



**Name:** Dr. Shital Manoj Patil

**Qualification :** M. Pharm. , PhD (Pharmaceutical Chemistry)

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#### **PROFESSIONAL EXPERIENCE:**

1. Presently working at All India Shree Shivaji Memorial Society's College of Pharmacy, Pune from August 2009.
2. Worked as a Lecturer, at Modern College of Pharmacy (for Ladies) – Moshi from August 2008 to August 2009.

#### **TOTAL EXPERIENCE IN YEARS:**

- ❖ Teaching: 17 yrs.
- ❖ Research: 13 Yrs
- ❖ Industry: 07 months

#### **AREAS OF INTEREST:**

Design, Synthesis and biological evaluation of Anti-HIV agents

Design, Synthesis and biological evaluation of Anti-TB agents

Design, Synthesis and biological evaluation of Anti-Cancer agents

Design, Synthesis and biological evaluation of Anti-inflammatory agents

Design, Synthesis and biological evaluation of Anti-alzheimer agents

#### **BOOKS AUTHORED:**

**Name of Book:** Pharmaceutical Inorganic Chemistry, First Edition: August 2018

**Contributing Authors:** Dr. Padmanabh B. Deshpande, Dr. Vitthal V. Chopade, Mrs. Shital M. Patil

**Publisher:** Technical Publications

**ISBN No.:** 978-93-332-1862-7

**BOOK CHAPTERS AUTHORED:**

1. Chapter 7: Artificial Intelligence-Based Prediction of Drug Metabolism

Authors: Shashikant V. Bhandari, Shital M. Patil, Shivraj N. Mawale, Mrunal C. Belwate, and Somdatta Y. Chaudhari

Name of Book: Artificial Intelligence for Chemical Sciences Concepts, Models, and Applications

Publisher: Apple Academic Press Exclusive copublishing with CRC Press (Taylore and Francis Group) In Production

Pub Date: Forthcoming October 2024, Hardback Price: \$240 US | £180 UK, Hard ISBN: 9781774918326, Pages: Est. 386pp w/index, Binding Type: Hardback / ebook, Notes: 11 color and 90 b/w illustrations

Link: <https://appleacademicpress.com/artificial-intelligence-for-chemical-sciences-concepts-models-and-applications-/9781774918326>

2. Chapter 10. AI-Based Models for Prediction of Biodegradation

Authors: Ganesh B. Patil, Sopan N. Nangare, Shital M. Patil, Shankarsing S. Rajput, and Milind M. Patil

Name of Book: Artificial Intelligence for Chemical Sciences Concepts, Models, and Applications

Publisher: Apple Academic Press Exclusive copublishing with CRC Press (Taylore and Francis Group) In Production

Pub Date: Forthcoming October 2024, Hardback Price: \$240 US | £180 UK, Hard ISBN: 9781774918326, Pages: Est. 386pp w/index, Binding Type: Hardback / ebook, Notes: 11 color and 90 b/w illustrations

Link: <https://appleacademicpress.com/artificial-intelligence-for-chemical-sciences-concepts-models-and-applications-/9781774918326>

3. Chapter 13: Computer-aided Drug Design Case Study on the Development of New Chemical Entities in the Management of HIV.

Authors: Kalyani D. Asgaonkar, Shital M. Patil, Navnath Gavande

Name of Book: Predictive Data Modelling for Biomedical Data and Imaging

Edited By Poonam Tanwar, Tapas Kumar, K. Kalaiselvi, Haider Raza, Seema Rawat

Publisher: River Publishers

E book Publication date: 13th September 2024

Pages: 16

eBook ISBN: 9781003516859

link: <https://www.taylorfrancis.com/chapters/edit/10.1201/9781003516859-14/computer-aided-drug-design-case-study-development-new-chemical-entities-management-hiv-kalyani-asgaonkar-shital-patil-suraj-gavande>

4. Part I: Use of Ethanol as fuel for sustainable future.

Authors: Shashikant V. Bhandari, Abhishek V. Shitole, Shital M. Patil, Sagar R. Ghanwat, Shambhavi S. Singh, Aniket P. Sarkate, Rajendra D. Dighe, and Poonam Inamdar

Book Name: Green Chemistry for sustainable future

Publisher: Cambridge Scholar Publishing

Hard back: ISBN: 1-0364-0716-0, ISBN13: 978-1-0364-0716-2

Paperback: ISBN: 1-0364-4582-8, ISBN13: 978-1-0364-4582-9

Release Date: 20th June 2024 (Hardback), Release Date: 17th March 2025 (Paperback)

Link: <https://www.cambridgescholars.com/product/978-1-0364-0716-2/>

5. Part II: Green protocols for synthesis of small molecules

Authors: Shashikant V. Bhandari, Shambhavi S. Singh, Neha A. Raut, Shital M. Patil, Aniket P. Sarkate, Rajendra Dnyandeo Dighe, Abhishek Shitole, Sharayu P. Ninawe, and Poonam Inamdar

Book Name: Green Chemistry for sustainable future

Publisher: Cambridge Scholar Publishing

Hard back: ISBN: 1-0364-0716-0, ISBN13: 978-1-0364-0716-2

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Release Date: 20th June 2024 (Hardback), Release Date: 17th March 2025 (Paperback)

Link: <https://www.cambridgescholars.com/product/978-1-0364-0716-2/>

#### 6. Part IV: Green and sustainable adsorbent for heavy metal

Authors: Shashikant V. Bhandari, Sharayu P. Ninawe, Sagar R. Ghanwat, Abhishek Shitole, Neha A. Raut, Shital M. Patil, Aniket P. Sarkate, Rajendra Dnyandeo Dighe and Poonam Inamdar

Book Name: Green Chemistry for sustainable future

Publisher: Cambridge Scholar Publishing

Hard back: ISBN: 1-0364-0716-0, ISBN13: 978-1-0364-0716-2

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Release Date: 20th June 2024 (Hardback), Release Date: 17th March 2025 (Paperback)

Link: <https://www.cambridgescholars.com/product/978-1-0364-0716-2/>

#### **PROFESSIONAL AFFILIATIONS:**

- ❖ Registered Member: Maharashtra State Pharmacy Council
- ❖ Life Member: Association of Pharmacy Teachers of India

#### **PROJECTS HANDLED/GRANTS RECEIVED:**

- ❖ No. of Inhouse Projects: 15
- ❖ No. of Outside Research Projects: 04
- ❖ No. of Funded Research Projects (University/Industry): 02
- ❖ Amount of Research Grant Received: Rs. 1.60 Lakh (Name of Funding Agency: Savitribai Phule University of Pune Topic: 'Development of Some Anti-HIV Agents'), Rs. 2.75 lakhs (Name of Funding Agency: Savitribai Phule University of Pune, Topic: 'Development of Some heterocyclic derivatives as EGFR inhibitors using pharmacophore optimization')
- ❖ No of M. Pharm. Students guided: 07

#### **INSTITUTIONAL AND ADMINISTRATIVE RESPONSIBILITIES:**

- ❖ Examiner appointed for theory and practicals by Savitribai Phule Pune University
- ❖ Moderator appointed for theory by Savitribai Phule Pune University
- ❖ Junior supervisor for Savitribai Phule Pune University examination
- ❖ External Senior supervisor for Savitribai Phule Pune University examination

- ❖ Paper setter for Savitribai Phule Pune University examination
- ❖ Guided B. Pharm. students for seminars as part of their curriculum
- ❖ Guided B. Pharm. students for in house research projects
- ❖ Guided M. Pharm. students in their research activities
- ❖ Co-Coordinator for Pharmacy Council of India Inspection at Modern College
- ❖ Sports Incharge at Modern College
- ❖ Member for College Website Upgradation Committee
- ❖ Class Teacher
- ❖ National Board of Accreditation Committee member- Supplementary processes
- ❖ NACC Committee Member- Student Support & Progression
- ❖ Academic committee member- Preparation of academic time Table and academic calendar
- ❖ Incharge of ERP Software
- ❖ Member of Publication of College Newsletter Committee
- ❖ Registration committee member for SYNAPSE.
- ❖ Academic Incharge-M Pharm
- ❖ PhD Coordination Committee- Member
- ❖ NAAC Criteria I: Curricular Aspect-Incharge
- ❖ Exam Section : Member

#### **AWARDS/ACHIEVEMENT/MEDALS:**

1. Received cash prize for securing highest marks in Pharmaceutical Microbiology (Second year B. Pharm.)
2. Received Certificates for securing First rank in S. Y. B. Pharm. & Third Rank in T. Y. & Final year B. Pharm. in academics.
3. Received Second prize for the Poster presentation of AVISHKAR 2008 at zonal level
4. Received Appreciation certificate as a guide for Poster presentation competition METXPLOR 2018 held at Bhujbal Knowledge City, MET's Institute of Pharmacy, Nashik on 17th February 2018.
5. Received Appreciation certificate and cash prize as a guide for oral presentation competition Synapse 2018 held at AISSMS College of Pharmacy, Pune on 16<sup>th</sup> October 2018.
6. Received 2<sup>nd</sup> prize as a guide for Poster and Oral presentation. METRxplore 2019 at MET's Institute of Pharmacy, Nashik on 02-08-2020
7. 2<sup>nd</sup> Prize at 1<sup>st</sup> Student Research Congress under the theme“ Innovations for Better Health SVKM's Dr. Bhanuben Nanavati College of Pharmacy and Co-hosted by University of Mumbai,28<sup>th</sup> -30<sup>th</sup> Sept 2020
8. Won Second runner up prize in Poster Presentation competition in AICTE Sponsored national conference on ‘Pharmacophore Development Using In-Silico Approach For

Anticancer Drugs As EGFR Inhibitors' from 3<sup>rd</sup> to 4<sup>th</sup> September 2021 organised by Dadasaheb Balpande College of Pharmacy.

