificial Cells, Nanomedicine and Biotechnology*, 2016, 44(1), 12-29. (**Impact Factor = 2.02**).
41. Synthesis, characterization and screening for antidepressant and anticonvulsant activity of 4, 5-dihydropyrazole bearing indole derivatives. P. O. Patil, S. B. Bari, *Arabian Journal of Chemistry*, 2016, 9(4), 588-595. (**Impact Factor = 3.6**).
42. Facile green synthesis of reduced graphene oxide and fabrication of Layer by Layer self-assembled rGO@Chitosan@rGO@Folic acid nanocomposite for possible biosensing application. Patil PO, Girase NM, Patil A G, Deshmukh PK, Bari S B. *Journal of Bionanoscience*, 2016, 10(2), 150-157.
43. Development and validation of a RP-HPLC method for the simultaneous estimation of tramadol hydrochloride and dicyclomine hydrochloride in bulk and pharmaceutical formulation. S.T Donda, P.O. Patil, V. B. Baviskar, P. K Deshmukh. Darshan S. Deore, Nayandip M. Girsase, Zamir G. Khan. *Journal of the Chilean Chemical Society*, 2016, 61(2), 2852-2855. (**Impact Factor = 0.353**).
44. Validated RP-HPLC method for determination of enzalutamide in bulk drug and pharmaceutical dosage form. Zamir G. Khan, Shwetal S. Patil, Prashant K. Deshmukh, Pravin O. Patil. *Indian Drugs*, 2016, 53(11), 46-50.
45. Validated UV spectroscopic methods for determination of enzalutamide in pure and pharmaceutical dosage. Zamir G. Khan, Shwetal S. Patil, Prashant K. Deshmukh, Pravin O. Patil. *Analytical Chemistry: An Indian Journal*, 2016, 16(15), 1-8.
46. Green fabrication of graphene based silver nanocomposites using agro waste for sensing of heavy metals. Pravin O Patil, Prashant K. Deshmukh, Sanchita S. Mahale, Pravin V. Bhandari, Ashwini G. Patil, Harshada R. Bafna, Kajal V. Patel. *Research on Chemical Intermediates*, 2017, 43(7), 3757-3773

(Impact Factor = 1.369).

47. Optimization of desolvation process for fabrication of lactoferrin nanoparticles using quality by design approach. Pandey, abhijeet; More, Mahesh; Karande, Kiran; Chitalkar, Ramesh; Patil, Pravin; Deshmukh, Prashant. *Artificial Cells, Nanomedicine and Biotechnology*, 2017, 45(6), 1-14. **(Impact Factor = 5.60).**
48. Development of surface engineered mesoporous alumina nanoparticles: drug release. aspects and cytotoxicity assessment. More Mahesh, Ganguly Payal, Abhijeet Pandey, Jain Ratnesh, Patil Pravin, Deshmukh Prashant. *IET Nanobiotechnology*. 2017, 11(6), 661.668. **(Impact Factor = 1.54).**
49. Development of novel thiolated carboxymethyl-gellan gum as potential mucoadhesive polymer: Application of DoE. Mahesh P. More, Manoj S. Bhamare, Chetan J. Bhavsar, Pravin O. Patil and Prashant K. Deshmukh. *Advanced Materials Science*. 2017, 2(3), 1-9.
50. Fabrication and characterization graphene based hybrid nanocomposite: Assessment of antibacterial potential and biomedical application. More, Mahesh; Patil, Mahendra; Pandey, abhijeet; Patil, Pravin; Deshmukh, Prashant. *Artificial Cells, Nanomedicine and Biotechnology*. 2017, 45(8), 1496-1508. **(Impact Factor = 5.60).**
51. Fabrication and characterization of shape memory polymers based bioabsorbable biomedical drug eluting stent. Vrutika Sonawane, More Mahesh; Karande Kiran; Chitalkar Ramesh; Patil Pravin; Deshmukh Prashant. *Artificial Cells, Nanomedicine and Biotechnology*. 2017, 45(8), 1740-1750. **(Impact Factor = 5.60).**
52. Green synthesis of graphene based silver nanocomposite for enhanced antibacterial activity against dental pathogens. Ashwini G. Patil, Harshada R. Bafna, Mahesh P. More, Prashant K. Deshmukh, Pravin O. Patil. *JSM Nanotechnology and Nanomedicine*. 2017, 5(3), 1058.
53. Facile green synthesis of graphene metal nanocomposites and their promising applications. Ashwini G. Patil, Pravin O. Patil, Mahesh P. More, Prashant K. Deshmukh, Sanchita S. Mahale, Pravin V. Bhandari, *Journal of Pharmaceutical and Biological*

