



Dr. Bhushan D. Varpe

Indian Patent Agent (IN/PA 3384), M. Pharm., Ph.D. (Pharm. Chem.)

I am a Patent agent (India) having experience working on searching and drafting patents in the field of Pharmaceutical Sciences. I have experience in communicating with inventors for processing their inventions for application for grant of the patent, filing reply to FER being a patent agent. Experience in developing search queries, using patent classification systems (IPC/CPC) for searching and analysis of patent documents on espacenet, Patentscope, Google patent, Thompson innovation, Patseer, Patbase, freepatentsonline, patent office journals, etc. databases. I have also studied US patent cases and read many US patent documents while understanding those cases.

Especially skilled in Medicinal chemistry, Patents, Process development for APIs, Cheminformatics, LC-MS/MS, and Bioanalytical research. Published more than 12 research papers in reputed journals with the publisher like Springer Nature, Taylor, and Francis, Bentham science, etc, co-authored a book, and delivered lectures at the invitation of various organizations, as well as academic institutes. Reviewer of journals including Medicinal Chemistry Research, Indian Journal of Pharmaceutical Education and Research, Journal of Computational Biophysics and Chemistry, etc. More than 6 years of research experience including a 'Research fellow' on ICMR (Indian Council of Medical Research) funded research project for three years, around one year as a 'Research analyst' in Synapse Labs Pvt. LTD in the bioanalytical research department and as a Ph.D. research scholar.

Being an IP professional interested to work on Pharma/life science patent searching, drafting, and performing various studies related to IPR.

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CAREER OBJECTIVE	To face the global challenges, develop my knowledge and skills with a progressive & nurturing organization.	
AREA OF INTEREST	Patents, Chemical Science, Pharmaceutical Sciences, Research & Development	
PERSONAL INFORMATION	Date of birth: 18/06/1992 Marital status: Single	Languages: Marathi, Hindi & English.
ACADEMIC QUALIFICATION	<ul style="list-style-type: none">❖ Ph.D. (2017-2022) Pharmaceutical Chemistry, S. P. Pune University, Pune, Maharashtra, India.❖ M. Pharmacy (2013-2015) Pharmaceutical Chemistry, Sinhgad Institute's SKNCOP, Pune, Maharashtra, India.❖ B. Pharmacy (2009-2013) PDEA's SUCOP, Kharadi, Pune, Maharashtra, India.	
ACHIEVEMENT	<ul style="list-style-type: none">❖ Qualified in Patent Agent Exam 2018.❖ Qualified in GPAT 2017 Score: 141, AIR: 746.❖ Qualified in GPAT 2015 Score: 147, AIR: 1044.❖ Received fellowship from ICMR. (2017-2020).❖ Qualified in PET (S.P. Pune University).	<ul style="list-style-type: none">❖ H-index: 4❖ Publications: 12❖ Book: 1❖ Seminars/ Presentation: 9❖ Delivered lectures as invited speaker: 3❖ Experience: Research: 6 years Patents searching, filing, drafting, etc: 3 years
EXPERIENCE	<ul style="list-style-type: none">❖ Research fellow on an ICMR funded research project (March 2017-March 2020)❖ Student of "Patinformatics" at CSIR-URDIP (Council of Scientific and Industrial Research-Unit for Research and Development of Information Products). (8 months)❖ Trainee research associate at Synapse Labs Pvt. Ltd. in the bioanalytical research department. (11 months and 16 days)❖ Industrial training at T.Walker's Pharmaceutical PVT. LTD., Pirangut. (1 month)❖ Reviewer of journals Ex. Medicinal Chemistry Research, Indian Journal of Pharmaceutical Education and Research, Journal of Computational Biophysics and Chemistry, etc.	
PROJECT WORK	<ul style="list-style-type: none">❖ Ph.D.: Research work on "Docking, Synthesis, Characterization and biological Activity of Mannich base of indole-2,3-dione derivatives."❖ M.Pharm: Research work on "Synthesis and studies on novel Au/Ce nanocomposites as a catalyst with their application in the synthesis of heterocycles."❖ B. Pharm: Research work on "Review on Nanosuspensions and Nanoemulsions."	
PATENTS	<ul style="list-style-type: none">❖ Thiophene and isatin containing derivatives. Indian Patent App. No. 202121042000	
PUBLICATIONS	<ol style="list-style-type: none">1. Bhushan D. Varpe & Anil S. Mali, Aloe vera Compositions Used for Medicinal Applications: A Patent Review (2013-till 2020). <i>Recent Patents on Food, Nutrition &</i>	