- 9. Won 3<sup>rd</sup> Prize national level Digital poster making competition on the topic 'Ocean Energy-The power of future' organised by Academic Decipher.
- 10. Won runner up prize as guide for National Level Oral Presentation competition organised by Shivlingeshwar College of Pharmacy, SRTUM and APTI on 1/10/2022
- 11. Won the Second cash prize of Rs 3,000/- and certificate in 10<sup>th</sup> International Science congress (Multidisciplinary International conference sponsored by UGC & Shivaji University, Kolhapur, Organised by International science community Association in collaboration with Dadasaheb Jotiram Godse Arts Commerce Science College, Vaduj, Khatav, Satara on 9<sup>th</sup> December 2022.
- 12. Received Third position as Best Oral Presentation Award (as guide) at International Conference on Recent Advances on Green and Sustainable Developments (ICRAGSD-2023) organised by Green Chemistry Network Centre Chapter, Akal University , Talwandi Sabo, Bathinda, Punjab, India in collaboration with Green Chemistry network Centre (DU), Indian Chemical Society (Kolkatta), Eternal University (Baru Sahib), Synthetic Communications (Taylor and Francis) De Gruyter (Germany), DRDO (New Delhi) on 6<sup>th</sup>-8th September 2023.
- 13. Received First Position in Oral presentation competition (UG category) at 4<sup>th</sup> Student Research Congress under the theme“ Innovations for Better Health organised by SVKM's Dr. Bhanuben Nanavati College of Pharmacy and Co-hosted by University of Mumbai and Industry partner ACG World and Scitech centre on 8<sup>th</sup> and 9<sup>th</sup> December 2023.
- 14. Received Second Position in Oral presentation competition (PG category) at 4<sup>th</sup> Student Research Congress under the theme“ Innovations for Better Health organised by SVKM's Dr. Bhanuben Nanavati College of Pharmacy and Co-hosted by University of Mumbai and Industry partner ACG World and Scitech centre on 8<sup>th</sup> and 9<sup>th</sup> December 2023.
- 15. Received Third Position in Oral presentation competition (UG category) at 4<sup>th</sup> Student Research Congress under the theme“ Innovations for Better Health organised by SVKM's Dr. Bhanuben Nanavati College of Pharmacy and Co-hosted by University of Mumbai and Industry partner ACG World and Scitech centre on 8<sup>th</sup> and 9<sup>th</sup> December 2023.
- 16. Received Winner prize in In house research project competition on 'Optimisation of pharmacophore for activity against rheumatoid arthritis using QSARINS software' presented by Vaishnavi Chindhe, Pradnya Magdum, Kalyani Asgaonkar, Shital Patil organized by AISSMS COP.
- 17. Received Best Project Guide prize under CADD subject for the topic 'Unlocking the Potential: Computational Studies on Indolylpropyl benzamidopiperazines for Alzheimer's Dual Inhibition Therapy in June 2024. (Students names: Mansi Prabhune, Vrushali Sabale, Rajas Sheth, Vaishnavi Shitole, Prachi Thombare, Shital Patil).

## **PUBLICATIONS:**

- ❖ REVIEWS: 08
- ❖ NATIONAL RESEARCH PUBLICATIONS: Nil
- ❖ INTERNATIONAL RESEARCH PUBLICATIONS: 39
- ❖ H index - 7
- ❖ i10 Index - 3
- ❖ No of Citations –108

### **\*REVIEW PUBLICATIONS\***

1. ‘Computer Assisted Drug Design (HIV-1 NNRTIs)’ review article on pharmainfo.net.
2. A Review on 2-Azetidinone: A New Profile of Various Pharmacological Activities Inventi Impact: Med Chem, 2012, Issue 2, 63-70.
3. Trupti Sameer Chitre, Kalyani Dhirendra Asgaonkar, Shital Manoj Patil, Muthu Kumaradoss Kathiravan and Subhash Balkrishna Padhye, Exploring Pyrimidine Pharmacophore as Thymidine Monophosphate Kinase Inhibitors for Antitubercular Activity: A Review, Current Topics in Medicinal Chemistry, 2016, 16 (28): 3211 – 3223. (Impact Factor: 2.998; SNIP:3.04; SJR: 0.76) ISSN: 1873-5294 (Online); ISSN: 1568-0266 (Print).
4. Vaibhav Raut, Nayana Navsupe, Vrushali Phatak, Shashikant Bhandari, Shital Patil Review: Comprehensive review on versatile nature of curcumin and its pharmacological activities International Journal of Creative research thought, 2021, 9, 5, j288.
5. Shital Patil, Shashikant Bhandari A Review: Discovering 1,3,4-oxadiazole and chalcone nucleus for cytotoxicity/EGFR inhibitory anticancer activity. Mini Rev Med Chem 2022, 22(5):805-820 (Impact Factor: 3.862 ISSN: 1875-5607 (Online) ISSN: 1389-5575 (Print), SNIP: 0.492, SJR:0.283)
6. Diverse Synthetic Approaches and Biological Activities of Lucrative Pyrimidine-Triazine Hybrid Derivatives: A Review, Asgaonkar K, Patil S, Pradhan K, Tanksali S, Jain J Current Organic Synthesis, 20 Sep 2022, Volume 20, Issue 7, 2023, Published on: 28 December, 2022, Page: [734 - 757] DOI: 10.2174/1570179419666220920093734 (Impact Factor 2.276), ISSN (Print): 1570-1794, ISSN (Online): 1875-6271 SNIP: 0.605, SJR:0.292).
7. Shashikant Vasantrao Bhandari, Pranali Kuthe, Shital Manoj Patil, Om Nagras, Aniket Pardip Sarkate. A review: Exploring Synthetic Schemes and Structure-Activity Relationship (SAR) studies of Mono-carbonyl Curcumin Analogues for Cytotoxicity Inhibitory Anticancer Activity. Current organic chemistry, Volume 20, Issue 8, March 2023 DOI: 10.2174/1570179420666230126142238. (Impact Factor 2.276), ISSN (Print): 1570-1794, ISSN (Online): 1875-6271 SNIP: 0.605, SJR:0.292).

8. Shital M Patil, Piyush Nikalje, Navnath Gavande, Kalyani D Asgaonkar, Vaishnavi Rathod  
An Insight into the Structure-Activity Relationship of Benzimidazole and Pyrazole  
Derivatives as Anticancer Agents. Current topics in medicinal chemistry, 2024 Oct 31.  
doi: 10.2174/0115680266343336241021080438.