54. Design and Development of Thiolated Graphene Oxide Nanosheets for Brain Tumor Targeting. Mahesh P. More, Ajinkya Nikam, Pravin O. Patil, Ashwini G. Patil, Prashant K. Deshmukh. *International Journal of Polymeric Materials and Polymeric Biomaterials*, 69(10), 611-621. (Impact Factor =2.12)
55. Controlled synthesis of blue luminescent graphene Quantum Dots from carbonized citric acid: assessment of methodology, stability, and fluorescence in an aqueous environment. Mahesh P. More, Pravinkumar H. Lohar, Ashwini G. Patil, Pravin O. Patil, Prashant K. Deshmukh. *Materials Chemistry and Physics*, 2018, 220, 11-22 (Impact Factor: 2.21).
56. Development of graphene-drug nanoparticle based supramolecular self-assembled pH sensitive hydrogel as potential carrier for targeting MDR tuberculosis. Mahesh P. More, Ramesh V. Chitalkar, Mahesh S. Bhadhane, Sanjay D. Dhole, Ashwini G. Patil, Pravin O. Patil, Prashant K. Deshmukh. *Materials Technology*, 2018, 1-12. (Impact Factor: 1.23).
57. Ecofriendly *in situ* fabrication of reduced graphene oxide gold nanocomposite for catalysis and dye degradation. Pravin O. Patil, Sanchita S. Mahale, Mahesh P. More, Pravin V Bhandari, Prashant K. Deshmukh, Sanjay B. Bari. *Russian Journal of Physical Chemistry*, 2018, 92: 2750-2756. (Impact Factor = 0.581)
58. Fabrication and In vitro drug release characteristics of magnetic nanocellulose fiber composites for efficient delivery of nystatin. Rahul S. Tade, Mahesh P. More, Vivekanand K. Chatap, Pravin O. Patil, Prashant K. Deshmukh. *Materials Research Express*. 2018, 5(11), 116102. (Impact Factor = 1.15)
59. Graphene-based nano-composites for sensitivity enhancement of surface plasmon resonance sensor for chemical and biological sensing: A review. Gaurav R. Pandey, Ashwini G. Patil, Rahul S. Tade, Prashant K. Deshmukh, Dilip R. Patil, Arun M. Patil, Mahesh P. More, Pravin O. Patil. *Biosensors and Bioelectronics*, 2019, 139 (2019): 111324. (Impact Factor

=9.5).

- 60.** Green synthesis of graphene based manocomposite for sensing of heavy metals, J. H. Patil, M. P. More, M. R. Mahajan, A. G. Patil, P. K. Deshmukh, P. O. Patil., *Journal of Pharmaceutical and Biological Sciences*. 2019, 7 (2), 56-62.
- 61.** Ecofriendly peanut skin extracts mediated in situ fabrication of rGO@ AgNCs for degradation of dyes. K. V. Patel, S. S. Mahale, P. K. Deshmukh, P. O. Patil, *Journal of Pharmaceutical and Biological Sciences*, 2019 7 (2), 63-66.
- 62.** Fabrication and characterization of colon specific eudragit coated graphene oxide microsphere for sustained delivery of tramadol hydrochloride. M. P. More, G. B. Patil, S.D. Thakare, PO Patil, AG Patil, PK Deshmukh. *Polymer-Plastics Technology and Materials* 59 (6), 2020, 606-618. (*Impact Factor =1.7*).
- 63.** Enhancement solubility and dissolution rate of paracetamol and ibuprofen by co-amorphous particles using microwave technique, A Shinde, N Jadhav, O Shinde, P Patil, *Asian J Pharm Clin Res*. 2019, 12 (11), 155-162.
- 64.** Heterogeneous surface architected metal-organic frameworks for cancer therapy, imaging, and biosensing: A state-of-the-art review, Abhijeet Pandey, Namdev Dhas, Prashant Deshmukh, Carlos Caro, Pravin Patil, Maria Luisa García-Martín, Bharath Padya, Ajinkya Nikam, Tejal Mehta, Srinivas Mutalik., *Coordination Chemistry Reviews*, 2020. 409. 213212. (*Impact Factor = 13.8*).
- 65.** Recent Advancement in Bio-precursor derived graphene quantum dots: Synthesis, Characterization and Toxicological Perspective R. S. Tade, S. N. Nangare, A. Patil, A Pandey, P. K. Deshmukh, D. R. Patil, P. O. Patil, *IOP Nanotechnology*, 2020, 31(29), 292001. (*Impact Factor =3.5*).
- 66.** Perspectives of characterization and bioconjugation of gold nanoparticles and their application in lateral flow immunosensing. V. B. Borse, A. N Konwar., R. D. Jayant, P. O. Patil. *Drug Delivery and Translational Research*. 2020, 4:1-25, (*Impact Factor = 2.6*).
- 67.** A comprehensive review on carbon dots and graphene quantum dots based fluorescent sensor for biothiols. Z. G. Khan, P. O. Patil., *Microchemical Journal*. 2020, 11:105011, (*Impact*

