

ZUNERA UMAR

Father Name: Khalid Humayoun

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Professional Summary

Experienced in teaching Intermediate classes and have served as a visiting faculty member at the BS level. I have worked as sub-examiner for the theory and practical exams. My research work has published in peer-reviewed international journals. Expertise in synthesizing bioactive compounds, publishing in international journals, and presenting at esteemed conferences. Skilled in applying innovative methodologies and fostering academic excellence in both classroom and research settings.

Professional Experience

- Lecturer Chemistry
Kinnaird College for Women, Lahore (September 2023 – up-to-date)
- Lecturer Chemistry (Adhoc)
Kinnaird College for Women, Lahore (September 2021 – April 2023)
- Visiting Lecturer
University of Education, Lahore (March – July 2021)
- Visiting Lecturer
Institute of Biochemistry and Biotechnology, University of the Punjab, Lahore (Sep 2016-january 2017, February – July 2021)
- College Teaching Intern (CTI)
Govt. College for Women, Gulberg, Lahore (February – June 2021)
- Research Officer
Institute of Chemistry, University of the Punjab, Lahore (2012 – 2017)

COURSES

- Intermediate Level

General Chemistry

- BS Level

Fundamentals of organic chemistry

Free radicals

Reactive intermediates

Molecular rearrangement

Separation and analytical techniques

Introduction to biochemistry

Electrochemistry

EDUCATION

- Ph.D. in Organic Chemistry

Institute of Chemistry, University of the Punjab, Lahore

- MS in Organic Chemistry

Institute of Chemistry, University of the Punjab, Lahore

- BS in Chemistry

Institute of Chemistry, University of the Punjab, Lahore

- Pre-Engineering

Govt. College for Women, Wahdat Road, Lahore

- Matriculation in Science

Divisional Public School, Model Town, Lahore

PUBLICATIONS

1. Recent Advancement in the Conversion of 1,2,3-Benzotriazin-4(3*H*)-One to other Heterocyclic Systems and Their Applications: A Concise Review, *ChemistrySelect*, 10(5), 2025
2. A Combined Experimental and Computational Study of Novel Benzotriazinone Carboxamides as Alpha-Glucosidase Inhibitors, *molecules*, 28, 6623, 2023.
3. Experimental and computational analysis of newly synthesized benzotriazinone sulfonamides as alpha-glucosidase inhibitors, *molecules*, 27, 6783, 2022.

4. Synthesis of 1,2,3-Benzotriazin-4(3*H*)-one derivative as α -glucosidase inhibitor and their in-silico study, *Medicinal Chemistry Research*, 31, 819, 2022.
5. A combined experimental and theoretical study of alkyl 2-(3-benzoyl- 4-hydroxy-1,1-dioxido-2 *H* -benzo[*e*][1,2]thiazin-2-yl)acetates: Synthesis, X-ray crystallography and DFT, 1258, 132671, 2022.
6. 1,2,3-Benzotriazin-4(3*H*)-ones: Synthesis, Reactions and Applications, *Heterocycles*, 28th October 2016.
7. Anti-HIV activity of new pyrazolobenzothiazine 5,5-dioxide-based Acetohydrazides, *Med Chem Res* (2015) 24:3671–3680.
8. 2-[2-(3-Chlorophenyl)-2-oxoethyl]-1,2-benzisothiazol-3(2*H*)-one 1,1-dioxide, Khalid, *Acta Cryst.* E66, o617, 2010.
9. 3-(3-Chlorobenzoyl)-4-hydroxy-2*H*-1,2-benzothiazine 1,1-dioxide Khalid, *Acta Cryst.* E66, o885, 2010.

CERTIFICATIONS

- Training in Anti-Bacterial Activity
- Workshop on PCR Technology

CONFERENCES

- Presented at the 2nd International Conference on Trends and Research in Chemistry (TRIC 2023), University of Education, Lahore
- Presented at the 2nd International Conference on Science, Technology, and Innovation (2022), Kinnaird College for Women, Lahore
- Participated in 13th International Chemistry Conference under the Chemical Society of Pakistan, University of the Punjab, Lahore (2014)