**\*INTERNATIONAL RESEARCH PUBLICATIONS\***

1. Design, Synthesis, Docking and Anti-mycobacterial activity of some novel thiouracil derivatives as thymidine monophosphate kinase (TMPK<sub>mt</sub>) inhibitors', International Journal of Research in Pharmaceutical and Biomedical Sciences
2. 'Synthesis & Antitubercular activity of some substituted pyrimidine derivatives', Journal of Pharmacy Research, 2011, 4 (6), 1882-1883.
3. '2D QSAR studies on 1,3-disubstituted Uracil derivatives as potential anti-HIV agents', Journal of Pharmacy Research, 2011, 4 (6), 1836-1838.
4. Trupti S. Chitre, Santosh Panda, Shital M. Patil, Aparna S. Chothe, G. Vignesh, Amol B. Salake, Muthu K. Kathiravan, Novel, 3,4-(thiadiazol-2-ylamino)methyl-5-(pyridin-4-yl)-1,3,4-oxadiazol-2-thiones: synthesis, docking and antimycobacterial testing, Advances in Biological Chemistry, 2011, 1, 7-14.
5. Sonali Deshmane, Kalyani D Asgaonkar, Shital Patil, Deepak Landge, Trupti S Chitre, 2D and 3D QSAR Studies of 1,4-Dihydropyridine Derivatives as Antitubercular Agents, Inventi Impact: Med Chem, 2012, 4, 229-236.
6. Trupti S. Chitre, Kalyani D. Asgaonkar, Shital M. Patil, Shiva Kumar, Vijay M. Khedkar, Dinesh R. Garud, QSAR, docking studies of 1,3-thiazinan-3-yl isonicotinamide derivatives for antitubercular activity, Computational Biology and Chemistry 68, 2017, 211–218 (Impact Factor-1.581; SNIP- 0.642; SJR-0.479; ISSN: 1476-9271) Elsevier Publication
7. Shital Patil, Kalyani Asgaonkar, Trupti Chitre, Vedika Bhat, Sayali Ethape, Anagha Sujalegonkar, Sudeep Bhalekar, 2D and 3D QSAR of Benzimidazole analogues as novel HIV-I Nonnucleoside Reverse Transcriptase Inhibitors, Indian Journal of Pharmaceutical Education and Research, 51,2,,1, S122-S128. April-June 2017.(Impact Factor-0.270; SNIP- 0.446; SJR-0.491; ISSN: 0019-5464). UGC Approved Journal.
8. Shital Manoj Patil\*, Kalyani Dhirendra Asgaonkar, Trupti Sameer Chitre, Aditi Kinikar, Chaitali Kharat, Vaibhavi Bhoirekar, Madhura Athavale, Mitali Katkar Comparative

Study of Various Non-Nucleoside Reverse Transcriptase Inhibitors on Different Reverse Transcriptase Enzyme, Indian Journal of Pharmaceutical Education and Research, Vol 51, Issue 4S, Oct-Dec (Suppl), 2017.(Impact Factor-0.4; SNIP- 0.446; SJR-0.22; ISSN: 0019-5464) UGC Approved Journal.

9. Kalyani Dhirendra Asgaonkar\*, Shital Manoj Patil\*, Trupti Sameer Chitre, Vaibhav Nanabhau Ghegade, Saurabh Radhaji Jadhav, Sajid Shaukat Sande and Atharva Sudhakar Kulkarni Comparative Docking Studies: A Drug Design Tool for Some Pyrazine-Thiazolidinone Based Derivatives for Anti-HIV Activity, Current Computer-Aided Drug Design, 2019, 15, 252-258. (Impact Factor-1.20; SNIP- 0.642; SJR-0.479; ISSN: 1476-9271).
10. Trupti S. Chitre, Shital M. Patil, Anagha G. Sujalegaonkar, Kalyani D. Asgaonkar, Vijay M. Khedkar, Dinesh R. Garud4, Prakash C. Jha, Shardha Y. Gaikwad, Smita S. Kulkarni, Amit Choudhari and Dhiman Sarkar Non Nucleoside Reverse Transcriptase Inhibitors, Molecular Docking Studies and Antitubercular Activity of Thiazolidin-4-one Derivatives, Current Computer-Aided Drug Design, 2019, 15, 433-444. (Impact Factor-1.20; SNIP- 0.346; SJR-0.265; ISSN: 1573-4099).
11. Trupti Sameer Chitre Shital Manoj Patil Anagha Govindrao Sujalegaonkar Kalyani Dhirendra Asgaonkar Designing of Thiazolidin-4-one Pharmacophore using QSAR Studies for Anti-HIV Activity. Indian Journal of Pharmaceutical Education and Research, 2021, 55, 2, 581 (Impact Factor:0.501, SNIP-0.398, SJR-0.169, ISSN-0019-5464)
12. Kalyani D Asgaonkar Shital M Patil Tina Saldhana Atharva Kulkarni Kshitija Abhang Bhairavi Bakhle A survey Possibilites of revamping education system in the stretching covid 19 pandemic. Pharmaceutical Resonance COVID - 19 Special Issue , 2020,30 (Impact Factor: Nil, ISSN-2581-6136).
13. Kalyani D Asgaonkar Shital M Patil Kshitija Abhang Ayush Khater A survey based approach to determine the momentous role played by the community pharmacy during Covid 19 pandemic. Journal of Emerging Technologies and Innovative Research, 2021,8(5),c338 (Impact Factor:Nil, ISSN-2349-5162).
14. Trupti. S. Chitre, Kalyani. D. Asgaonkar, Amrut B. Vikhe, Shital M Patil, Dinesh. R. Garud, Vijay M. Khedkar, Dhiman Sarkar, Laxman U. Nawale, Amar Yeware In silico Studies, Synthesis and Antitubercular Activity of Some Novel Quinoline - Azitidinone

Derivatives. Current Computer-Aided Drug Design, 2021, 17(1), 134-143 (Impact Factor:1.6, ISSN-1875-6697).

15. Trupti Chitre\*, Shubhangi Kumbhar, Rasika Mulik, Sadeecha Wani, Rutuja Pawar, Sheetal Parse, Pooja Wagh, Shital Patil, kalyani Asgaonkar Synthesis, Docking and Antitubercular activity Activity of triazole- thiadiazole hybrid, Journal of Emerging Technologies and Innovative Research, May 2021, Volume 8, Issue 5 e780-e787. (Impact Factor:Nil, ISSN-2349-5162).
16. QSAR tool for optimization of Nitrobenzamide pharmacophore for antitubercular activity, K.D.Asgaonkar\*, S.M.Patil, T.S.Chitre, S.D.Wani, M.T.Singh, Bulletin of the University of Karaganda –Chemistry, 2022, 105(1), 60-68. (ISSN: 2663-4872).<https://doi.org/10.31489/2022Ch1/60-68>
17. Shital M Patil, Kalyani D Asgaonkar, Bhairavi Bakhle, Kshitija Abhang, Ayush Khater, Muskan Singh, Trupti S Chitre, In Search of HIV Entry Inhibitors Using Molecular Docking, ADME, and Toxicity Studies of Some Thiazolidinone-Pyrazine Derivatives Against CXCR4 Co-receptor Curr HIV Res. 2022 Aug 12;20 (2):152-162. DOI: 10.2174/1570162X20666220214123331 Publisher-Bentham (Impact Factor:1.341, ISSN (Print): 1570-162X ISSN (Online): 1873-4251, H index-54)
18. A rational approach to anticancer drug design: 2D and 3D-QSAR, molecular docking and prediction off ADME properties using in-silico studies of thymidine Phosphorylase inhibitors.(E-pub Ahead of Print) Letters in drug design and discovery, Published on: 14<sup>th</sup> June 2022, Volume 20, Issue 2, 2023 Author(s): Vaibhav Raut, Shital M. Patil, Shashikant V. Bhandari, Aniket Sarkate DOI: 10.2174/1570180819666220215115633. Publisher-Bentham (Impact Factor:1.099, ISSN (Print): 1570-1808 ISSN (Online): 1875-628X).
19. Optimization of Pharmacophore of Novel Hybrid Nucleus of 1,3,4-oxadiazole-chalcone Using Literature Findings and In-silico Approach as EGFR Inhibitor(E-pub Ahead of Print) Letters in drug design and discovery, Published on: 09<sup>th</sup> June, 2022 Volume 20, Issue 6, 2023, 779 - 791 Author(s): Shital M. Patil\* and Shashikant V. Bhandari DOI: 10.2174/1570180819666220414102310 Publisher-Bentham .(Impact Factor:1.099, ISSN (Print): 1570-1808 ISSN (Online): 1875-628X).

20. Shital M. Patil\*, Shashikant V. Bhandari, Varsha A. Patil, Vrushali Randive and Indrani Mahadik Molecular Modeling of Some 1,3,4-Oxadiazole Derivatives as EGFR Inhibitors for the Treatment of Cancer. Letters in Drug design and Discovery (E-pub Ahead of Print), Volume 21, Issue 10, 2024 Page: [1694 - 1706] Published on: 12 May, 2023 DOI: 10.2174/1570180820666230410083544.Publisher-Bentham (Impact Factor:1.099, ISSN (Print): 1570-1808 ISSN (Online): 1875-628X) .