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69. Green synthesis of fluorescent graphene quantum dots and its application in selective curcumin detection. R. S. Tade P. O. Patil., *Current Applied Physics.* **2020**, **1**; **20**(11):1226-36. (***Impact Factor = 2.2).***
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71. Green Synthesis of Silver Nanoparticles: An Eco-Friendly Approach, S. N. Nangare, P. O. Patil. *NanoBiomed. Eng.* **2020**, **12**(4).
72. Theranostic Prospects of Graphene Quantum Dots in Breast Cancer. R. S. Tade, P. O. Patil. *ACS Biomaterials Science & Engineering.* **2020**, **6**(11):5987-6008. (***Impact Factor = 4.15).***
73. Affinity-Based Nanoarchitected Biotransducer for Sensitivity Enhancement of Surface Plasmon Resonance Sensors for In Vitro Diagnosis: A Review. S. N. Nangare, P. O. Patil, *ACS Biomaterials Science & Engineering.* **2021**, **7**, **1**, 2–30 (***Impact Factor = 4.15).***
74. One-Pot Development of Spray Dried Cationic Proliposomal Dry Powder Insufflation: Optimization, Characterization and Bio-interactions. A. B. Shreya, A. Pandey, A.N. Nikam, P.O. Patil, R. Sonawane, P. Deshmukh, *Journal of Drug Delivery Science and Technology*, **2020**, 102298. (***Impact Factor = 2.73).***
75. Nanoarchitected Bioconjugates and Bioreceptors Mediated Surface Plasmon Resonance Biosensor for In Vitro Diagnosis of Alzheimer's disease: Development and Future Prospects. S, N. Nangare, P. O. Patil, *Critical Reviews in Analytical Chemistry*, **2020**, **50**(6):1-32 (***Impact Factor = 2.73).***
76. Black Phosphorus as Multifaceted Advanced Material Nanoplatforms for Potential Biomedical Applications. A.

- Pandey, A.N. Nikam, G. Fernandes, S. Kulkarni, B. S. Padya , R. Prassl, S. Das, A. Joseph, P. K. Deshmukh, P. O. Patil, S. Mutalik. *Nanomaterials*, 2021, 11(1), 13. (**Impact Factor = 4.32**).
77. Carbon Dots: A Novel Trend in Pharmaceutical Applications. S. Dugam, S. Nangare, P. Patil, N. Jadhav. *Annales Pharmaceutiques Françaises*, 2020.
78. One-pot in situ synthesis of eco-friendly cellulose magnetic nanocomposite (Cf-MNCs) for dye adsorption application. R. S. Tade, P. O. Patil, V. K. Chatap., *Functional Composites and Structures*, 2021, 3 (1), 015001.
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81. Black phosphorus nanostructure based highly sensitive and selective surface plasmon resonance sensor for biological and chemical sensing: A review. S. N. Nangare, P. O. Patil., *Critical Reviews in Analytical Chemistry* 51:2021, 1-26. (**Impact Factor = 6.8**).
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84. Surface Architected metal organic frameworks-based biosensor for ultrasensitive detection of uric acid: Recent advancement and future perspectives. S. N. Nangare, P. M. Sangale, A. G. Patil, S.H.S. Boddu, P.K. Deshmuk, N.R. Jadhav, R.S. Tade, S.B. Bari, P. O. Patil., *Microchemical Journal*, 2021, 106567. (**Impact Factor = 4.81**).
85. Historical Dilemmas of Coronavirus Disease (COVID-19):

Public health emergency, Management perspectives and Global impacts. R. S. Tade, S. N. Nangare, P. M. Sangale, M. R. Patil, Ashwini G. Patil, Pravin O. Patil., **International Journal of Nursing Education and Research**, 2021, 9(03), 345-356.

