

Curriculum Vitae

POOJA RANI

PhD Research Scholar

Department of Pharmaceutical Sciences

Lovely Professional University, Punjab, India

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Research Interest

- Design and synthesis of novel therapeutically active compounds
- Fabrication of novel drug delivery systems
- Medicinal chemistry/Natural products/Peptide chemistry

Academic Qualifications

- Ph.D. Pharmaceutical Chemistry (2021-Present) from Lovely Professional University, Punjab, India Thesis title: *"Preparation of sulfapyridine prodrugs and their nanoscale self-assemblies for the management of rheumatoid arthritis"*
- M. Pharm in Pharmaceutical Chemistry (2019-2020) with 71.25% from B.N. University, Udaipur, Rajasthan, India
- B. Pharm. in Pharmaceutical Science (2014-2018) with 80% from Pacific Academy of Higher Education and Research University, Udaipur, Rajasthan, India

Awards/Honors

- Received BHAMASHAH AWARD from Maharana Mewar Foundation (Udaipur, Rajasthan) in 2019 for Academic excellence in Graduation.
- Consistently secured 1st rank in all terms in Graduation (B. Pharmacy, Year 2014-2018)
- Qualified the University-level PhD entrance exam with a 90% scholarship

Publications: Total impact factor: 41; Citations: 37; h-index: 4)

- Rani P, Kapoor B, Gulati M, Gupta R. Nanoscale self-assembling prodrugs of sulfapyridine for treatment of arthritis: Harnessing the dual approach. *Medical Hypotheses* 2022;165:110896. Doi: 10.1016/j.mehy.2022.110896
- Rani P, Kapoor B, Gulati M, Atanasov AG, Alzahrani Q, Gupta R. Antimicrobial peptides: A plausible approach for COVID-19 treatment. *Expert Opinion on Drug Discovery* 2022;17(5):473-87. Doi: 10.1080/17460441.2022.2050693
- Kaur R, Rani P, Atanasov AG, Alzahrani Q, Gupta R, Kapoor B, Gulati M, Chawla P. Discovery and development of antibacterial agents: Fortuitous and designed. *Mini Reviews in Medicinal Chemistry* 2022;22(7):984-1029. Doi: 10.2174/1570193X19666211221150119
- Kapoor B, Gulati M, Rani P, Gupta R. Psoriasis: Interplay between dysbiosis and host immune system. *Autoimmunity Reviews* 2022 Aug 12:103169. Doi: 10.1016/j.autrev.2022.103169
- Kapoor B, Gulati M, Rani P, Kochhar RS, Atanasov AG, Gupta R, Sharma D, Kapoor D. Lycopene: Sojourn from kitchen to an effective therapy in Alzheimer's disease. *Biofactors* 2023;49(2):208-27. Doi: 10.1002/biof.1910
- Kapoor B, Kochhar RS, Gulati M, Rani P, Gupta R, Singh SK, Machawal L, Thakur A. Triumvirate to treat mucormycosis: Interplay of pH, metal ions and antifungal drugs. *Medical Hypotheses* 2022;159:110748. Doi: 10.1016/j.mehy.2021.110748
- Kapoor B, Singh A, Gulati M, Singh SK, Rani P, Alzahrani Q, Dua K, Dureja H, Corrie L. Orchestration of obesolytic activity of microbiome: metabiotics at centre stage. *Current Drug Metabolism* 2022;23(2):90-8. Doi: 10.2174/1389200223666220211095024
- Alzahrani QE, Gillis R, Harding SE, Pinto LH, Gulati M, Kapoor B, Rani P, Singh SK, Adams GG. Potential of the triad of fatty acids, polyphenols, and prebiotics from Cucurbita against COVID-19

in diabetic patients: A review. Journal of Reports in Pharmaceutical Sciences 2022;11(1):28-40.
Doi: 10.4103/jrptps.JRPTPS_144_21

Technical Expertise

- Prodrug synthesis and development of novel drug delivery systems
- Solid and Solution phase synthesis of biologically active peptides
- Knack in executing multi-step synthesis
- Expertise in purification of organic and natural products by using chromatography techniques
- Structure elucidation of organic compounds using various analytical techniques such as NMR, HR-MS, FT-IR, UV-Visible spectroscopy, Optical rotation
- Command over ChemBioDraw, Mestrenova, BioRender and other softwares such as Microsoft Office including Word, Excel, PowerPoint, Publisher

Conferences

- Participated in the National Seminar on "Current Perspectives of Analytical Techniques in Pharmaceutical Sciences" (2014)
- Participated in "1st Convention Association Teacher of India Rajasthan State Branch" (2015)
- Participated and presented a poster session on "NANOPARTICLES" in National Conference on "Medicinal Chemistry Perspective Drug Discovery and Therapy" (2015)
- Participated in Entrepreneurship Awareness Program entitled "Entrepreneurship in Pharmacy" Sponsored by the Department of Science & Technology on 3rd-4th March 2017
- Participated in the one-day Symposium on Health Care Sector-Transition, Innovation and Challenges (2016)
- Participated in 5th Indo-West Conference on "Modern Trends in Pharmaceutical Education and Research" (2017)
- Participated in the Symposium on "Reinventing Women Leadership", (2017)
- Participated in App 4th Indo Malaysian Conference on "Future Scenario and Present trends in Drug Design and Pharmacological Aspects", (2019)
- Poster presenter in National Conference-cum-Workshop themed "Post Covid-19 Pandemic Era: Prospective shift towards Clinical and Translational Research", (2022)
- Oral presentation in National Science Day, IDEATHON, (2022)

Research Projects

- "Plants as a Source of Anti-Cancer Agents" as a part of curriculum in B. Pharm 4th year.
- "Synthesis, Characterization & Purification of Non-Proteinogenic Amino Acids and Peptides" as a part of M. Pharm Project at CSIR-IIIM Jammu.

Professional Training and Experience

- Accomplished One Month Industrial Training program in Production, Packaging, Quality control, Quality assurance, at LENUS LIFECARE PVT. LTD., Solan, H.P.
- 4-month Teaching experience as an Assistant Professor in Lovely Professional University, Jalandhar.

Personal Details

Name:	Pooja Rani
Date of Birth:	October 28, 1996
Sex:	Female
Father's Name:	Sh. Hari Krishan Sharma
Language Known:	English & Hindi
Strengths:	Scheduled, Self-starter, Confidence, Flexible

Pooja Rani
26/8/23