21. Asgaonkar KD, Patil SM, Daga Y, Gupta M, Sagar A, Shevate K, Mahadik I , Randive V In silico Exploration of Phytochemical based Thiazolidinone- Caffeic Acid- Indole New Chemical Entities for Simultaneous Management of Diabetes and Hypertension- A Fascinating Study. Cardiovascular & Hematological Disorders Drug Targets, Volume 23, Issue 1, 14 Apr 2023, 21-30 DOI: 10.2174/1871529x23666230414084918 Publisher-Bentham (Impact Factor:Nil, ISSN (Print): 1871-529X ISSN (Online): 2212-4063)

22. Kalyani Asgaonkar, Sushruti Tanksali, Kshitija Abhang, Krishna Shevate, Shital Patil, Trupti Chitre. Designing of Trifluoromethyl Substituted Pyrimidine Pharmacophore for Antiprostate Activity through a Collective Computational Approach. Ind. J. Pharm. Edu. Res (Scopus & WOS Indexed) July 2023, 57, 3, 827-837 doi:10.5530/ijper.57.3.101 (Impact Factor: 0.8, ISSN: 0019-5464).

23. Patil SM, Shashikant B. Designing and In silico Studies of Novel Hybrid of 1,3,4-oxadiazole-chalcone Derivatives as EGFR Inhibitors [published online ahead of print, 2023 Jun 8]. Curr Drug Discov Technol. 2023;20(6):47-59 (Scopus & WOS Indexed) (Cite Score:3.7, ISSN (Print): 1570-1638 ISSN (Online):1875-6220).Publisher-Bentham; doi:10.2174/1570163820666230608120944.

24. Shital M. Patil\*, Kalyani Asgonkar, Varsha A. Patil, Vrushali Randive and Indrani Mahadik QSAR, Molecular Docking & ADMET Studies of pyrrolo[2,3-d] pyrimidine derivatives as CDK4 inhibitors for treatment of cancer- Current Indian Science, Publisher-Bentham ISSN: 2210-3007 (Online), ISSN: 2210-299X (Print)- 24 October, 2023 DOI: 10.2174/012210299X258569231006094309

25. Shital M. Patil\*, Kalyani Asgonkar, Vrushali Randive and Indrani Mahadik Design, In silico molecular docking and ADMET prediction of amide derivatives of Chalcone nucleus as EGFR inhibitors for treatment of cancer. Current Drug Discoveries and Technologies (Scopus & WOS Indexed) Publisher-Bentham (Cite Score: 3.7, ISSN

(Print): 1570-1638 ISSN (Online):1875-6220). 2024; 21(3):9-19, doi: 10.2174/0115701638263890231027071518.

26. Shital Patil, Kalyani Asgonkar, Pradnya Magdum, Vaishnavi Chinde, Aishwarya Edke, Akshata Naik Development of 7H-pyrrolo[2,3-d]pyrimidin-4-amine derivatives using QSARINS tool as BTK inhibitors for treatment of Rheumatoid arthritis. *Anti-Inflammatory & Anti-Allergy Agents in Medicinal Chemistry* (Scopus & WOS Indexed) Cite Score: 3.0, ISSN (Print): 1871-5230, ISSN (Online): 1875-614X Publisher-Bentham Published on: 28 November, 2023; 22 (4) : 236-249.

27. Dr. Shashikant V. Bhandari, Pranali V. Kuthe, Shital M. Patil, Om G. Nagras, Aniket P. Sarkate, Somdatta Y. Chaudhari, Sandip V. Surve Molecular docking, pharmacokinetic and Molecular simulation analysis of novel Mono-carbonyl Curcumin analogues as L858R/T790M/C797S mutant EGFR inhibitors. *Chemistry & Biodiversity* (Scopus & WOS indexed) Publisher-Wiley Impact factor :2.9, Volume: 20, Issue : 11, Online ISSN:1612-1880 -<https://doi.org/10.1002/cbdv.202301081> First published: 04 October 2023

28. Asgaonkar K., Chitre T, Patil S, Shevate K, Sagar A, Ghate D, Shah P. Green Chemistry and In-silico Techniques for Synthesis of Novel Pyranopyrazole and Pyrazolo-pyranopyrimidine derivatives as Promising Antifungal Agents 2<sup>nd</sup> Jan 2024, *Recent Advances in Anti-Infective Drug Discovery Formerly Recent Patents on Anti-Infective Drug Discovery* (Scopus & WOS indexed), Volume 19, Number 3, 2024, pp. 216-231(16) <https://doi.org/10.2174/0127724344269458231124123935> ISSN (Print)-2772-4344, ISSN (Online)-2772-4352

29. Kalyani D. Asgaonkar, Shital M. Patil, Trupti S Chitre, Arati Prabhu ,Krishna S. Shevate, Ashwini K. Sagar, Akshata P. Naik. Use of Pharmacophore modelling, 3D-atom-based QSAR, ADMET, docking and molecular dynamics studies for the development of Psoralen based derivatives as Antifungal agents. *Anti- Infective agents*, Bentham, Volume 22, Issue 3, 2024 Jan 2024, Pages 15. Cite score 1.2, (WOS & Scopus indexed), SNIP-0.276, SJR-0.15, ISSN-2211-3525 DOI: 10.2174/0122113525279683231228130206.

30. Shital M. Patil, Kalyani D. Asgaonkar, Shashikant Bhandari, Vrushali Randive, Indrani Mahadik, Piyush Nikhalje "Pharmacophore optimisation using pharmacophore mapping,

QSAR, Docking and ADMET screening of novel pyrimidines derivatives as anticancer DNA Inhibitors, Letters in Organic Chemistry, Published on: 14 May, 2024, Volume 22, Issue 1, 2025, 37 - 55 DOI: 10.2174/0115701786301475240503071147.

31. Shital M. Patil, Kalyani D. Asgaonkar, Shashikant Bhandari, Vrushali Randive, Indrani Mahadik, Aishwarya Edake. Rational Drug Discovery for Isoxazole Based VEGFR2 inhibition, Current drug discoveries and technologies 2024 May 24. doi: 10.2174/0115701638296906240522072628.
32. Kalyani D. Asgaonkar\*, Parth A. Shah, Akshata P. Naik, Dipti D.Ghate, Gajanan P. Rathod, Shubham S. Kachare, Shital M. Patil, Trupti S.Chitre. In Silico Development of Pyrimidine-Based Antifungal Compounds Using 3D-QSAR, ADMET and Molecular Docking Approaches, YMER, Volume 23, Issue 11, 2024, 463-479, ISSN: 0044-0477.
33. Kalyani Asgaonkar\*, Parth Shah, Akshata Naik, Dipti Ghate, Trupti Chitre, Shital Patil Green and Computational Chemistry Synergy in the Development of Chromene Compounds for Antifungal activity, YMER, Volume 23 : Issue 12 (Dec) – 2024, ISSN: 0044-0477.
34. Shital Patil\*, Kalyani Asgaonkar, Shashikant Bhandari, Aishwarya M. Edake, Harun Patel, Bhau Patil, Iqrar Ansari, Indrani Mahadik, Omkar Kamble, and Navnath Gavande Integrated Computational Approach for Designing Potent EGFR TK Inhibitors: QSAR, Docking, ADMET and Molecular Dynamics Studies. Chem. Biodiversity **2025**, e202403150.
35. Kalyani Dhirendra Asgaonkar\*, Akshata Parashram Naik, Parth Anil Shah, Dipti Dattatry Ghate, Shubham Sandeep Kachare, Gajanan Pandit Rathod, Shital Manoj Patil, Trupti Sameer Chitre, Krishna Shevate and Kalirajan Rajagopal Designing of Pyrazole Derivatives Using 3D-QSAR, ADMET, Molecular Docking and MD Simulations for Enhanced Antibacterial Properties DOI: 10.2174/0115701786360412250709155912 In Press. Available online July 18, 2025 Letters in Organic Chemistry , Bentham , IF=1, Scopus, WOS Indexed, SJR=0.23, Quartile- Q4, H index =33
36. Design, Synthesis, and Biological Evaluation of pyrano[2,3-c]pyrazole Derivatives as Potential Antibacterial Agents Current topics in chemistry (Bentham Publisher) Published on: 21 August, 2025 Article ID: e29504023394798

DOI: 10.2174/0129504023394798250812051630 ISSN-2950-4023 (print), ISSN-2950-4031 (online)