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87. Development of cross-linked collagen/pullulan ocular film for sustained delivery of Besifloxacin using novel spin-coating technique, Mahesh P More, Shweta Patil, Sharwari Ghodke, Pravin O Patil, Ratnesh Jain, Prajakta Dandekar, Prashant K Deshmukh, *Journal of Materials Research*, 2021, (**Impact Factor = 3.08**).
88. Prevalence, distribution, treatment, and modern methods for in vitro diagnosis of Alzheimer's disease in India: Challenges and future prospective, S. N. Nangare, P. O. Patil, *Thai Journal of Pharmaceutical Sciences*, 2021
89. Fabrication of polyethyleneimine surface-functionalized fluorescent carbon dots and its applications towards highly sensitive and selective detection of glutathione in aqueous in aqueous medium and in vitro cell imaging of HeLa cells, Zamir G. Khan, Pravin O. Patil, *Journal of Material Science: Materials in Electronics* (2021). <https://doi.org/10.1007/s10854-021-06808-3> (**Impact Factor = 2.478**).
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91. Structural design of nanosize-metal–organic framework-based sensors for detection of organophosphorus pesticides in food and water samples: current challenges and future prospects, S. N. Nangare, S. R. Patil, A. G. Patil, Z. G. Khan, P. K. Deshmukh, R. S. Tade, M. R. Mahajan, S. B. Bari, P. O. Patil,

Journal of Nanostructure in Chemistry, <https://doi.org/10.1007/s40097-021-00449-y> (Impact Factor = 6.391).

92. Chitosan mediated layer-by-layer assembly based graphene oxide decorated surface plasmon resonance biosensor for highly sensitive detection of β -amyloid, S. N. Nangare, P. O. Patil, **International Journal of Biological Macromolecules**, 214, 1 2022, 568-582 (Impact Factor: 8.02)
93. Design of graphene quantum dots decorated MnO₂ nanosheet based fluorescence turn “On-Off-On” nanoprobe for highly sensitive detection of Lactoferrin, S. N. Nangare, S. R. Patil, S. Patil, Z. G. Khan, A. G. Patil, P. O. Patil, **Inorganic Chemistry Communications**, 143, 2022, 109751 (Impact Factor = 3.42).
94. Design of “Turn-Off” Fluorescent Nanoprobe for Highly Sensitive Detection of Uric Acid using Green Synthesized Nitrogen-Doped Graphene Quantum Dots, S. N. Nangare, S. V. Baviskar, A. G. Patil, P. O. Patil, **Acta Chimica Slovenica**, 69, 2022, 437-447 (Impact Factor = 1.7).
95. Design of monoelemental based two dimensional nanoarchitectures for therapeutic, chemical sensing and in vitro diagnosis applications: A case of borophene, S. N. Nangare, Z. G. Khan, A. G. Patil, P. O. Patil, **Journal of Molecular Structure**, 2022, 1265, 133387 (Impact Factor = 3.84).
96. Surface nanoarchitected metal–organic frameworks-based sensor for reduced glutathione sensing: a review, Z. G. Khan, M. R. Patil, S. N. Nangare, A. G. Patil, Sai HS Boddu, R. S. Tade, P. O. Patil, **Journal of Nanostructure in Chemistry**, 2022, 133387, (Impact Factor = 7.96).
97. Nanostructured metal–organic framework-based luminescent sensor for chemical sensing: current challenges and future prospects, S. N. Nangare, A. G. Patil, S. M. Chandankar, P. O. Patil, **Journal of Nanostructure in Chemistry**, 2022, 109751, (Impact Factor = 7.96).
98. Fabrication of Poly-L-lysine functionalized graphene quantum dots (PLL-GQDs) for label-free fluorescent-based detection of

CEA, R. S. Tade, P. O. Patil, **ACS Biomaterials Science & Engineering** (Impact Factor: 5.39)

99. Design and Synthesis of Poly-L-Lysine-Functionalized Graphene Quantum Dots Sensor for Specific Detection of Cysteine and Homocysteine, Z. G. Khan, P. O. Patil, *Materials Chemistry and Physics*, <https://doi.org/10.1016/j.matchemphys.2021.125383> (Impact Factor = 4.09).

