



# Dr. Priyanka Kamaria

Research | Drug Design | Teaching

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## Profile Summary

- A focused professional with **11** years of experience in teaching in reputed institutions and **2** years of experience in Research as UGC Research Project Fellow
- Proficient in Ligand based and Structure based drug design**, In-Silico ADME profiling, QSAR, Docking, Pharmacophore Mapping, Homology Modeling, Virtual Screening and Network Pharmacology
- Extensive experience in **teaching various subjects like** Computer Aided Drug Design, Principles of Drug Discovery, Chemistry of natural products to M.Pharm and Organic Chemistry, Biochemistry, medicinal chemistry to B. Pharm and Pharm D students
- Impressive success in preparing lecturers, tutorials, ensuring formulation of accurate**, informative, relevant study material while quickly sizing up the assignments, setting priorities, creating a timeline, and delivering lectures of high-quality content for students within defined timeframes
- Excellence in managing university activities like Theoretical and Experimental Studies, Laboratory Works, Experiential Learning, Workshops, Knowledge Sharing Sessions, thereby engaging students towards advancements
- Integrated emerging technologies in drug design research; actively engaged in scientific meetings and literature review, contributing to 10 publications and 2 conference proceedings.
- A forward-thinking person with strong communication, analytical & organizational skills**; well organized with a track record that demonstrates self-motivation & creativity to achieve goals

## Core Competencies

Research & Development	Teaching/ Academic Operations	Drug Design
Laboratory Practices	Document Review & Formulations	Research Guidance
Curriculum Design	Stakeholder Engagement	Team Management

## Computational Tools & Software Expertise

- CADD Software- Schrodinger (Glide, Phase), PyRx, Molegro, Autodock, Gromacs, ligand scout, See SAR, Modeller, Pymol, Avagadro, MOE, Swiss ADME, Chem office, discovery studio, PKCSM tool
- Databases-NCBI, Swiss-Prot, PDB and chemical compound databases like Pubchem, Zinc ,ChEMBL, ChemSpider
- Programming language-Python(pursuing certification course)
- Operating system- windows and Linux(Ubuntu), Microsoft Office, (Word, Excel, and PowerPoint), Window XP

## Work Experience

Nov-2025 to present| Associate Professor| Jan'21- Oct-2025 | Assistant Professor | KLE College of Pharmacy, Bengaluru, Karnataka

**College Committees responsibilities**-Coordinator of UDEHP, Coordinator of IDP-Research committee, Coordinator of Code of Conduct and Professional ethics monitoring committee, coordinator of institutional Plagiarism committee, Incharge of criteria -1 of NBA, member of internal complaint committee, coordinator of KLEAN committee, member of B.Pharm Sessional Committee, member of QCI criteria-2, **NAAC criterion-3**(committee Member-2021), **NAAC criterion-7** (Committee Member-2022-to present),

### Key Result Areas:

- Delivering lectures to undergraduate students on Biochemistry, Medicinal Chemistry and to PG students on computer aided drug designing, Advanced medicinal Chemistry and various others subjects using effective methods of teaching with focus

- on student needs
- Providing Professors and Department Heads feedback on student's progress
- Conducting research and publishing papers in academic journals
- Creating and implementing experimental learning, class instruction, lesson and student assessment in conjunction with state learning standards; setting exam question papers with relevant schemes of marking.
- Participating in various programs such as member for NAAC committee in institution, participated in meetings and provided suggestions for improvement

#### Highlights:

- Approved PhD guide and PG guide (M Pharm) by KLE university of higher education and society (KAHER), Belagavi, Karnataka,
- Published 06 manuscript in peer-reviewed Journal, 1 book chapter in Wiley Online and 01 poster in national Conference demonstrating Novel findings.

**Sep'16 – Dec'20 | Assistant Professor | East West College of Pharmacy, Bengaluru**

#### Key Result Areas:

- Imparted teaching lesson on subjects like Principles of Drug Discovery to M.Pharm and Medicinal Chemistry, Organic Chemistry, Pharmaceutical Analysis to B. Pharm and Pharm Ds.