- Agriculture*, 2021, 12(2), 104-111. (**Bentham Science**)
2. **Bhushan D. Varpe** & Shailaja B. Jadhav, Schiff Base of Isatin with 2-Thiopheneethylamine and its Mannich Bases: Synthesis, Docking and In Vitro Anti-Inflammatory and Antitubercular Activity, *Russian Journal of Bioorganic Chemistry*, 2022 (Accepted manuscript) (**Springer Nature**)
 3. **Bhushan D. Varpe**, Amol A. Kulkarni, Shailaja B. Jadhav, Anil S. Mali, & S. Y. Jadhav, Isatin Hybrids and Their Pharmacological Investigations. *Mini Reviews in Medicinal Chemistry*, 2021, 21(10), 1182-1225. (**Bentham Science**)
 4. N. A. Peerzade, S. Y. Jadhav, **Bhushan D. Varpe**, Amol A. Kulkarni, & Bhosale, R. B. Green Synthesis, Molecular Docking, In Silico ADME and Biological Evaluation of Methoxy Substituted 1, 5-Benzodiazepines as Potential Antioxidant, Anti-Inflammatory, and Antidiabetic Agents. *Polycyclic Aromatic Compounds*, 2021, 1-14. (**Taylor & Francis**)
 5. **Bhushan D. Varpe** & Shailaja B. Jadhav, Schiff Base Conjugate of 5-Fluoroisatin with Thiophene-2-Ethylamine and its Mannich Bases: Synthesis, Molecular Docking, and Evaluation of in vitro Anti-inflammatory and Anti-tubercular Activity. *International Journal of Pharmaceutical Investigation*, 2021, 11(2), 189-194.
 6. S. Y. Jadhav, N. A. Peerzade, M. G. Hublikar, R. B. Bhosale, **Bhushan D. Varpe**, and A. A. Kulkarni Synthesis and pharmacological screening of difluorophenyl pyrazole chalcone conjugates as antifungal, anti-inflammatory and antioxidant agents, *Russian Journal of Bioorganic Chemistry*, 2020, 46, 6. (**Springer Nature**)
 7. **Bhushan D. Varpe**, Shailaja B. Jadhav, Bando C. Chatale, Anil S. Mali, Shravan Y. Jadhav, Amol A. Kulkarni 3D-QSAR and Pharmacophore modeling of 3,5-disubstituted indole derivatives as Pim kinase inhibitors, *Structural Chemistry*, 2020. (**Springer Nature**)
 8. Nargisbano Peerzade, Shravan Jadhav*, Raghunath Bhosale, Amol Kulkarni and **Bhushan Varpe**, "Synthesis, Docking, in silico ADMET and Pharmacological Evaluation of Some N-acetyl Pyrazole and Quinoline Conjugates", *Letters in Drug Design & Discovery*, 2020, 17. (**Bentham Science**)
 9. S. Y. Jadhav, N. A. Peerzade, R. G. Gawali, R. B. Bhosale, Amol A. Kulkarni, **Bhushan D. Varpe**, Green synthesis and biological screening of some fluorinated pyrazolechalcones in search of potent anti-inflammatory and analgesic agents, *Egyptian Pharmaceutical Journal*, 2020, 19, 172-181. (**Wolters Kluwer-Medknow**)
 10. Amol A Kulkarni, **Bhushan D Varpe**, Maruti V Pise, Vrushali A Kulkarni. Ligand Based Pharmacophore Modeling, Docking and ADME Prediction of Substituted Indole 2, 3 Diones as NNRTI's. *Inventi Impact: Molecular Modeling*, 2017, 2017, 4, 159-165.
 11. Amol A Kulkarni, Maruti V Pise, **Bhushan D Varpe** et al. Docking, Synthesis, ADME Prediction and β -Lactamase Inhibitory Activity of Some 2-(5-H/ chloro-((piperazin-1-yl-methyl)-2-oxoindolin-3-ylidene)-N-substituted Hydrazine Carbothioamides. *Inventi Impact: Med Chem*, 2018, 2018, 1, 10-15.
 12. Amol A Kulkarni, **Bhushan D Varpe**, Maruti V Pise et al. Design, Pharmacophore Modeling, Docking Study and ADME Prediction of Substituted 2-{3-[(diethylamino)methyl]-2-oxo indenyldene} hydrazinecarbothioamide as Non-Nucleoside Reverse Transcriptase Inhibitors. *Inventi Rapid: Molecular Modeling*, 2018, 2018, 2, 1-7.