PRESENTATION/SEMINAR/CONFERENCE/WORKSHOP

- **2020** - Attended DST, PCI, APTI, GTU and GUJCOST sponsored International Conference on Multidisciplinary Research: Changing Paradigm and presented paper entitled “Functionalized fluorescent graphene quantum dot based sensor for early detection of lung cancer and bioimaging” and Grab first prize, Held at Ahmedabad 6 March 2020.
- **2019** - Attended APTICON-2019 at DIT University, Dehradun, Uttarakhand, presented paper entitled “Fabrication of surface decorated graphene oxide nanocomposite for label free prognosis of Alzheimer’s disease” and grab best poster presentation award by the hand of Dr. Raghuram Rao, Director, NIPER Mohali, Dehradun Oct 11-13 2019.
- **2019** –Attended ICEFN & SEM -2019 International Conference at Nanoscience and Nanotechnology Centre Department of Chemistry D.S.B Campus, Kumaun University and presented paper entitled “Functionalized fluorescent graphene quantum dot based sensor for early detection of lung cancer and bioimaging”, Nainital, May 24-26 2019.
- **2019**- Attended PCI sponsored Continuing Education Program on Modernization and Training in Teaching Learning Pedagogy, at Maliba College of Pharmacy, Bardoli, Gujarat, on 2nd to 4th Jan 2019.
- **2018**-Attended and presented paper entitled “Green Synthesis of N-Doped Graphene@TiO₂ Aerogels for Environmental Remediation”, at AVISHKAR-2018, on 26th Dec. 2018.
- **2018**- Attended OpenSPR demo and hands on training workshop at NCBS-InStem, Bangalore, organized at InStem-NCBS, Bangalore, on Open SPR, from 30th Oct- 31st Oct

2018.

- **2018**-Attended workshop organized by CoESME, IISER Pune and supported by Department of Biotechnology (DBT), Govt. of India, and British Council on Research-based Pedagogical Tools (RBPT), from 28th Sept- 1st Oct 2018.
- **2017**- Attended and presented paper entitled “Fabrication of N-doped graphene@TiO₂ binary composite for its adsorption performance with facile recycling” at AVISHKAR-2017, on Dec. 2017.
- **2016**- Participated and presented paper entitled “Bioinspired *in situ* fabrication of rGO@AgNCs using industrial-agro waste for environmental remediation (Wealth_5)” at Young Scientist Conclave in India International Science Festival (IISF), New Delhi, 7th -11th Dec. 2016.
- **2015**-Participated and presented paper entitled “Bio-inspired *in situ* synthesis of graphene-silver nanocomposite from agro-waste for decontaminated wastewater remediation” at RSC symposium on “Frontiers of advances in chemistry and technology (FACT)” at NMU, Jalgaon, 11th -12th Dec. 2015.
- **2014**-Participated and presented paper entitled “Synthesis and antidepressant study of some isoxazoline derivatives ” at Annual National Convention of Association of Pharmaceutical Teachers of India (APTICON-2014), at Pune, 28th -30th Nov. 2014.
- **2012**-Participated in National Conference on Trends in Chromatography and Spectroscopic Techniques held at R. C. Patel Institute of Pharmaceutical Education and Research, Shirpur, on 6th Oct. 2012.
- **2012**-Organized State level seminar on Basic in Spectroscopy and Chromatography, in collaboration with R. C. Patel Institute of Pharmaceutical Education and Research, Shirpur, on 7th Oct. 2012.
- **2012** – Poster presentations (03) at “AVISHKAR 2012” held at North Maharashtra University, Jalgaon, 13-15th Dec. 2012
- **2012**- Participated and presented poster at National Level Conference Horizons in Pharmaceutical Sciences, held at S. M. B. T. College of Pharmacy, Nashik, 1st Sep. 2012.
- **2011**- Participated in Pune University Sponsored Seminar on ‘Current Trends In Drug Discovery Research’ held at Sinhgad Institute of Pharmacy, Narhe Campus Pune, 13-15th Jan. 2011.

- **2008-** Participated in the TIFAC, DST (Govt. of India), New Delhi sponsored one day Workshop on “Patent Awareness” held at North Maharashtra University, Jalgaon (MS), 4th August, 2008.
- **2007-** Paper presented at 59th Indian Pharmaceutical Congress held at Varanasi (UP), “Exploring a Need of Pilot Plant in Current Scenario”, Dec. 2007.
- **2006-** Attended Three day workshop on “Facilitating Excellence in Effective Leadership (FEEL)” Organized at R.C. Patel Institute of Technology, Shirpur (M.S.), For Leadership and Human Resource Development, Mangalore. On 10th, 11th & 12th January-2006.
- **2005-** One-Day workshop on “Recent advances in Pharmaceutical Analysis (RAPA)” on Held at R.C. Patel college of Pharmacy, Shirpur (M.S.), September-2005.
- **2005-** Attended Conference on “Screening Techniques in Experimental Pharmacology (STEP)” held at R. C. Patel College of Pharmacy, Shirpur (M.S.), 2nd Oct. 2005.