**Jul'15 – Jun'16 | Assistant Professor | Indore Institute of Pharmacy, Indore**

#### Key Result Areas:

- Delivered lectures on subjects like Medicinal Chemistry, Inorganic Chemistry & Organic Chemistry
- Participated in different institutional activities like- member of RGPV Exam Question bank Committee, GPAT Exam Committee

#### Highlights:

- Published 01 manuscript in peer-reviewed Journal and 01 poster in International Conference demonstrating Novel findings

**Feb'10 – Dec'10 | Lecturer | Swami Vivekanand College of Pharmaceutical Education, Indore**

#### Key Result Areas:

- Taught different subjects like Medicinal Chemistry, Pharmaceutical Analysis and Pharmaceutical Chemistry
- Proactively participated in different Institutional activities like worked as Seminar organizing Committee member and in other documental works

### Research Fellow

**Dec'10 – Dec'12 | UGC Research Project Fellow | Shri Govindram Seksaria Institute of Technology & Science, Indore, MP**

#### Key Result Areas:

- Evaluated Novel drug targets of Plasmodium falciparum
- Managed Computer Aided Drug Design i.e. Pharmacophore model generation and 3D-QSAR study (using PHASE module of Schrödinger Molecular Modelling Suit)
- Performed virtual screening studies using different databases like ASINEX PHASE database of Schrödinger software, ZINC, PUBCHEM and Maybridge database
- Conducted docking study using different software like Autodock, GLIDE, and MOLEGRO

#### Highlights:

- Developed knowledge of different drug design software along with their working and result interpretation
- Founded research gap in Antimalarial drug development
- Published 3 manuscripts in peer-reviewed Journal demonstrating novel findings

### Education

- Ph.D. (Medicinal and Pharmaceutical Chemistry)** from Shri Govindram Seksaria Institute of Technology and Science, Indore (M.P.) affiliated to **Rajiv Gandhi Proudyogiki Vishwavidyalaya (RGPV)**, Bhopal, M.P. in 2019
- M.Pharm. (Medicinal and Pharmaceutical Chemistry)** from Shri Govindram Seksaria Institute of Technology and Science, Indore, (M.P.) affiliated to **Rajiv Gandhi Proudyogiki Vishwavidyalaya (RGPV)**, Bhopal, M.P. in Jan. 2010
- B.Pharm.** from Smriti College of Pharmaceutical Education, Indore (M.P.) affiliated to **Rajiv Gandhi Proudyogiki Vishwavidyalaya (RGPV)**, Bhopal, M.P. in 2007

### Thesis

#### PhD thesis- Computer Assisted Design, Synthesis and Biological Evaluation of Antimalarial Agents

- Designed naphthoquinone derivatives on basis of pharmacophore mapping, QSAR and ADME evaluation done on compounds taken from literature, with help of PHASE and QIKPROP module of Schrodinger software. Compounds were

synthesized using 5 different schemes, characterized and evaluated for antimalarial activity by syber-green based assay method.

- Benzyl amino derivatives of 1,4 naphthoquinone were found to be most potent amongst all. SAR was described on basis of activity, which can be used to design the further analogues.

