ASHISH RAI

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PROFILE SUMMARY

Enthusiastic and detail-oriented M. Pharm graduate specialized in Pharmaceutical Chemistry with hands-on experience in molecular docking, in-silico drug discovery, and cancer research. Skilled in computational tools and techniques, with a strong academic foundation and active involvement in scientific research and poster presentations.

EDUCATION

Degree	Institution	Year	Grade
Master of Pharmacy (Pharmaceutical Chemistry)	Amity Institute of Pharmacy, Amity University, Noida	2021–2023	8.85 CGPA
Bachelor of Pharmacy	Pharmacy College, Azamgarh	2017–2021	8.87 CGPA
Intermediate	Govt. H.S.S. Aswaniyan, Azamgarh	2017	73%
High School	St. Xavier's High School	2014	8.4 CGPA

EXPERIENCES

Assistant Professor
MRSPTU (Maharaja Ranjit Singh Punjab Technical University)
Taught undergraduate pharmacy students and guided academic projects.
Conducted lectures on pharmaceutical chemistry and supervised lab work.
Involved in academic curriculum planning and student mentorship over a **2-year tenure**.

Research Scholar
Amity Institute of Biotechnology, Amity University, Noida
Conducted over 8000 ligand dockings using the Schrodinger Suite (Maestro, Glide) for a drug discovery project.

Hospital Trainee
Divisional District Hospital, Azamgarh
Completed 45 days of clinical training, gaining exposure to hospital operations and patient care.

PROJECTS

• Virtual Screening & Evaluation of Small Molecules – Inhibitors of TGF-β Signaling Pathway (2022–2023)
• Development of Small Molecule Inhibitors – Targeting TGF-β Ligand & Receptor (Aug 2022–Dec 2022)
• Anticancer Drug Resistance Study (Sep 2021–Jan 2022)
• Pharmacognostical & Phytochemical Study – Methanolic Extract of Ricinus communis Leaves (Apr 2020–Jul 2021)

SKILLS

• **Drug Discovery Tools:** Schrodinger (Glide), AutoDock, AutoDock Vina, Raccoon, Cygwin, GROMACS
• **Molecular Modeling & Docking:** ADMET, MM-GBSA, Drug-likeness studies
• **Visualization Tools:** PyMOL, BIOVIA Discovery Studio
• **Toxicity Prediction Tools:** SwissADME, HepatoPred-EL, Vienna LiverTox
• **Chemical Drawing Software:** ChemDraw, ChemSketch, Marvin Sketch
• **Analytical Techniques:** TLC, UV/IR Spectrophotometry, In-vitro assays
• **Productivity Tools**: MS Word, Excel, PowerPoint.

PRESENTATIONS

International Conference (PTPPBT 2023)
Poster: "Virtual Screening and Hit-Identification of Phytomolecules as Inhibitors of TGF-β Signaling Pathway"
March 17–18, 2023 | Amity University, Noida.