37. Shital M. Patil, Shashikant Bhandari, Ashwini Madgulkar, Smita Pawar, Rajesh Yadala, Ipathi Rao Urma, Exploring 1,3,4-oxadiazole-chalcone hybrids as dual EGFR-resistant mutant inhibitors and antioxidants through in-silico and synthetic approaches, *Journal of Molecular Structure*, Volume 1349, Part 3, 2026, 143907, ISSN 0022-2860 <https://doi.org/10.1016/j.molstruc.2025.143907>.
38. Dr. Shashikant V. Bhandari, Om G. Nagras, Shital M. Patil, Yash Shimpi, Somdutta Y. Chaudhari, Smita C. Pawar, Exploring Ionic Liquid-Based Methods in the Synthesis of Benzimidazole-1,3,4-Oxadiazole Derivatives for EGFR Inhibition, designed using a Comprehensive Molecular Docking and Dynamics Study, *Journal of Molecular Structure*, 2025, 143981, ISSN 0022-2860, <https://doi.org/10.1016/j.molstruc.2025.143981>.
39. A Systematic Review: Bibliometric and Patentometric Insights into Glutathione Peroxidase 4 Innovations in Cancer Treatment, *Clinical Cancer Drugs*- Accepted

## **PRESENTATIONS:**

As an Author: 09

As an Co-author: 30

### **❖ As an Author:**

1. Poster presentation on, 'Docking studies, Synthesis, Characterization and Pharmacological Evaluation of New Conjugates of Isatin' at Zonal Level (AVISHKAR-2008 held at Baburaoji Gholap College Sangvi Pune) during 24<sup>th</sup> to 25<sup>th</sup> September 2008. Won II<sup>nd</sup> prize for the same.
2. Same Poster presentation (AVISHKAR-2008) at Pune University during 29<sup>th</sup> -30<sup>th</sup> November 2008.
3. Poster Presentation in Regional research Conference on Development of Anti-HIV Agents at INNOVATION-2015 sponsored by Savitribai Phule Pune University Board of College & University Development (BCUD) held at Sinhgad College of Pharmacy, Vadgaon Pune on 29<sup>th</sup> & 30<sup>th</sup> July 2015.
4. Poster Presentation in Regional research Conference on Development of Anti-HIV Agents at INNOVATION-2016 sponsored by Savitribai Phule Pune University, Board of College & University Development (BCUD) held at Marathwada Mitra Mandal's College of Pharmacy, Thergaon, Pune on 27<sup>th</sup> September 2016.

5. Shashikant Bhandari, Shital Patil\* Poster Presentation competition on 'Pharmacophore Development Using In-Silico Approach For Anticancer Drugs As EGFR Inhibitors' at AICTE Sponsored national conference Organised by Dadasaheb Balpande College of Pharmacy Date: 3<sup>rd</sup> and 4<sup>th</sup> September 2021 (Online) Conference theme: Pharma QBD product development perspective.
6. Shashikant Bhandari, Shital Patil\* Oral Presentation on 'In Silico Approach a robust and effective way to attain optimized pharmacophore for novel EGFR inhibitors' at International e-conference organised by Dr. M S Gosavi Pharmaceutical Education and research, Nashik Date: 27-29<sup>th</sup> September 2021 Conference theme:Pharmaceutical research and innovation to tackle future healthcare Arena.
7. Shital Patil, Shashikant Bhandari presented a work in oral presentation (PhD Category) in 3<sup>rd</sup> Student research congress 2022 organised by Dr. Bhanuben Nanavati college of pharmacy co-hosted by University of Mumbai on 28<sup>th</sup> September 2022.
8. Presented work as oral presentation at 10th international science congress, multidisciplinary International conference sponsored by UGC & Shivaji university, Kolhapur organised by International science community association in collaboration with Dadasaheb Jotiram Godse Arts Commerce Science College, Vaduj, khatav held on 9th December 2022.
9. Presented work as Poster presentation at Zonal level SPPU sponsored AVISHKAR 2022 organised by AISSMS College of Engineering on 8<sup>th</sup> December 2022.

❖ **As a co-author:**

1. Poster presentation on, 'Phalazine Derivatives- Modeling, Synthesis & Antihypertensive Activity, AVISHKAR-2012, at Zonal Level on 10/12/2012 held at Fergusson College, Pune. Presented by-Apurva Bhatambrekar, Bhakti Joshi Guided by- Shital Patil
2. Poster presentation on 'A comparative study of stress among female players of athletics & swimming' at 2 days UGC sponsored National Conference held at Yashvantrao Chavan Institute of Science, Satara during 22<sup>nd</sup>-23<sup>rd</sup> August 2014
3. Poster Presentation at Avishkar 17<sup>th</sup> October 2014, Development of Benzimidazole nucleus for anti HIV activity using QSAR studies; Presented by- Vedika Bhat, Sayali Ethape; Guided by- Shital Patil, Kalyani Asgaonkar held at Sinhgad College of Pharmacy, Narhe, Pune.
4. Poster Presentation on Design of New Benzimidazole Derivatives For Anti-HIV Activity Using QSAR Studies Shital Patil\*, Trupti Chitre, Kalyani Asgaonkar Annual National Convention of Association of Pharmaceutical Teachers of India, Pune 28<sup>th</sup>- 30<sup>th</sup> Nov.2014 held at Balewadi, Pune
5. Mrs. Shital M. Patil, Ms. Aditi Kinnikar, Ms. Chaitali Kharat, Ms. Vaibhavi Bhoirekar, Ms.Mitali Katkar, Ms. Madhura Athavale Presented a poster entitled 'Use of QSAR for

optimization of Thiazolidinone pharmacophore for Anti-HIV activity' in one day state level poster presentation competition 'SYNAPSE 2016' held at AISMS College of Pharmacy, Pune on 14<sup>th</sup> October 2016.

6. Mrs. Shital M. Patil, Pratiksha Deodhar, Chitali Shah, Shruti Lohakare, Sanjana Shah, Surekha Kadam Presented a poster entitled 'Comparative study of different QSAR models for pharmacophore optimisation of 2-nitropyrrole based 1,3,4 oxadiazole derivatives for anti-TB activity' in one day state level poster presentation competition 'SYNAPSE 2016' held at AISMS College of Pharmacy, Pune on 14<sup>th</sup> October 2016.
7. Shital M. Patil, Sharvari Kshirsagar, Meghana Mokashi Vaibhav Ghegade, Nimishraj Panse, Kalyani D. Asgaonkar Presented a poster entitled 'Use of QSAR for optimization of Thiazolidinone pharmacophore for Anti-HIV activity' in one day state level poster presentation competition 'SYNAPSE 2016' held at AISMS College of Pharmacy, Pune on 14th October 2016. State level.
8. Mrs. Shital Patil, Ms. Vaibhavi Bhoirekar, Ms. Madhura Athavale Presented a poster entitled 'Study of binding modes of thiazolidin-4-ones derivatives with various crystal structures of reverse transcriptase using molecular docking' at MetRxplore 2017 competition organized by MET College, Nashik on 11<sup>th</sup> Feb, 2017.
9. Mr. Saurabh Jadhav, Mrs. Shital M. Patil, Mrs. K.D. Asgaonkar Poster presentation at 3rd METRxPLORE 2018 (UG Research Conference) held at Bhujbal Knowledge City, MET's Institute of Pharmacy, Nashik on 17<sup>th</sup> February 2018. Received Appreciation prize for guiding this project.
10. One day State level Research Presentation Competition – Synapse 2018 on Dual Action of pyrazine-thiazolidinone based derivatives as Anti-HIV and Anti-TB using molecular docking studies held at AISSMS College of Pharmacy on 16<sup>th</sup> October 2018 (Received Winner Prize).
11. Bhairavi Bakhle ,Ayush Khater, Kshitija Abhang, K. D. Asgaonkar, S. M Patil- Poster and Oral presentation.METRxplore 2019 at MET's Institute of Pharmacy, Nashik held on 08/02/2020. Entry Inhibitors: An unconventional approach in management of HIV using in silico studies. Received second Prize (Cash Prize and trophy) -Regional level.
12. Ayush Khater, Kshitija Abhang, K. D. Asgaonkar, S. M Patil- Poster Presentation at Avishkar 2019 , held on 21/01/2020 at SPPU. Molecular docking tool:- Development of entry inhibitors as Anti –HIV agents using Insilico tool- University level.
13. Ayush Khater, Kshitija Abhang, K. D. Asgaonkar, S. M Patil- Poster Presentation at Avishkar 2019 held on 12/01/2020 at D Y Patil College of Art, commerce and science. Development of entry inhibitors as Anti –HIV agents using Insilico tool- -Regional level.
14. Bhairavi Bakhle, K. D. Asgaonkar, S. M Patil- Poster Presentation at Avishkar 2019 held on 21/01/2020 at SPPU. Molecular docking tool:-Comparative study of some Pyrazine- Thiazolidinone Derivatives as Entry Inhibitors in treatment of HIV- University level.
15. Bhairavi Bakhle, K. D. Asgaonkar, S. M Patil- Poster Presentation at Avishkar 2019 held on 12/01/2020 at SPPU. Molecular docking tool:-Comparative study of some Pyrazine-

Thiazolidinone Derivatives as Entry Inhibitors in treatment of HIV-Regional level.