## Publications & Conference Proceedings and book chapter publication

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- **Kamaria P**, Thapa S, Mani RK, Chaudhary Kurmi SP, et al. LC-MS profiling and anti-inflammatory activity of *Saurauia fasciculata* bark: network pharmacology, molecular docking, MD simulation, and in-vitro validation. **Nat Prod Commun.** 2025;20(11). doi:10.1177/1934578X251395905
- **Kamaria P**, Tiwari P, Prabhakaran P, Bhardwaj S, Kolachi K, Thapa S. Evaluation of *Quercus infectoria* phytoconstituents against oral cancer: network pharmacology, docking simulation, and in vitro cytotoxicity assay. **Food Sci Nutr.** 2025;13(9):e70857. doi:10.1002/fsn3.70857
- **Kamaria P**, Kumar U, Neogi A, Gouli N. Elucidating the mechanism of *Syzygium cumini* against Alzheimer's disease using network pharmacology, molecular docking, and experimental validation. **Int J Environ Sci.** 2025;11(17S):1541–1552.
- **Kamaria P**, Mangala KJ, Nikam AI, Singh SP, Keerthi M, Pavankumar D. In silico design and synthesis of N-heterocyclic compounds as anticancer and antimicrobial agents. **Afr J Biol Sci.** 2024;6(9):5146–5158.
- **Kamaria P**, Mukherjee B, Bartariya G, Khalilullah H, Balan P, Karodi R, et al. *Eupatorium rebaudianum* Bertoni (Stevia): investigating its anti-inflammatory potential via cyclooxygenase and lipooxygenase enzyme inhibition—a comprehensive molecular docking and ADMET analysis. **Community Pract.** 2024;21(3):118–128.
- **Kamaria P**, Guha S. A review on monkeypox disease. **Innovare J Health Sci.** 2023;11(1):1–5.
- **Kamaria P**, Kawathekar N. Design, ADME evaluation, Lewis acid catalysed synthesis and biological evaluation of 1,4-naphthoquinone derivatives as antimalarial agents. **Int J Pharm Pharm Res.** 2016;6(4):92–103.
- **Kamaria P**, Sitlani N, Bharadia P. Ligand-based pharmacophore mapping of some isonicotinohydrazide derivatives as antimicrobial agents. **Int J Pharm Pharm Sci.** 2016;8(3):80–97.
- Chaturvedi P, Valentina P, **Kamaria P**. Synthesis, characterization and biological evaluation of some novel condensed 3,6-disubstituted-1,2,4-triazolo-1,3,4-thiadiazole derivatives. **Der Pharm Lett.** 2013;5(4):344–350.
- **Kamaria P**, Kawathekar N. Evaluation of contribution of different molecular fragments on antibacterial activity of Schiff's bases of indole-3-aldehyde based on QSAR study. **Can J Chem.** 2013;91(12):1174–1178. doi:10.1139/cjc-2013-0111
- **Kamaria P**, Kawathekar N. Ligand-based 3D-QSAR analysis and virtual screening in exploration of new scaffolds as *Plasmodium falciparum* glutathione reductase inhibitors. **Med Chem Res.** 2013;23(1):25–33. doi:10.1007/s00044-013-0603-0
- Patle SK, Kawathekar N, Zaveri M, **Kamaria P**. Synthesis and evaluation of 2,4,6-trisubstituted pyrimidine derivatives as novel antileishmanial agents. **Med Chem Res.** 2012;22(4):1756–1761. doi:10.1007/s00044-012-0198-5
- **Kamaria P**, Kawathekar N, Chaturvedi P. Microwave-assisted synthesis and antimicrobial evaluation of Schiff's bases of indole-3-aldehyde. **E J Chem.** 2011;8(1):305–311.
- Maheshwari RK, Shrivastava VK, Prajapat RP, Jain A, **Kamaria P**, Sahu S. New spectrophotometric estimation of ornidazole tablets employing urea as a hydrotropic solubilizing additive. **Indian J Pharm Sci.** 2010;72(2):258–261. doi:10.4103/0250-474X.65013
- **Kamaria P**, Sitlani N, Bharadia P. Ligand-based pharmacophore mapping of some isonicotinohydrazide derivatives as antimicrobial agents. In: Proceedings of the International Conference on Innovations in Pharmaceutical Science; 2016 Feb 27–28; Indore, India.
- **Kamaria P**, Zaveri M, Kawathekar N. Molecular docking study on glitazones as PPAR- $\gamma$  agonist. In: Proceedings of International Conference on Molecular Medicine (MOLMED-2012); VIT, Vellore, India. Abstract No. ONC09.
- Published **book chapter titled** "Rational Design of Drugs for Neurodegenerative Disorders" in the book Computational Methods for Rational Drug Design, in wiley online in November-2024, <https://doi.org/10.1002/9781394249190.ch16>