QUALITY IMPROVEMENT PROGRAMME: (03)

- **2018:** Attended faculty development program on “Foundation Program in ICT for Education (FDP101x)” Conducted by IIT, Bombay, 8th March to 12th April 2018.
- **2009-** Attended Two Weeks AICTE Sponsored Staff Development (SDP) Programme Organized by R. C. Patel Institute of Pharmaceutical Education & Research Shirpur on “Recent Advancement In Pharmaceutical Chemistry” From 2nd Feb. 2009 to 13th Feb. 2009.
- **2006-** Attended Two Weeks AICTE Sponsored Staff Development (SDP) Programme Organized by Sinhgad College of Pharmacy on “Techniques and Methods in New Drug Discovery Research (NDDR)” From 17th April to 29th April 2006.

HONOURS:

- **Journal Reviewers:** ACS Applied Materials & Interfaces, Biosensors and Bioelectronics, Medicinal Research Reviews, Future Medicinal Chemistry, Bioorganic and Medicinal Chemistry, Current Medicinal Chemistry, Brain Disorders and Therapy, Research on Chemical Intermediates
- Received **Junior Research Fellowship from AICTE (2003-2005).**

Patents:

- Ashwini G. Patil, Pravin O. Patil, Facile in situ fabrication of graphene metal nanocomposite using bacteria (**Application no: 202021003169**), Published: May 2021.
- Graphene oxide nanocomposites, method of preparing same and uses thereof (**Application no: 202121003034**), Published: July 2022.
- Graphene quantum dot biosensor, method of preparing same and uses thereof (**Application no: 202021003173**), Published: July 2022.
- Fluorescent carbon quantum dots, methods of preparations and uses thereof (**Application no: 202121003026**), Published: July 2022.

OTHER ACHIEVEMENT:

- Passed Certificate Course in **MSCIT with 78 % marks.**
- Undergone one month industrial training at '**Fem Care Pharma' Ltd, Nashik, Maharashtra.**

PROFESSIONAL MEMBERSHIP:

- Life Member of APTI (Reg. No. MA-LM/742).
- Life Member of Community Pharmacists of India (Reg. No. MH/LM/008).
- Registered Pharmacist- [Maharashtra State Pharmacy Council](#) (Reg. No. 63047).

LEISURE ACTIVITIES:

Reading Newspapers and professional Journals, Internet Browsing, Travelling, Listening to Music.

REFERENCES:**Dr. S. B. Bari**

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H. R. Patel Institute of Pharmaceutical
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Maharashtra.
Mobile: +919049032111

Dr. D. P. Belsare

Associate Professor, Department of
Pharmaceutical Chemistry,
N.D.M.V.P.S's College of Pharmacy,
Nashik, Maharashtra.
Mobile: - +919423174015.

ACADEMIC DETAILS:

Ph. D. (Pharmaceutical Sciences) - Jan. 2014, NMU, Jalgaon.

M. Pharm. (Pharmaceutical Chemistry)-2005 (70.68 %)

College: N.D.M.V.P.S's College of Pharmacy, Nashik,
Maharashtra.

University: University of Pune, Maharashtra

B.Pharm.-2002(69.92%)

College: R. C. Patel College of Pharmacy, Shirpur
Maharashtra.

University: North Maharashtra University, Jalgaon,
Maharashtra.

GATE 2003 - 91.4 Percentile (AIR 550, IIT Madras).

GATE 2002- 79.04 Percentile (AIR 952, IISC Bangalore).

