

**Dr. Joohee Pradhan**

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<b>Academic Profile:</b>
<ul style="list-style-type: none"><li>• Ph. D. in the year 2016 from Pacific Academy of Higher Education and Research University, Udaipur under the Supervision of Prof. Anju Goyal.</li><li>• Master of Pharmacy in the year 2008 from Devi Ahilya Vishwavidyalaya, Indore M.P. under the guidance of Prof. Rajesh Sharma</li><li>• Bachelor of Pharmacy in the year 1999 from Vikram Vishwavidyalaya, Ujjain, M. P.</li><li>• Qualified GATE four times in the years 2000, 2001, 2002, 2003 and 2006.</li></ul>
<b>Teaching Experience: 18 Years</b>
<ul style="list-style-type: none"><li>• From February 2012 till date as Assistant Professor of Pharmaceutical Sciences, Mohanlal Sukhadia University Udaipur; holding regular position</li><li>• From July 2009 to February 2012 as Assistant Professor at Geetanjali Institute of Pharmacy, Udaipur, Rajasthan.</li><li>• From July 2000 to July 2006 as Lecturer at Devi Ahilya College of Pharmacy, Indore, M. P.</li></ul>
<b>Area of research:</b>
<ul style="list-style-type: none"><li>• Pharmaceutical and Medicinal chemistry</li><li>• Organic Synthesis</li><li>• Computer Aided Drug Design (CADD)</li></ul>
<b>Research Exposure/ Projects Undertaken:</b>
<ul style="list-style-type: none"><li>• <b>Major research project</b> entitled “Conjunction Based Drug Design Approach in Search of Third Generation Antiepileptics: Design, Synthesis, Anticonvulsant Evaluation and Computer Aided Drug Design Studies of 4-(5-phenyl-1H pyrazol-3-yl)benzenamine derivatives” <b>worth INR 50 lakhs funded by Rashtriya Uchchar Shiksha Abhiyan (RUSA), MHRD, New Delhi.</b> vide Sanction No. F/RUSA/Gen/MLSU/2020/6380.</li><li>• <b>During PhD:</b> Synthesis, Biological Evaluation and Computer Aided Drug Design Studies of some novel Pyridine Containing Pyrazoles.</li><li>• <b>During M. Pharm.:</b> Combined anti diabetic effect of Metformin and <i>Pterocarpus marsupium</i> on alloxan diabetic rats.</li><li>• In Vitro <math>\alpha</math>-Amylase Inhibitory and In Vivo Antidiabetic Activity of <i>Abelmoschus esculentus</i> (L.)</li><li>• Computer aided molecular modeling studies of new 2-Arylcarbonyl-3-trifluoromethylquinoxaline 1, 4-Di-N-oxide derivatives and their reduced analogues.</li></ul>
<b>Research Guidance:</b>
<ul style="list-style-type: none"><li>• Guided more than 50 undergraduate projects.</li><li>• Guiding PhD scholars under direct supervision.</li><li>• Guided a junior research fellow under a major Research project.</li></ul>

**Academic Events Organized:**

- Organized DST sponsored one day National Seminar on Industrial Advancement and Academic Research: A Correlation” as Organizing Secretary.
- Organized International Congress on “Plant based natural products: Phytocosmetics, Phytotherapeutics and Phytoneutraceuticals” (In collaboration with Indian Society of Chemists and Biologists, Local chapter, Udaipur (Raj.) and International Society of Phytocosmetic Science, Bostan, USA)
- Organized “IBRO-APRC Associate School of Neuroscience” on “Neurological Disorders: Advances in Research Techniques & Management” from August, 5th to 11th 2019 funded by International Brain Research Organization, France.
- Organized a Global webinar on “Career Options for Pharmacy Graduates” held on June 13th, 2020 at Department of Pharmaceutical Sciences, MLSU, Udaipur (Raj.)
- Organized a one-day webinar on “Inspire and Lead through communication” on December 7<sup>th</sup>, 2020