16. Shital Patil Kalyani Asgaonkar, Kunal Pradhan\* Poster Presentation at International e-conference organised by Dr. M S Gosavi Pharmaceutical Education and research, Nashik Date: 27-29<sup>th</sup> September 2021 Conference theme:Pharmaceutical research and innovation to tackle future healthcare Arena.
17. Shital Patil, Kalyani Asgaonkar, Mahadik Indrani, Ashwini Sagar, Purvaj Hirode, Belwate Mrunal National level digital poster making competition organized by Academic Decipher, Mumbai on 10<sup>th</sup> April 2022.
18. Varsha Patil, Vrushali Randive, Indrani Mahadik and Shital Patil, presented a work in poster presentation (PG/PhD Category) in 3<sup>rd</sup> Student research congress 2022 organised by Dr. Bhanuben Nanavati college of pharmacy co-hosted by University of Mumbai on 29<sup>th</sup> September 2022.
19. Krishna Shevate, Ashwini Sagar, Indrani Mahadik, Kalyani Asgaonkar and Shital Patil, presented a work in poster presentation (PG/PhD Category) in 3<sup>rd</sup> Student research congress 2022 organised by Dr. Bhanuben Nanavati college of pharmacy co-hosted by University of Mumbai on 29<sup>th</sup> September 2022.
20. Indrani Mahadik, Vrushali Randive, Shital Patil presented a work in E-poster Presentation at International Pharmanecia 3.E an International E-tech Fest (NPW) organised by Dr. D. Y. Patil Institute of Pharmaceutical Sciences and Research, Pune and Hosted by Operant on 25/9/2022-30/9/2022.
21. Manjish Gupta, Indrani Mahadik, Vrushali Randhive, K.D Asgaonkar, S.M Patil presented a work in E-poster Presentation Pharmanecia 3.E an International E-tech Fest (NPW) Dr. D. Y. Patil Institute of Pharmaceutical Sciences and Research, Pune and Hosted by Operant Pharmacy Federation, 25<sup>th</sup> to 30<sup>th</sup> September 2022.
22. Krishna Shevate, K.D Asgaonkar, S.M Patil presented a work as oral presentation at Vishwa Pharma 2022 organised by Shivlingeshwar College of Pharmacy, SRTUM and APTI -Won Runner up award
23. Manjish Gupta, Yash Daga, Shital Patil, Kalyani Asgaonkar presented a work in State level oral presentation competition SYNAPSE-2022 organised by AISSMS College of Pharmacy on 18<sup>th</sup> November 2022.
24. Ms. Pradnya Magdum, Shital Patil, Kalyani Asgonkar presented as oral presentation at International Conference on Recent Advances on Green and Sustainable Developments (ICRAGSD-2023) organised by Green Chemistry Network Centre Chapter, Akal University , Talwandi Sabo, Bathinda, Punjab, India in collaboration with Green Chemistry network Centre (DU), Indian Chemical Society (Kolkatta), Eternal University (Baru Sahib), Synthetic Communications (Taylor and Francis) De Gruyter (Germany), DRDO (New Delhi) on 6<sup>th</sup>-8th September 2023 (Received Third position as Best Oral Presentation Award) .
25. Vaishnavi Chinde, Pradnya Magdum, Shital Patil, and Kalyani Asgonkar presented as poster presentation at Zonal level research project competition- AVISHKAR 2023 held at

MES Abasaheb Garware College, Pune on 27<sup>th</sup> October 2023.

26. Ms. Pradnya Magdum, Shital Patil, Kalyani Asgonkar presented as oral presentation entitled 'QSAR studies: One Step Forward toward Green Chemistry in Drug Discovery for Rheumatoid Arthritis' at International Conference on Recent Advances on Green and Sustainable Developments (ICRAGSD-2023) organised by Green Chemistry Network Centre Chapter, Akal University , Talwandi Sabo, Bathinda, Punjab, India in collaboration with Green Chemistry network Centre (DU), Indian Chemical Society (Kolkatta), Eternal University (Baru Sahib), Synthetic Communications (Taylor and Francis) De Gruyter (Germany), DRDO (New Delhi) on 6<sup>th</sup>-8th September 2023 (Received Third position as Best Oral Presentation Award) .
27. Vaishnavi Chinde, Pradnya Magdum, Shital Patil, and Kalyani Asgonkar presented as poster presentation at Zonal level research project competition- AVISHKAR 2023 held at MES Abasaheb Garware College, Pune on 27<sup>th</sup> October 2023.
28. Kalyani Asgaonkar, Mrs S M Patil, Sweta Singh et al 4th student research congress organized by BNCP ,co hosted by Univ of Mumbai and Industry partner ACG world and scitech 8th Dec 2023.
29. Kalyani Asgaonkar, Mrs S M Patil, Rajas Seth et al 4<sup>th</sup> student research congress organized by BNCP ,co hosted by Univ of Mumbai and Industry partner ACG world and scitech 8<sup>th</sup> Dec 2023.
30. Vaishnavi Rathod\*, Omkar Kamble, Mrs. Shital Patil participated and submitted an abstract at the Oral Presentation Competition (PG-category) in 5<sup>th</sup> Student Research Congress (Virtual), held on 20-21<sup>st</sup> December, 2024.

#### **CONFERENCES/ SYMPOSIA/CONVENTIONS ATTENDED:**

1. Attended (BCUD) INNOVATION 2015 regional research conference for Savitribai Phule Pune University College Teachers on 29<sup>th</sup> June 2015 organized by Sinhgad College of Pharmacy, Vadgaon, Pune.
2. Attended (BCUD) INNOVATION 2016 regional research conference for Savitribai Phule Pune University College Teachers on 27<sup>th</sup> September 2016 organized by Marathwada Mitra Mandal's College of Pharmacy, Thergaon, Pune.
3. Attended one day state level poster presentation competition "SYNAPSE 2016" organized by AISSMS College of Pharmacy on 14<sup>th</sup> October 2016.
4. Three days 19<sup>th</sup> Annual national Convention of Association of pharmaceutical Teachers of India on 'Emerging trends in pharmacy profession & Education' held at Balewadi Pune on 28<sup>th</sup> -30<sup>th</sup> November 2014.

#### **WORKSHOPS / SEMINARS/REFRESHER COURSE ATTENDED:**

1. University of Pune Sponsored One day workshop on ‘Challenges & Opportunities in Pharmaceutical Research’, held at Modern College of Pharmacy- Nigdi, Pune on 25<sup>th</sup> November 2008.
2. University of Pune Sponsored One Day workshop on ‘Effective Implementation of Curriculum’ for teachers of pharmaceutical Chemistry at Sinhgad Technical Education Society's Smt. Kashibai Navale College of Pharmacy, Kondhwa, Pune on 10<sup>th</sup> October 2009.
3. AICTE Sponsored Quality Improvement Two Week Programme for Pharmacy teachers entitled ‘Emerging Frontiers in Drug Discovery’ held at Bharati Vidyapeeth University Poona College of Pharmacy from 01<sup>st</sup> to 13<sup>th</sup> February 2010.
4. International seminar on MDR/XDR tuberculosis: A health care menace to developing countries, at Sinhgad Cop, Vadgaon ,pune./ univ. of Pune on 22<sup>nd</sup> - 24<sup>th</sup> March 2013.
5. Two day state level seminar, ‘Qbd in formulation development’ at AISSMS College of Pharmcay, Pune. Sponsored by Savitribai Phule Pune University on 21<sup>st</sup> & 22<sup>nd</sup> January 2015.
6. One day Faculty orientation workshop on Understanding API technology as per savitribai phule Pune University, T. Y. B. Pharm. curriculum organized by Dr. D. Y. Patil Institute of Pharmaceutical Sciences & Research, Pimpri on 12<sup>th</sup> Sept. 2015.
7. One day state level seminar sponsored by Savitribai Phule Pune University on ‘Role of Medicinal Chemist and Phytochemist in Drug Discovery’ on 12<sup>th</sup> Feb. 2016 at AISSMS College of Pharmacy, Pune.
8. One day seminar on ‘Strategies for Empowerment of Women Associated with healthcare Profession’ jointly organized by M.C.E. Society’s Allana College of pharmacy, Pune and Association of Pharmaceutical Teachers of India (Women Forum) on 8<sup>th</sup> March 2016 at Allana College of pharmacy, Pune.
9. One day state level seminar sponsored by Savitribai Phule Pune University on ‘Insight on different funding agencies and research proposal writing’ on 31<sup>st</sup> January 2017 at AISSMS College of Pharmacy, Pune.
10. One day state level faculty Training workshop on ‘Teaching with animations’ Jointly organized by M.C.E. Society’s Allana College of pharmacy, Pune and Association of Pharmaceutical Teachers of India Maharashtra Branch on 10<sup>th</sup> May 2017 at Allana College of pharmacy, Pune.
11. AICTE sponsored Two Weeks QIP programme on Advances in Drug Discovery and Pharmaceutical Sciences: A Research Perspective from 5<sup>th</sup> to 17<sup>th</sup> February 2018 at Bharati Vidyapeeth's Poona College of Pharmacy, Pune
12. F.Y. B. pharm. and F. Y. M. Pharm. Curriculum Orientation programme held on 17<sup>th</sup> October 2018 at Shankarrao Ursal College of Pharmaceutical sciences and Research Center
13. Attended a national level conference sponsered by TLC SPPU on ‘A contemporary approach towards teaching and learning medicinal chemistry’ organised by Bharatiya