1. Google Scholar link:

<https://scholar.google.co.in/citations?user=g3htiIAAAAJ&hl=en&authuser=1>

2. Scopus link:

<https://www.scopus.com/authid/detail.uri?authorId=35194607500>

3. Orcid link:

<https://orcid.org/my-orcid?orcid=0000-0001-9998-6815>

3. Publons link:

<https://publons.com/researcher/1643622/pravin-patil/>

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

Date:01/08/2022

Dr. Pravin Onkar

Department of Quality Assurance

List of post graduate students under my guidance and Achievements

S.N	Name of Guide	Name of Student	Thesis Title
2011-2012			
1	Mr. P.O. Patil	Jain Rakesh Rameshlal	Simultaneous estimation of some drugs and their marketed formulation by UV and RP-HPLC
2	Mr. P.O. Patil	Khairnar Hitesh Bhaskarrao	Formulation, development and evaluation of orodispersible tablet of cefixime and ofloxacin
3	Mr. P.O. Patil	Marathe Gajanan Madhav	Analytical method development and validation of some drugs in bulk and its dosage forms using RP-HPLC and UV method
4	Mr. P.O. Patil	Patel Mihirkumar Girdharbhai	Effect of time, temperature and UV radiation on migration of plasticizers and anti-oxidant from pack component to product analyzed by gas chromatography
5	Mr. P.O. Patil	Ramchandra Pandey	Development and validation of analytical methods for determination of etodolac, thiocolchicoside and moexipril in bulk and pharmaceutical formulation.
6	Mr. P.O. Patil	Patil Nandkishor Deelip	Formulation, development and evaluation of nanoparticulate drug delivery system.
2012-2013			
7	Mr. P.O. Patil	Avinash Shete	Development and validation of stability indicating assay method by RP- HPLC of Anti-psychotic drug.
8	Mr. P.O. Patil	Shailesh Donda	Analytical method development and validation of some drugs in bulk and their formulation by using RP-HPLC and UV methods.
9	Mr. P.O. Patil	Tushar R. Patil	Development and validation of stability indicating assay method of non steroidal anti-inflammatory drug by RP-HPLC
10	Mr. P.O. Patil	Vishal Baviskar	Analytical method development and validation of some drugs in bulk and its formulations by using UV- spectrophotometer and RP-HPLC methods
2013-2014			
11	Prof. P.O. Patil	Nayandip M Girase <i>(Awarded Best M. Pharm Thesis by National level "PharmInnova Award" (2014-2015) by Rajnibhai V. Patel Trust under the Patronage of Department of Science & Technology (DST), Govt. of India.)</i>	Green synthesis of graphene oxide based biosensor for diagnostic application.

12	Prof. P.O. Patil	Darshan Deore	Analytical method development and validation of some drugs in bulk and its dosage forms using RP-HPLC and UV methods
13	Mr. P.O. Patil	Pawar Nikhilkumar Sharadrao	Analytical method development and validation for the simultaneous estimation of tropicamide and phenylephrine hydrochloride in ophthalmic formulation by RP-HPLC
2014-2015			
14	Mr. P.O. Patil	Patil Shwetal S	Development and validation of analytical methods for determination of enzalutamide in bulk and pharmaceutical formulation
2015-2016			
15	Dr. P.O. Patil	Bhandari Pravin Vijaysing	Ecofriendly fabrication of graphene based metal nanocomposites for sensing of heavy metals
16	Dr. P.O. Patil	Bafana Harshada Rajenrda	Facile green synthesis of graphene based metal nanocomposites for enhanced antibacterial activity against dental pathogens
17	Dr. P.O. Patil	Patel Kajalben Vijaybhai	Green synthesis of graphene silver nanocomposite for dye adsorption properties
18	Dr. P.O. Patil	Mahale Sanchita Sanjiv	Biofabrication of graphene based metal nanocomposites using agricultural waste for environmental remediation
2016-2017			
19.	Dr. P.O. Patil	Chalse Neha Sanjay	Green synthesis of nitrogen doped graphene magnetic aerogel powder for environmental remediation
20.	Dr. P.O. Patil	Patil Pratiksha Pramod	Fabrication of N-doped graphene@TiO ₂ aerogel powder for its adsorption and absorbing performance with facile recycling
21.	Dr. P.O. Patil	Patil Jitendra Hilal	Green synthesis of graphene based silver nanocomposites using agro waste for sensing of heavy metals
22.	Dr. P.O. Patil	Pallavi Arvind Pawara	N doped graphene@silica aerogel powder for water remediation and dye degradation
23.	Prof. P.O. Patil (Co-guide)	Patil Rupali Motising	N and S dual doped graphene aerogel for environmental remediation
2017-2018			
24.	Prof. P.O. Patil	Jyoti S. Marathe	Green synthesis of N-doped graphene@TiO ₂ aerogel for environmental remediation
25.	Dr. P.O. Patil (Co-guide)	Kunal Ambalal Patil	Bioinspired synthesis of nitrogen doped graphene aerogel for environmental remediation
2018-2019			