**Contribution to Institutional Committees:**

- Coordinator, All India Survey of Higher Education (AISHE), MLSU
- Member, Institutional Quality Assurance cell (IQAC), MLSU
- Member, Institutional Animal Ethical Committee (IAEC), MLSU
- Member, Committee of Courses in Pharmaceutical Sciences, MLSU
- Member, Staff Club executive committee, MLSU

**Publications:**

- Research and Review articles in international journals: 24
- Book Chapters: 03
- Book: 01
- Patents: 02
- Papers /posters presented in conferences: 50

**Memberships:**

- Life Member, Association of Pharmaceutical Teachers of India (APTI)
- Life Member, Association of Pharmacy Professionals (APP)
- Life Member, Indian Society of Chemists and Biologists (ISCB)

**Awards/Recognition for Research:**

- **Eminent Women Researcher Award 2022** at International Conference on Post COVID Era of Pharmaceutical Industries by Operant Pharmacy Federation, Operant Scientific Pvt. Ltd.
- **Prof. R. S. Paroda Best Presentation Award** (Second Prize) for "Molecular Modeling and Computer Aided Drug Design Studies of Novel Imidazopyridine Derivatives as Potential Antidiabetic GSK3 $\beta$  Inhibitors" in VII-Rajasthan Science Congress- A National Conference on “Current Scenario in Science and Technology: Facing the Challenges and Creating Opportunities” organized by University College of Science, MLSU, Udaipur (Raj.)
- Awarded Third prize (Poster Presentation) in National Conference on "Medicinal Chemistry Perspective in Drug Discovery and Therapy" at Pacific College of Pharmacy, Udaipur (Raj)
- Acted as reviewer in various journals of international repute belonging to Elsevier, Springer, Plos one, Bentham etc.
- Chaired Scientific Sessions in various National and International Conferences.

### Awards/Recognition for Extension:

- Invited talk on All India Radio in the show "Chai pe Charcha: COVID 19 Vaccine par"
- Keynote Speaker in Pharmacist Day celebration at Sangam University, Bhilwara, Rajasthan.
- Resource person in APP 6th Indo-US Conference on Recent advancements in Pharmaceutical Research for global Healthcare, Association of Pharmacy Professionals organized by B.N. University, Udaipur (Raj.)
- Speaker (Topic: IPR in Pharmacy Profession) in "DST Sponsored National Seminar on Intellectual Property Rights in Pharmacy" at B.N. Institute of Pharmaceutical Sciences, Udaipur
- Extension Lecture on 'Understanding the rational use of medicines: General Considerations' at Dept of Biotechnology, MLSU
- Extension Lecture on 'Rational use of Antibiotics' at Dept of Biotechnology, MLSU
- Extension Lecture on 'General Awareness for Rational use of Drugs' at Dept of Biotechnology, MLSU
- Jury member and judge in various academic events.

### Orientation/Refresher/ Faculty Development Programs/ Trainings Etc.

- Completed Online Refresher Course in Chemistry for Higher Education Faculty on SWAYAM Platform conducted by Sri Guru Teg Bahadur Khalsa College, Delhi.
- Completed two weeks Faculty Development Program on Advances in Survey, Statistical and Analytical Tool in Research Methodology offered by Aishwarya College of Education, Udaipur.
- Completed UGC- Sponsored Refresher Course In Environmental studies offered by Maharshi Dayanand Saraswati University, Ajmer.
- Completed UGC- sponsored Refresher course offered by UGC- Academic Staff College, Devi Ahilya Vishwavidyalaya, Indore.
- Underwent BiotechNika Schrodinger joint workshop on Computer Aided Drug Discovery
- Underwent 10 days e-workshop on Molecular Docking conducted by Biodiscovery Group, Life Sciences, India.