Jain Sanghatana's Arts, Science and Commerce College, Wagholi, Pune from 19th Dec 2019-21st Dec 2019

14. Attended International FDP on 'Cuurent scenario: Pharmacy practice and technology' organised by AISSMS College of Pharmacy from 17/06/2020 to 21/06/2020.
15. FDP on building research and Innovation culture among Pharmacy Teachers One Week from 18<sup>th</sup> May to 22<sup>nd</sup> May 2020.Organised by D.Y Patil Institute with APTI.
16. FDP on 'Teachers and Ethics: Balance in Research, Teaching, Socio-professional values and Attitude One Week from 20th May 2020 Organised by M.S. Gosavi College of Pharmaceutical Education and reasearch.
17. National level online e-faculty development programme on Insights of basic techniques and recent advances in pharmaceutical education and research : Application perspective Four days from 26th May 2020 to 30th May 2020Organised by Shrinath College of Pharmacy and Indian Pharmaceutical Association (Aurangabad branch)
18. Faculty development programme on comprehensive Quality initiatives for higher education in pandemic era Four days from 26thmay 2020-30th May 2020 organised by Uka Tarsadia University Internal Assurance cell, Surat
19. Attended webinar Getting Ready for Post Lockdown Life, Pune on 17th may 2020 organised by Dr. D. Y. Patil College of Pharmacy, Akurdi
20. Attended webinar on Opportunities and challenges in rebuilding the education sector in post COVID 19 era and effective use of ICT tools in teaching and learning process held on 17th May 2020Conducted by Shri Dhaneshwari Shaishanik sankul, Aurangabad
21. Attended webinar on Research grant Funding organised by APTI and conducted by Vandana Patravale on 9thMay2020 By APTI
22. Online workshop on 'Enhancing Research Effectiveness using Scopus, Sciencedirect and Mendeley' on 1st May 2020 organized by Faculty Development Centre, Kurukshetra University, under the scheme of Pandit Madan Mohan Malaviya Nation Mission on Teachers and Teaching (PMMMNMTT) Attended Webinar on "Statistical Discovery For Teaching and Research" on 9th May 2020 organized by IQAC of AISSMS College of Pharmacy
23. 'e FDP-Pedagogy and challenges in Pharmaceutical Research' organised by Maharaja College of Pharmacy, Vizianagaram from 1st to 12th June 2020.
24. 'Prepping tommorrow's teachers' Jointly organized by Pharmacy Council of India and KLE Academy of higher education and research on 6th June 2020.

25. e FDP International Webinar on current scenario:Pharmacy practices and techniques from 17<sup>th</sup> to 21<sup>st</sup> June 2020
26. Syllabus orientation workshop Jointly organised by Savitribai Phule Pune University and Dr. D.Y. Patil Institute of Pharmaceutical sciences and research, pimpri, Pune on 22nd June 2020.
27. AICTE Training And Learning (ATAL) Academy Online FDP on "Emotional Intelligence" 2020-10-19 to 2020-10-23 organised by Marathwada Mitra Mandal's College of Pharmacy.
28. AICTE Sponsored one week short term teachers training programme on Digital Pedagogy 14-9-2020 to 19-9-2020 organised by SVKMs Dr. Bhanuben Nanavati college of pharmacy.
29. eFDP-Various facets of Quality in Pharmaceutical industry, on 8<sup>th</sup> May 2021 organised by AISSMSCOP.
30. National webinar on 'Applications of Molecular modeling in Drug Discovery on 29th April 2021 organised by MNR College of pharmacyMNR College of pharmacy
31. One Day National Conference on "QSAR and Molecular Docking in Drug Discovery" on May 25, 2021 organised by Dr. Rajendra Gode Institute of Pharmacy, Amravati.
32. AICTE Training And Learning (ATAL) Academy Online Elementary "5 Days Faculty Development Programme (FDP) On Innovation Management" Indian Institute of Information Technology Allahabad, Prayagraj from 2021-07-12 to 2021-07-16.
33. Two week Quality Improvement programme on "Synthetic & Natural products for Drug Discovery in 21st Century : Innovations for Novel drug developement" Organised by KLE College of Pharmacy, Belagavi from 16<sup>th</sup> to 28<sup>th</sup> August 2021
34. National Webinar on "Pharmaceutical Quality Assurance" organised by IQAC of AISSMS College of Pharmacy on 25<sup>th</sup> Feb 2022.
35. National level Faculty Development programme on New edge educational standards for teachers organised by MET's institute of pharmacy in Association with APTI from 14<sup>th</sup>-18<sup>th</sup> February 2022.
36. Short Term Training Programme (STTP) through ICT Mode on Thesis and Research Paper Writing organised by National Institute of technical teachers training and research (NITTR) Kolkatta conducted by National Institute of technical teachers training and research (NITTR) Kolkatta from 21st February to 25th February, 2022.
37. One Day National Webinar on "NAAC-Roadmap for Quality Sustenance and Quality

improvement in Higher Education Intuitions” organised by IQAC, AISSMS College of Pharmacy in Academic Collaboration with NAAC on 25th January 2022.

38. Attended 2 days research grant proposal writing workshop conducted by Dr. D. Y. patil Institute of Pharmaceutical sciences and research, Pimpri, Pune and CliMed Research Solutions, India, in collaboration with world youth heart federation, India, on August 20-21, 2022.
39. Participated in AWSAR Webinar on the topic ‘Understanding popular science writing’ conducted on 10<sup>th</sup> August, 2022.
40. Attended FDP on Computer aided drug design by Center for advance computational chemistry studies , Delhi 23<sup>rd</sup> -29<sup>th</sup> January 2023.
41. Attended SPPU sponsored National level workshop on Implementation of National Educational policy 2020: Adoption of guidelines on NHEQF and Curriculam framework and credit system for four year undergraduate programme organised by D.Y. Patil College of Pharmacy, Akurdi, Pune on 13th 1and 14th February 2023.
42. Attended national conference on Recent trends and challenges in drug discovery organised by Birla Institute of Technology and science, Pillani 3<sup>rd</sup> and 4<sup>th</sup> March 2023.
43. Attended, MSBTE approved National level e-Faculty Development Program on “Implementing ER 2020: Challenges and Opportunities” organized by MET’s Institute of Pharmacy, Nashik in association with APTI (MS), on 7th and 8<sup>th</sup> July 2023
44. Participated in Webinar On “TRENDS IN DRUG DESIGN AND DISCOVERY” Organized By Sharadchandra Pawar College Of Pharmacy, Otur Held On 26<sup>th</sup> August 2023
45. For Participating In Online Symposium On “ Role of Artificial Intelligence in Diagnosis of Disease and Drug Development .” Organized By Sharadchandra Pawar College Of Pharmacy, Otur Held On 9<sup>th</sup> September 2023.
46. Attended the Online International Faculty Development Program “Empowering Educators: Advancements in Technology, Research and Entrepreneurship” organised by AISSMS College of Pharmacy in Association with APTI held on 27<sup>th</sup> October 2023
47. Attended one day webinar on ‘Elementary principle of pharmaceutical research and technology for budding pharmacist’ under the aegis of IQAC cell @ MSGCOPER, Nashik on 25<sup>th</sup> November 2023.
48. Attended two day national level workshop on Small Molecule Drug Discovery and Molecular Modelling and Ligand Based Drug Discovery organised by AISSMS COP on

18<sup>th</sup> & 19<sup>th</sup> July 2023.

