

Abu Hurerah Giri

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ABOUT ME

Aspiring organic chemist with a good foundation in organic synthesis, heterocyclic chemistry, and structure-based drug design, currently pursuing an M.Sc. in Organic Chemistry at Jamia Millia Islamia. Driven by a long-term goal of contributing to the discovery and development of next-generation therapeutics.

EDUCATION & TRAINING

[01/07/2024 - 30/06/2026]

Master's in Organic Chemistry

Jamia Millia Islamia

City: Delhi | Country: India | Field(s) of study: Chemistry | Final grade: 8.51

[01/07/2020 - 01/07/2024]

Bachelor's In Chemistry (Honours)

Aligarh Muslim University

Field(s) of study: Chemistry

WORK EXPERIENCE

Freelancer

City: New Delhi | Country: India

[07/2024 - Current]

PART-TIME CHEMISTRY TEACHER

- Strong command over Organic, Inorganic, and Physical Chemistry.
- Simplifies complex concepts with clarity
- Prepares students for board and competitive exams.
- Develops structured lessons and problem-solving skills.

Chegg India

Country: India

[03/03/2023 - 17/07/2024]

Subject Matter Expert

- Solved advanced chemistry problems (physical, inorganic, and organic chemistry) with precision and conceptual clarity.
- Provided thorough, original academic explanations in order to improve students' conceptual understanding.
- Made sure the responses were timely, accurate, and of a high caliber in accordance with Chegg's academic requirements.

PROJECTS

[01/01/2026 - 21/05/2026]

Synthesis, Characterization and In Silico Evaluation of N-[5-(Thiophen-3-yl) 1,3,4-thiadiazol-2-yl] Benzamide Hybrids Targeting AL Kinase.

- Applied modern drug discovery principles to the rational design, synthesis, and in silico evaluation of novel thiophene-thiadiazole benzamide hybrids targeting Anaplastic Lymphoma Kinase (ALK).
- Gained hands-on expertise in medicinal chemistry workflows, including lead design, structure-activity relationship (SAR) analysis, molecular docking, ADMET assessment, and spectroscopic characterization using ^1H and ^{13}C NMR.
- Investigated ligand-protein interactions through molecular modeling, identifying compounds with promising binding affinities (up to -8.1 kcal/mol) and favorable

drug-likeness profiles for future lead optimization.

- Strengthened proficiency in translating synthetic organic chemistry into therapeutic discovery by integrating heterocyclic scaffold design, biological target validation, and computational drug development strategies.

HONOURS AND AWARDS

[21/05/2026]

Best Master's Thesis Presentation Awarding institution: Jamia Millia Islamia

- Awarded the **Certificate of Excellence** for delivering the **Best Master's Thesis Presentation** recognizing outstanding research quality, scientific communication, presentation skills, and academic excellence.

CERTIFICATIONS

[SPARC, Ministry of Education, 31/07/2025]

Advanced Course on Medicinal Chemistry and Drug Design

- Analyzed structure-activity relationships (SAR) to optimize lead compounds
- Evaluated drug-target interactions using rational design principles
- Studied physicochemical parameter optimization and ADMET profiling
- Applied stereochemical and bioisosteric strategies in lead modification
- Gained foundational exposure to structure-based drug design and molecular modelling approaches

Mode of Learning: Project Based

Link:

https://www.linkedin.com/posts/abu-hurerah-giri-724504259_medicinalchemistry-drugdesign-sparc-activity-7358551808190959617-JkFZ?utm_source=share&utm_medium=member_desktop&rcm=ACoAAD-c6wwByE9UYQvqiWQOYi12RB0877vnE8A

[Stanford University, 03/03/2026]

Writing in the Sciences

- * Completed the course with honors
- * Developed structured scientific writing skills for research articles and reviews
- * Learned to communicate complex scientific concepts with clarity and precision
- * Strengthened literature review, critical analysis, and data interpretation abilities
- * Gained understanding of publication ethics and proper citation practices

Mode of Learning: Online

Link: <https://www.coursera.org/account/accomplishments/verify/OZDOM3A3UNQO>

[The University of Manchester, 18/03/2026]

Introduction to Molecular Spectroscopy

- * Built a foundation in quantum mechanical principles of spectroscopic transitions
- * Studied UV-Vis, IR, and NMR techniques for molecular characterization
- * Interpreted spectral data for structural elucidation and functional group analysis
- * Applied spectroscopy in reaction monitoring and mechanistic investigations
- * Strengthened skills relevant to organic and heterocyclic chemistry research

Mode of Learning: Online

Link: <https://www.coursera.org/account/accomplishments/verify/MSY8OW109HAE>

[University of California San Diego, 01/06/2026]

Drug Discovery

- Acquired comprehensive training in modern drug discovery, including target validation, lead optimization, ADMET analysis, and structure-based drug design.
- Enhanced expertise in translating chemical knowledge into therapeutic innovation, reinforcing my research focus in medicinal and organic chemistry.

Mode of Learning: Online

Link: <https://www.coursera.org/account/accomplishments/records/KRP9O0NTNFX>

[Novartis, 08/07/2026]

Introduction to Drug Hunting

- Learned the end-to-end drug discovery process — from target identification to regulatory approval
- Studied key pharmacology concepts: potency, efficacy, PK/PD, and ADME properties
- Explored hit identification, lead optimization, and toxicology/safety assessment
- Reviewed clinical trial phases (I–III) and FDA approval pathways (Fast Track, Breakthrough Therapy, Priority Review, Accelerated Approval)
- Applied concepts through real case studies on unmet medical needs and drug failures

Mode of Learning: compact-cv-editor.templates.one.certifications.learningMode.

Link: <https://www.coursera.org/account/accomplishments/verify/UF8FFHCFMICT>

SKILLS

LABORATORY SKILLS

Chromatography | Heterocyclization | SAR | Lead Optimization | Purification | Spectroscopy | IR | Functionalization | NMR | UV-Vis | Organic Synthesis | Bioisosterism | Reaction Optimization | Molecular Modelling

COMPUTATIONAL SKILLS

Discovery Studio | Mestrelab (MestreNova, Mbook) | Avagadro | ADMET prediction and analysis | AutoDock, AutoDock Vina | PyMol software for molecular visualization | good command with ChemOffice , Microsoft Office | Chimera molecular visualization

SOFT SKILLS

Teaching/Mentoring | Scientific Writing (Scientific Paper Publication) | teach chemistry

HOBBIES AND INTERESTS

FOOTBALL, BADMINTON, FOOD REVIEWER, PHOTOGRAPHY AND TRAVELLING

LANGUAGE SKILLS

Mother tongue(s): Kashmiri

Other language(s): Urdu | Hindi | English