BOOKS

Concise course in Pharmacology-I, S. Vikas and Company (Medical Publishers)

LECTURES

- ❖ Delivered invited lecture for the webinar on "Introduction to IPR with emphasis on

DELIVERED	<p>Patents” organized by Ateos Foundation of Science Education and Research in association with CLINI INDIA.</p> <ul style="list-style-type: none"> ❖ Delivered invited lecture for the webinar on “Introduction to Intellectual Property Rights” organized by Pratibhatai Pawar College Of Pharmacy, Shrirampur, Maharashtra 413709. ❖ Delivered lecture on invitation at “THIRD IP” on compulsory licensing of patents on 14th March 2020. Pune.
SEMINARS/ POSTER PRESENTATION	<ul style="list-style-type: none"> ❖ Won the third prize in research paper presentation (oral) in the P.A.H. Solapur University, Solapur Sponsored International Conference on “Emerging Trends In Pharmaceutical Chemistry” at D.B.F. Dayanand College of Arts & Science, Solapur. (24th & 25th January 2020) ❖ Oral presentation at International e-Conference on Developments in Chemical, Biological & Environmental Sciences (DCBES-2021) (28-30th June 2021) ❖ Poster presentation at “International Conference on Recent Trends in Pharmaceutical, Medical and Applied Science for Global Development” (28th & 29th January 2021) ❖ Presented research paper in S. P. Pune University Sponsored International Conference on “Multidisciplinary healthcare research: Challenges, Opportunities and newer directions” at PES’s Modern College of Pharmacy, Pune, 411044. (4 & 5 January 2019) ❖ Participated in a two-day state level seminar ‘Chemistry for Society’ at BJS College, Wagholi, Pune. ❖ Poster presentation in “Young minds in pharmaceutical innovation” at MAEER’s Maharashtra Institute of Pharmacy, Pune on 21-22 March 2014. ❖ Poster presentation competition in National Pharmacy Week (NPW) 2014. ❖ Participated in Avishkar 2013 (Research project competition University of Pune). ❖ Poster presentation in ‘Bravura -A Pharma Tech Fest’ (Sinhgad karandak).
COURSES	<ul style="list-style-type: none"> ❖ PCT Distance Learning Course “Introduction to the Patent Cooperation Treaty” from WIPO academy.
SKILLS	<ul style="list-style-type: none"> ❖ Searching and analysis of patent documents. (Google patent, Patbase, Thompson Innovation, Parseer, Freepatentsonline, patent office journals, etc.) ❖ Organic compound (small molecule) synthesis. ❖ Computer-Assisted Drug Designing (CADD), Handled software like Vlife MDS (for Molecular modeling, Docking, etc.), Discovery studio, Autodock And also other software like chemsketch, Marvin sketch. ❖ Handling chemical structure databases (Scifinder, Reaxys, Marpat, ChemSpider, PubChem, etc). ❖ Practical and theoretical knowledge analytical instruments used in chemistry laboratory, like UV, HPLC/UPLC, IR, DSC, LC-MS/MS, etc. ❖ Solid-phase extraction, liquid-liquid extraction, protein precipitation, nanocatalysis, formulation, chromatography, method development and validation, various solvent evaporation technique, interpretation of data from UV, NMR, mass spectroscopy.
<p><u>DECLARATION:</u> I hereby conclude that the above-mentioned information is true to the best of my knowledge.</p>	