49. National FDP on 'Bridging Academia by Advancing Research and Teaching with AI and Machine Learning' by Dept. of E & TC Engg., Dr. D. Y. Institute of Technology, Pimpri, Pune in association with ISTE New Delhi from 1st July to 5th July 2024.
50. National FDP on 'Harnessing Artificial Intelligence (AI) to revolutionize pharmaceutical education and research' by PP Savani University School of Pharmacy from 5<sup>th</sup> August - 9<sup>th</sup> August 2024.
51. National FDP on Pedagogy, research and Evaluation Strategies for pharmaceutical Education and Workforce by Saveetha Institute of medical and technical Sciences, Saveetha College of Pharmacy from 19<sup>th</sup> to 23<sup>rd</sup> August 2024.
52. International FDP on 'Insights into Drug Discovery, Development and Regulation' by AISSMS College of Pharmacy from 26<sup>th</sup> Dec 2024 to 2<sup>nd</sup> Jan 2025.
53. International FDP on 'Unlocking Horizons in Global Multidisciplinary Healthcare Research' by PES Modern College of Pharmacy Nigdi, Pune from 10<sup>th</sup> to 12<sup>th</sup> March 2025.

#### **TRAINING PROGRAMMES COMPLETED:**

1. Two days Product training conducted by V-Life Sciences Technologies at AISSMS College of Pharmacy on V-life MDS Software required for Molecular modeling Studies during 6<sup>th</sup> to 7<sup>th</sup> July 2015.
2. MOOCS/Swayam courses - 4 Weeks online Swayam Course on 'Stress management' in the month of September 2019
3. MOOCS/Swayam courses - 4 Weeks online Swayam Course on 'Body Language' on 18<sup>th</sup> December 2020
4. 4 weeks Swayam Course on cognition and transformation lives NPTEL Government of India in August-November 2021
5. UGC mandated course in Research and Publication Ethics organised by Center for publication Ethics of Savitribai Phule Pune University 15th June-14th July 2021
6. MOOCS/Swayam courses - Completed paid FDP from 2022-06-14 to 2022-06-20 on GChemPaint organized by IIT Bombay - Spoken Tutorial with course material provided by Spoken Tutorial Project, IIT Bombay.
7. **MOOCS/Swayam courses** - Completed paid FDP from 2023-06-26 to 2023-07-11 on Jmol Application organized by IIT Bombay - Spoken Tutorial with course material provided by Spoken Tutorial Project, IIT Bombay

8. **MOOCS/Swayam courses** - Completed paid FDP from 15/6/2024-21/6/2024 on Moodle LMS organized by IIT Bombay - Spoken Tutorial with course material provided by Spoken Tutorial Project, IIT Bombay
9. **MOOCS/Swayam courses** - Completed paid FDP from 01-07-2025 to 30-07-2025 on Gedit Text Editor organized by IIT Bombay - Spoken Tutorial with course material provided by Spoken Tutorial Project, IIT Bombay

#### **GUEST LECTURES DELIVERED:**

1. Delivered a lecture on the topic ‘Career opportunities in Pharmacy after std 12<sup>th</sup>’ organised by AISSMS Shri Shivaji preparatory military day school and Junior college- Career guidance on 4<sup>th</sup> May 2021.
2. Delivered a lecture on the topic ‘Stress Management’ organised by SBNM Rajgad college of pharmacy, Mahad on 19<sup>th</sup> May 2021.
3. Delivered a lecture on the topic ‘Scope of Pharmacy’ organised by SSPMS Day school on 02-02-2022.
4. Delivered a lecture on the topic ‘Scope of Pharmacy’ organised by SSPMS Day school on 18-01-2024.

#### **AREA OF RESEARCH**

- Design, Synthesis, Biological evaluation of anti-convulsant agents.
- Design, Synthesis, Biological evaluation of anti-tubercular agents.
- Design, Synthesis, Biological evaluation of anti-HIV agents.
- Design, Synthesis, Biological evaluation of anti-cancer agents.

Design, Synthesis, Biological evaluation of anti-inflammatory and anti-oxidant agents.

#### **AWARDS AND ACHIEVEMENTS**

1. Received cash prize for securing highest marks in Pharmaceutical Microbiology (Second year B. Pharm.)
2. Received Certificates for securing First rank in S. Y. B. Pharm. & Third Rank in T. Y. & Final year B. Pharm. in academics.
3. Received Second prize for the Poster presentation of AVISHKAR 2008 at zonal level

4. Received Appreciation certificate as a guide for Poster presentation competition METXPLORE 2018 held at Bhujbal Knowledge City, MET's Institute of Pharmacy, Nashik on 17th February 2018.
5. Received Appreciation certificate and cash prize as a guide for oral presentation competition Synapse 2018 held at AISSMS College of Pharmacy, Pune on 16<sup>th</sup> October 2018.
6. Received 2<sup>nd</sup> prize as a guide for Poster and Oral presentation.METRxplore 2019 at MET's Institute of Pharmacy, Nashik on 02-08-2020
7. Won 2<sup>nd</sup> Prize as a guide at 1<sup>st</sup> Student Research Congress under the theme“ Innovations for Better Health SVKM's Dr. Bhanuben Nanavati College of Pharmacy and Co-hosted by University of Mumbai,28<sup>th</sup> -30<sup>th</sup> Sept 2020
8. Won Second runner up prize in Poster Presentation competition in AICTE Sponsored national conference on 'Pharmacophore Development Using In-Silico Approach For Anticancer Drugs As EGFR Inhibitors' from 3<sup>rd</sup> to 4<sup>th</sup> September 2021 organised by Dadasaheb balpande College of Pharmacy.
9. Won 3<sup>rd</sup> Prize as a guide at national level Digital poster making competition on the topic 'Ocean Energy-The power of future' organised by Academic Decipher.
10. Won runner up prize as guide for National Level Oral Presentation competition organised by Shivlingeshwar College of Pharmacy, SRTUM and APTI on 1/10/2022.
11. Won the Second cash prize of Rs 3,000/- and certificate in 10<sup>th</sup> International Science congress (Multidisciplinary International conference sponsored by UGC & Shivaji University, Kolhapur, Organised by International science community Association in collaboration with Dadasaheb Jotiram Godse Arts Commerce Science College, Vaduj, Khatav, Satara on 9<sup>th</sup> December 2022.
12. Received Third position as Best Oral Presentation Award (as guide) at International Conference on Recent Advances on Green and Sustainable Developments (ICRAGSD-2023) organised by Green Chemistry Network Centre Chapter, Akal University , Talwandi Sabo, Bathinda, Punjab, India in collaboration with Green Chemistry network Centre (DU), Indian Chemical Society (Kolkatta), Eternal University (Baru Sahib), Synthetic Communications (Taylor and Francis) De Gruyter (Germany), DRDO (New Delhi)on 6<sup>th</sup>-8th September 2023.
13. Received First Position in Oral presentation competition (UG category) at 4<sup>th</sup> Student Research Congress under the theme“ Innovations for Better Health organised by SVKM's Dr. Bhanuben Nanavati College of Pharmacy and Co-hosted by University of Mumbai and Industry partner ACG World and Scitech centre on 8<sup>th</sup> and 9<sup>th</sup> December 2023.
14. Received Second Position in Oral presentation competition (PG category) at 4<sup>th</sup> Student Research Congress under the theme“ Innovations for Better Health organised by SVKM's Dr. Bhanuben Nanavati College of Pharmacy and Co-hosted by University of Mumbai and Industry partner ACG World and Scitech centre on 8<sup>th</sup> and 9<sup>th</sup> December 2023.
15. Received Third Position in Oral presentation competition (UG category) at 4<sup>th</sup> Student Research Congress under the theme“ Innovations for Better Health organised by SVKM's

Dr. Bhanuben Nanavati College of Pharmacy and Co-hosted by University of Mumbai and Industry partner ACG World and Scitech centre on 8<sup>th</sup> and 9<sup>th</sup> December 2023.

16. Received Winner prize in In house research project competition on ‘Optimisation of pharmacophore for activity against rheumatoid arthritis using QSARINS software’ presented by Vaishnavi Chindhe, Pradnya Magdum, Kalyani Asgaonkar, Shital Patil organized by AISSMS COP.
17. Received Best Project Guide prize under CADD subject for the topic ‘Unlocking the Potential: Computational Studies on Indolylpropyl benzamidopiperazines for Alzheimer’s Dual Inhibition Therapy in June 2024. (Students names: Mansi Prabhune, Vrushali Sabale, Rajas Sheth, Vaishnavi Shitole, Prachi Thombare, Shital Patil).