

MUHAMMAD EHTISHAM IBRAHEEM KHAN

PhD Researcher in Organic & Green Chemistry

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Professional Summary

Innovative PhD Researcher in Organic and Green Chemistry with 4+ years of experience in synthetic organic chemistry, photochemical reactions, and sustainable process development. Proven record of peer-reviewed publications, successful international collaborations, and laboratory-to-industry project execution.

Core Competencies

- Organic Synthesis & Green Chemistry
 - Method Development & Optimization
 - Photochemistry & Microwave Reactions
 - Continuous Flow Chemistry
 - Spectroscopic Techniques: NMR, FTIR, GC-MS
 - Project & Data Management
 - Teaching & Mentoring
 - Chemdraw, Microsoft Office Suite
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Education

PhD in Chemical and Pharmaceutical Sciences and Biotechnology

University of Camerino, Italy | 2022 – 2025

Thesis: "Next-Generation Technologies for Novel C–C and C–X Bond Formation from Functionalized Nitroolefins"

MS in Organic Chemistry (Honors)

University of Wah, Pakistan | 2017 – 2019

Thesis: "Synthesis of Bio-Active Organic Fragments via Domino Pathways"

BS in Chemistry (Second Class Upper Honors)

University of Wah, Pakistan | 2013 – 2017

Professional Experience

PhD Research Intern

Indena SpA, Settala Plant, Milan, Italy | Feb 2024 – Aug 2024

- Developed scalable processes for high-potent drugs in kilo labs.
- Conducted synthetic optimization in inert conditions for API intermediates.

Visiting PhD Researcher

East China Normal University, Shanghai, China | Jun 2023 – Dec 2023

- Performed photocatalytic C-H activation of alkyl benzenes.
- Operated continuous flow photochemical reactions.

PhD Researcher

Green Chemistry Group, University of Camerino, Italy | Feb 2022 – Present

- Developed sustainable synthetic methodologies under microwave, photochemical, and flow conditions.
- Characterized heterocyclic systems and trained Bachelor-level students.
- Assisted in organizing scientific events.

Teaching Assistant

University of Camerino, Italy | Jun 2023 – Jul 2023

- Facilitated interactive sessions for international students.
- Supervised project design and execution.

Chemistry Lecturer

HITEC, Rawalpindi, Pakistan | Sep 2019 – Mar 2022

- Delivered lectures and managed laboratory sessions.
- Developed learning materials and handled student feedback analysis.

Conferences & Workshops

- 23-ICOS International Conference on Organic Synthesis, China, Oct 2023
- Labtech China Congress, Shanghai, Jul 2023
- CPHI & P MEC Expo, Shanghai, Jun 2023
- ISOS Virtual Symposium, Italy, Oct 2022
- International Workshop on Nanomedicine, Pakistan, Mar 2021
- MDSRIC Conference, Pakistan, Nov 2019

- Recent Trends in Chemistry Conference, Pakistan, Nov 2018
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Professional Memberships

- Società Chimica Italiana (SCI)
 - European Chemical Society (EuChemS)
 - Green Chemistry Teaching and Learning Community (GCTLC)
 - Chemical Society of Pakistan (CSP)
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Additional Training

- **48th A. Corbella Summer School on Organic Synthesis (ISOS 2024)**, Italy
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Awards & Grants

- Fellowship for Invited Talk at ISOS 2024
 - Indena SpA Travel Grant
 - PON-MIUR Doctoral Research Scholarship, Italy
 - High CGPA Merit Scholarship, University of Wah, 2018
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Publications

(Selected, Full list available on request)

- Khan, M. E. I. et al. (2025). *Asian J. Org. Chem.* (Submitted)
 - Khan, M. E. I. et al. (2024). *Org. Biomol. Chem.*, 22(16), 3299-3303
 - Khan, M. E. I. et al. (2024). *J. Mol. Struct.*, 1304, 137689
 - Ali, R. S. A. E. et al. (2024). *AI Chemistry*, 2(1), 100049
 - Khan, M. E. I. et al. (2023). *Synthesis*, 55(19), 3204-3208
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References

Dr. Alessandro Palmieri

PI, Green Chemistry Group, University of Camerino

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Dr. Andrea Gambini

R&D Manager, Indena SpA, Milan

Email: andrea.gambini@indena.com

Dr. Xuefeng Jiang

Professor, ECNU, Shanghai

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