## Workshops/Seminars/Poster Presentations

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- Served as resource Person(speaker) in 5 days faculty development programme on "Emerging software and applications in academics and pharmaceutical research" from 8th October 2025 – 12th October 2025 at Mallige College of Pharmacy, Bengaluru
- Attended National level UDEHP workshop on "Novel Techniques in Scientific Writing & Communications" organized by Department of Pharmaceutics, KLE College of Pharmacy, Bengaluru from 19<sup>th</sup> to 20<sup>th</sup> September-2025.
- Attended National level UDEHP workshop on "Road Map to Research" organized by Department of Pharmaceutical Analysis, KLE College of Pharmacy, Bengaluru from 22<sup>nd</sup> to 23<sup>rd</sup> March 2024.
- Attended National level workshop on "2 days intensive workshop on 1D and 2D NMR spectroscopy" organized by Dr. Prabhakar B Kore Basic Science and Research Centre(BSRC) off campus, Bengaluru in association with Department of Pharmaceutical Chemistry, KLE College of Pharmacy, Bengaluru from 20<sup>nd</sup> to 21<sup>st</sup> March 2024.
- Presented Poster on the topic "Network Pharmacology and molecular docking analysis of *Quercus infectoria*- Unveiling its potential against Oral Cancer" during a conference entitled "convention on Drug Discovery and Development", at Dayanand Sagar College of Pharmacy, Bengaluru, Karnataka, on 18<sup>th</sup> and 19<sup>th</sup> October 2023.

- Attended National level UDEHP workshop on “Stress management skills at work place” organized by Department of Pharmacy Practice, KLE College of Pharmacy, Bengaluru from 22<sup>nd</sup> to 23<sup>rd</sup> September 2023.
- Attended Faculty development program on “computer aided drug design” organized by Centre for advanced computational chemistry studies, New Delhi, India from 14<sup>th</sup> march to 20<sup>th</sup> march 2023.
- Attended National level UDEHP workshop on “Art of Scientific Writing” organized by Department of Pharmacology, KLE College of Pharmacy, Bengaluru from 4<sup>th</sup> to 5<sup>th</sup> November 2022.
- Attended E-Symposium and presented E-poster on “Integrated Approaches to Drug Discovery and Development –An Update” organized by Department of Pharmaceutical Chemistry, Manipal College of Pharmaceutical Sciences, MAHE, Manipal from 25<sup>th</sup> to 27<sup>th</sup> July 2022.
- Attended workshop on topic “Writing Learning Objectives: To Design Learner Centric Curriculum Management” organized by KLE college of pharmacy, on 9<sup>th</sup> April 2021.
- Attended the international webinar on “Social responsibility of pharma professionals in COVID 19 times” organized by Karnataka Regd. Pharmacists Association, Mysuru and R R College of Pharmacy, Bengaluru on 12 September 2020.
- Attended the international webinar on “Scope for Pharmacists in Telemedicine” organized by Karnataka Registered Pharmacists Association (KRPA) and Indian Pharmaceutical Association (IPA) Mysuru, on 4<sup>th</sup> September 2020.
- International e-Workshop on “Docking, QSAR and Molecular Dynamics” jointly organized by Department of Biotechnology, Ramaiah Institute of Technology and Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Ramaiah University of Applied Sciences, Bengaluru, Karnataka, India in association with IEEE-EMB MSRIT student chapter and SRIGEN-Society of Biotechnologists from 29 to 31 July 2020.
- Attended CPE webinar on “Understanding Practice School and Its Concept In UG Pharmacy Education” organized by pharmacy council of India, New Delhi, in association with Rajiv Gandhi University of Health Sciences, Bengaluru and JSS Academy Of Higher Education, Mysore on 23 may 2020.
- Attended National seminar on ‘Innovation in Pharmaceutical Research’ organized by East West College of Pharmacy, Bengaluru, and Karnataka on 22 February 2019.
- Attended National seminar on “Screening Strategies in Drug Discovery” organized by Shri Aurobindo Institute of Pharmacy, Indore on 14<sup>th</sup> April 2012.
- Organized AICTE sponsored national seminar on “Recent Developments in Novel Drug Delivery systems” at Swami Vivekananda college of Pharmacy, Indore, M.P., on 22<sup>nd</sup> May 2010.
- Presented poster on topic “Exenatide-an Incretin Mimetic agent” during M.P pharma meet-2007, at university auditorium, Takshshila Campus, Khandwa Road, Indore (M.P.) on 24<sup>th</sup> March 2007.
- Attended workshop on topic “GMP and its Implications for Pharmacy Students” organized by Smriti College of Pharmaceutical Education, Indore, (M.P.) on 31<sup>st</sup> march and 1<sup>st</sup> April 2005.