### KEY PUBLICATIONS: DR. JOOHEE PRADHAN

#### JOURNAL ARTICLES

1. Shivali Singla, Joohee Pradhan, Reena Thakur, Sachin Goyal, Drymaria cordata: Review on its pharmacology, phytochemistry and pharmacological profile, *Phytomedicine Plus*, Volume 3, Issue 3, 2023, 100469, ISSN 2667-0313, <https://doi.org/10.1016/j.phyplu.2023.100469>.
2. Srivastava R, Patel PS, Dev SK, Pradhan J, Panchawat S. Insight to combat post covid mortality: Complications and their biomarkers. *Current Molecular Medicine*. 2022 Aug. PMID: 35959906. <https://doi.org/10.2174/1566524022666220812111830>
3. Shivali Singla, Abhishek Jana, Reena Thakur, Chinu Kumari, Sachin Goyal, **Joohee Pradhan**, Green synthesis of silver nanoparticles using *Oxalis griffithii* extract and assessing their antimicrobial activity, *OpenNano*, Volume 7, 2022, 100047, ISSN 2352-9520, <https://doi.org/10.1016/j.onano.2022.100047>.  
(<https://www.sciencedirect.com/science/article/pii/S235295202200010X>)
4. Kapoor Kapish, Das Vishnu, Bhatnagar Ayushi, Panchawat Sunita and Pradhan Joohee\*, An In-silico Multi-Targeted Approach in Search of Potential Drug Candidate( s) Against SARS-CoV-2 Lung Infection, *Coronaviruses* 2022;3(6): e021222211552 .  
<https://dx.doi.org/10.2174/2666796704666221202143702>

5. Das Vishnu, Bhatnagar Ayushi, **Pradhan Joohee**, Herbal remedies for prophylaxis of Covid-19: A critical review on chemistry and pharmacology of eleven domestic herbs, April 2022, International Journal of Pharmaceutical and Clinical Research 4 (1); 7-18. ISSN 0975 1556.
6. **Joohee Pradhan**, Ranjan Kumar Singh, Ajay Garg, Khushboo Shrimali, Vivek Jain, Saurabh K. Sinha, A brief review on Solanum xanthocarpum along with phytochemical and pharmacological profile. Advance Pharmaceutical Journal 7(1); 2022/2; 23-31.
7. Sunita Panchawat **and Joohee Pradhan**; Comparative Evaluation of Antiulcer Activity of *Ficus religiosa* (Stem Bark) Extracts Prepared by Different Methods of Extraction. Current Traditional Medicine. 6(4); 351 - 359 (2020). ISSN: 2215-0846 (Online); 2215-0838 (Print) DOI: <http://dx.doi.org/10.2174/2215083805666190328210119>
8. Akshat Sharma\* and **Joohee Pradhan** The Role of Stakeholders in Determining Patient Safety in Indian Hospitals: A Review, Journal of Hospital Pharmacy 15(2) April to June, 2020 (Supplement Issue-A), 14-25. ISSN:2348-7704
9. **Joohee Pradhan\*** and Sunita Panchawat, "Molecular Docking Studies and Pharmacophore Modeling of Some Insulin Mimetic Agents from Herbal Sources: A Rational Approach towards Designing of Orally Active Insulin Mimetic Agents", Current Traditional Medicine 2020, 6 (2), 121-133. <https://doi.org/10.2174/2215083805666191001220342>
10. Vishnu Das, Sourabh Kheechi, **Joohee Pradhan**, and Peeyush Sharma, Analytical Method Development and Its Validation For Estimation of Chlorhexidine Gluconate, Metronidazole Benzoate, Lignocaine Hydrochloride and Salicylic Acid By UV-Visible Spectrophotometry as Bulk and in Combined Dosage Form. International Journal of Pharmaceutical Research and Bio-Science, 2019; Volume 8(4): 94-130. ISSN: 2277-8713
11. **Joohee Pradhan** and Sunita Panchawat, Herbal Therapies for Epilepsy: Chemistry, Biology and Potential Applications of Selected Plants and Compounds, Chemistry & Biology Interface, 2018, 8 (4), 205-224. ISSN 2249-4820
12. Panchawat S. and **Pradhan J.**, Carica Papaya: Nature's Gift Hamper for Man, European Journal of Biomedical and Pharmaceutical Sciences, 2018, 5(3), 206-212. ISSN 2349-8870
13. **Pradhan Joohee** and Goyal Anju, Synthesis of 2-substituted isonicotinoyl chlorides in a regioselective manner, International Journal of Scientific Research and Reviews 2017, 6(3), 78 – 88. ISSN 2279–0543
14. **Joohee Pradhan** and Anju Goyal, Synthesis, anticonvulsant activity and QSAR studies of some new pyrazolyl pyridines, *Medicinal Chemistry Research*, 2016, 25:1639–1656. ISSN 1054-2523. DOI: <https://doi.org/10.1007/s00044-016-1597-8>
15. **Joohee Pradhan** and Anju Goyal, Synthesis of some nuclear substitution derivatives of 4-acetyl pyridine, *International Journal of Pharmaceutical Chemistry and Analysis*, 2015; 2(3):113-119. ISSN 2394-2789
16. **Joohee Pradhan** and Anju Goyal, A Regioselective Synthesis of Ethyl-2-chloropyridine- 4-carboxylate, *Journal of Chemistry and Chemical Sciences*, 2015, 5(8): 476-479. ISSN 2229-760X
17. **Joohee Pradhan** and Anju Goyal,  $\beta$ -diketones: Important Intermediates for Drug Synthesis, *International Journal of Pharmaceutical Research & Allied Sciences*, 2015, 4(2):01-18. ISSN 2277-3657

