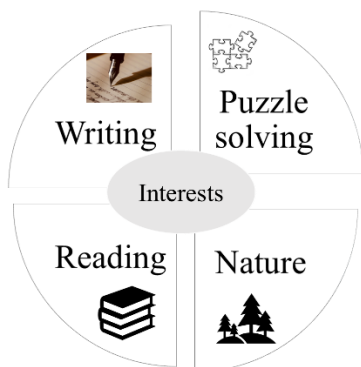




DOB: 18.10.1994
English, Hindi, Punjabi
📞 7508341203



Khushboo Pathania

*Ph.D Scholar, Pharmacology
(CSIR-JRF)*

khushboopathania693@gmail.com

www.linkedin.com/in/khushboo-pathania-0a214771

Objective

To gain new skills and knowledge through hands-on experimentation, embracing challenging life situations, studying core scientific principles, and leveraging this knowledge to propel scientific progress and benefit humanity.



Ph. D (Pharmacology)	CSIR-JRF at UIPS, Panjab University, Chd		Oct, 2021- continued
Master of Pharmacy (Pharmacology)	UIPS, Panjab University, Chd	9.10 cgpa	2019-21
Bachelor of Pharmacy	UIPS, Panjab University, Chd.	7.24 cgpa	2012-16
SSC (12 th)	CBSE	91.2 %	2012
Matriculation (10 th)	CBSE	9.4 cgpa	2010

Trainings and courses:

- **Pharmacovigilance training at PGIMER, Chandigarh (January, 2020- March, 2020).**
- **Online course of 4 weeks on 'Inside Cancer' from University of Bath, England (December, 2017).**

Key achievements:

- **First prize in poster making (master's category) in 4th IBRO/APRC School on Translational neuroscience (Nov, 2019).**
- **Qualified GPAT, 2019 and CSIR- JRF, 2019 (Rank-104).**
- **Runner's up in poster making competition, 53rd NPW, Panjab University.**
- **Participation in ICONICA-2020.**

Scholarships:

- **AICTE-masters scholarship for 2 years.**
- **CSIR doctorate research in life sciences scholarship for 5 years.**

Qualities

- Confident
- Smart-worker
- Sincere & Optimistic
- Interpersonal Skills
- Quick learner with curiosity
- Unique perspective
- Creative

Research interests

- Cancer
- Nanotechnology
- Biopolymers
- Cellular energetics

Industrial experience:

Worked in Q.A. & Regulatory at Alpha drugs, Punjab (August, 2016- Feb, 2017).

Technical skills**Instrument operation and handling**

- UV-vis spectrophotometer
- Confocal microscopy
- FTIR spectrometer
- ELISA reader
- PCR
- DSC
- Gel electrophoresis
- Biosafety cabinet

***In-vitro* cell culturing**

- Cell handling and culturing
- Cytotoxicity assays
- Metabolic assays
- DNA/RNA isolation
- Western blotting
- Cellular uptake assay

Basic rodent handling**Publications:****Research papers**

- ❑ Pathania K, Sah SP, Salunke DB, Jain M, Yadav AK, Yadav VG, Pawar SV. Green synthesis of lignin-based nanoparticles as a bio-carrier for targeted delivery in cancer therapy. *Int J Biol Macromol.* 2023 Feb 28;229:684-695.
- ❑ Pothal, P, Pathania, K., Kumar, S, Kaur, J, Sah, S. P, Singh, R, & Pawar, S. V. Lignin-chitosan biocomposite film for antimicrobial activity: Fabrication, characterization and in-vitro evaluation. *Materials Letters*, 2023 133956.
- ❑ V. Mutreja, A. Kumar, S. Sareen, K. Pathania, H. Sandhu, R. Kataria, S. V. Pawar, S. K. Mehta, J. Park, *ChemistrySelect* 2022, 7, e202200448. Aggregation-Induced Quenching of Carbon Dots for Detection of Nitric oxide
- ❑ D Kaushik, M Kaur, V Mutreja, K Pathania, DB Salunke, SC Sahoo, V. Saini, SV Pawar, SK Kansal, SK Mehta. Synthesis of quinoline based molecular probes for detection of nitric oxide *Dyes and Pigments*, 110226
- ❑ S Sharma, A Kaur, S Kumar, K Pathania, K Kumar, R Arora, S.K Mehta, et al. 2023. "Lignin Nanoparticles as a Novel Carrier for Efficacious Delivery of Toll like Receptor 7/8 Agonist: Physicochemical and In-Vitro Evaluation." *Journal of the Indian Chemical Society* 100 (5): 101008–8. <https://doi.org/10.1016/j.jics.2023.101008>.

Review papers

- ❑ Mukheja, Y., Kaur, J., Pathania, K., Sah, S. P., Salunke, D. B., Sangamwar, A. T., & Pawar, S. V. (2023). Recent advances in pharmaceutical and biotechnological applications of lignin-based materials. *International Journal of Biological Macromolecules*, 124601.
- ❑ J Garg, K Pathania, SP Sah, SV Pawar. Nanostructured lipid carriers: a promising drug carrier for targeting brain tumours. *Future Journal of Pharmaceutical Sciences* 8 (25), 1-31

Book chapters

- ❑ Brain tumor: an insight into in-vitro and in-vivo experimental models (Book Chapter, Bentham Science Publishers) K Pathania, S Sharma, SV Pawar and SP Sah.
- ❑ In-vitro models of age-related neurodegenerative diseases (Book Chapter, Bentham Science Publishers) S Sharma, K Pathania, SP Sah and SV Pawar.