26.	Prof. P.O. Patil	Shweta Kiran Baviskar	Fabrication and functionalization of heteroatom doped Graphene Quantum Dots (GQDs) for detection of uric acid
27.	Dr. P. O. Patil	Harshal Rajendra Shinde	Green synthesis of graphene based silver nanocomposites with enhanced antibacterial activity for veterinary applications
28.	Prof. P. O. Patil	Swapnil Shankar Landge	Facile synthesis of ternary graphene oxide nanocomposites for dye degradation study.
29.	Dr. P. O. Patil (Co-guide)	Tanisha Neelkanth Agrawal	Fabrication and functionalization of heteroatom doped Graphene Quantum Dots for detection of glutathione.
2019-2020			
30.	Dr. P. O. Patil	Quazi Wasil Hafiz Jalees Ahmed	Fabrication of MoS ₂ quantum dots-MnO ₂ nanosheet for fluorescent sensing of Uric acid
31.	Dr. P. O. Patil	Sonawane Sagar Kushal	Green synthesis of carbon dots for selective detection of glutathione
32.	Dr. P. O. Patil	Mali Goapl Ramesh	Stability indicating assay method development and validation of aquaretic class of dosage form by HPLC
33.	Dr. P. O. Patil (Co-guide)	More Ashwini Dnyeshwer	Facile Synthesis of Molybdenum Disulfide Quantum Dots for Detection of Organophosphorus Pesticide
2020-2021			
34.	Dr. P. O. Patil	Patil Minal R	Metal organic framework encapsulated GQDs for sensing application
35.	Dr. P. O. Patil	Sangale Premnath M	Metal organic framework encapsulated GQDs for ultrasensitive estimation of Quercetin
36.	Dr. P. O. Patil	Patil Sagar R	Fabrication of GQDS-Manganese dioxide nanosheet conjugate for fluorescent sensing of Lactoferrin
37.	Dr. P. O. Patil (Co-guide)	Patil Sayli Ravindra	Graphene quantum dots encapsulated into metal organic framework for sensing application
2021-2022			
39	Dr. P. O. Patil	Yogesh Shinde	Metal Organic Framework Embedded S, N Co-doped Graphene Quantum Dots for Sensing of Taurine
40	Dr. P. O. Patil	Sairendri Patil	Metal Organic Framework Embedded Functionalized Graphene Quantum Dots for Estimation of Para-Amino Hippuric Acid
41	Dr. P. O. Patil	Mrunal Girase	Analytical method development of some drugs
42	Dr. P. O. Patil (Co-guide)	Manyar Shohebrijvan mahammadsharif (Co-guide)	Metal organic framework embedded S, N co-doped GQDs for detection of Para amino hippuric acid
43	Dr. P. O. Patil (Co-guide)	Kalyani Chaudhari	Metal Organic Framework Embedded functionalized Graphene Quantum Dots for Sensing of Taurine

List of post PhD students under my guidance

Sr.	Name of the Student and Address	Category	Subject Title	Date of Reg.
1	Rahul S. Tade (Thesis submitted to KBCNMU, Jalgaon)	OBC	Development of nanoprobe for cancer sensing application	21-5-2018
2	Zamir Khan Gaffar Khan (Thesis submitted to KBCNMU, Jalgaon)	Open	Fluorescent Nanomaterials for Biothiols Sensing	21-5-2018
3	Dilip. O. Morani	OPEN	Design and development of nanotherapeutics for selective tumor targeting	21-5-2018
4	Nangare Sopan Namdev	NT	Development of graphene oxide based nanoprobe for prognosis of Alzheimer's disease	02-11-2020
5	Mahendra R. Mahajan	OPEN	Fluorescent Nanomaterials for organ phosphorus pesticide detection	02-11-2020

List of Patents

S. No.	Title of the Patent	Patent Registration No./	Status
1	Facile in situ fabrication of graphene metal nanocomposites using bacteria	202021003169	Published
2	Surface decorated graphene oxide Nanocomposites based biosensor for Alzheimer's disease (AD) and methods thereof	202021003168	Published
3	Functionalized graphene quantum dots (GQDs) Based biosensor for lung cancer and Methods thereof	202021003173	Published
4	Fluorescent carbon quantum dots, methods of preparations and uses thereof	202121003026	Published