## BOOK CHAPTERS:

1. Pradhan, J., Paliwal, P., Panchawat, S., Trivedi, R., Gayakwad, D. (2023). Phyto-Constituents as Potential Leads for the Development of Novel Antiepileptic Drugs. In: Arunachalam, K., Yang, X., Puthanpura Sasidharan, S. (eds) Bioprospecting of Tropical Medicinal Plants. Springer, Cham. [https://doi.org/10.1007/978-3-031-28780-0\\_34](https://doi.org/10.1007/978-3-031-28780-0_34)
2. Kapoor, K., Jain, P., Pradhan, J. (2023). Plant Metabolites as New Leads to Herbal Drug Discovery: Approaches and Challenges. In: Arunachalam, K., Yang, X., Puthanpura Sasidharan, S. (eds) Bioprospecting of Tropical Medicinal Plants. Springer, Cham. [https://doi.org/10.1007/978-3-031-28780-0\\_31](https://doi.org/10.1007/978-3-031-28780-0_31)
3. Singh, R.K., Panchawat, S., Prasada Rao, C.M.M., Pradhan, J., Tanniru, R., Bairagee, D. and Garg, A.K. (2023). The Junction of Biomaterials and Gene Therapy – Current Strategies and Future Directions. In Integration of Biomaterials for Gene Therapy (eds R. Malviya, S. Sundram and N. Jain). <https://doi.org/10.1002/9781394175635.ch11>

## BOOK AUTHORED:

1. Industrial Aspects of Organic and Inorganic Chemistry, First Edition: 2021, Mahi Publication, Ahmedabad, ISBN: 978-93-90651-14-6

## PATENTS:

1. South African patent “Atrovastatin Ethosomes Topical Gel Based Drug Delivery System” Inventors: Bhagyashree Agarwal Gajendra Kumar Gautam, Shivendra Agarwal, **Joohee Pradhan**, Sunita Panchawat, Dimak Chand Sahu, Satendra Kumar, Virendra Kumar Patel, Deepak Sharma, Devshree Gayakwad, Sweta Shrivastava, Anamika Singh; Publication date: 2022/3/29 Patent Application number 2022/03599.
2. Indian Patent “Synthesis and Analysis of Cefcapene Pivoxil by using Different Solvent” Inventors: Vibhor Kumar Jain, Rita Mourya, Bindu Jain, Neelesh Kumar, Ankit Mishra, **Joohee Pradhan**, Garima Joshi, Sunita Panchawat, Dileep Kumar, Girendra Kumar Gautam, Vikas Kumar. Meghna Katariya, Anshika Aggarwal, Sana Khan, Dimak Chand Sahu. Publication date:2022/3/11; Application number: 202221008706 A

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