## Patent

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Published Indian Patent entitled “Antifungal and antibacterial activity on some fused five membered heterocyclic compounds on 02/12/2022.

## ResearchProjects

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- Two UG project each of 20,000 approved in January 2026 under KAHER vice chancellor grant, by KLE university of higher education and society (KAHER), Belagavi, Karnataka,, which are entitled as “Green Synthesis of Nitrogen-Containing Heterocycles: A Comparative Study between Eco-Friendly and Conventional Catalysts”, “AI-Guided Docking and Alkaloid Enrichment of *Phellodendron chinense* Bark Extract for Cervical Cancer Therapeutics: An In-Vitro Validation Approach”
- One Faculty Project of Rs. 100000 is ongoing which was approved on 8<sup>th</sup> October 2024 by KLE university of higher education and society (KAHER), Belagavi, Karnataka, which is entitled as “utilizing Artificial Intelligence in Retro synthesis and experimental validation for local anesthetic drugs.
- One UG Research project of Rs.10,000/- completed, which has been approved on 26<sup>th</sup> September 2023 by KLE university of higher education and society (KAHER), Belagavi, Karnataka, which is entitled as “Green analytical Application/Method for characterization of poorly soluble drugs by Hydrotropic and mixed Hydrotropic concept.
- Submitted Research project proposal entitled– “Genomics-guided green synthesis of multitarget hybrid molecules to combat drug-resistant Mycobacterium tuberculosis” as a “Principal investigator” to ICMR small grant scheme in March-2026.

## Awards & Achievements

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- Completed certification course in Machine Learning in Drug Discovery and Cheminformatics by UDEMY on 3 may 2026.
- Qualified NPTEL exam in November 2025 with an **Elite certificate and Gold badge** as secured 92% in course entitled “**Artificial Intelligence in Drug Discovery and Development**” organized by IIT Madras. Course duration-12 weeks and credit points-3
- Fellowship to work as UGC Research Project Fellow under UGC sanctioned project at SGSITS, Indore, M.P, and India

- 🌀 AICTE SCHOLARSHIP by Ministry of HRD, India during M.Pharm.
- 🌀 Qualified GATE-2007 with 89 percentiles organized by IIT, Kanpur
- 🌀 Adjudged with “Best Personality of Month” Award by S.G.M. Institute- An English & P.D. Academy, in Oct-2005
- 🌀 Working as an Editor in “Indian Journal of Pharmacy and Drug Studies” from 1<sup>st</sup> July 2022.
- 🌀 Working as a reviewer in a peer reviewed International Journals-
  - Medicinal Chemistry Research’ from October -2013 to present
  - British Journal of Pharmaceutical Research from May-2015 to present
  - Pure and Applied Chemistry from Nov-2016 to present
  - Asian Journal Of Applied Chemistry Research from January -2021 to present

## Personal Details

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**Languages Known:** English, Hindi | **Address:** 134B, 58th Cross, 4th Main, 4th Block, Rajajinagar, Bengaluru, Karnataka, India, Pin Code-560010